04 - ERECTION DIAGRAMS
INDEX OF DRAWINGS

DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
-	-		

DESIGNED BY:

URS
URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

PROGRESS PLANS

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 11/12/2014

DESIGNER/DRAFTER: R. WOODHOUSE
CHECKED BY: T. HOLLAND

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\MSH_0301_0163_TSH-V2-S04.dgn

SIGNATURE/
BLOCK:

PROJECT TITLE:
STAMFORD YARD CATENARY IMPROVEMENTS AND TRACK 7 EXTENSION

TOWN: **STAMFORD**

DRAWING TITLE: **ERECTION DIAGRAMS INDEX OF DRAWINGS**

PROJECT NO. **301-163**
DRAWING NO. **SCS-00**
SHEET NO. **02.04.000**

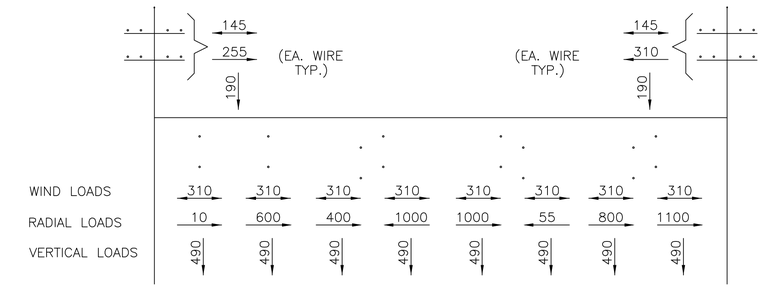
11/12/2014
P:\500 CADD-GIS-Graphics\510 CADD\$10.04 Struc. Bridge\MSta. Contract. Sheet. Files\MSH_0301_0163_TSH-V2-S04.dgn

Border Version: 11/14/08

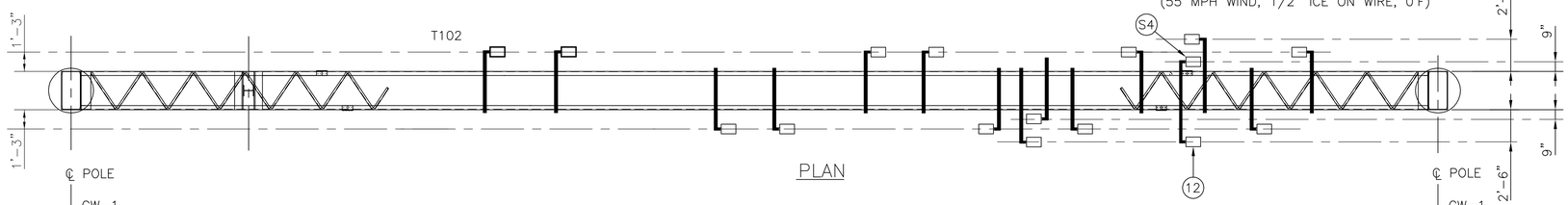
TRACK	5	3	1		2		4	
WIRE NO.	11	13	15	9	10	14	12	S4
MESSENGER HT.	21'-6"	21'-6"	21'-0"	21'-6"	21'-6"	21'-0"	21'-0"	21'-6"
CONTACT HT.	18'-0"	18'-0"	18'-0"	18'-9"	18'-9"	18'-0"	18'-0"	18'-1"
SYSTEM HT. DEPTH	3'-6"	3'-6"	3'-0"	2'-9"	2'-9"	3'-0"	3'-0"	3'-5"

NOTES

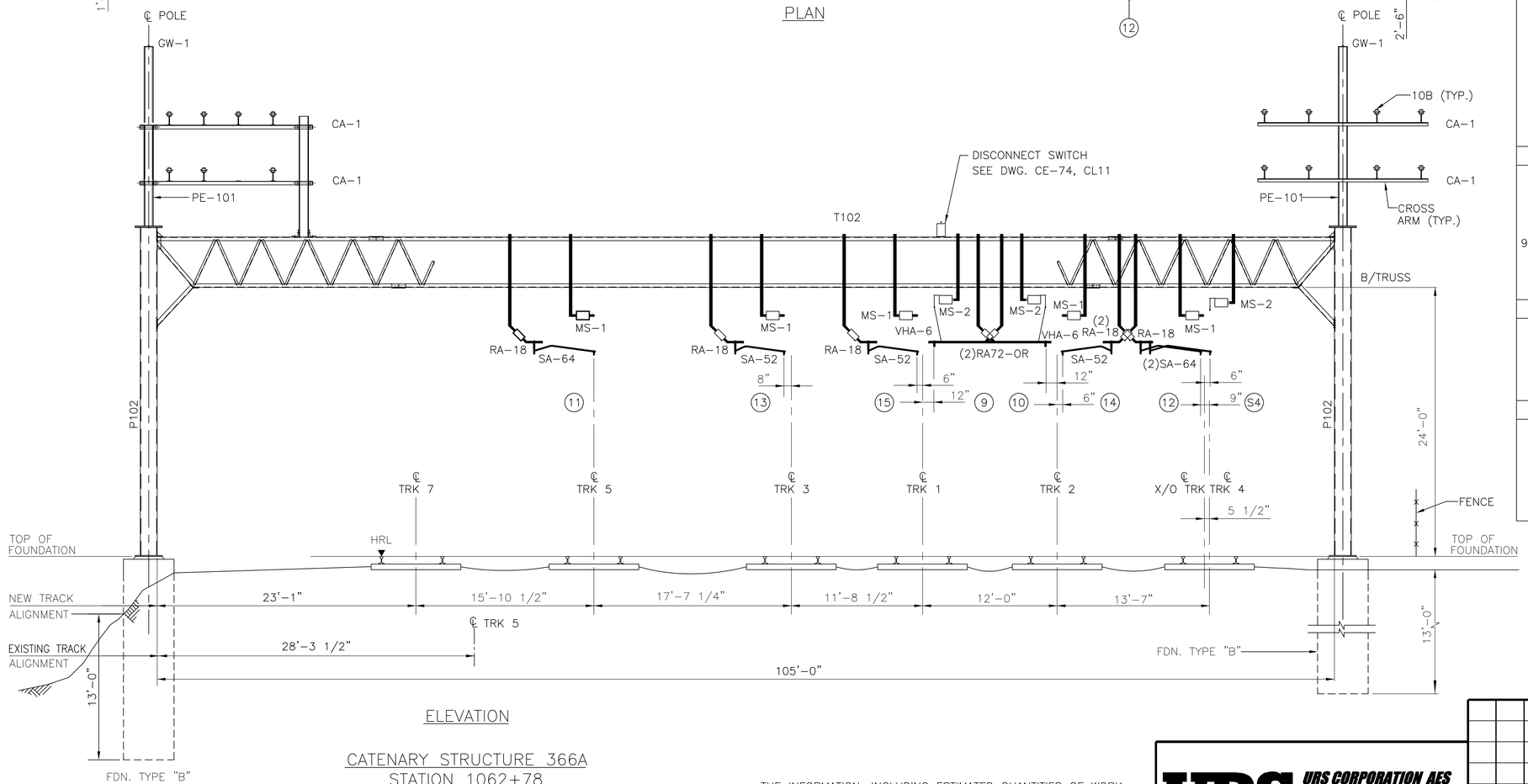
1. FOR GENERAL NOTES SEE DRAWING #CG-9.



LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)



PLAN



ELEVATION

CATENARY STRUCTURE 366A
STATION 1062+78
LOOKING EAST

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 366A

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	FOUNDATION TYPE	TYPE 'B'	2
STRUCTURAL STEELWORK & GUYS			
	TRUSS	T102	1
	POLE	P102	2
	CROSS ARM	CA-1	4
	POLE EXTENSION	PE-101	2
9(2),10(2), 11(2),13(2) 14(2),15(2) 12,S4	DROP TUBE SUPPORT	DT2-U-10	14
12/S4	DROP TUBE SUPPORT	DT2-2U-10	1
SUPPORT & REGISTRATION ASSEMBLIES			
11,12,13, 14,15	MESSENGER SUPPORT	MS-1	5
9,10,S4	MESSENGER SUPPORT	MS-2	3
11,12,S4	REGISTRATION ASSEMBLY	RA-18	6
13,14,15			
9,10	REGISTRATION ASSEMBLY	RA72-OR	2
13,14,15	STEADY ARM	SA-52	3
11,12,S4	STEADY ARM	SA-64	3
IN SPAN ASSEMBLIES			
9,10	VEE HANGER	VHA-6	2
ALL	CATENARY HANGERS	SEE TABULATION	
10	IN SPAN INSULATION ASSEMBLY	MCIA-1	1
9/15,10/14	POTENTIAL EQUALIZING JUMPER	TYPE "D"	2
9,15	CATENARY FEEDING JUMPER	TYPE "B-500C"	2
S4/12	CROSS CONTACT BRIDGE ASSEMBLY	CBA-10	1
GROUND WIRE ASSEMBLIES			
	GROUND WIRE ASSEMBLY	GW-1	2
MISCELLANEOUS & SWITCHING			
	PIN INSULATOR ASSEMBLY	10B	16

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

EXISTING STRUCTURES

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

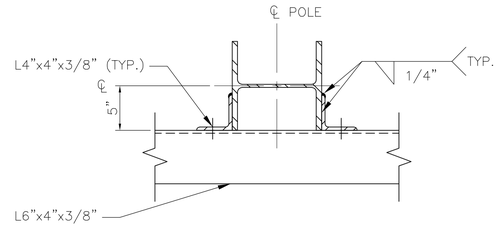
NO.	DATE	DESCRIPTION

REVISIONS

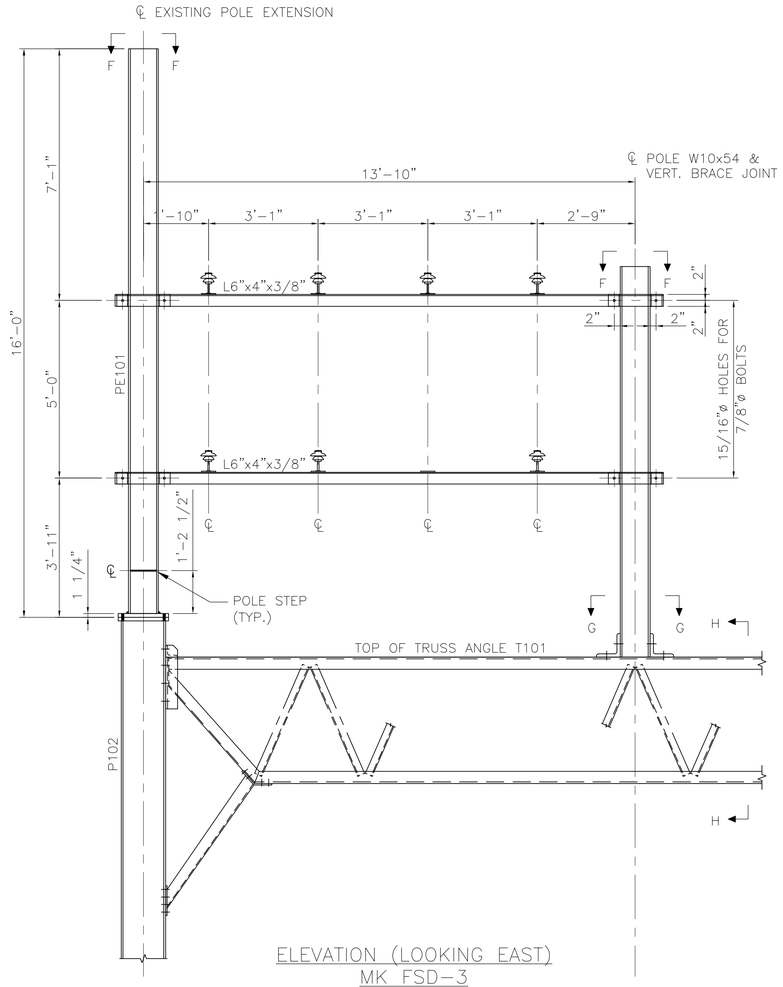
ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. S-42

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: S-42.dwg XX% DESIGN

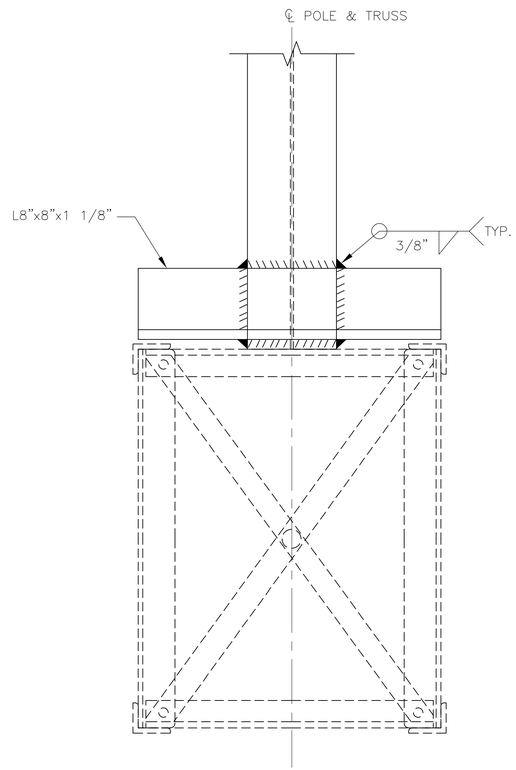
F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	



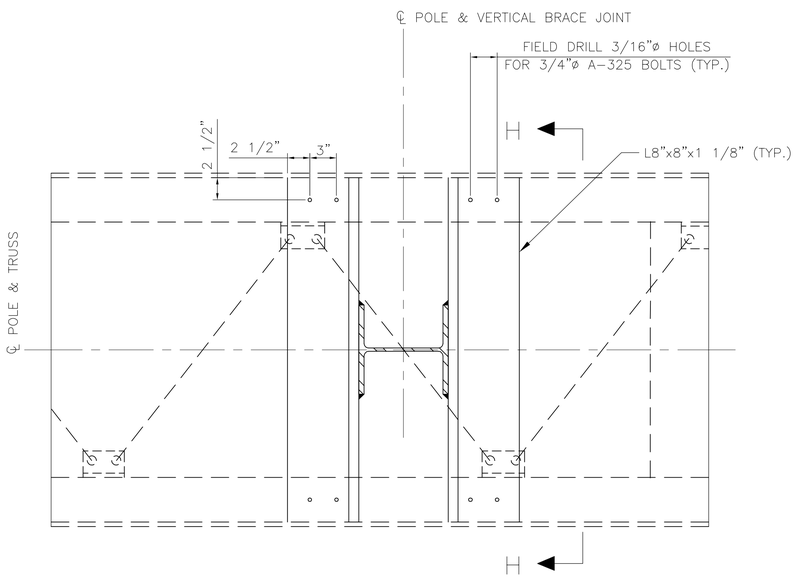
SECTION F-F



ELEVATION (LOOKING EAST)
MK FSD-3



SECTION H-H



SECTION G-G

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

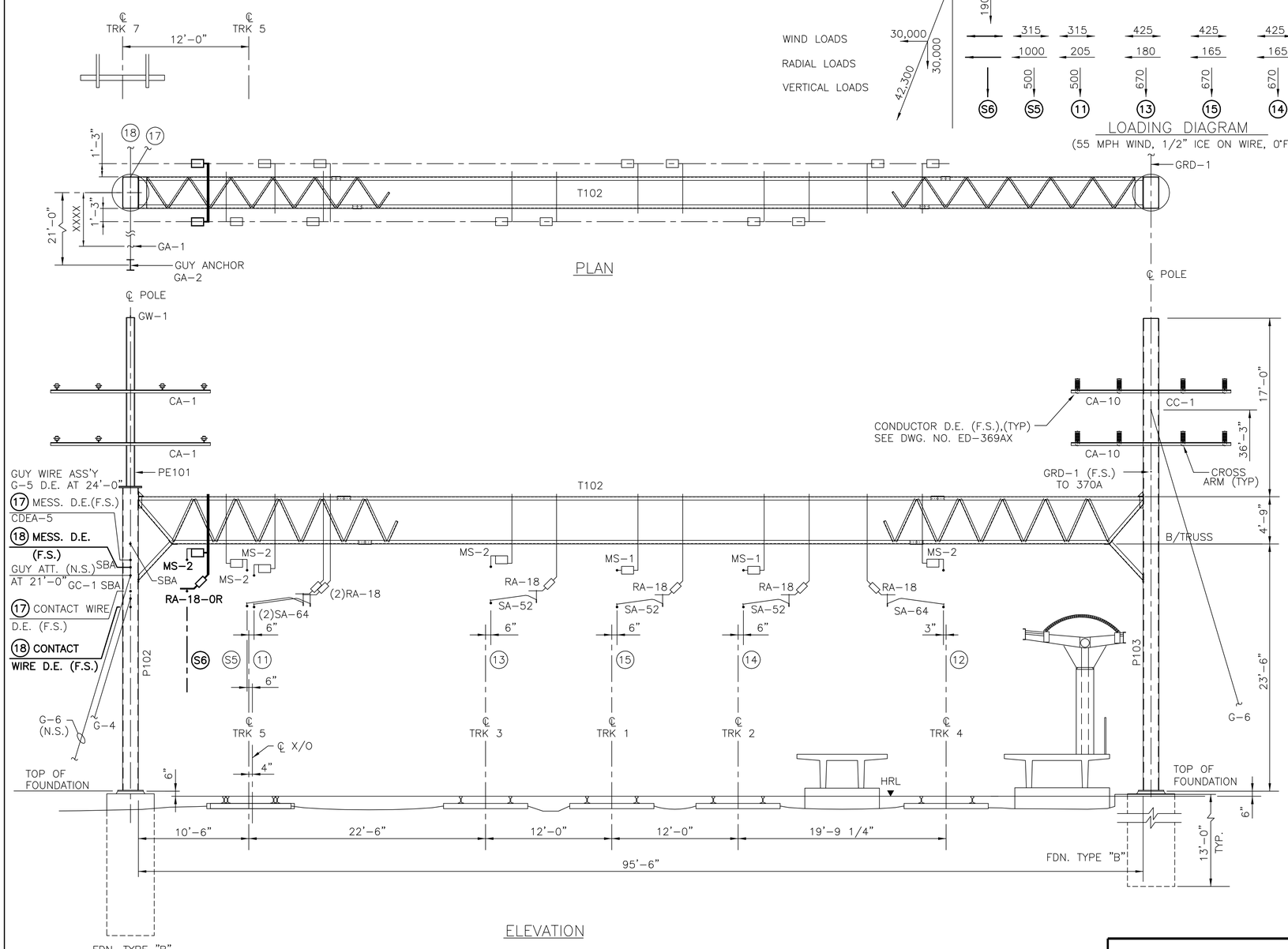
STAMFORD YARD CATENARY IMPROVEMENTS

EXISTING STRUCTURES

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. S-42

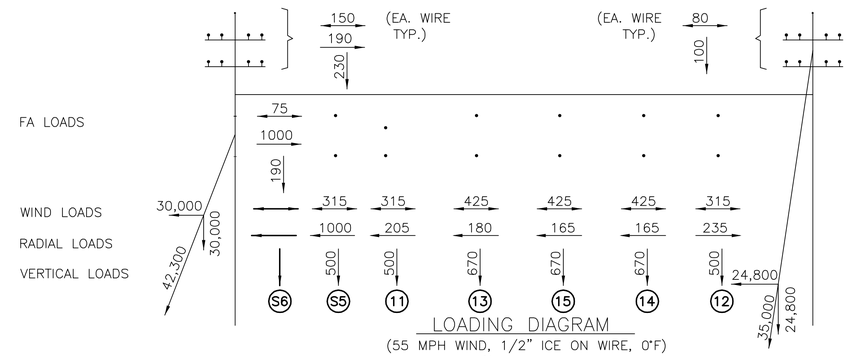
PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: S-42.dwg XX% DESIGN

TRACK	7	5			3	1	2	4
WIRE NO.	18	17	S6	S5	11	13	15	14	12
TAIL/ANCHOR HT.	FA	FA							
MESSENGER HT.	21'-6"	22'-6"	22'-6"	21'-6"	21'-0"	21'-10"	21'-6"	21'-6"	21'-6"
CONTACT HT.	18'-0"	19'-6"	19'-6"	18'-1"	18'-0"	18'-4 1/2"	18'-0"	18'-0"	18'-0"
SYSTEM HT. DEPTH	3'-6"	3'-0"	3'-0"	3'-5"	3'-0"	3'-5 1/2"	3'-6"	3'-6"	3'-6"



ELEVATION

CATENARY STRUCTURE 369B
STATION 1074+03
LOOKING EAST



LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 369B

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	TYPE 'B'	EX.
	GUY ANCHOR	GA-2	EX.
	GUY ANCHOR	GA-1	1
STRUCTURAL STEELWORK & GUYS			
	TRUSS	T102	EX.
	POLE	P102	EX.
	POLE	P103	EX.
	CROSS ARMS	CA-1	EX.
	POLE EXTENSION	PE-101	EX.
	DETAIL	GC-1	1
	DETAIL	SBA	2
	GUY ASSEMBLY	G-6	1
	DROP TUBE SUPPORT	DT8M	1
	DROP TUBE SUPPORT	DT10CW	1
SUPPORT & REGISTRATION ASSEMBLIES			
S6	MESSENGER SUPPORT	MS-2	1
S6	REGISTRATION ASSEMBLY	RA-18-OR	1
IN SPAN ASSEMBLIES			
18	CATENARY DEAD END ASSEMBLY	CDEA-5	1
18	IN-SPAN JUMPER	TYPE "C"	1
18	CATENARY HANGERS	SEE TABULATION	
GROUND WIRE ASSEMBLIES			
MISCELLANEOUS & SWITCHING			

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.

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URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

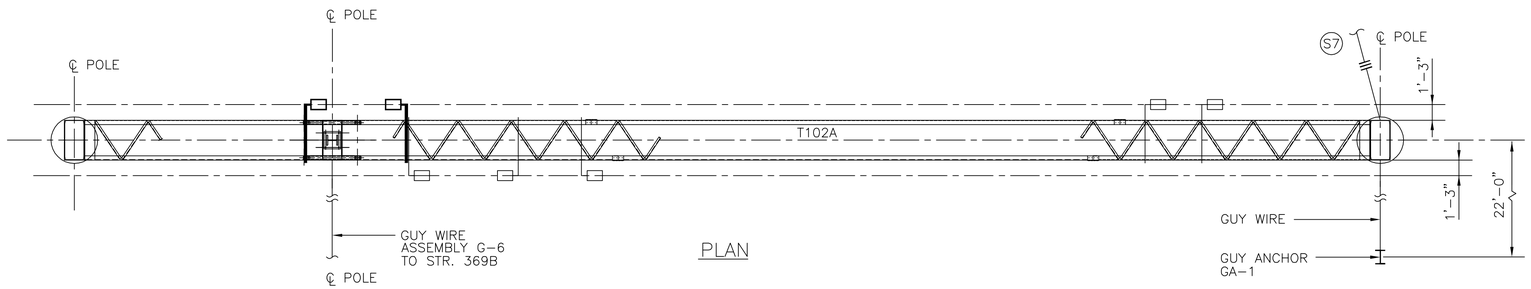
ERECTION DIAGRAM – 369B

SCALE: 3/16" = 1'-0"

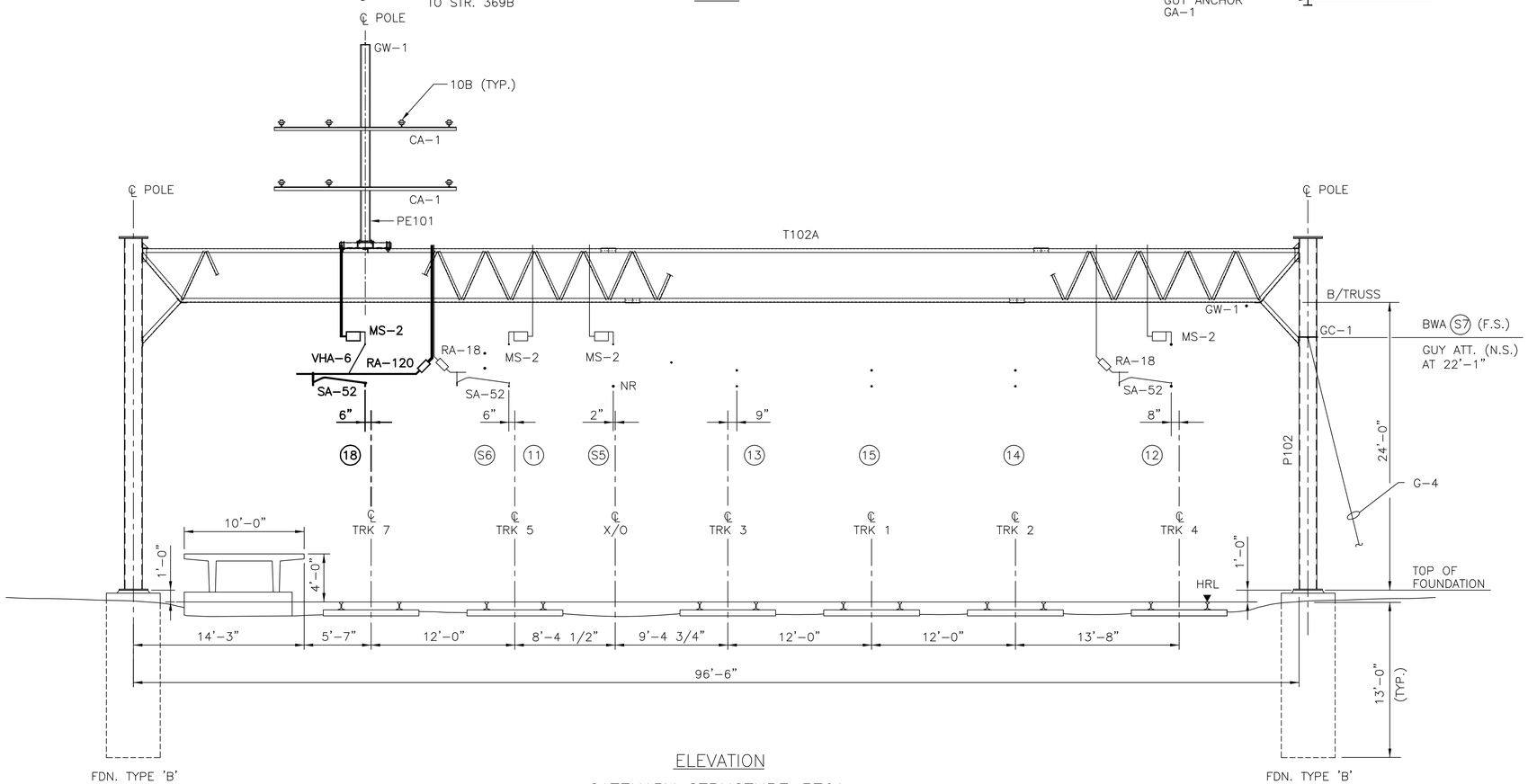
ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-369B

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME:ED-369B.DWG XX% DESIGN

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	



PLAN



ELEVATION

CATENARY STRUCTURE 370A

STATION 1075+48

LOOKING EAST

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.

SCALE: 3/16" = 1'-0"

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URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 370A

ENGINEER: URS CORPORATION AES

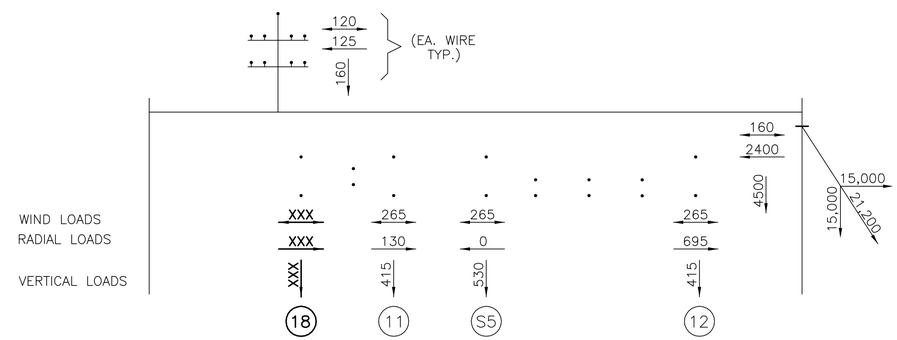
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM

APPROVED: T. HOLLAND | DATE: XX/XX/XX

STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-370A

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-370A.DWG XX% DESIGN

TRACK	7	5		3		1	2	4	
WIRE NO.	18	S6	11	S5	13	15	14	12	S7
TAIL/ANCHOR HT.									BWA 22'-1"
MESSENGER HT.	21'-6"	NSR	21'-6"	21'-6"	NSR	NSR	NSR	21'-6"	
CONTACT HT.	18'-0"		18'-0"	18'-0"				18'-0"	
SYSTEM HT. DEPTH	3'-6"		3'-6"	3'-6"				3'-6"	



LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 370A_BM

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	TYPE 'B'	EX.
	POLE FOUNDATION	TYPE 'H'	–
	GUY ANCHOR	GA-1	EX.
STRUCTURAL STEELWORK & GUYS			
	TRUSS	T102A	EX.
	TRUSS EXTENSION		1
	POLE	P102	1
	CROSS ARM	CA-1	EX.
	POLE EXTENSION	PE-101	1
	DETAIL	GC-1	EX.
	DETAIL	PE-CD	1
	BALANCE WEIGHT ASSEMBLY	BWA	EX.
	GUY ASSEMBLY	G-4	EX.
18	DROP TUBE SUPPORT	DT10M	1
18	DROP TUBE SUPPORT	DT17CW	1
SUPPORT & REGISTRATION ASSEMBLIES			
18	MESSENGER SUPPORT	MS-2	1
18	REGISTRATION ASSEMBLY	RA -120	1
18	STEADY ARM	SA-52	1
IN SPAN ASSEMBLIES			
ALL	CATENARY HANGERS	SEE TABULATION	
18	IN-SPAN JUMPER	TYPE "C"	1
GROUND WIRE ASSEMBLIES			
	GROUND WIRE ASSEMBLY	GW-1	2
MISCELLANEOUS & SWITCHING			
	PIN INSULATOR ASS'YS	10B	7

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 370A

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URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

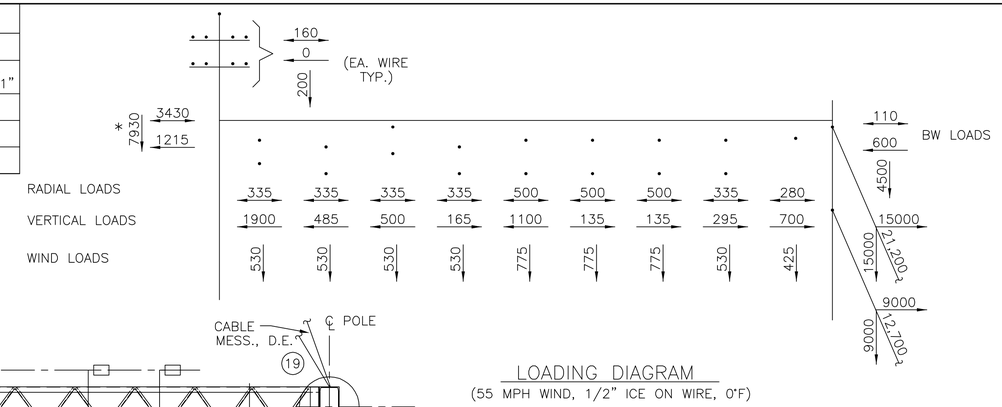
NO.	DATE	DESCRIPTION

REVISIONS

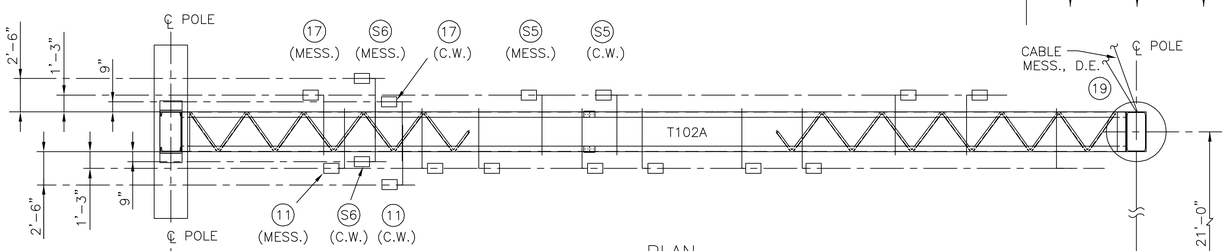
ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-370A_BM

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-370A_BM.DWG XX% DESIGN

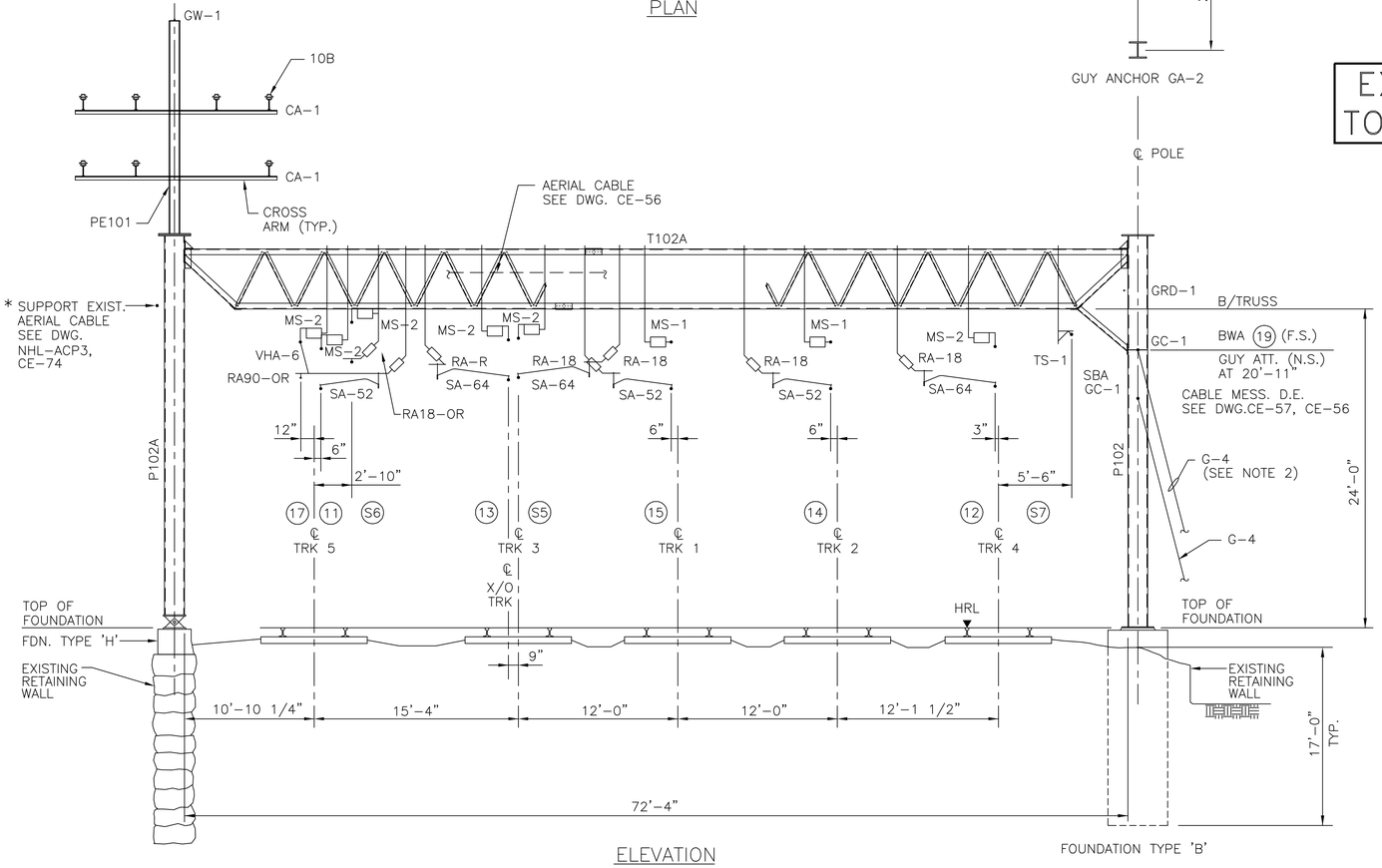
TRACK	5			3		1	2	4		
WIRE NO.	17	11	S6	13	S5	15	14	12	S7	19
TAIL/ANC. HT									TAIL 22'-1"	BWA 20'-11"
MESSENGER HT.	21'-6"	21'-0"	23'-0"	21'-8"	21'-9 1/2"	21'-6"	21'-6"	21'-6"		
CONTACT HT.	18'-9"	18'-0"	20'-0"	18'-8"	18'-10"	18'-0"	18'-0"	18'-0"		
SYSTEM HT. DEPTH	2'-9"	3'-0"	3'-0"	3'-0"	2'-11 1/2"	3'-6"	3'-6"	3'-6"		



LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)



PLAN



ELEVATION

EXISTING CATENARY STRUCTURE 370B
STATION 1076+43
LOOKING EAST

EXISTING 370B TO BE REMOVED

NOTE

1. FOR GENERAL NOTES, SEE DRAWING G-8.

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F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 370B

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	TYPE 'B'	
	POLE FOUNDATION	TYPE 'H'	
	GUY ANCHOR	GA-2	
STRUCTURAL STEELWORK & GUYS			
	TRUSS	T102A	
	POLE	P102	
	POLE	P102A	
	CROSS ARM	CA-1	
	POLE EXTENSION	PE101	
	BALANCE WEIGHT ASS'Y	BWA	
	GUY ASSEMBLY	G-4	
	DETAIL	GC-1	
	DETAIL	SBA	
17,11,13,S5, 15,14,12,S7	DROP TUBE ASSEMBLY	DT2-U-10	
13,S5,15, 14,12	DROP TUBE ASSEMBLY	DT2-U-11	
S6/S6	DROP TUBE ASSEMBLY	DT2-2U-10	
11/17	DROP TUBE ASSEMBLY	DT2-2U-11	
SUPPORT & REGISTRATION ASSEMBLIES			
15,14	MESSENGER SUPPORT	MS-1	
17,11,S6,S5, 12,13	MESSENGER SUPPORT	MS-2	
11,S5,15, 14,12	REGISTRATION ASSEMBLY	RA-18	
S6	REGISTRATION ASSEMBLY	RA18-OR	
13	REGISTRATION ASSEMBLY	RA-R	
17	REGISTRATION ASSEMBLY	RA90-OR	
11,14,15	STEADY ARM	SA-52	
12,13,S5	STEADY ARM	SA-64	
S7	TAIL WIRE SUPPORT	TS-1	
IN SPAN ASSEMBLIES			
17	VEE HANGER	VHA-6	
12,14,15	IN-SPAN JUMPER	TYPE "C"	
19,S7	MID-SPAN INSULATION ASSEMBLY	MIA	
S5,S6	IN-SPAN INSULATION ASSEMBLY	MCIA-1	
ALL	CATENARY HANGERS	SEE TABULATION	
S5/15, 11/17	POTENTIAL EQUALIZING JUMPER	TYPE "D"	
GROUND WIRE ASSEMBLIES			
	GROUND WIRE ASSEMBLY	GW-1	
	GROUND WIRE ASSEMBLY	GRD-1	
MISCELLANEOUS & SWITCHING			
	PIN INSULATOR ASSEMBLY	10B	

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 370B

SCALE: 3/16" = 1'-0"

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

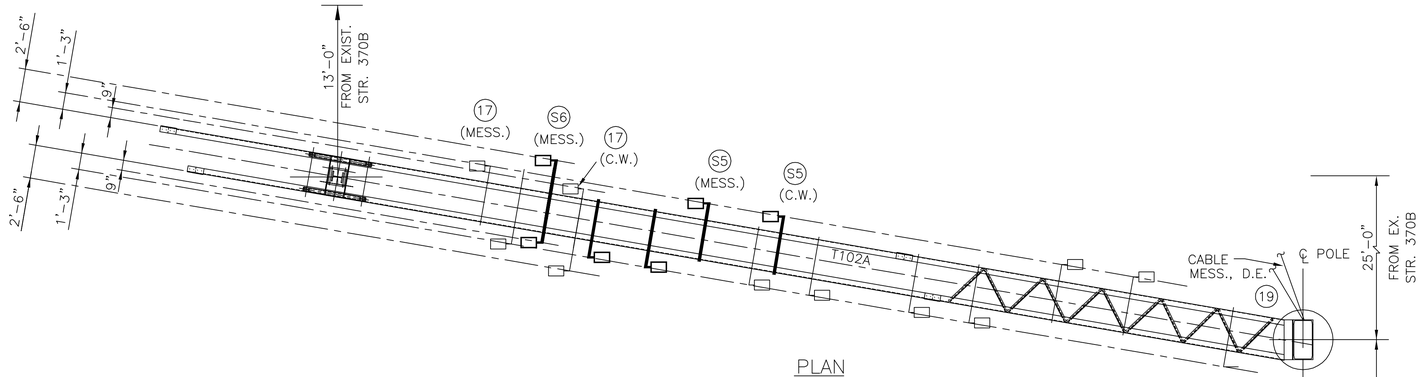
NO.	DATE	DESCRIPTION

REVISIONS

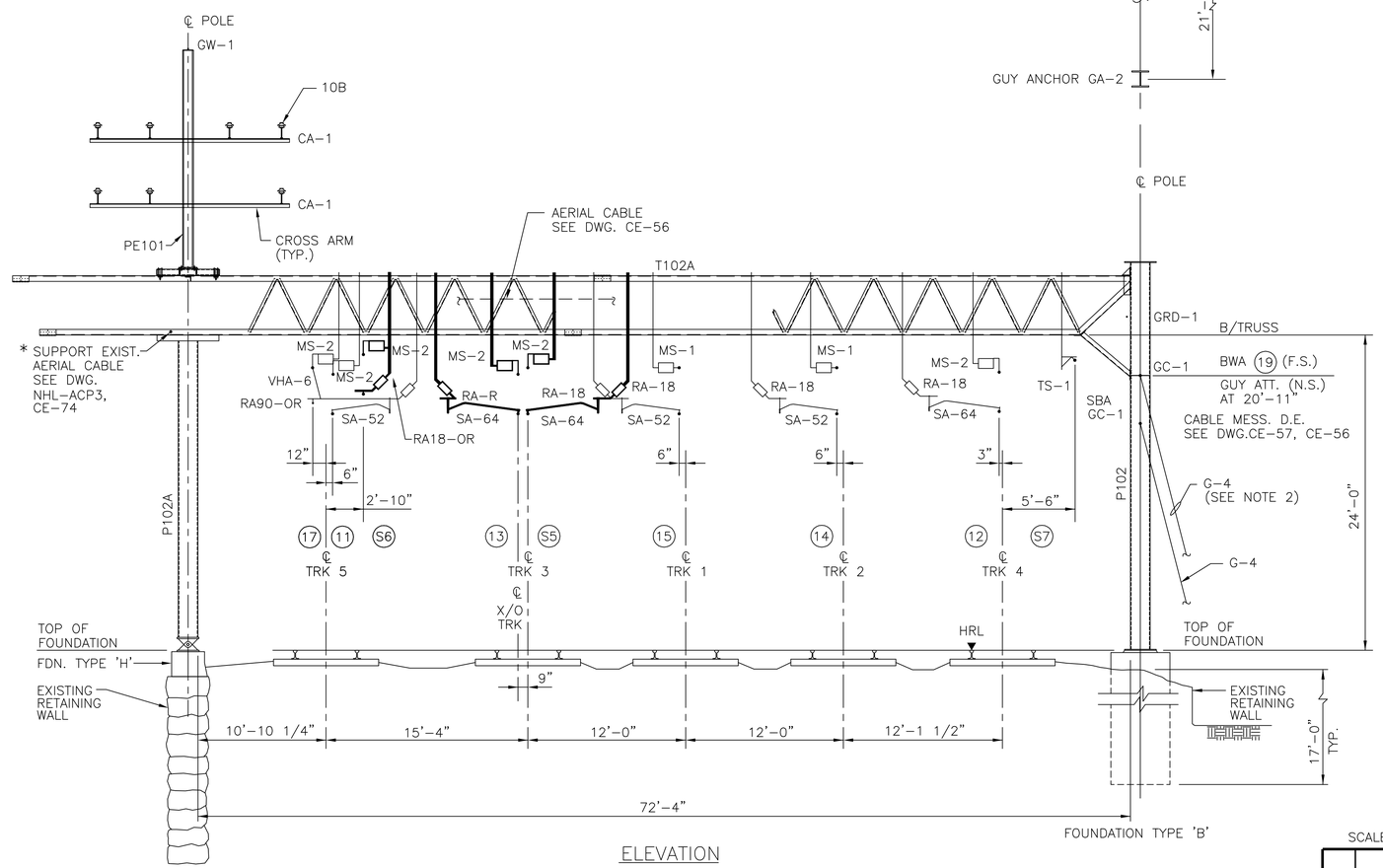
ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-370B (EX.)

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-370B (EX).DWG XX% DESIGN

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	



PLAN



ELEVATION

CATENARY STRUCTURE 370B (INTERIM)

STATION 1076+23

LOOKING EAST

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

NOTE

1. FOR GENERAL NOTES, SEE DRAWING G-8.

SCALE: 3/16" = 1'-0"

NO.	DATE	DESCRIPTION

REVISIONS

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

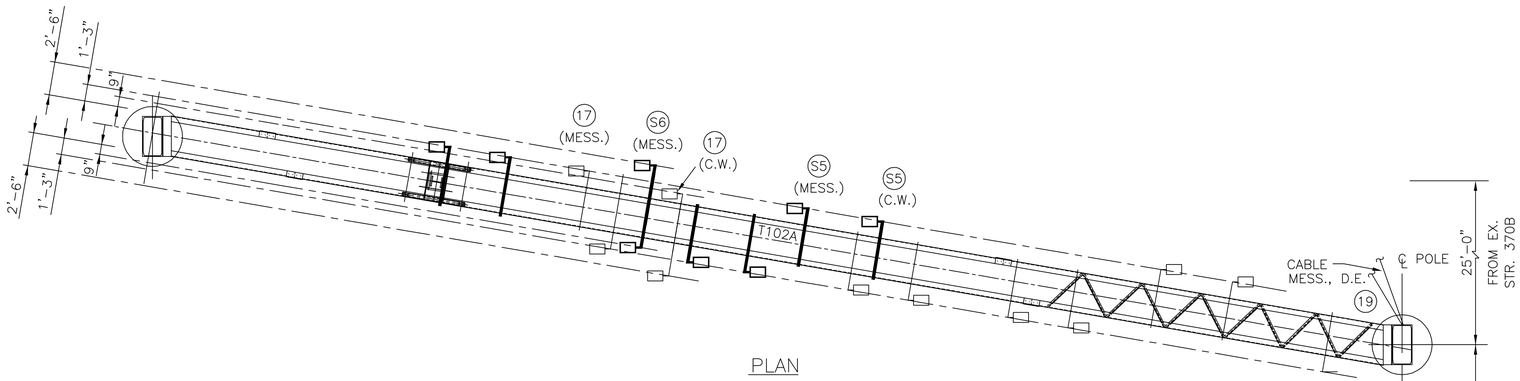
STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 370B

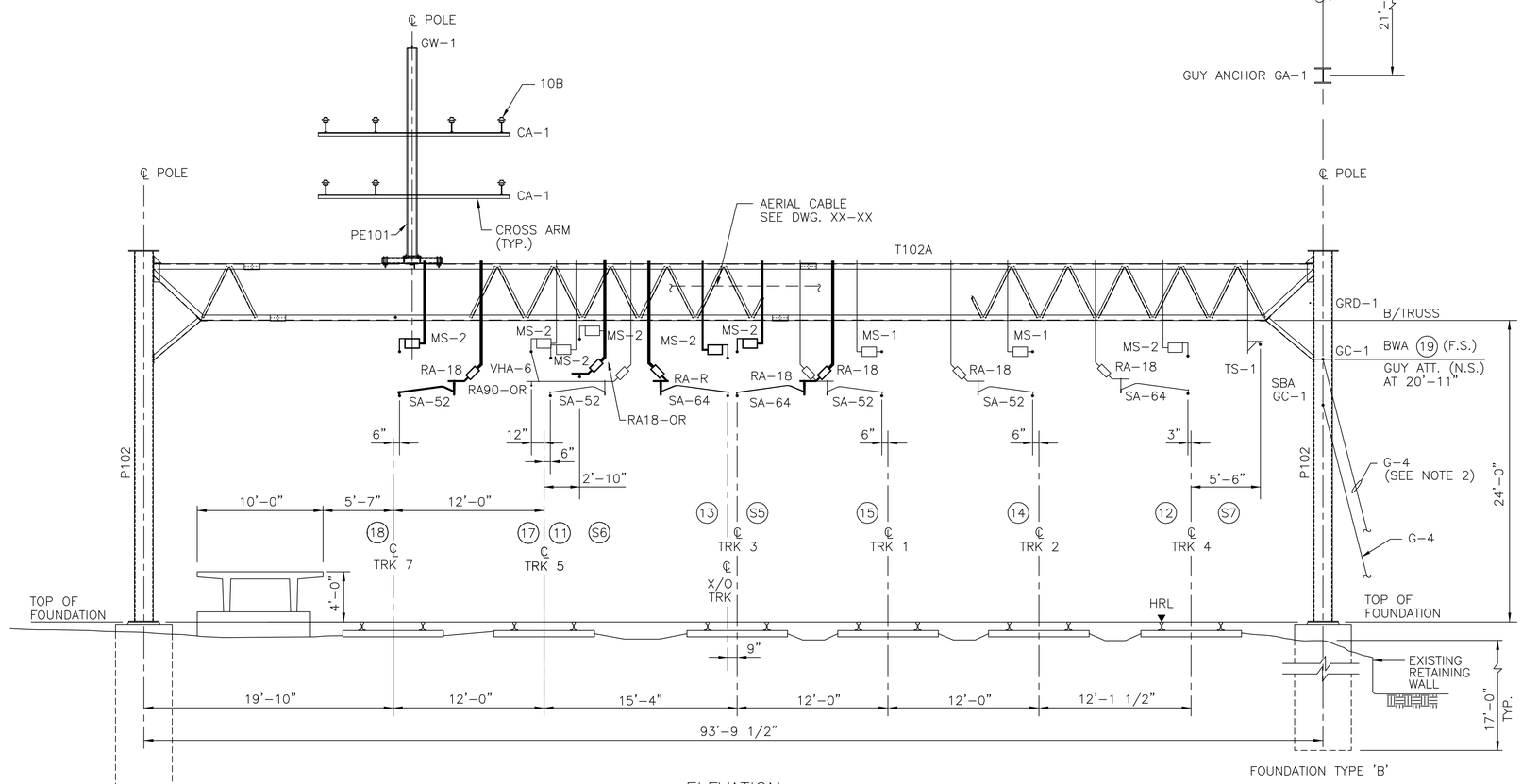
ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-370B (INTER)

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME:ED-370B(NEW-int.).DWG XX% DESIGN

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	



PLAN



ELEVATION

NEW CATENARY STRUCTURE 370B

STATION 1076+23

LOOKING EAST

NOTE

1. FOR GENERAL NOTES, SEE DRAWING G-8.
2. PROVIDE 1 1/8" SHACKLE AT END OF GUY ASSEMBLY TO RECEIVE ONE MORE GUY TO CONNECT AT SAME ANCHOR. SIZE HOLE IN GA-1 STEEL TO SUIT.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

SCALE: 3/16" = 1'-0"

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 370B

ENGINEER: URS CORPORATION AES

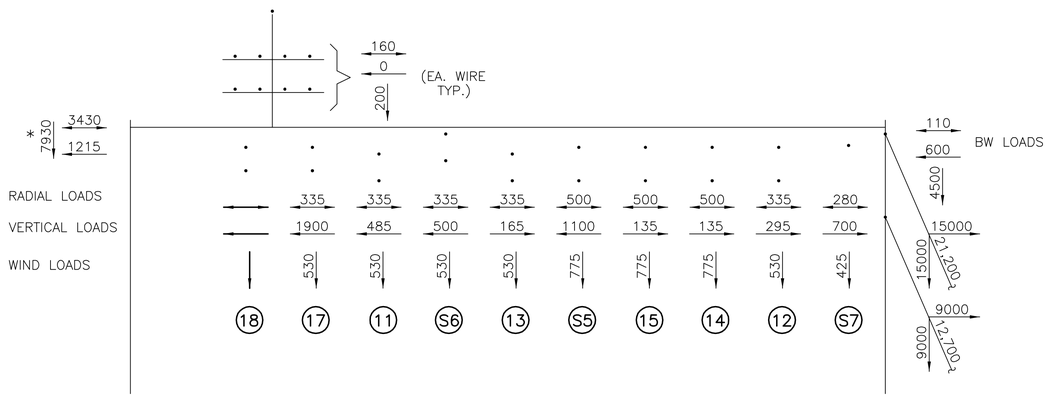
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM

APPROVED: T. HOLLAND | DATE: XX/XX/XX

STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-370B(NEW)

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-370B(NEW).DWG XX% DESIGN

TRACK	7	5			3		1	2	4		
WIRE NO.	18	17	11	S6	13	S5	15	14	12	S7	19
TAIL/ANC. HT										TAIL 22'-1"	BWA 20'-11"
MESSENGER HT.	21'-6"	21'-6"	21'-0"	22'-6"	21'-0"	21'-6"	21'-6"	21'-6"	21'-6"		
CONTACT HT.	18'-0"	18'-9"	18'-0"	19'-6"	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"		
SYSTEM HT. DEPTH	3'-6"	2'-9"	3'-0"	3'-0"	3'-0"	3'-6"	3'-6"	3'-6"	3'-6"		



LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 370B_BM

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	TYPE 'B'	2
	POLE FOUNDATION (TEMP INTERIM)	TYPE 'H'	1
	GUY ANCHOR	GA-1	1
STRUCTURAL STEELWORK & GUYS			
	TRUSS	T102A	1
	POLE	P102	2
	POLE (TEMP INTERIM)	P102A	1
	CROSS ARM	CA-1	2
	POLE EXTENSION	PE101	1
	BALANCE WEIGHT ASS'Y	BWA	1
	GUY ASSEMBLY	G-4	1
	DETAIL	GC-1	2
	DETAIL	SBA	2
18,17,11,13,S5, 15,14,12,S7	DROP TUBE ASSEMBLY	DT10M	9
18,13,S5,15, 14,12	DROP TUBE ASSEMBLY	DT11CW	6
S6/S6	DROP TUBE ASSEMBLY	DT10M/DT10CW	1
11/17	DROP TUBE ASSEMBLY	DT11M/DT11CW	1
SUPPORT & REGISTRATION ASSEMBLIES			
15,14	MESSENGER SUPPORT	MS-1	2
18,17,11,S6,S5, 12,13	MESSENGER SUPPORT	MS-2	7
18,11,S5,15, 14,12	REGISTRATION ASSEMBLY	RA-18	6
S6	REGISTRATION ASSEMBLY	RA18-OR	1
13	REGISTRATION ASSEMBLY	RA-R	1
17	REGISTRATION ASSEMBLY	RA90-OR	1
18,11,14,15	STEADY ARM	SA-52	4
12,13,S5	STEADY ARM	SA-64	3
S7	TAIL WIRE SUPPORT	TS-1	1
IN SPAN ASSEMBLIES			
17	VEE HANGER	VHA-6	1
18	IN-SPAN JUMPER	TYPE "C"	1
ALL	CATENARY HANGERS	SEE TABULATION	
GROUND WIRE ASSEMBLIES			
	GROUND WIRE ASSEMBLY	GW-1	1
	GROUND WIRE ASSEMBLY	GRD-1	1
MISCELLANEOUS & SWITCHING			
	PIN INSULATOR ASSEMBLY	10B	7

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

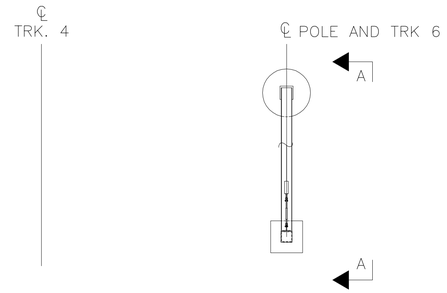
STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 370B

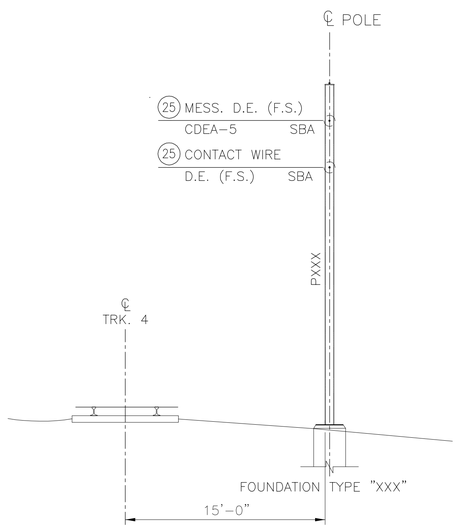
ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-370B_BM

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-370B_BM(new).DWG XX% DESIGN

TRACK	4
WIRE NO.	25
TAIL/ANCHOR HT.	
MESSENGER HT.	21'-6"
CONTACT HT.	18'-0"
SYSTEM HT. DEPTH	3'-6"

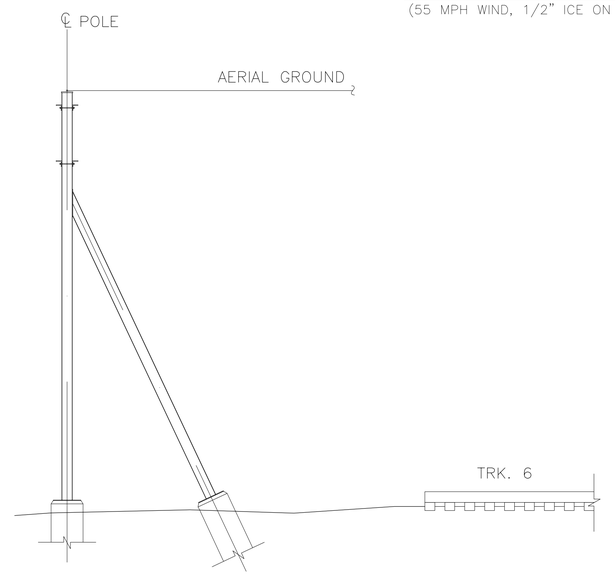


PLAN

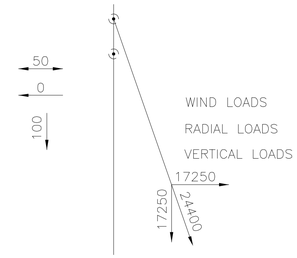


ELEVATION

CATENARY DEAD END STRUCTURE 370X
STATION 1078+XX
LOOKING EAST



VIEW A-A



CATENARY LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)

NOTES

1) FOR GENERAL NOTES, SEE DRAWING G-8.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 370X

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION KNEE BRACE FOUNDATION		
STRUCTURAL STEELWORK & GUYS			
	POLE GUY ASSEMBLY DETAIL	SBA	2
SUPPORT & REGISTRATION ASSEMBLY			
IN SPAN ASSEMBLY			
25 25	CATENARY DEAD END ASSEMBLY CATENARY HANGERS	CDEA-5 SEE TABULATION	1
GROUND WIRE ASSEMBLY			
	GROUND WIRE ASSEMBLY	GRD-1	1
MISCELLANEOUS & SWITCHING			

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM - 370X

SCALE: 3/16" = 1'-0"

NO.	DATE	DESCRIPTION

REVISIONS

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-370X

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-370X (EX).DWG XX% DESIGN

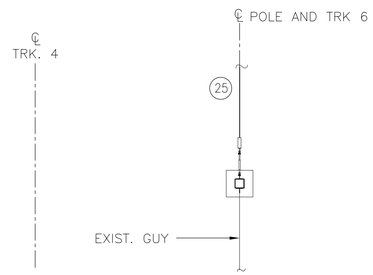
TRACK	4
WIRE NO.	25
TAIL/ANCHOR HT.	
MESSENGER HT.	21'-6"
CONTACT HT.	18'-0"
SYSTEM HT. DEPTH	3'-6"

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

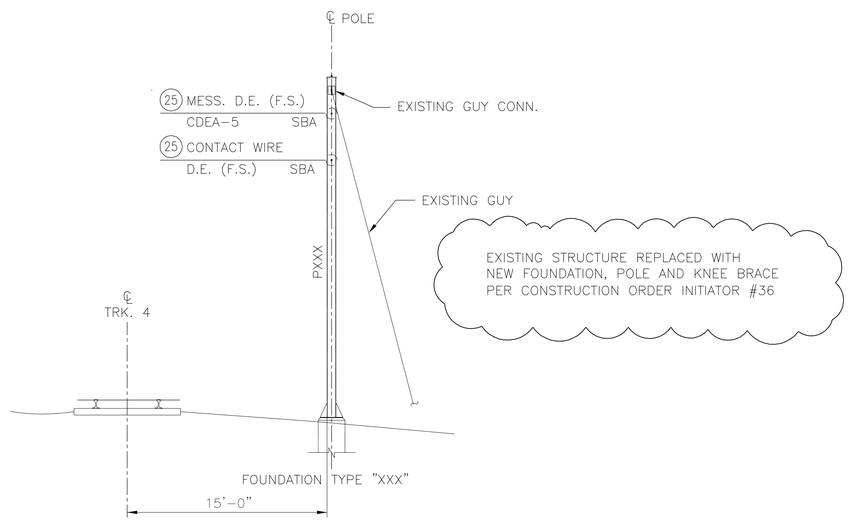
ERECTION DIAGRAM No. 370X

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION KNEE BRACE FOUNDATION		
STRUCTURAL STEELWORK & GUYS			
	POLE GUY ASSEMBLY DETAIL	SBA	2
SUPPORT & REGISTRATION ASSEMBLY			
IN SPAN ASSEMBLY			
25 25	CATENARY DEAD END ASSEMBLY CATENARY HANGERS	CDEA-5 SEE TABULATION	1
GROUND WIRE ASSEMBLY			
	GROUND WIRE ASSEMBLY	GRD-1	1
MISCELLANEOUS & SWITCHING			

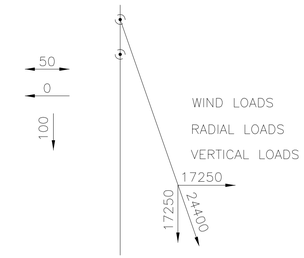


PLAN



ELEVATION

CATENARY DEAD END STRUCTURE 370X
STATION 1078+XX
LOOKING EAST



CATENARY LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)

NOTES

1) FOR GENERAL NOTES, SEE DRAWING G-8.

SCALE: 3/16" = 1'-0"

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

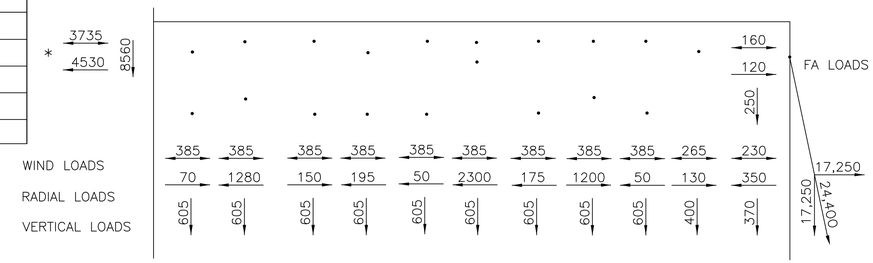
STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 370X

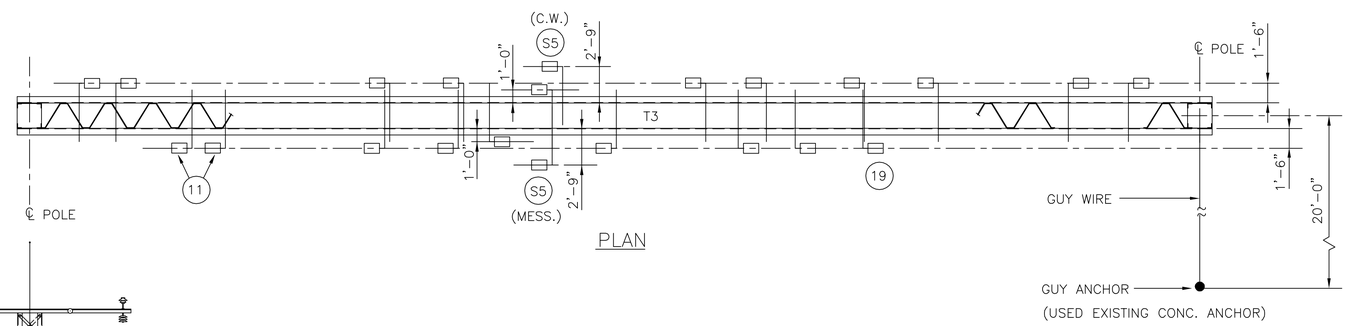
ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-370X(new)

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME:ED-370X(new).DWG XX% DESIGN

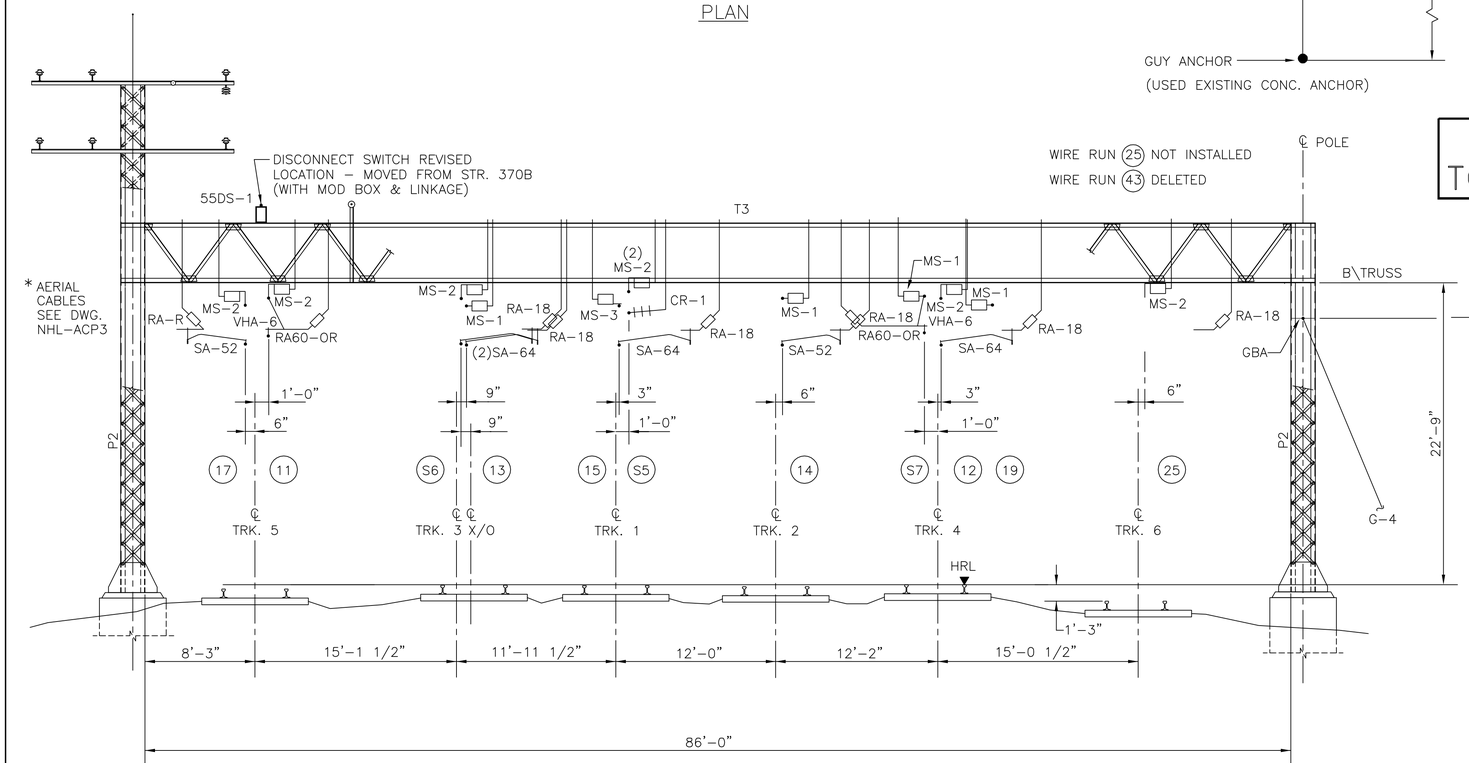
TRACK	5		3		1		2	4			6	8
WIRE NO.	17	11	S6	13	15	S5	14	S7	12	19	25	43
TAIL/ANCHOR HT.										TAIL 21'-0"		FA
MESSENGER HT.	21'-0"	21'-6"	21'-6"	21'-0"	21'-6"	22'-0"	21'-6"	21'-8"	21'-6"			
CONTACT HT.	18'-0"	18'-9"	18'-1"	18'-0"	18'-0"	20'-5"	18'-0"	18'-11"	18'-0"			
SYSTEM HT. DEPTH	3'-0"	2'-6"	3'-5"	3'-0"	3'-6"	1'-6"	3'-6"	2'-9"	3'-6"			



CATENARY LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)



PLAN



ELEVATION

EXISTING CATENARY STRUCTURE 371

STATION 1078+61
LOOKING EAST

EXISTING 371
TO BE REMOVED

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 371

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	EXISTING	
STRUCTURAL STEELWORK & GUYS			
	TRUSS T3	EXISTING	
	POLE P2	EXISTING	
	GUY ASSEMBLY	G-4	
	DETAIL	SBA	
	DETAIL	GBA	
11,S6,15, S7,25	DROP TUBE SUPPORT	DT-U-7	
S5	DROP TUBE SUPPORT	DT-2U-7	
17(2),11,S6, 13(2),15,14(2), S7,12,25	DROP TUBE SUPPORT	DT-U-8	
12/19	DROP TUBE SUPPORT	DT-2U-8	
S5	DROP TUBE SUPPORT	DT-U-10	
SUPPORT & REGISTRATION ASSEMBLIES			
13,14,S7,19	MESSENGER SUPPORT	MS-1	
15	MESSENGER SUPPORT	MS-3(MODIFIED)	
17,11,S6, S5(2),12,25	MESSENGER SUPPORT	MS-2	
S6,13,15, 14,12,25	REGISTRATION ASSEMBLY	RA-18	
17	REGISTRATION ASSEMBLY	RA-R	
11,S7	REGISTRATION ASSEMBLY	RA60-OR	
S5	REGISTRATION ASSEMBLY	CR-1	
17,14	STEADY ARM	SA-52	
S6,13,15,12	STEADY ARM	SA-64	
IN SPAN ASSEMBLIES			
14,15	IN-SPAN INSULATION JUMPER	TYPE "C"	
12/19	POTENTIAL EQUALIZING JUMPER	TYPE "D"	
S5	IN-SPAN INSULATION ASSEMBLY	MCIA-1	
11,S7	VEE HANGER	VHA-6	
ALL	CATENERY HANGERS	SEE TABULATION	
S6/13,S7/12	FULL LOAD FEEDING JUMPER	TYPE "A"	
S6	SECTION INSULATOR ASSEMBLY	LS-1	
S6/13, S7/12(2)	CROSS CONTACT BRIDGE ASSEMBLIES	CBA-10	
11,17	CATENERY FEEDING JUMPER	B-500C	
11,17	IN-SPAN INSULATION ASSEMBLY	MCIA-2	
GROUND WIRE ASSEMBLIES			
	GROUND WIRE ASSEMBLY	EXISTING	
MISCELLANEOUS & SWITCHING			
	FEEDER WIRE ASSEMBLIES	EXISTING	

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.

SCALE: 3/16" = 1'-0"

NO.	DATE	DESCRIPTION

REVISIONS

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

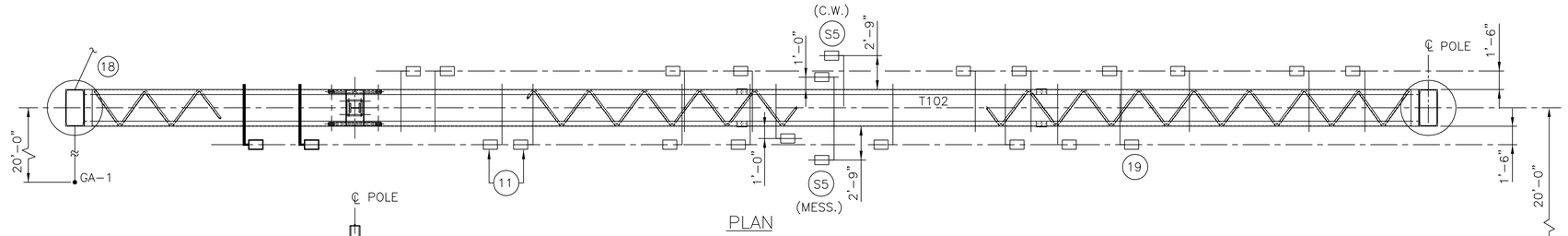
STAMFORD YARD CATENARY IMPROVEMENTS

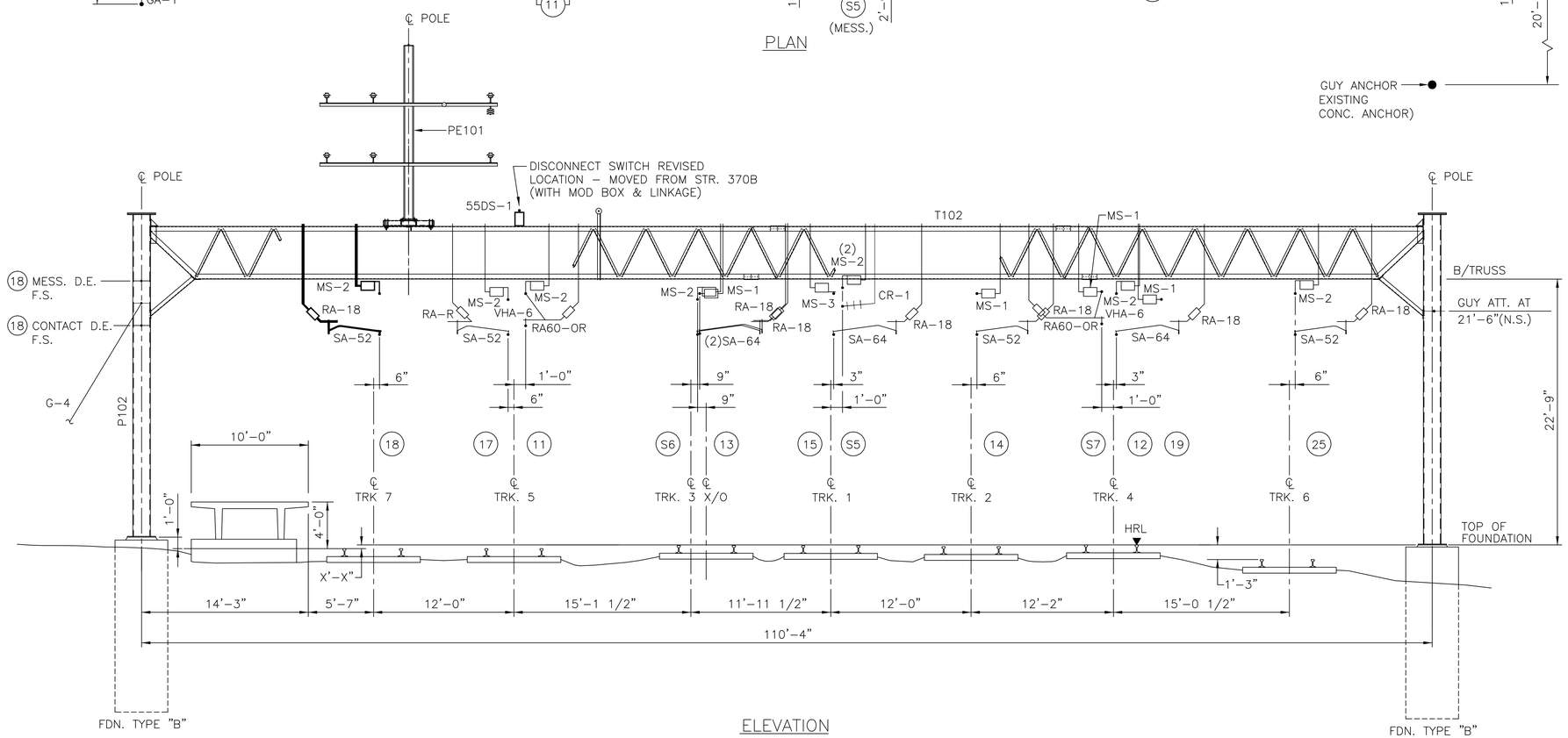
ERECTION DIAGRAM – 371

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-371(EX.)

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME:ED-371 (EX.).DWG XX% DESIGN

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	





ELEVATION

NEW CATENARY STRUCTURE 371

STATION 1078+71
LOOKING EAST

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.

SCALE: 3/16" = 1'-0"

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

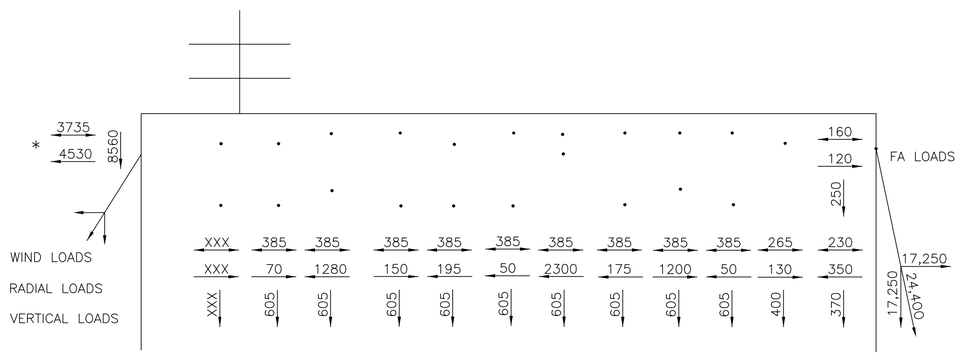
STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 371

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-371(new)

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME:ED-371(new).DWG XX% DESIGN

TRACK	7	5		3		1		2	4			6
WIRE NO.	**18**	17	11	S6	13	15	S5	14	S7	12	19	25
TAIL/ANCHOR HT.											TAIL 21'-0"	
MESSENGER HT.	**21'-6"**	21'-0"	21'-6"	21'-6"	21'-0"	21'-6"	22'-0"	21'-6"	21'-8"	21'-6"		**21'-6"**
CONTACT HT.	**18'-0"**	18'-0"	18'-9"	18'-1"	18'-0"	18'-0"	20'-5"	18'-0"	18'-11"	18'-0"		**18'-0"**
SYSTEM HT. DEPTH	**3'-6"**	3'-0"	2'-6"	3'-5"	3'-0"	3'-6"	1'-6"	3'-6"	2'-9"	3'-6"		**3'-6"**



CATENARY LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 371_BM

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	–	2
	GUY ANCHOR	GA-1	1
STRUCTURAL STEELWORK & GUYS			
	TRUSS T102	–	1
	POLE P102	–	2
	GUY ASSEMBLY	G-4	2
	DETAIL	SBA	2
	DETAIL	GBA	1
11,S6,15, S7,25	DROP TUBE SUPPORT	DT-U-7	5
S5	DROP TUBE SUPPORT	DT-2U-7	1
18(2),17(2),11,S6, 13(2),15,14(2), S7,12,25	DROP TUBE SUPPORT	DT-U-8	14
12/19	DROP TUBE SUPPORT	DT-2U-8	1
S5	DROP TUBE SUPPORT	DT-U-10	1
SUPPORT & REGISTRATION ASSEMBLIES			
13,14,S7,19	MESSENGER SUPPORT	MS-1	4
15	MESSENGER SUPPORT	MS-3(MODIFIED)	1
18,17,11,S6, S5(2),12,25	MESSENGER SUPPORT	MS-2	8
18,S6,13,15, 14,12,25	REGISTRATION ASSEMBLY	RA-18	7
17	REGISTRATION ASSEMBLY	RA-R	1
11,S7	REGISTRATION ASSEMBLY	RA60-OR	2
S5	REGISTRATION ASSEMBLY	CR-1	1
18,17,14,25	STEADY ARM	SA-52	4
S6,13,15,12	STEADY ARM	SA-64	4
IN SPAN ASSEMBLIES			
14,15	IN-SPAN INSULATION JUMPER	TYPE "C"	2
12/19	POTENTIAL EQUALIZING JUMPER	TYPE "D"	1
S5	IN-SPAN INSULATION ASSEMBLY	MCIA-1	1
11,S7	VEE HANGER	VHA-6	2
ALL	CATENERY HANGERS	SEE TABULATION	
S6/13,S7/12	FULL LOAD FEEDING JUMPER	TYPE "A"	2
S6	SECTION INSULATOR ASSEMBLY	LS-1	1
S6/13, S7/12(2)	CROSS CONTACT BRIDGE ASSEMBLIES	CBA-10	3
11,17	CATENERY FEEDING JUMPER	B-500C	2
11,17	IN-SPAN INSULATION ASSEMBLY	MCIA-2	2
18	CATENARY DEAD END ASSEMBLY	CDEA-5	1
GROUND WIRE ASSEMBLIES			
	GROUND WIRE ASSEMBLY	EXISTING	
MISCELLANEOUS & SWITCHING			
	FEEDER WIRE ASSEMBLIES	EXISTING	

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 371_BM

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION

REVISIONS

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-371_BM(new)

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-371_BM(new).DWG XX% DESIGN

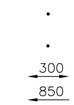
TRACK	4	6	8
WIRE NO.			
TAIL/ANCHOR HT.			
MESSENGER HT.			
CONTACT HT.			
SYSTEM HT. DEPTH			

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 371XA

BILL OF MATERIALS

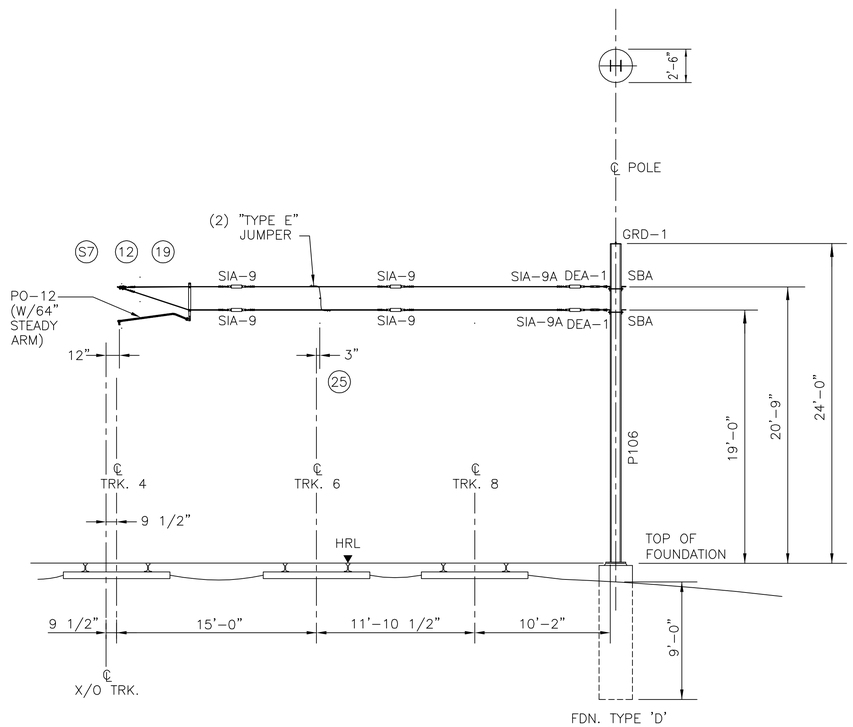
WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	TYPE "D"	EX.
STRUCTURAL STEELWORK & GUYS			
	POLE	P106	EX.
	DETAIL	SBA	EX.
SUPPORT & REGISTRATION ASSEMBLIES			
25	INSULATOR ASSEMBLY	S1A-9	2
IN SPAN ASSEMBLIES			
	POTENTIAL EQUALIZING JUMPER	TYPE "E"	2
GROUND WIRE ASSEMBLIES			
	GROUND WIRE ASSEMBLY	GRD-1	EX.
MISCELLANEOUS & SWITCHING			



WIND LOADS

RADIAL LOADS

LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)



ELEVATION

PULL OFF STRUCTURE 371XA
STATION 1079+30
LOOKING EAST

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.

SCALE: 3/16" = 1'-0"

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

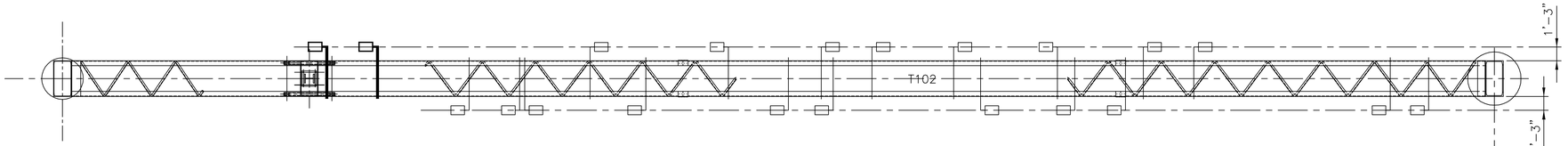
STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 371XA

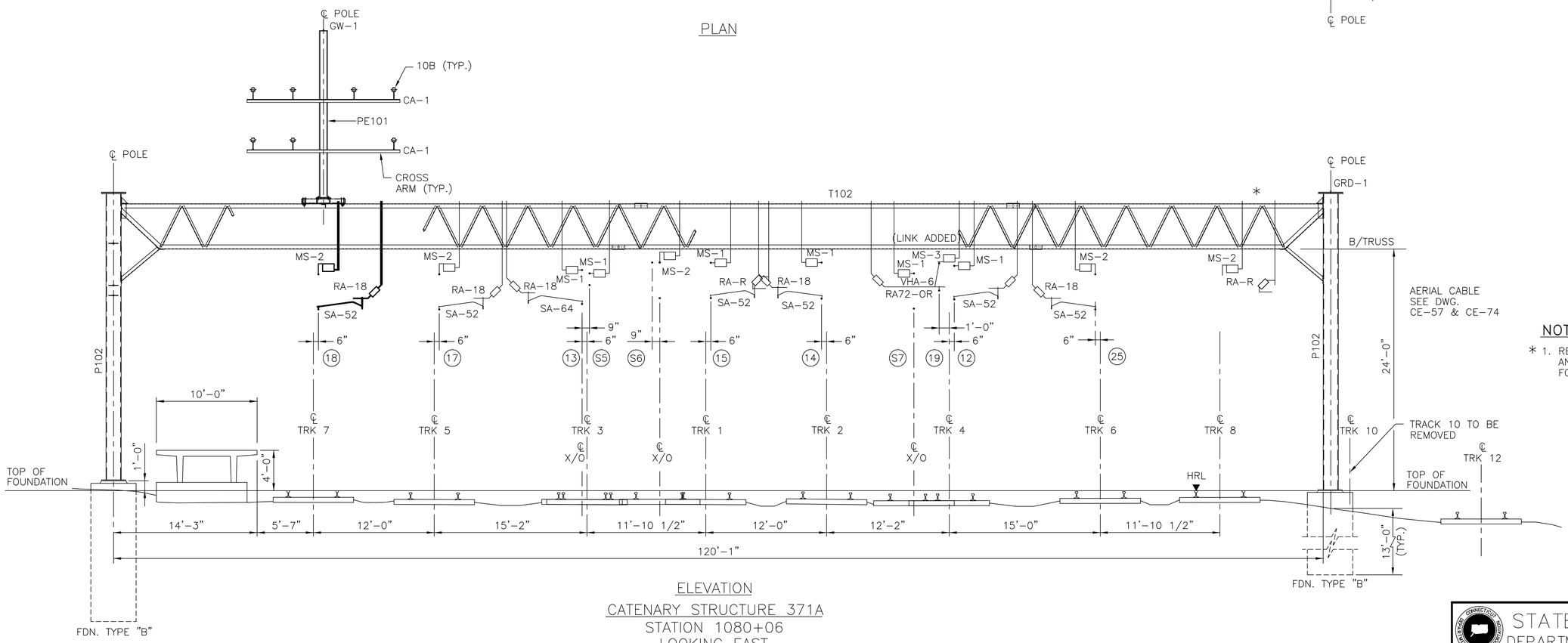
ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-371XA

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-371XA.DWG XX% DESIGN

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	



PLAN



ELEVATION

CATENARY STRUCTURE 371A
STATION 1080+06
LOOKING EAST

NOTE

* 1. REMOVE EXISTING DROP TUBES AND ASSOCIATED ASSEMBLIES FOR TURNOVER TO MN/CDOT.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

SCALE: 3/16" = 1'-0"

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

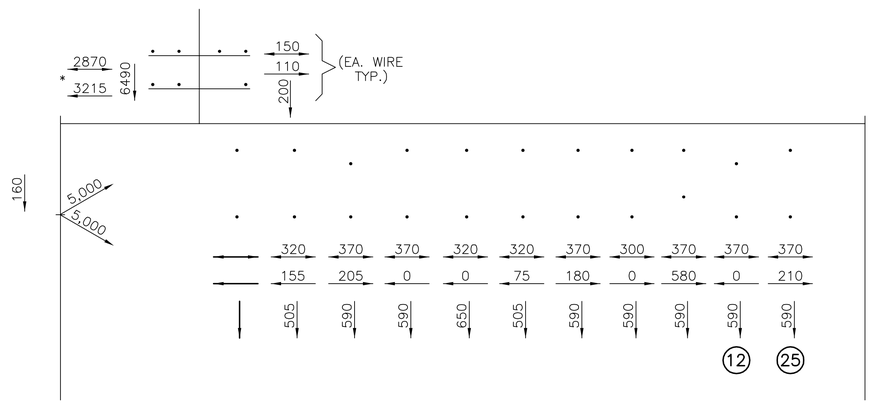
STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 371A

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-371A

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-371A.DWG XX% DESIGN

TRACK	7	5	3		1		2	4			6
WIRE NO.	18	17	13	S5	S6	15	14	S7	19	12	25
TAIL/ANCHOR HT.											
MESSENGER HT.	**21'–6"**	21'–6"	21'–11"	21'–7"	22'–8"	22'–7 3/4"	22'–5"	22'–8"	22'–7"	22'–4"	**21'–6"**
CONTACT HT.	**18'–0"**	18'–0"	18'–6 1/2"	20'–5"	19'–1 1/2"	19'–1 1/2"	18'–10"	19'–1"	19'–10 1/2"	19'–0"	**18'–0"**
SYSTEM HT. DEPTH	**3'–6"**	3'–6"	3'–4 1/2"	1'–2"	3'–7 1/2"	3'–6 1/4"	3'–7"	2'–7"	2'–8 1/2"	2'–4"	**3'–6"**



LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301–163	2014	

ERECTION DIAGRAM No. 371A_BM

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	TYPE "B"	EX.
	GUY ANCHOR	GA–1	EX.
STRUCTURAL STEELWORK & GUYS			
	TRUSS	T102	EX.
	POLE	P102	EX.
	CROSS ARM	CA–1	EX.
	GUY CONNECTION	GC–1	EX.
	POLE EXTENSION	PE101	EX.
	GUY ASSEMBLY	G–4	EX.
12,13,14,15, 17,19,25,43 S5,S6,S7	DROP TUBE ASSEMBLY	DT2–U–10	
12,13,14,15, 17,19,25,43	DROP TUBE ASSEMBLY	DT2–U–11	
SUPPORT & REGISTRATION ASSEMBLIES			
18	MESSENGER SUPPORT	MS–2	1
18	REGISTRATION ASSEMBLY	RA–18	1
18,25	STEADY ARM	SA–52	2
IN SPAN ASSEMBLIES			
18,25	CATENARY HANGERS	SEE TABULATION	
18,25	IN–SPAN JUMPER	TYPE "C"	2
GROUND WIRE ASSEMBLIES			
MISCELLANEOUS & SWITCHING			

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G–8.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 371A

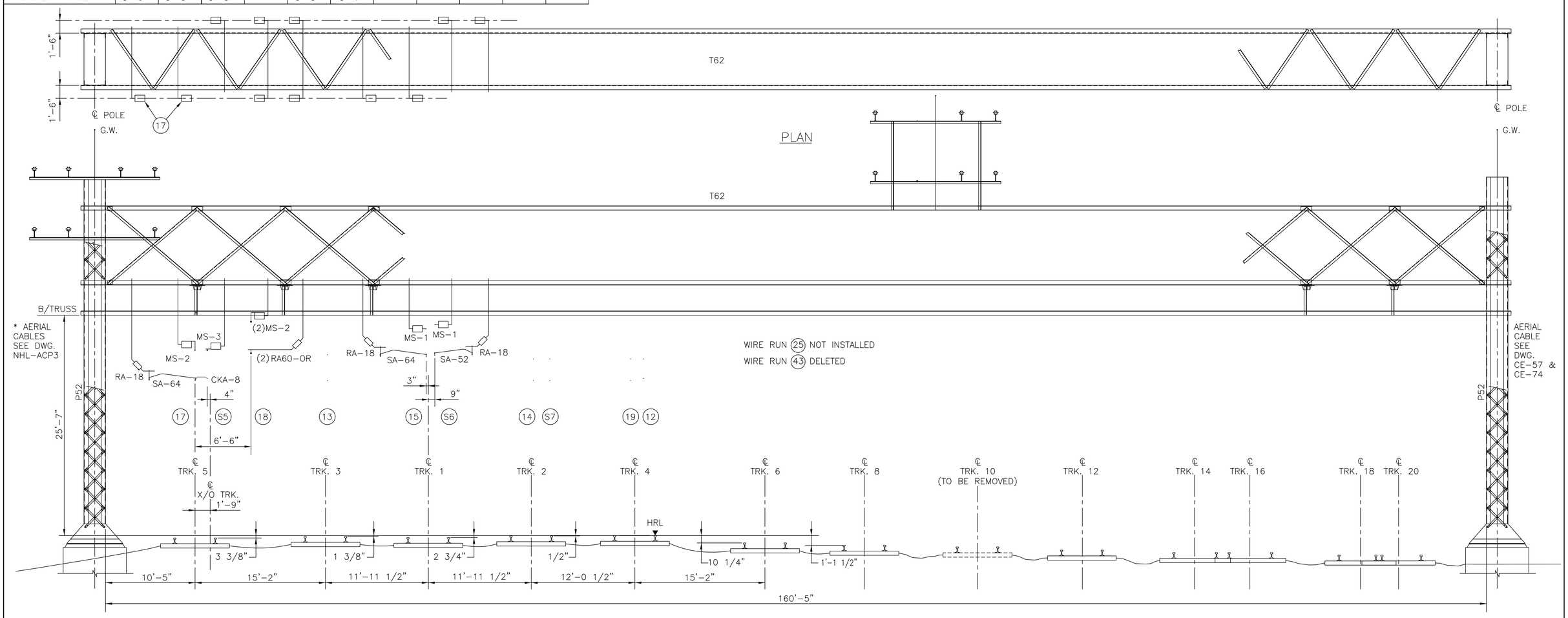
ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED–371A_BM

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME:ED–371A_BM.DWG XX% DESIGN

TRACK	5			3	1		2		4		6
WIRE NO.	17	S5	18	13	15	S6	14	S7	19	12	25
TAIL/ANCHOR HT.											
MESSENGER HT.	21'-6"	21'-6"	24'-10"	NSR	24'-0"	24'-6"	NSR	NSR	NSR	NSR	NSR
CONTACT HT.	18'-0"	18'-3"	21'-2"		20'-9"	20'-11"					
SYSTEM HT. DEPTH	3'-6"	3'-3"	3'-8"		3'-3"	3'-7"					

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

EXISTING 372
TO BE REMOVED



ELEVATION

EXISTING CATENARY STRUCTURE 372
STATION 1081+60
LOOKING EAST

SCALE: 3/16" = 1'-0"

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

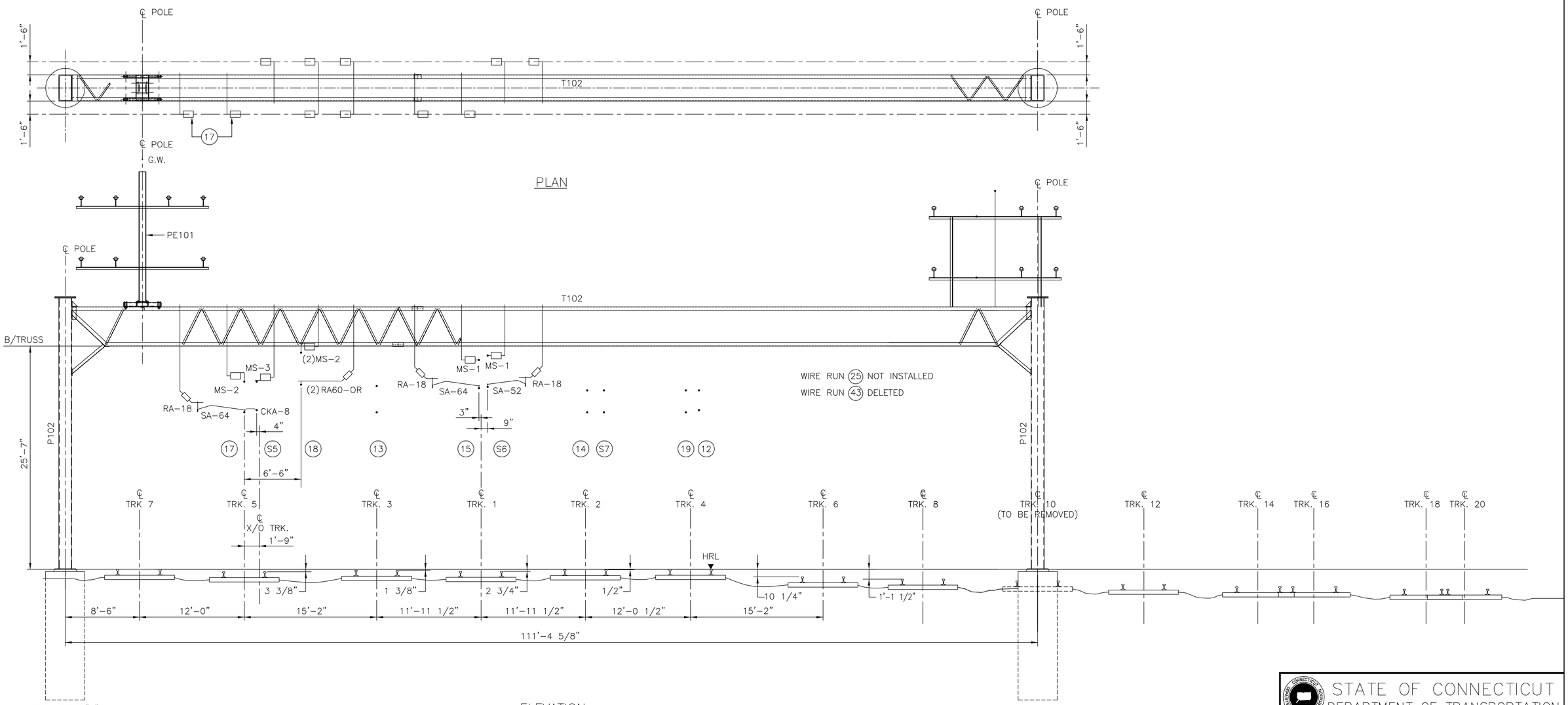
STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 372

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-372 (EX)

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-372 (EX.).DWG XX% DESIGN

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	



ELEVATION

NEW CATENARY STRUCTURE 372
STATION 1081+60
LOOKING EAST

SCALE: 3/16" = 1'-0"

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

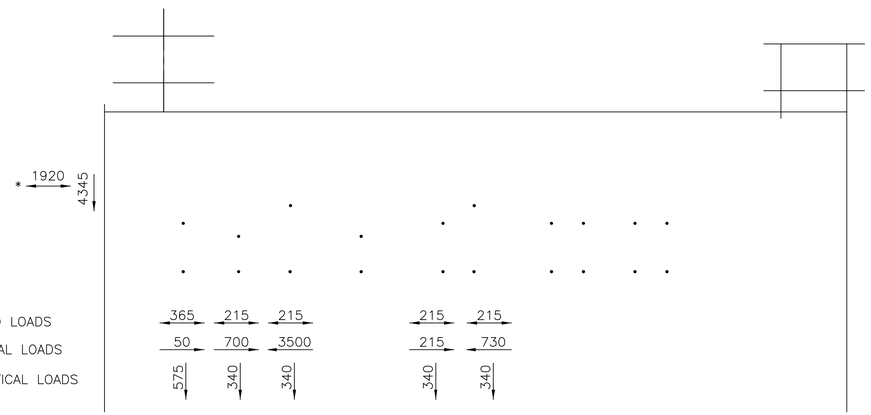
STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 372

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-372(new)

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-372(new).DWG XX% DESIGN

TRACK	7	5			3	1		2		4		6
WIRE NO.	XXXX	17	S5	18	13	15	S6	14	S7	19	12	25
TAIL/ANCHOR HT.												
MESSENGER HT.	XXXX	21'-6"	21'-6"	24'-10"	NSR	24'-0"	24'-6"	NSR	NSR	NSR	NSR	NSR
CONTACT HT.		18'-0"	18'-3"	21'-2"		20'-9"	20'-11"					
SYSTEM HT. DEPTH		3'-6"	3'-3"	3'-8"		3'-3"	3'-7"					



CATENARY LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 372_BM

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	FOUNDATION	EXISTING	
STRUCTURAL STEELWORK & GUYS			
	TRUSS T62	EXISTING	
	POLE P52	EXISTING	
	CROSS ARMS	EXISTING	
15(2),S6(2), 17(2),S5	DROP TUBE ASSEMBLY	DT-U-11A	7
18/18(2)	DROP TUBE ASSEMBLY	DT-2U-11A	2
SUPPORT & REGISTRATION ASSEMBLY			
15,S6	MESSENGER SUPPORT	MS-1	2
17,18(2)	MESSENGER SUPPORT	MS-2	3
S5	MESSENGER SUPPORT	MS-3	1
15,17,S6	REGISTRATION ASSEMBLY	RA-18	3
18(2)	REGISTRATION ASSEMBLY	RA-60 OR	2
S6	STEADY ARM	SA-52	1
15,17	STEADY ARM	SA-64	2
17/S5	CONTACT WIRE KNUCKLE	CKA-8	1
IN SPAN ASSEMBLY			
17/S5, 14/S7	FULL LOAD FEEDING JUMPER	TYPE "A"	2
S5/17,S6/15	CROSS CONTACT BRIDGE ASSEMBLY	CBA-10	3
S7/14 ALL	CATENARY HANGERS	SEE TABULATION	
GROUND WIRE ASSEMBLY			
	GROUND WIRE ASSEMBLY	EXISTING	
MISCELLANEOUS & SWITCHING			
	FEEDER WIRE ASSEMBLY	EXISTING	

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

SCALE: NONE

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 372

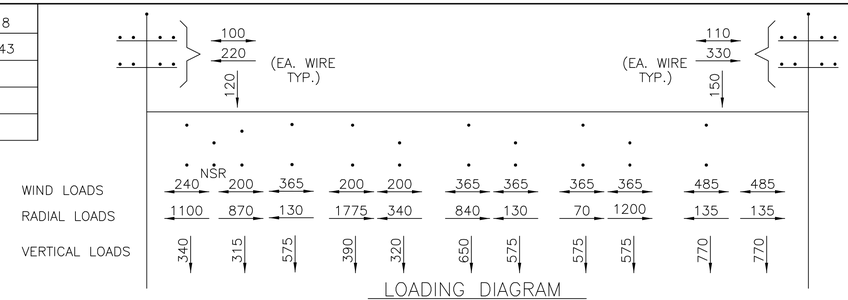
ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-372_BM(new)

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME:ED-372_BM(new).DWG XX% DESIGN

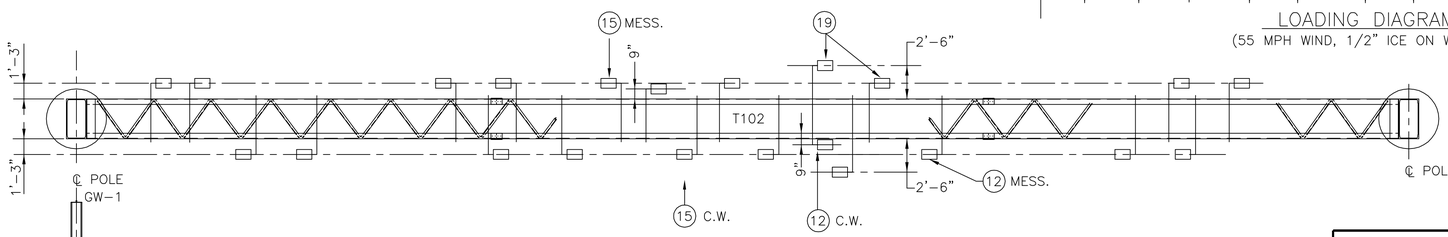
TRACK	5		3	1		2		4		6	8
WIRE NO.	S5	17	18	13	S6	15	S7	14	19	12	25	43
MESSENGER HT.	21'-6"	NSR	24'-5 1/2"	21'-6"	24'-5 1/2"	23'-9"	24'-0"	23'-6"	21'-11"	22'-6 1/2"		
CONTACT HT.	18'-1"		20'-2 1/2"	18'-0"	21'-0"	20'-7"	20'-4"	20'-0 1/2"	19'-0"	19'-8"		
SYSTEM HT. DEPTH	3'-5"		4'-3"	3'-6"	3'-5 1/2"	3'-2"	3'-8"	3'-5 1/2"	2'-11"	2'-10 1/2"		

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.

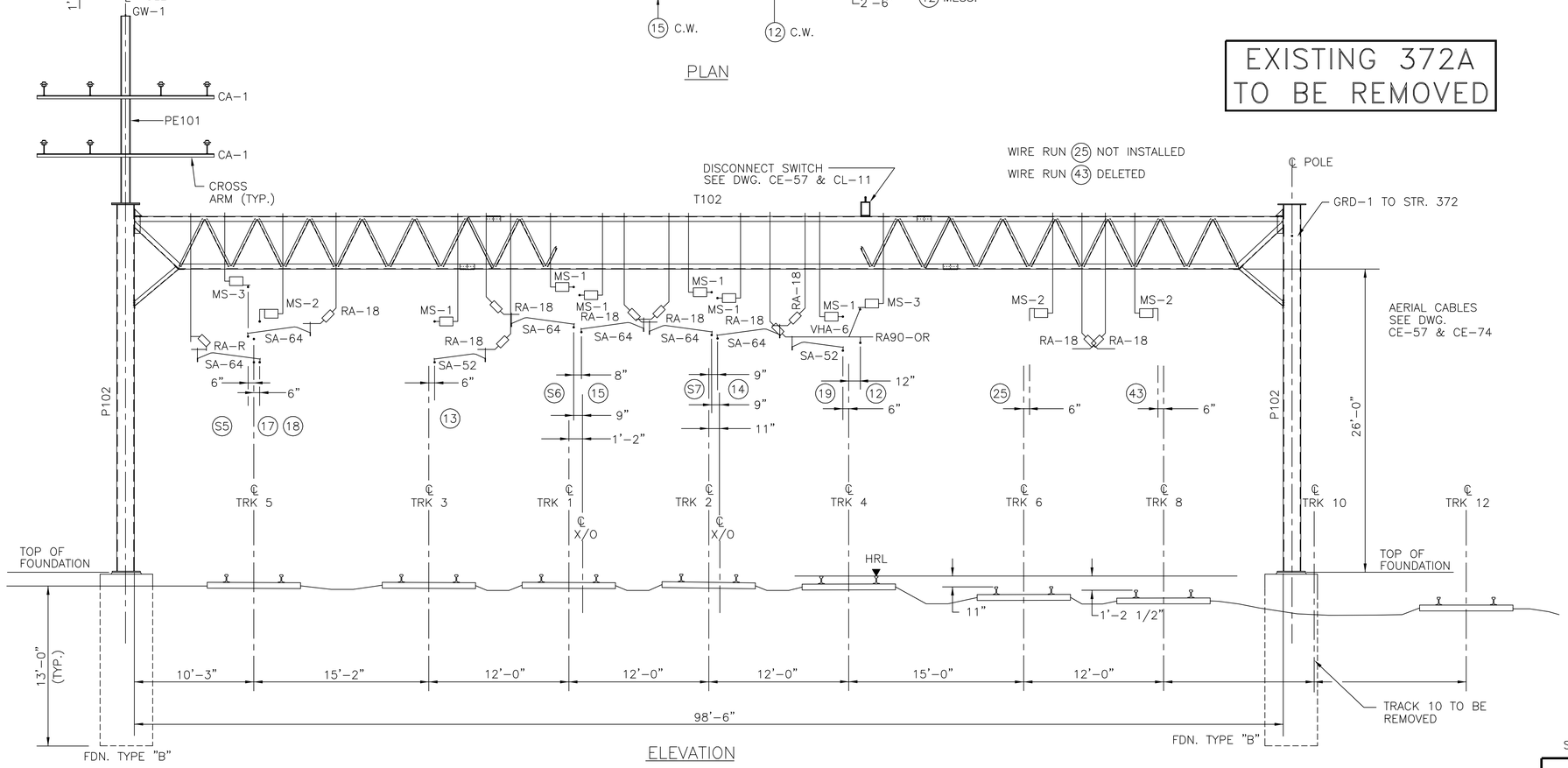


LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)



PLAN

EXISTING 372A
TO BE REMOVED



ELEVATION

EXISTING CATENARY STRUCTURE 372A
STATION 1082+06
LOKKING EAST

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

F.H.W.A. REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 372A

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	TYPE "B"	
STRUCTURAL STEELWORK & GUYS			
	TRUSS	T102	
	POLE	P102	
	POLE EXTENSION	PE101	
	CROSS ARMS	CA-1	
S5,18,13,12, 25,43	DROP TUBE ASSEMBLY	DT2-U-11	
S5,18,13, S6(2),15(2) S7(2),14(2) 19,25,43	DROP TUBE ASSEMBLY	DT2-U-13	
19/12	DROP TUBE ASSEMBLY	DT2-2U-13	
SUPPORT & REGISTRATION ASSEMBLIES			
13,14,15,19 S6,S7	MESSENGER SUPPORT	MS-1	
18,25,43	MESSENGER SUPPORT	MS-2	
S5,12	MESSENGER SUPPORT	MS-3	
13,14,15,18 19,25,43, S6,S7	REGISTRATION ASSEMBLY	RA-18	
S5	REGISTRATION ASSEMBLY	RA-R	
12	REGISTRATION ASSEMBLY	RA90-OR	
13,19	STEADY ARM	SA-52	
S5,S6,S7, 14,15,18	STEADY ARM	SA-64	
IN SPAN ASSEMBLIES			
12	VEE HANGER	VHA-6	
ALL	CATENARY HANGERS	SEE TABULATION	
S6	SECTION INSULATOR ASSEMBLY	HS-1	
17/18,14/S6	FULL LOAD FEEDING JUMPER	TYPE "A"	
12/19	POTENTIAL EQUALIZING JUMPER	TYPE "D"	
13	IN-SPAN JUMPER	TYPE "C"	
12,19	CATENARY FEEDING JUMPER	TYPE "B-500C"	
S6/15,S6/14, 18/17	CROSS CONTACT BRIDGE ASSEMBLY	CBA-10	
GROUND WIRE ASSEMBLIES			
	GROUND WIRE ASSEMBLY	GW-1	1
	GROUND WIRE ASSEMBLY	GRD-1	1
MISCELLANEOUS & SWITCHING			
	PIN INSULATOR ASSEMBLY	10B	7
	DISCONNECT SWITCH ASSEMBLY	DS-1	1

SCALE: 3/16" = 1'-0"

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 372A

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

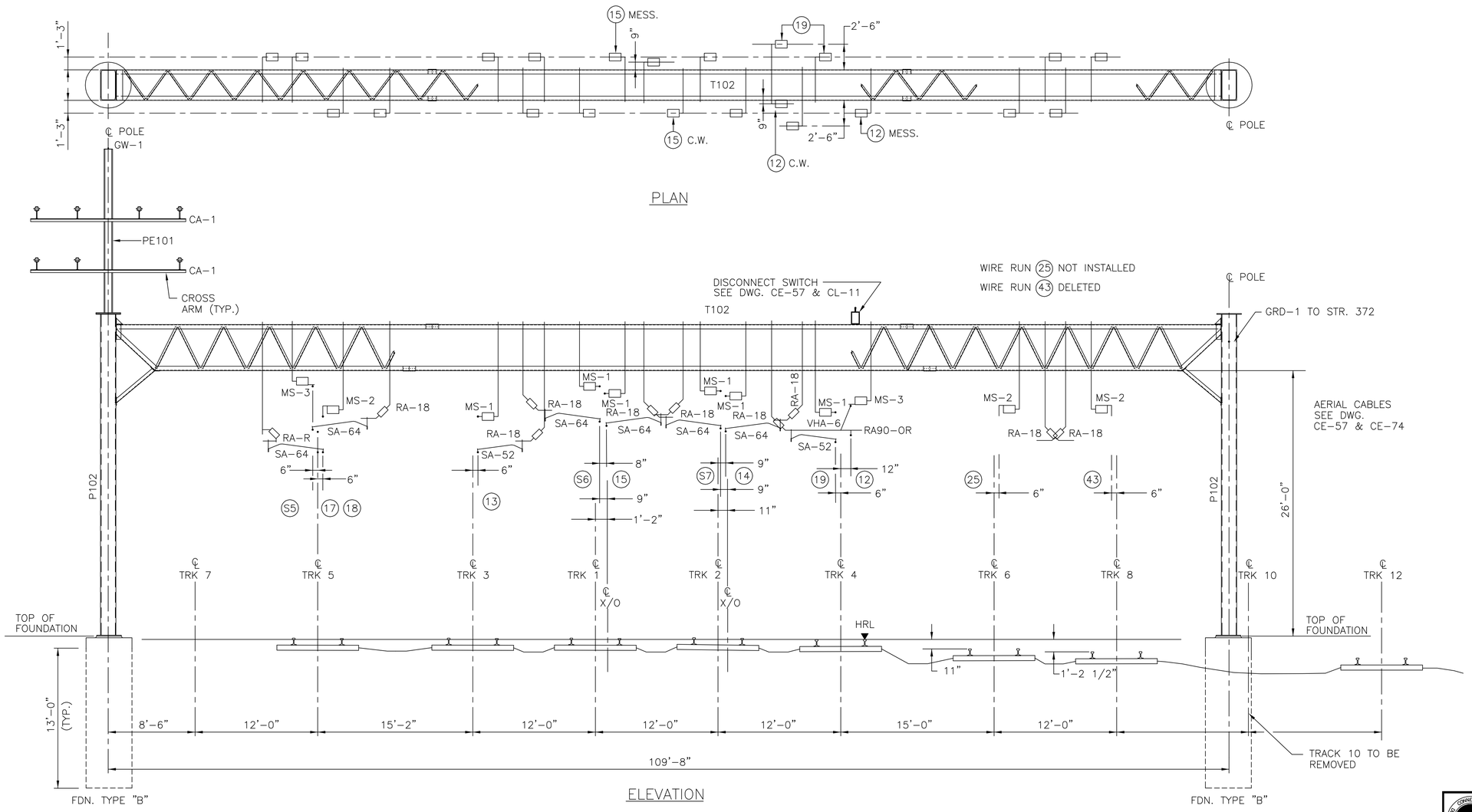
NO.	DATE	DESCRIPTION

REVISIONS

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-372A (EX.)

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME:ED-372A (EX.).DWG XX% DESIGN

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	



NEW CATENARY STRUCTURE 372A
STATION 1082+06
LOKKING EAST

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

SCALE: 3/16" = 1'-0"

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

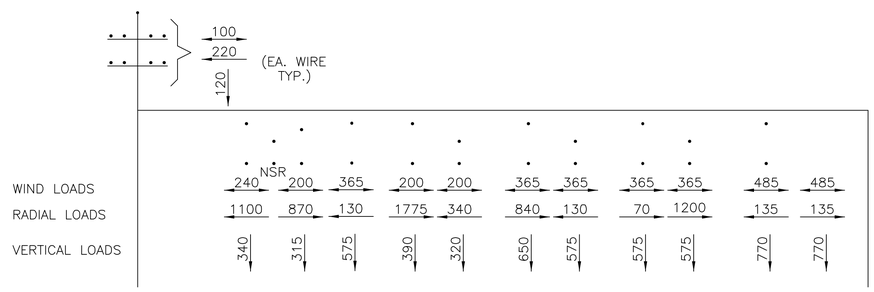
STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 372A

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-372A(new)

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME:ED-372A(new).DWG XX% DESIGN

TRACK	5			3	1		2		4		6	8
WIRE NO.	S5	17	18	13	S6	15	S7	14	19	12	25	43
MESSENGER HT.	21'-6"	NSR	24'-5 1/2"	21'-6"	24'-5 1/2"	23'-9"	24'-0"	23'-6"	21'-11"	22'-6 1/2"		
CONTACT HT.	18'-1"		20'-2 1/2"	18'-0"	21'-0"	20'-7"	20'-4"	20'-0 1/2"	19'-0"	19'-8"		
SYSTEM HT. DEPTH	3'-5"		4'-3"	3'-6"	3'-5 1/2"	3'-2"	3'-8"	3'-5 1/2"	2'-11"	2'-10 1/2"		



LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 372A_BM

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	TYPE "B"	2
STRUCTURAL STEELWORK & GUYS			
	TRUSS	T102	1
	POLE	P102	2
	POLE EXTENSION	PE101	1
	CROSS ARMS	CA-1	2
S5,18,13,12, 25,43	DROP TUBE ASSEMBLY	DT2-U-11	6
S5,18,13, S6(2),15(2) S7(2),14(2) 19,25,43	DROP TUBE ASSEMBLY	DT2-U-13	14
19/12	DROP TUBE ASSEMBLY	DT2-2U-13	1
SUPPORT & REGISTRATION ASSEMBLIES			
13,14,15,19 S6,S7	MESSENGER SUPPORT	MS-1	7
18,25,43	MESSENGER SUPPORT	MS-2	3
S5,12	MESSENGER SUPPORT	MS-3	1
13,14,15,18 19,25,43, S6,S7	REGISTRATION ASSEMBLY	RA-18	9
S5	REGISTRATION ASSEMBLY	RA-R	1
12	REGISTRATION ASSEMBLY	RA90-OR	1
13,19	STEADY ARM	SA-52	2
S5,S6,S7, 14,15,18	STEADY ARM	SA-64	6
IN SPAN ASSEMBLIES			
12	VEE HANGER	VHA-6	1
ALL	CATENARY HANGERS	SEE TABULATION	
S6	SECTION INSULATOR ASSEMBLY	HS-1	1
17/18,14/S6	FULL LOAD FEEDING JUMPER	TYPE "A"	2
12/19	POTENTIAL EQUALIZING JUMPER	TYPE "D"	1
13	IN-SPAN JUMPER	TYPE "C"	1
12,19	CATENARY FEEDING JUMPER	TYPE "B-500C"	2
S6/15,S6/14, 18/17	CROSS CONTACT BRIDGE ASSEMBLY	CBA-10	3
GROUND WIRE ASSEMBLIES			
	GROUND WIRE ASSEMBLY	GW-1	1
	GROUND WIRE ASSEMBLY	GRD-1	1
MISCELLANEOUS & SWITCHING			
	PIN INSULATOR ASSEMBLY	10B	7
	DISCONNECT SWITCH ASSEMBLY	DS-1	1

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

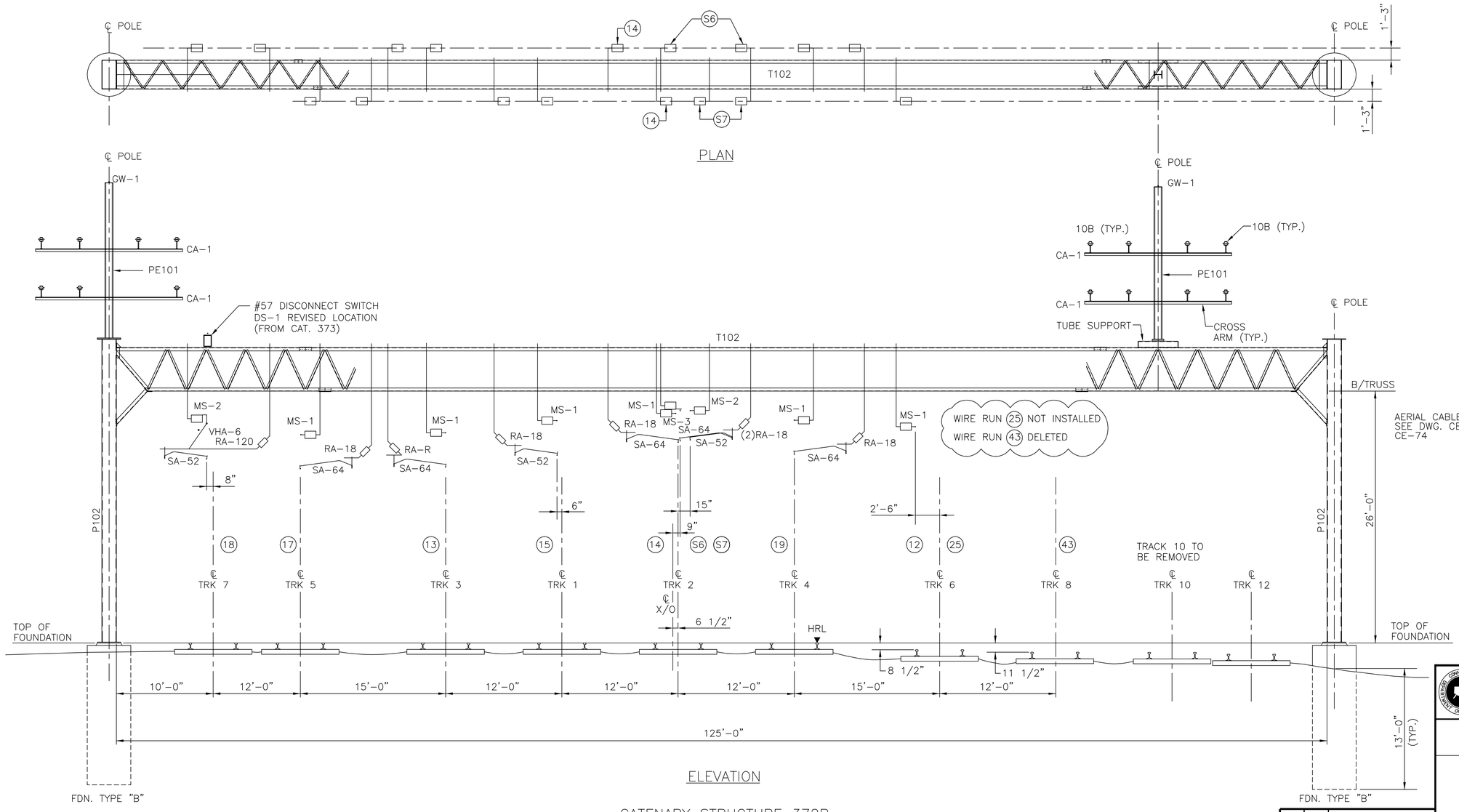
ERECTION DIAGRAM – 372A_BM

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-372A_BM(new)

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME:ED-372A_BM(new).DWG XX% DESIGN

TRACK	7	5	3	1	2			4		6	8
WIRE NO.	18	17	13	15	14	S6	S7	19	12	25	43
TAIL/ANC. HT									TAIL 22'-4"		
MESSENGER HT.	22'-8"	21'-6"	21'-8 1/2"	22'-11 1/2"	23'-8 1/2"	24'-0"	24'-0"	23'-0"		NSR	NSR
CONTACT HT.	19'-0"	18'-0"	18'-2"	19'-4 3/4"	20'-8 1/2"	20'-10 1/2"	21'-1"	19'-6"		NR	NR
SYSTEM HT. DEPTH	3'-8"	3'-6"	3'-6"	2'-6 3/4"	3'-0"	3'-1 1/2"	3'-1"	2'-6"			

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	



CATENARY STRUCTURE 372B
STATION 1083+46
LOOKING EAST

SCALE: 3/16" = 1'-0"

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
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1-(860)-529-8882

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

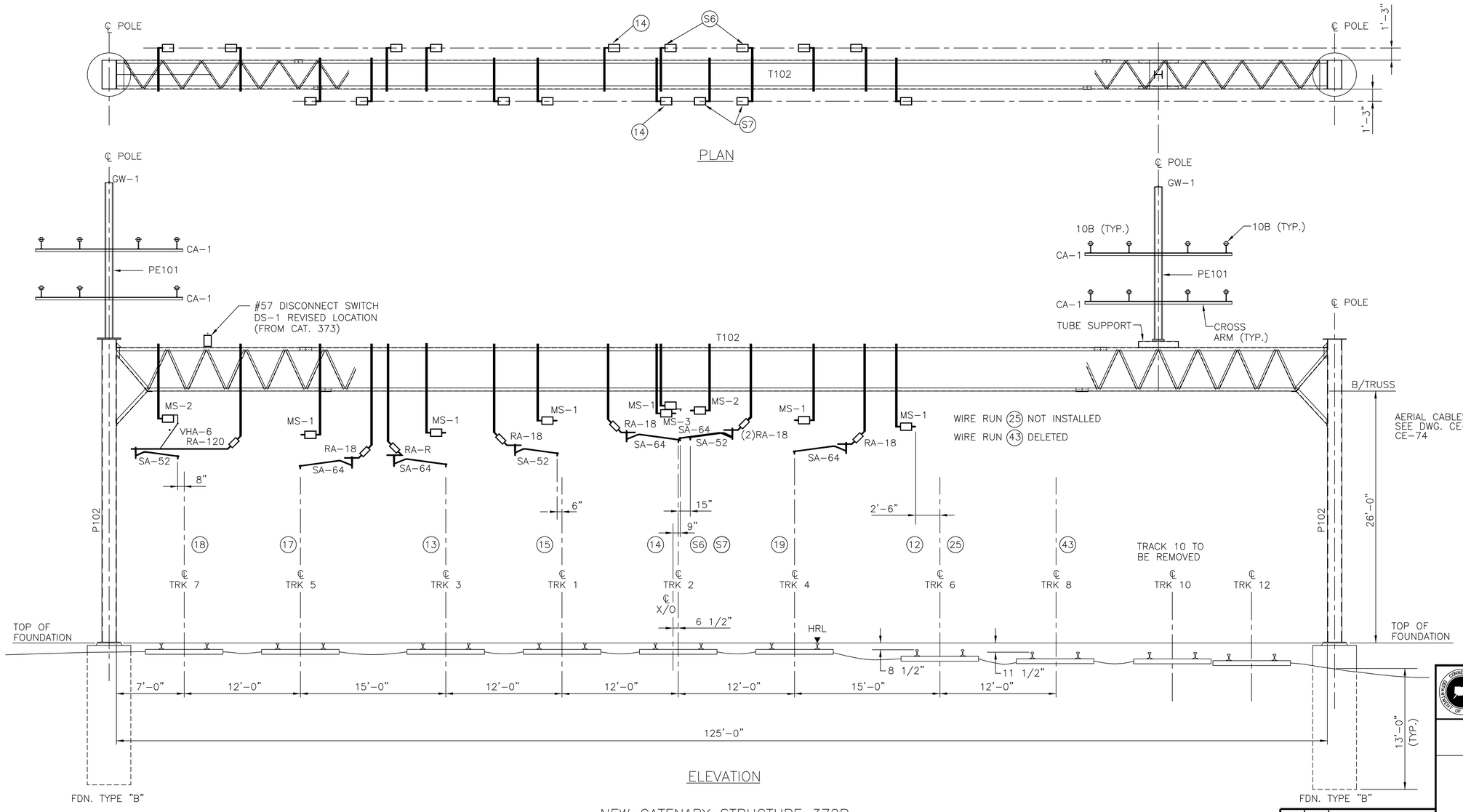
ERECTION DIAGRAM – 372B

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-372B (EX.)

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-372B (EX.).DWG XX% DESIGN

TRACK	7	5	3	1	2			4		6	8
WIRE NO.	18	17	13	15	14	S6	S7	19	12	25	43
TAIL/ANC. HT									TAIL 22'-4"		
MESSENGER HT.	22'-8"	21'-6"	21'-8 1/2"	22'-11 1/2"	23'-8 1/2"	24'-0"	24'-0"	23'-0"		NSR	NSR
CONTACT HT.	19'-0"	18'-0"	18'-2"	19'-4 3/4"	20'-8 1/2"	20'-10 1/2"	21'-1"	19'-6"		NR	NR
SYSTEM HT. DEPTH	3'-8"	3'-6"	3'-6"	2'-6 3/4"	3'-0"	3'-1 1/2"	3'-1"	2'-6"			

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	



NEW CATENARY STRUCTURE 372B
STATION 1083+46
LOOKING EAST

SCALE: 3/16" = 1'-0"

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 372B

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-372B(new)

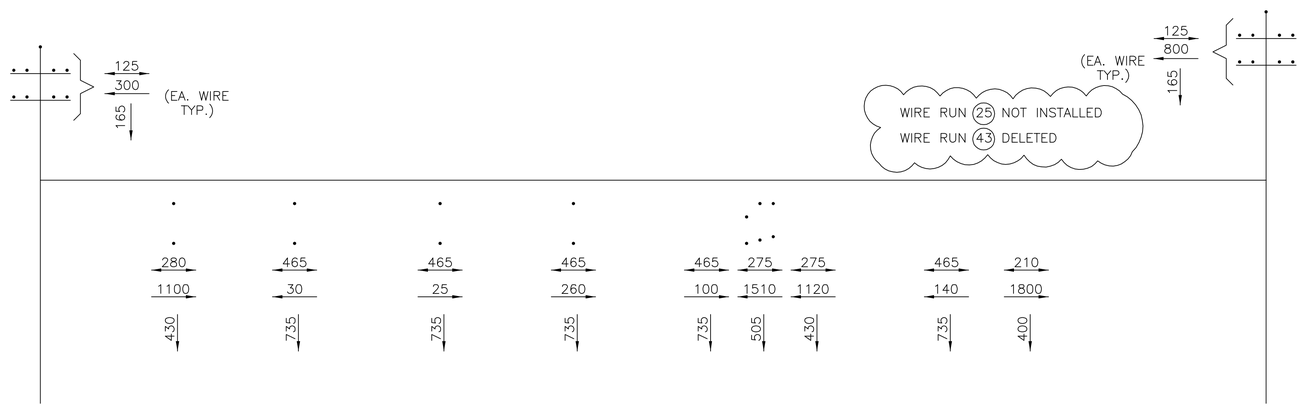
PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-372B(new).DWG XX% DESIGN

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 372B_BM

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	TYPE "B"	2
STRUCTURAL STEELWORK & GUYS			
	TRUSS	T102	1
	POLE	P102	2
	CROSS ARMS	CA-1	4
	POLE EXTENSION	PE101	2
13,15,17, 18,19,S6,S7	DROP TUBE SUPPORT	DT2-U-11	7
12,13,14(2), 15,17,18,19	DROP TUBE SUPPORT	DT2-U-13	8
S6/S7	DROP TUBE SUPPORT	DT2-2U-13	1
SUPPORT & REGISTRATION ASSEMBLY			
12,13,14,15, 17,19	MESSENGER SUPPORT	MS-1	6
S7,18	MESSENGER SUPPORT	MS-2	2
S6	MESSENGER SUPPORT	MS-3	1
17,14,15,19, S6,S7	REGISTRATION ASSEMBLY	RA-18	6
18	REGISTRATION ASSEMBLY	RA-120	1
13	REGISTRATION ASSEMBLY	RA-R	1
18,15,S7	STEADY ARM	SA-52	3
13,14,17, 19,S6	STEADY ARM	SA-64	5
IN SPAN ASSEMBLY			
18	VEE HANGER	VHA-6	1
S7/14	CROSS CONTACT BRIDGE ASSEMBLY	CBA-10	2
17,13,15,19	IN-SPAN JUMPER	TYPE "C"	4
ALL	CATENARY HANGERS	SEE TABULATION	
18	SECTION INSULATOR ASSEMBLY	HS-1	1
18(2)	CATENARY FEEDING JUMPER	"TYPE B-500C"	2
GROUND WIRE ASSEMBLY			
	GROUND WIRE ASSEMBLIES	GW-1	2
MISCELLANEOUS & SWITCHING			
	PIN INSULATOR ASSEMBLIES	10B	15
	DISCONNECT SWITCH	DS-1	1



LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.

SCALE: NONE

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
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1-(860)-529-8882

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

BILL OF MATERIAL & LOADING DIAGRAM FOR ERECTION DIAGRAM – 372B

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-372B_BM(new)

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-372B_BM(new).DWG XX% DESIGN

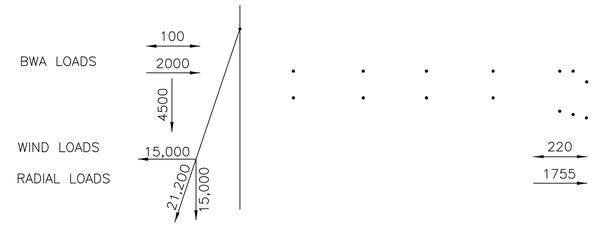
TRACK	7
WIRE NO.	S5
TAIL/ANCHOR HT.	BWA 22'-7"
MESSENGER HT.	BWA –
CONTACT HT.	BWA –
SYSTEM HT. DEPTH	BWA –

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

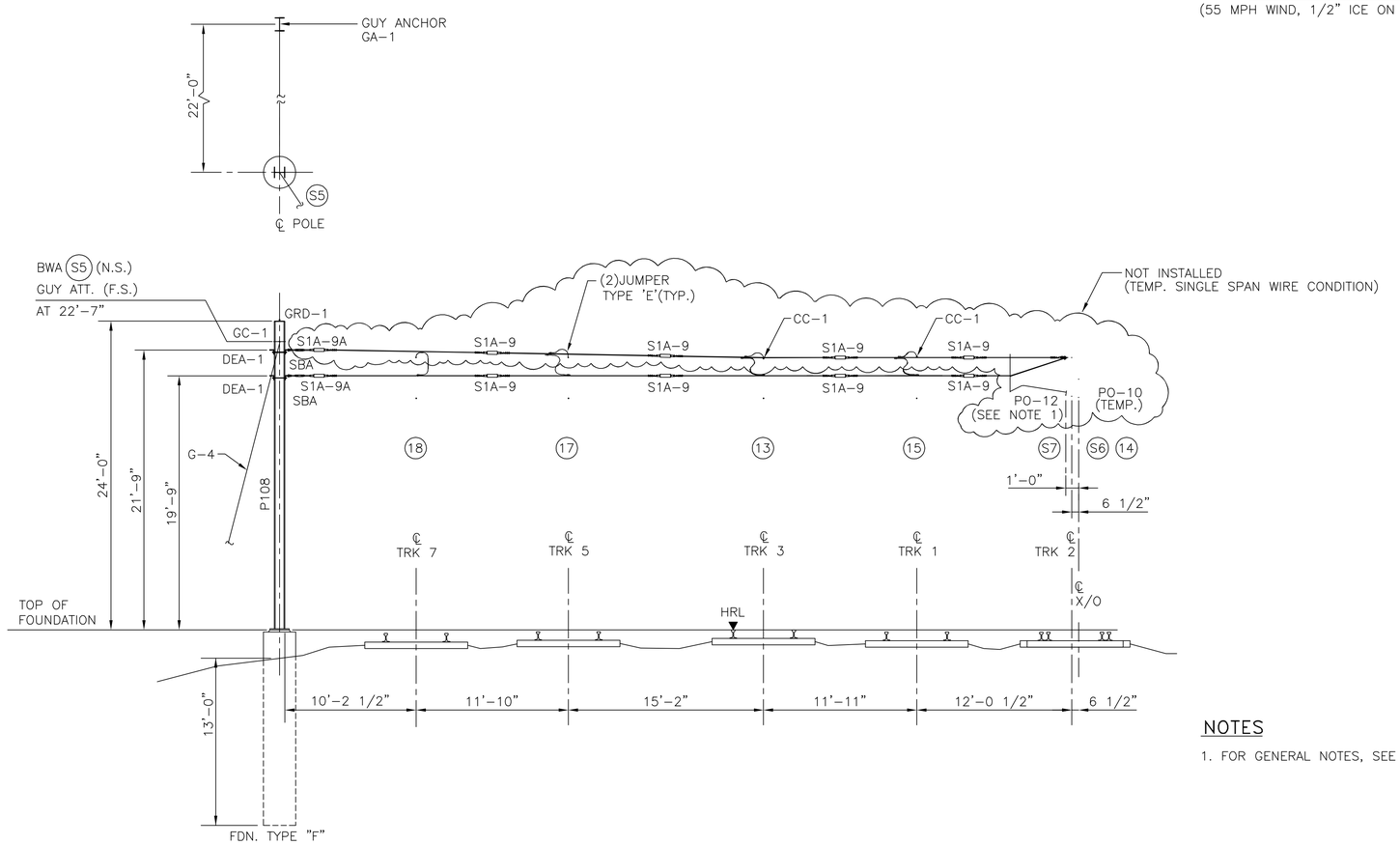
ERECTION DIAGRAM No. 372XA

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	TYPE "F"	1
	GUY ANCHOR	GA-1	1
STRUCTURAL STEELWORK & GUYS			
	POLE	P108	1
	BALANCE WEIGHT ASSEMBLY	BWA	1
	GUY ASSEMBLY	G-4	1
	DETAIL	GC-1	1
	DETAIL	SBA	2
SUPPORT & REGISTRATION ASSEMBLIES			
S7	PULL-OFF ASSEMBLY	PO-12 (SEE NOTE 1)	0
13,15	PULL-OFF ASSEMBLY	CC-1	2
13,15,17,S7	INSULATOR ASSEMBLY	S1A-9	4
18	INSULATOR ASSEMBLY	S1A-9A	1
	DEAD END ASSEMBLY	DEA-1	1
13,15,17,18	POTENTIAL EQUALIZING JUMPER	TYPE 'E'	4
S7	PULL-OFF ASSEMBLY (TEMPORARY)	PO-10	1
IN SPAN ASSEMBLIES			
S7 (S7/14)	CROSS CONTACT BRIDGE ASSEMBLY	CBA-10	1
GROUND WIRE ASSEMBLIES			
	G.W. ASS'YS	GRD-1	1
MISCELLANEOUS & SWITCHING			



LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)



ELEVATION

PULL OFF STRUCTURE 372XA

STATION 1083+91
LOOKING EAST

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.

SCALE: 3/16" = 1'-0"

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

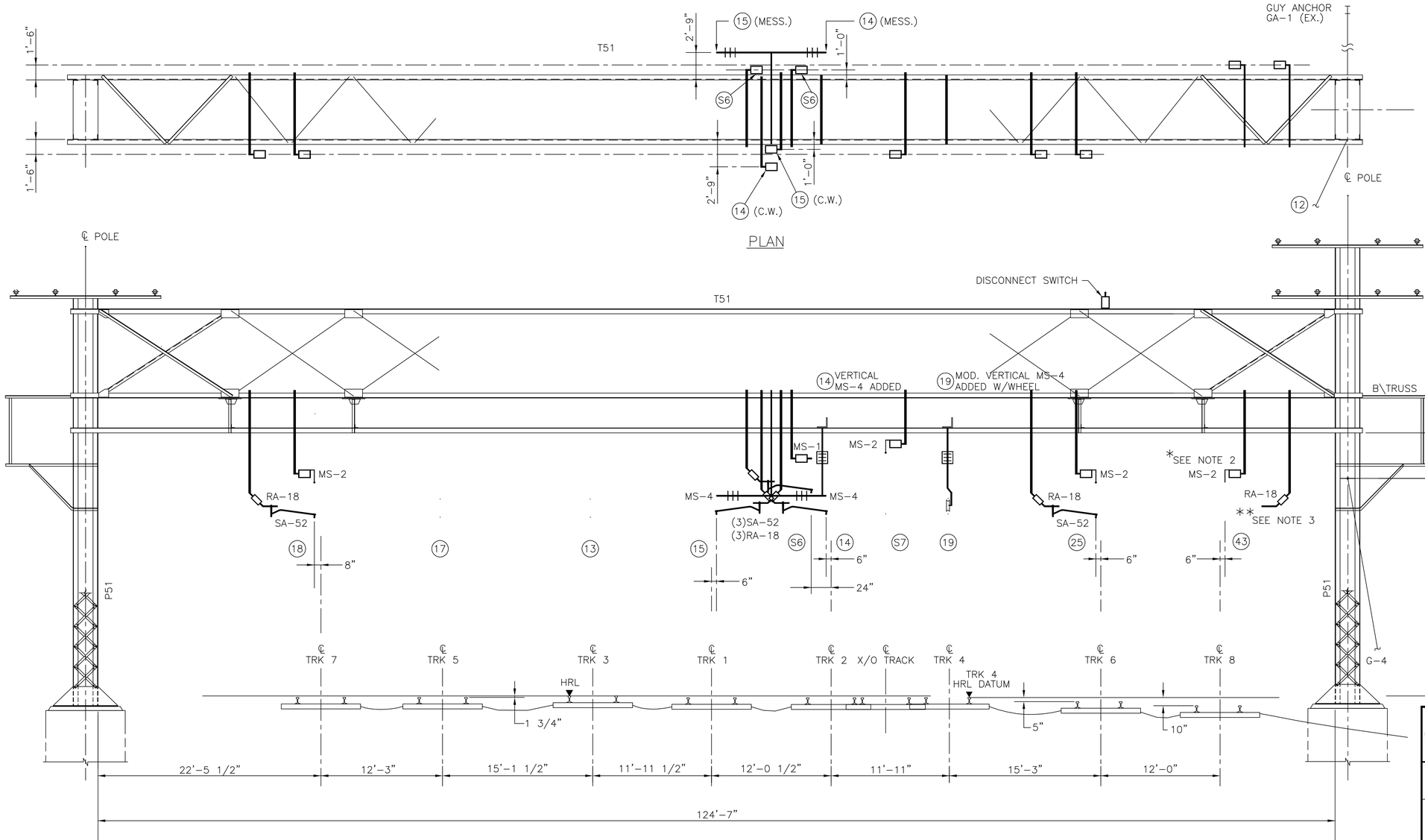
ERECTION DIAGRAM – 372XA

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-372XA

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-372XA.DWG XX% DESIGN

TRACK	7	5	3	1	2			4	6	8	
WIRE NO.	18	17	13	15	S6	14	S7	19	25		12
TAIL/ANC. HT.											BWA 21'-11"
MESSENGER HT.	21'-6"	NSR	NSR	NS	23'-11"	NS	24'-6"	NSR	**21'-6"**		
CONTACT HT.	18'-0"	NR	NR		20'-6"		NR	NR	**18'-0"**		
SYSTEM HT. DEPTH	3'-6"				3'-5"				**3'-6"**		

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	



ELEVATION

CATENARY STRUCTURE 373

STATION 1084+60
LOOKING EAST

SCALE: 3/16" = 1'-0"

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS
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500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION
	1/19 06	AS BUILT

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

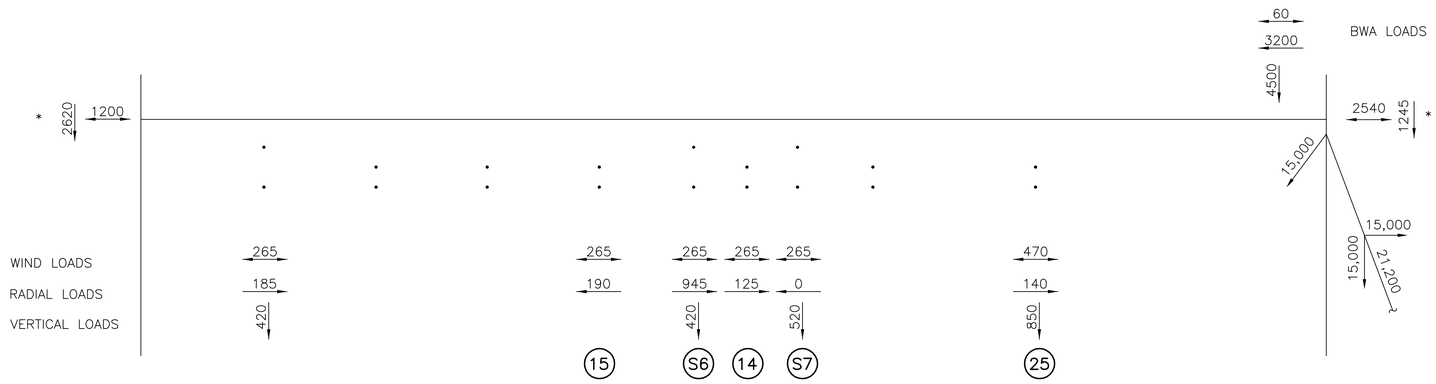
STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 373

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-373

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME:ED-373.DWG XX% DESIGN

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	



CATENARY LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)

ERECTION DIAGRAM No. 373_BM

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	EXISTING	
	GUY ANCHOR	GA-1	EX.
STRUCTURAL STEELWORK & GUYS			
	TRUSS T51	EXISTING	
	POLE P51	EXISTING	
	CROSS ARMS	EXISTING	
	BALANCED WEIGHT	BWA	EX.
	GUY ASSEMBLY	G-4	EX.
25 (SEE NOTE 3)	DROP TUBE ASSEMBLY	DT13M	1
SUPPORT & REGISTRATION ASSEMBLY			
25 (SEE NOTE 3)	REGISTRATION ASSEMBLY	RA-18	1
25	STEADY ARM	SA-52	1
IN SPAN ASSEMBLY			
25	CATENARY HANGERS	SEE TABULATION	
25	IN-SPAN JUMPER	TYPE "C"	1
GROUND WIRE ASSEMBLY			
MISCELLANEOUS & SWITCHING			

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.
* 2. REMOVE DROP TUBES AND ASSOCIATED ASSEMBLIES AND TURN OVER TO MN/CDOT.
** 3. RELOCATE THIS DROP TUBE AND REGISTRATION ASSEMBLY TO TRACK 6 AND REPLACE INSULATOR.

SCALE: NONE

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION
	1/20 06	AS BUILT

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

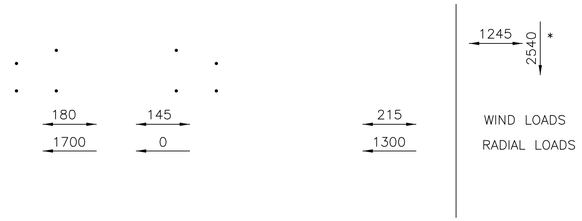
STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 373

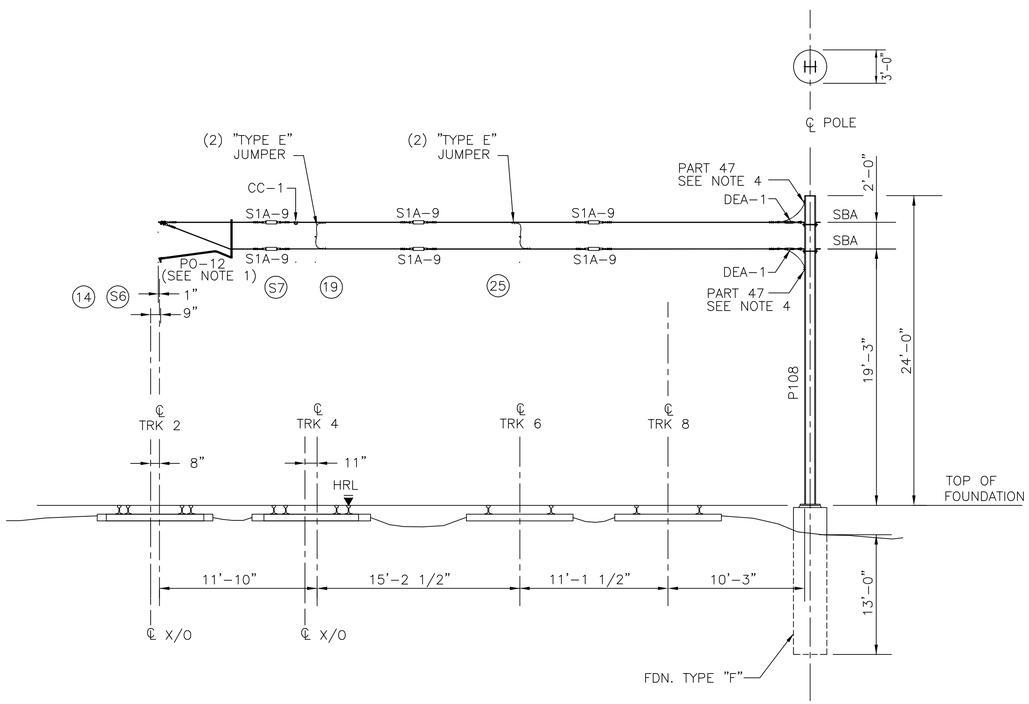
ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-373_BM

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-373_BM.dwg XX% DESIGN

TRACK	2	4	6	8
CABLE No.				
MESSENGER HT.				
CONTACT HT.				
SYSTEM HT. DEPTH				



LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)



ELEVATION

PULL OFF STRUCTURE 373XA

STATION 1085+31
LOOKING EAST

NOTES

1. ADD PART #17, 58 & 60
2. FOR GENERAL NOTES, SEE DRAWING G-8.
3. REMOVE JUMPERS BETWEEN TRACK 6 AND TRACK 8 OVER SIA-9's WHEN WIRE RUN NO. 25 IS INSTALLED.
4. INSTALL PART NO. 47 TO SPAN WIRES AT COLUMN TO GROUND SPAN WIRES.

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 373XA

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	TYPE "F"	EX.
STRUCTURAL STEELWORK & GUYS			
	POLE	P108	EX.
	DETAIL	SBA	EX.
SUPPORT & REGISTRATION ASSEMBLIES			
S6	PULL-OFF ASSEMBLY	PO-12	1
S7	PULL-OFF ASSEMBLY	CC-1	1
	DEAD END ASSEMBLY	DEA-1	EX.
	SPAN WIRE INSULATION ASSEMBLY	S1A-9	2
	SPAN WIRE INSULATION ASSEMBLY	S1A-9A	0
19, 25	POTENTIAL EQUALIZING JUMPER	TYPE "E"	2
IN SPAN ASSEMBLIES			
GROUND WIRE ASSEMBLIES			
	G.W. ASSEMBLY	GRD-1	1
MISCELLANEOUS & SWITCHING			
	REMOVE GROUND TAPS AT COLUMN (SEE NOTE 4)	PART 42	2

SCALE: 3/16" = 1'-0"

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
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ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION
	1/20/06	AS BUILT

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

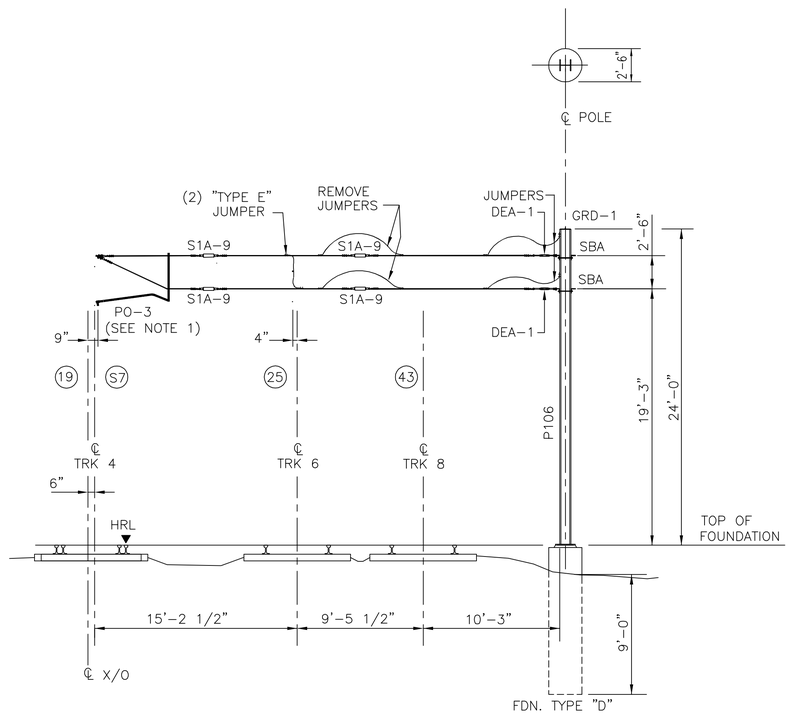
ERECTION DIAGRAM – 373XA

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-373XA

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-373XA.dwg XX% DESIGN

TRACK	4	6	8
CABLE NO.			
MESSENGER HT.			
CONTACT HT.			
SYSTEM HT. DEPTH			

LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)



ELEVATION

PULL OFF STRUCTURE 373XXA
STATION 1085+51
LOOKING EAST

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 373XXA

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	TYPE "D"	EX.
STRUCTURAL STEELWORK & GUYS			
	POLE	P106	EX.
	DETAIL	SBA	EX.
SUPPORT & REGISTRATION ASSEMBLIES			
19	PULL-OFF ASSEMBLY (SEE NOTE # 1)	PO-3	1
	SPAN WIRE INSULATION ASSEMBLY	S1A-9	EX.
25,43	POTENTIAL EQUALIZING JUMPER	TYPE-"E"	2
IN SPAN ASSEMBLIES			
GROUND WIRE ASSEMBLIES			
	GROUND WIRE ASSEMBLY	GRD-1	1
MISCELLANEOUS & SWITCHING			

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.

SCALE: 3/16" = 1'-0"

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION
	1/20/06	AS BUILT

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

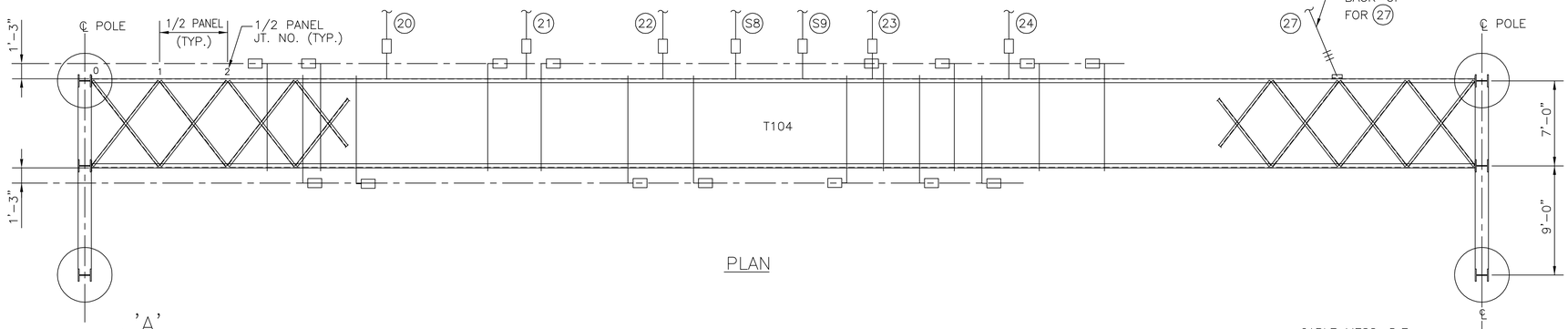
ERECTION DIAGRAM – 373XXA

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-373XXA

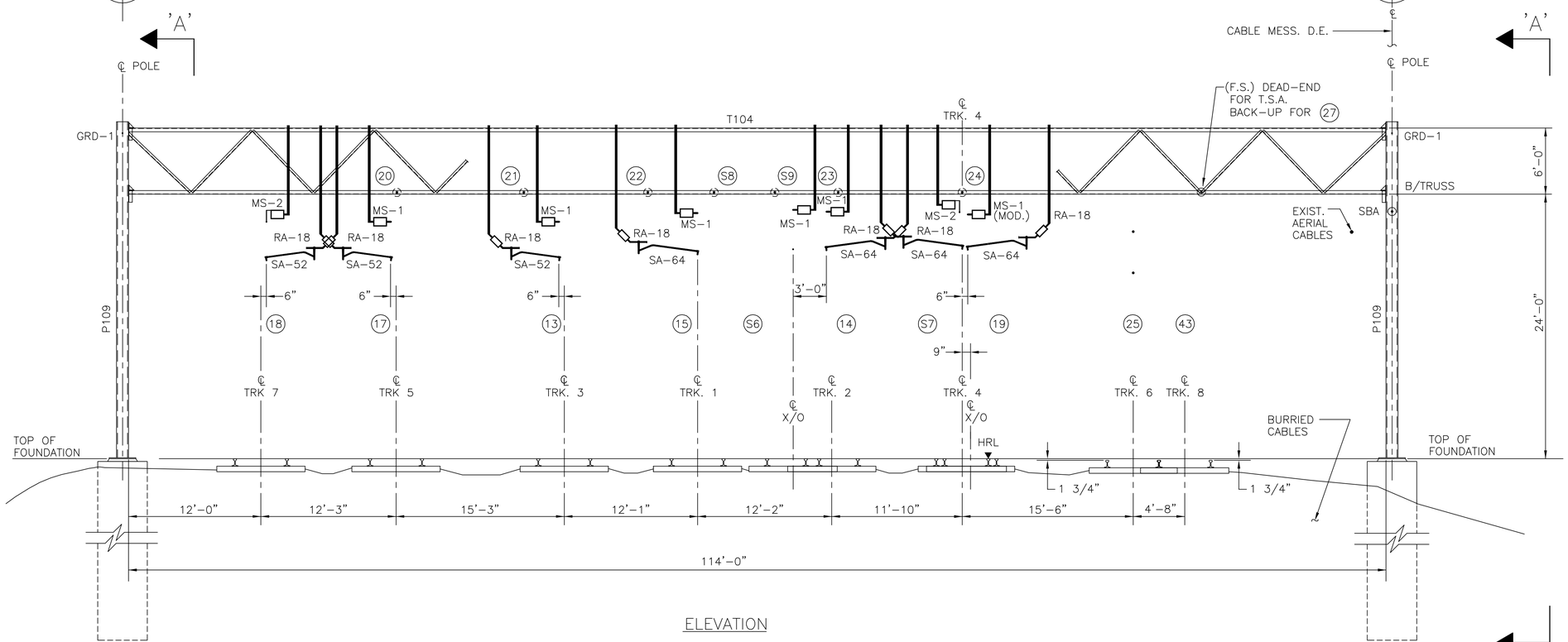
PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-373XXA.dwg XX% DESIGN

TRACK	7	5		3		1			2				4			6	8
WIRE NO.	18	20	17	21	13	22	15	S8	S9	S6	14	23	S7	24	19	25	43
TAIL/ANCHOR HT.		FA 24'-2"		FA 24'-2"		FA 24'-2"		FA 24'-2"	FA 24'-2"			FA 24'-2"		FA 24'-2"			
MESSENGER HT.	21'-6"		21'-6"		21'-6"		22'-2 1/2"			22'-7"	22'-5"		22'-4 1/2"		22'-2"	NSR	NSR
CONTACT HT.	18'-0"		18'-0"		18'-0"		18'-6 1/2"			19'-0"	18'-11"		19'-0 1/2"		18'-11 1/2"		
SYSTEM HT. DEPTH	3'-6"		3'-6"		3'-6"		3'-4"				3'-6"		3'-4"		3'-2 1/2"		

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

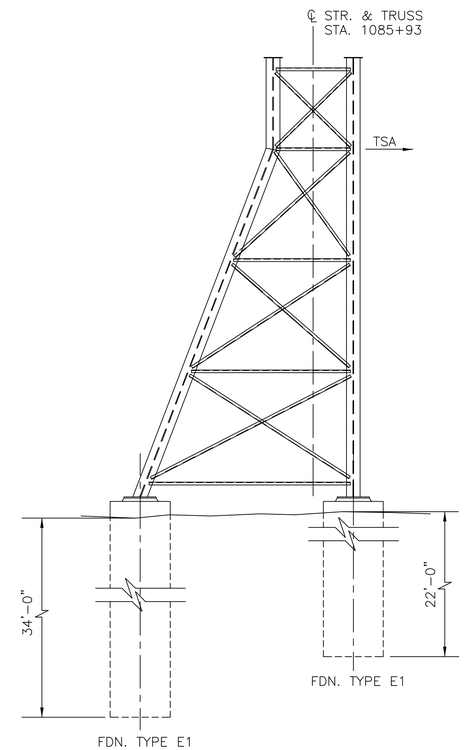


PLAN



ELEVATION

CATENARY STRUCTURE 373A
STATION 1085+93
LOOKING EAST



SECTION 'A-A'

SCALE: 3/16" = 1'-0"

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION
	1/20 06	AS BUILT

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 373A

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-373A

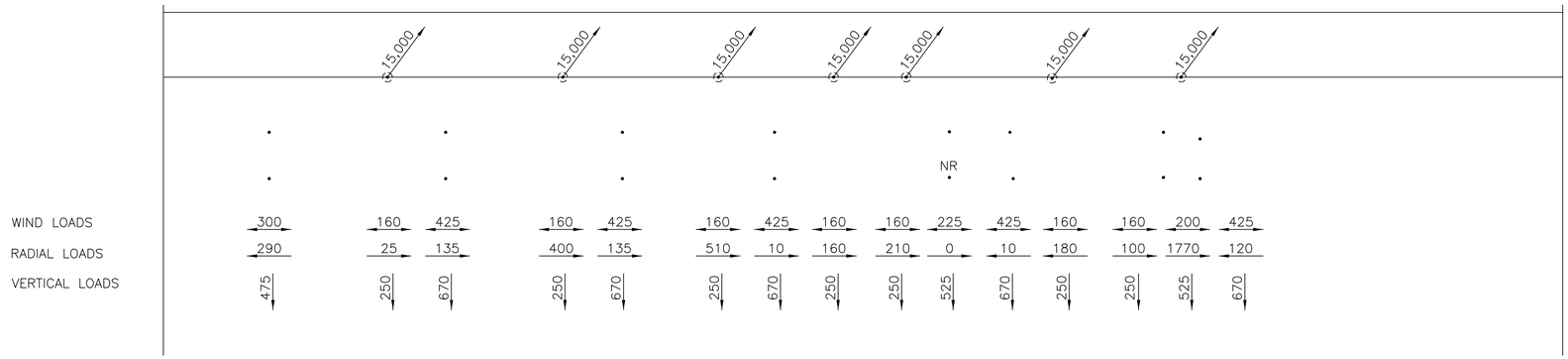
PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME:ED-373A.DWG XX% DESIGN

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 373A_BM

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION TYPE "E1"	EXISTING	
STRUCTURAL STEELWORK & GUYS			
	TRUSS T104	EXISTING	
	POLE P109	EXISTING	
SUPPORT & REGISTRATION ASSEMBLY			
IN SPAN ASSEMBLY			
GROUND WIRE ASSEMBLY			
MISCELLANEOUS & SWITCHING			



LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.

SCALE: NONE

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION
	1/23 06	AS BUILT

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

BILL OF MATERIALS & LOADING DIAGRAM FOR ERECTION DIAGRAM – 373A

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-373A_BM

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-373A_BM.DWG XX% DESIGN

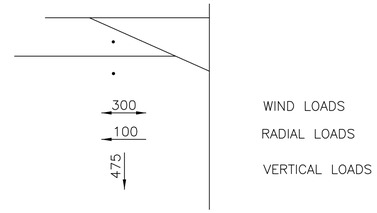
TRACK	6
WIRE NO.	25
TAIL\ANCHOR HT.	
MESSENGER HT.	21'–0"
CONTACT HT.	18'–0"
SYSTEM HT. DEPTH	3'–0"

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301–163	2014	

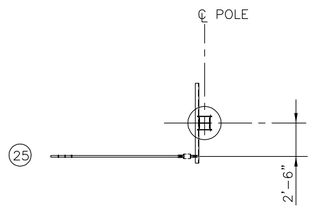
ERECTION DIAGRAM No. 373B

BILL OF MATERIALS

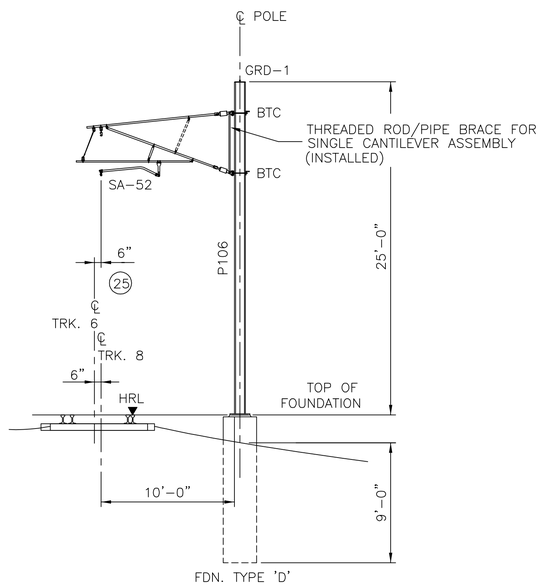
WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	TYPE 'D'	EX.
STRUCTURAL STEELWORK & GUYS			
	POLE	P106	EX.
	DETAIL	BTC	EX.
SUPPORT & REGISTRATION ASSEMBLY			
25	PULL–OFF SINGLE TRACK CANTILEVER	CAN–3	1
IN SPAN ASSEMBLY			
GROUND WIRE ASSEMBLY			
	GROUND WIRE ASSEMBLY	GRD–1	EX.
MISCELLANEOUS & SWITCHING			



CATENARY LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)



PLAN



ELEVATION

CANTILEVER STRUCTURE 373B
STATION 1086+43
LOOKING EAST

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G–8.

SCALE: 3/16" = 1'–0"

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URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION
	1/23 06	AS BUILT

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

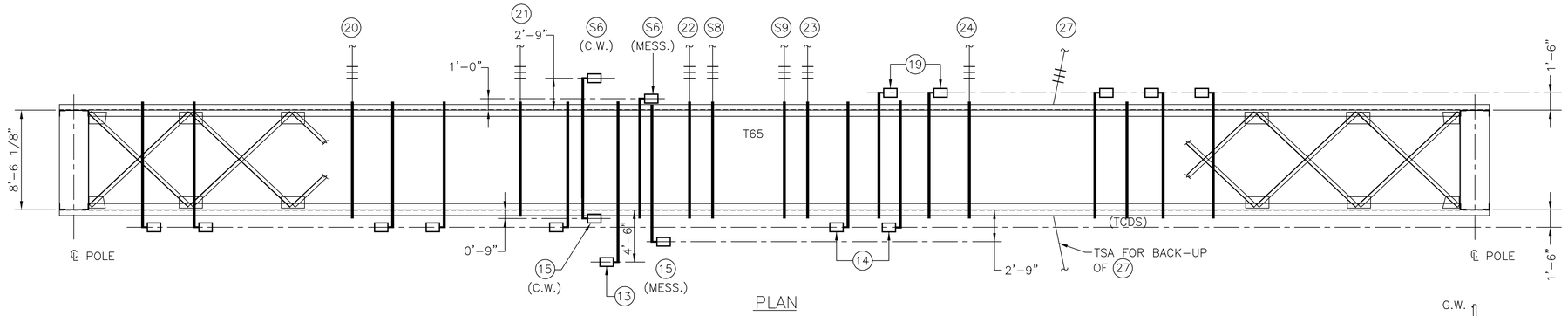
ERECTION DIAGRAM – 373B

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED–373B

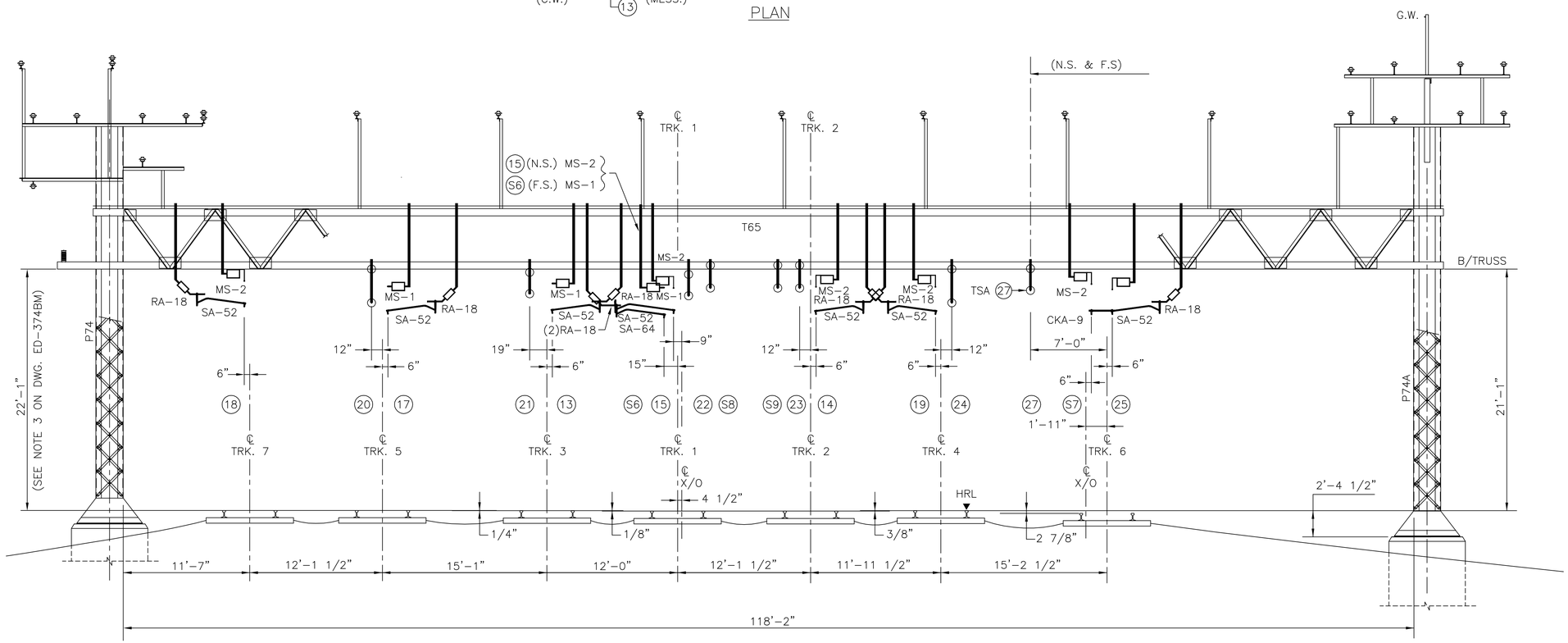
PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED–373B.DWG XX% DESIGN

TRACK	7	5		3		1				2			4		6		
WIRE NO.	18	20	17	21	13	S6	15	22	S8	S9	23	14	19	24	27	S7	25
TAIL/ANCHOR HT.		FA		FA				FA			FA			FA	FA		
MESSENGER HT.	21'-0"	21'-0"	20'-6"	21'-9 1/2"	20'-9 1/2"	20'-5"	20'-6"	21'-8"	22'-6"	22'-6"	22'-6"	20'-6"	20'-6"	21'-0"	22'-2"	20'-9"	**20'-3"**
CONTACT HT.	18'-8"	19'-0"	18'-0"	19'-10"	18'-1"	17'-8"	18'-0"	19'-8 1/2"	20'-5"	20'-5"	20'-5 1/2"	18'-0"	18'-0"	19'-0"	20'-2"	18'-1"	**18'-0"**
SYSTEM HT. DEPTH	3'-8"	2'-0"	2'-6"	1'-11 1/2"	2'-9 1/2"	2'-9"	2'-6"	1'-11 1/2"	2'-1"	2'-1"	2'-1 1/2"	2'-6"	2'-6"	2'-0"	2'-0"	2'-8"	**2'-3"**

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	



PLAN



ELEVATION

CATENARY STRUCTURE 374
STATION 1087+40
LOOKING EAST

SCALE: 3/16" = 1'-0"

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION
	1/23 06	AS BUILT

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 374

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-374

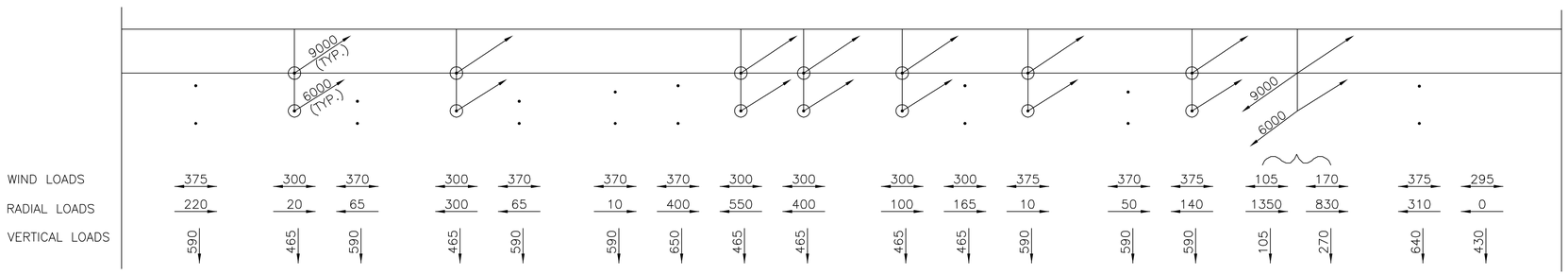
PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-374.dwg XX% DESIGN

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 374_BM

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	EXISTING	
STRUCTURAL STEELWORK & GUYS			
	TRUSS T65	EXISTING	
	POLE P74	EXISTING	
	POLE P74A	EXISTING	
	CROSS ARM	EXISTING	
	DETAIL	TCDS	
	DETAIL	TCDS-1	
18(2),17(2), 13(2),14(2), 19(2),S7,25	DROP TUBE SUPPORT	DT-U-10	
S6/15(2)	DROP TUBE SUPPORT	DT-2U-10	
SUPPORT & REGISTRATION ASSEMBLY			
S7	MESSENGER SUPPORT	MS-2	EX.
25	REGISTRATION ASSEMBLY	RA-18	EX.
25	STEADY ARM	SA-52	1
	CONTACT WIRE KNUCKLE ASSEMBLY	CKA-9	1
IN SPAN ASSEMBLY			
27	CATENARY DEAD END ASSEMBLY	CDEA-5	EX.
EX./S7	FULL LOAD FEEDING JUMPER	TYPE "A"	1
	CATENARY HANGERS	SEE TABULATION	
GROUND WIRE ASSEMBLY			
	GROUND WIRE ASSEMBLY	EXISTING	
MISCELLANEOUS & SWITCHING			
	FEEDER WIRE ASSEMBLY	EXISTING	



(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)
CATENARY LOADING DIAGRAM

NOTES

1. SIGNAL AND COMMUNICATION CABLES AND TRANSFORMERS SUSPENDED FROM POLES ARE NOT SHOWN ON LOADING DIAGRAM.
2. SURVEY INDICATES 1'-0" DIFFERENCE IN U/S OT TRUSS ELEVATION FROM NORTH TO SOUTH.
3. FOR GENERAL NOTES, SEE DRAWING G-8.

SCALE: NONE

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION
	1/23 06	AS BUILT

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

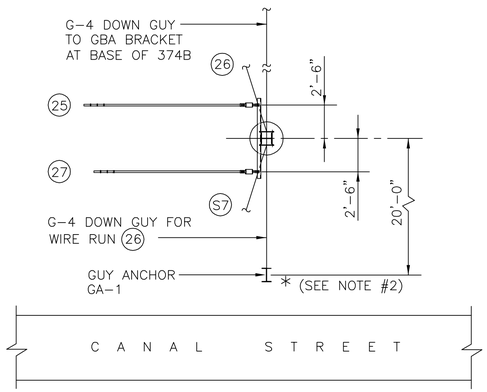
STAMFORD YARD CATENARY IMPROVEMENTS

BILL OF MATERIALS & LOADING DIAGRAM FOR ERECTION DIAGRAM – 374

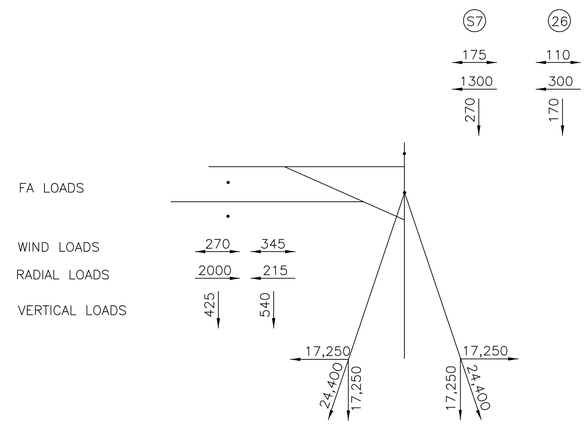
ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-374_BM

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-374_BM.dwg XX% DESIGN

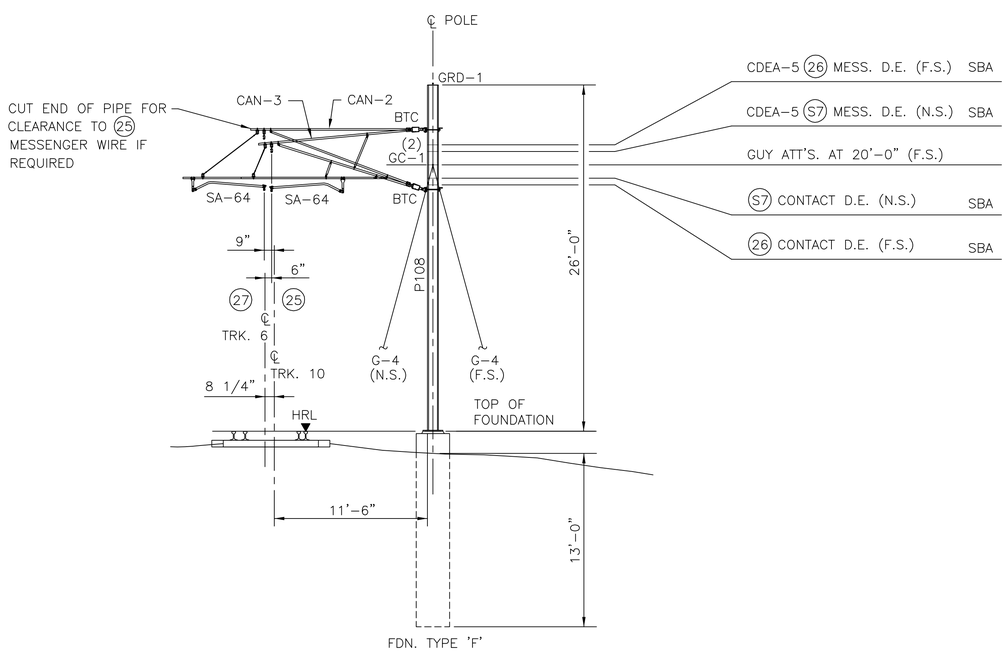
TRACK	10			
WIRE NO.	27	25	S7	26
TAIL\ANCHOR HT.			FA	FA
MESSENGER HT.	**22'–0"**	**21'–0"**	21'–0"	**21'–6"**
CONTACT HT.	**18'–1"**	**18'–0"**	19'–0"	**18'–6"**
SYSTEM HT. DEPTH	**3'–11"**	**3'–0"**	2'–0"	**3'–0"**



PLAN



CATENARY LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)



ELEVATION

CANTILEVER STRUCTURE 374A
STATION 1088+98
LOOKING EAST

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G–8.
2. * GROUND LEVEL AT 18'–0" BELOW TRACK LEVEL AT GUY ANCHOR.

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SCALE: 3/16" = 1'–0"

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301–163	2014	

ERECTION DIAGRAM No. 374A

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
26	POLE FOUNDATION	TYPE 'F'	EX.
	GUY ANCHOR	GA–1	EX.
STRUCTURAL STEELWORK & GUYS			
26	POLE	P108	EX.
	GUY ASSEMBLY	G–4	1
	DETAIL	GC–1	EX.
	DETAIL	SBA	EX.
	DETAIL	BTC	EX.
SUPPORT & REGISTRATION ASSEMBLY			
25	PULL–OFF SINGLE TRACK CANTILEVER	CAN–3	1
27	PUSH–OFF SINGLE TRACK CANTILEVER	CAN–2	EX.
IN SPAN ASSEMBLY			
S7	CATENARY DEAD END ASSEMBLY	CDEA–5	1
27/25	CROSS CONTACT BRIDGE ASSEMBLY	CBA–10	1
GROUND WIRE ASSEMBLY			
	GROUND WIRE ASSEMBLY	GRD–1	1
MISCELLANEOUS & SWITCHING			

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 374A

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION
	1/23 06	AS BUILT

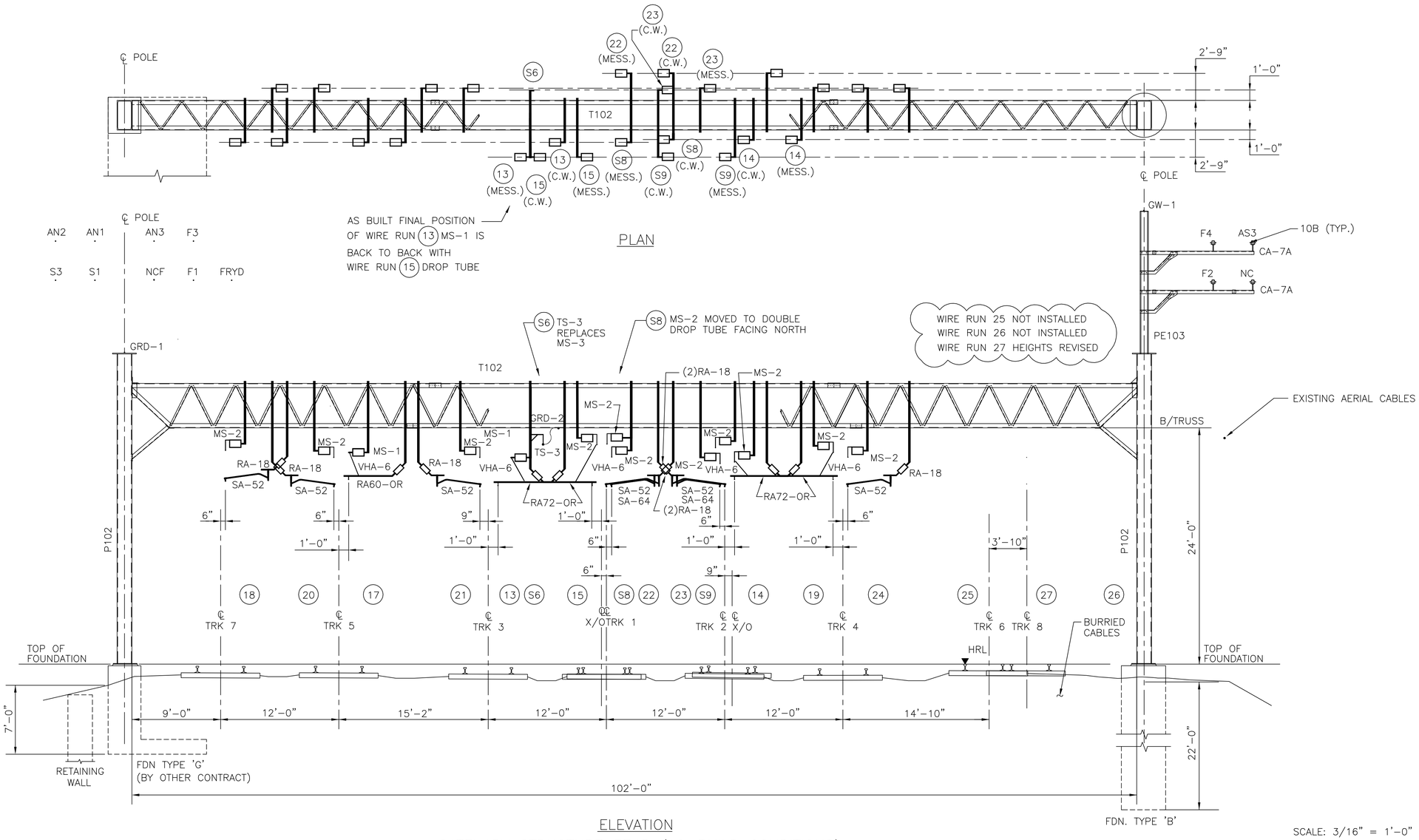
REVISIONS

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED–374A

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED–374A.dwg XX% DESIGN

TRACK	7	5		3			1			2			4		6	8	
WIRE NO.	18	20	17	21	13	S6	15	S8	22	23	S9	14	19	24	25	27	26
TAIL/ANC. HT						TAIL 22'-4"											
MESSENGER HT.	21'-8 1/2"	21'-0"	21'-6"	21'-0"	20'-11 3/4"		22'-3 1/2"	22'-0"	21'-0"	21'-0"	22'-0"	21'-6"	21'-6"	21'-0"	NSR	NSR	NSR
CONTACT HT.	18'-7"	18'-0"	18'-9"	18'-0"	18'-1 1/2"		18'-1 1/2"	18'-1"	18'-0"	18'-0"	18'-1"	18'-9"	18'-9"	18'-0"	NR	NR	NR
SYSTEM HT. DEPTH	3'-1 1/2"	3'-0"	2'-9"	3'-0"	2'-10 3/4"		4'-2"	3'-11"	3'-0"	3'-0"	3'-11"	2'-9"	2'-9"	3'-0"			

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	



ELEVATION

CATENARY STRUCTURE 374B (AS-BUILD CONDITIONS)
STATION 1089+41
LOOKING EAST

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

SCALE: 3/16" = 1'-0"

NO.	DATE	DESCRIPTION
	1/23 06	AS BUILT

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 374B

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-374B

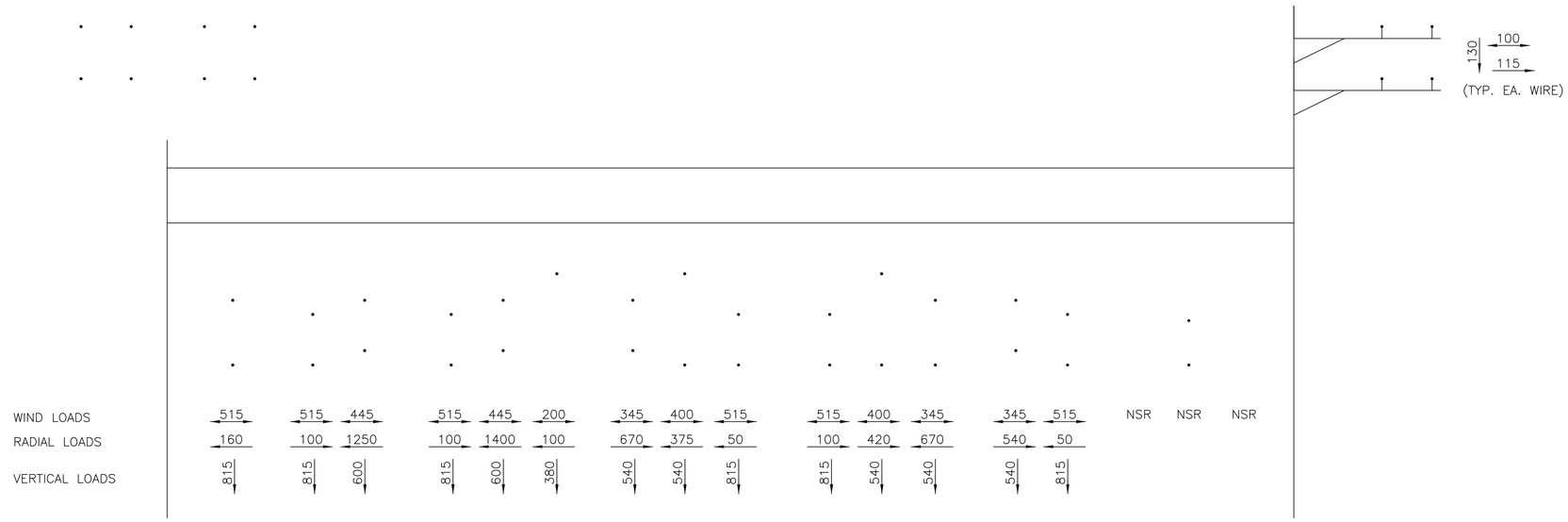
PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-374B.dwg XX% DESIGN

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 374B_BM

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION TYPE 'B'	EXISTING	
	POLE FOUNDATION TYPE 'G'	EXISTING	
STRUCTURAL STEELWORK & GUYS			
	TRUSS T102	EXISTING	
	POLE P102	EXISTING	
	POLE EXTENSION PE103	EXISTING	
	CROSS ARM CA-7A	EXISTING	
	CROSS ARM CA-7B	EXISTING	
14,15,18,19 S6,S9	DROP TUBE SUPPORT	DT2-U-8	6
14,17(2),18, 19,20(2),21(2), 13,23,24(2)	DROP TUBE SUPPORT	DT2-U-10	14
S6/15,S8/22 S9/23,S8/22	DROP TUBE SUPPORT	DT2-2U-10	4
SUPPORT & REGISTRATION ASSEMBLY			
14,15,S8,S9	MESSENGER SUPPORT	MS-2	11
18 TO 24, 13,17	MESSENGER SUPPORT	MS-1	2
18,20 TO 24, S8,S9	REGISTRATION ASSEMBLY	RA-18	8
17	REGISTRATION ASSEMBLY	RA60-OR	1
13,14,15,19	REGISTRATION ASSEMBLY	RA72-OR	4
18,20,21,22 23,24	STEADY ARM	SA-52	6
S8,S9	STEADY ARM	SA-64	2
S6	TAIL WIRE SUPPORT	TS-3	1
IN SPAN ASSEMBLY			
13,14,15,17,19	VEE HANGER	VHA-6	5
13/21,14/23, 15/22,17/20 19/24	POTENTIAL EQUALIZING JUMPER	TYPE "D"	5
S8/22, S9/23	FULL LOAD FEEDING JUMPER	TYPE "A"	2
18	IN-SPAN JUMPER	TYPE "C"	1
ALL	CATENARY HANGERS	SEE TABULATION	
S8/22, S9/23	CROSS CONTACT BRIDGE ASSEMBLY	CBA-10	2
S6	MID-SPAN INSULATOR ASSEMBLY	MIA	1
GROUND WIRE ASSEMBLY			
	GROUND WIRE ASSEMBLY	EXISTING	
	GROUND WIRE ASSEMBLY	EXISTING	
S6	GROUND WIRE ASSEMBLY	GRD-2	1
MISCELLANEOUS & SWITCHING			
	PIN INSULATOR ASSEMBLY	EXISTING	



CATENARY LOADING DIAGRAM (AS-BUILD CONDITIONS)
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.

SCALE: NTS

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION
	1/24 06	AS BUILT

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

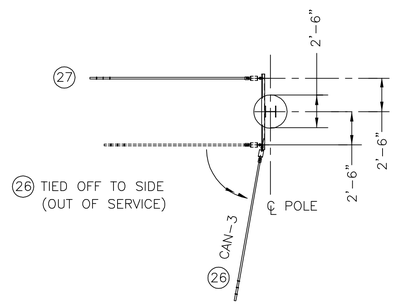
STAMFORD YARD CATENARY IMPROVEMENTS

BILL OF MATERIALS & LOADING DIAGRAM FOR ERECTION DIAGRAM – 374B

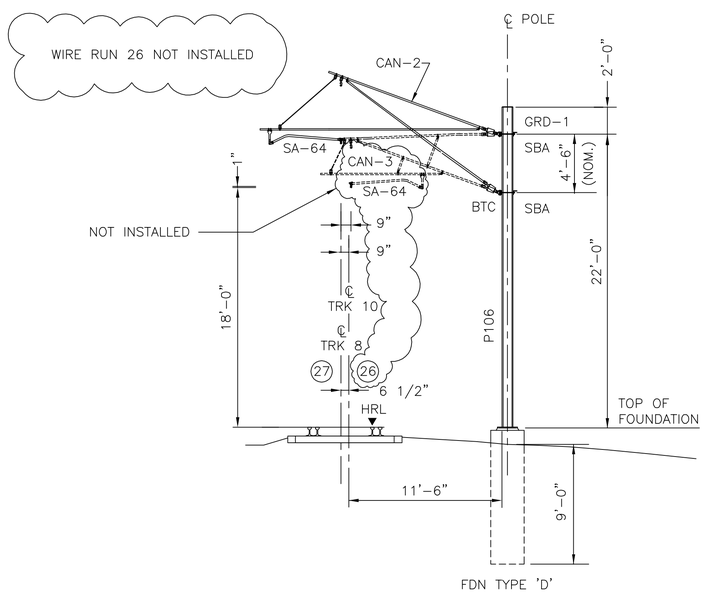
ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-374B_BM

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-374B_BM.dwg XX% DESIGN

TRACK	10	
WIRE NO.	27	26
MESSENGER HT.	22'-0"	21'-0"
CONTACT HT.	18'-1"	18'-0"
SYSTEM HT. DEPTH	3'-11"	3'-0"

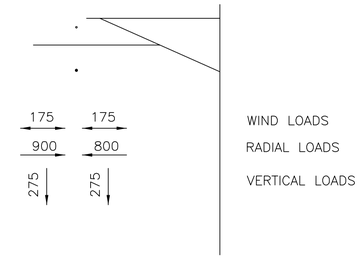


PLAN



ELEVATION

CANTILEVER STRUCTURE 374C (AS-BUILD CONDITIONS)
STATION 1089+92
LOOKING EAST



LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 374C

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	TYPE 'D'	1
STRUCTURAL STEELWORK & GUYS			
	POLE	P106	1
	DETAIL	BTC	2
	DETAIL	SBA	2
SUPPORT & REGISTRATION ASSEMBLIES			
27	PUSH-OFF SINGLE TRACK CANTILEVER	CAN-2	1
26	PULL-OFF SINGLE TRACK CANTILEVER (26) TIED OFF TO SIDE (OUT OF SERVICE)	CAN-3	1
IN SPAN ASSEMBLIES			
ALL	CATENARY HANGERS	SEE TABULATION	
GROUND WIRE ASSEMBLIES			
	G.W. ASS'Y	GRD-1	1
MISCELLANEOUS & SWITCHING			

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.

SCALE: 3/16" = 1'-0"

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION
	1/24 06	AS BUILT

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

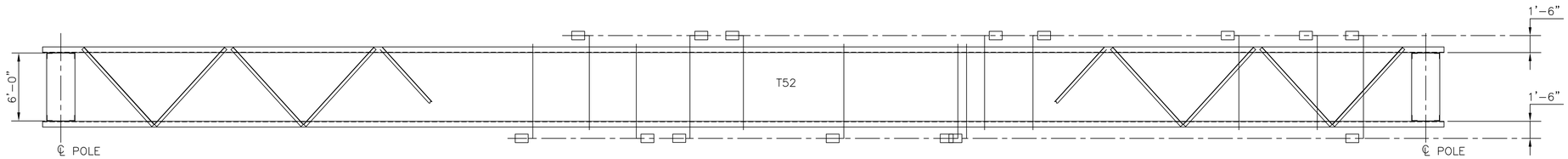
ERECTION DIAGRAM – 374C

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-374C

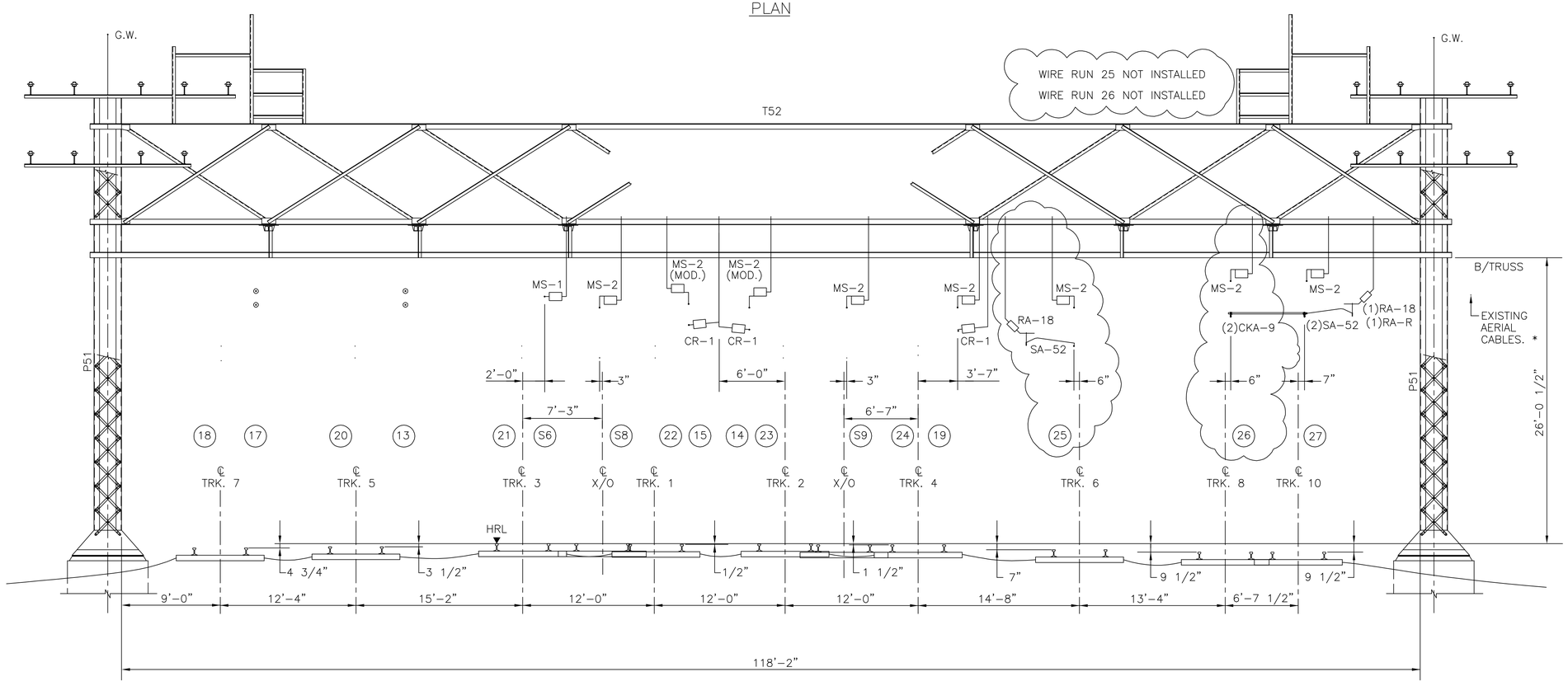
PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-374C.dwg XX% DESIGN

TRACK	7		5		3		1			2			4		6	8	10
WIRE NO.	18	17	20	13	21	S6	S8	22	15	14	23	S9	24	19	25	26	27
TAIL/ANC. HT						TAIL 22'-6"											
MESSENGER HT.	NSR	NSR	NSR	NSR	NSR		21'-6 1/2"	NSR	21'-10"	21'-6"	NSR	21'-6 1/2"	NSR	21'-6"			23'-11"
CONTACT HT.	NR	NR	NR	NR	NR		NR	NR	19'-11"	19'-6"	NR	NR	NR	19'-6"			20'-8"
SYSTEM HT. DEPTH									1'-11"	2'-0"				2'-0"			3'-3"

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	



PLAN



ELEVATION

CATENARY STRUCTURE 375
STATION 1090+60
LOOKING EAST

SCALE: 3/16" = 1'-0"

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 375

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-375

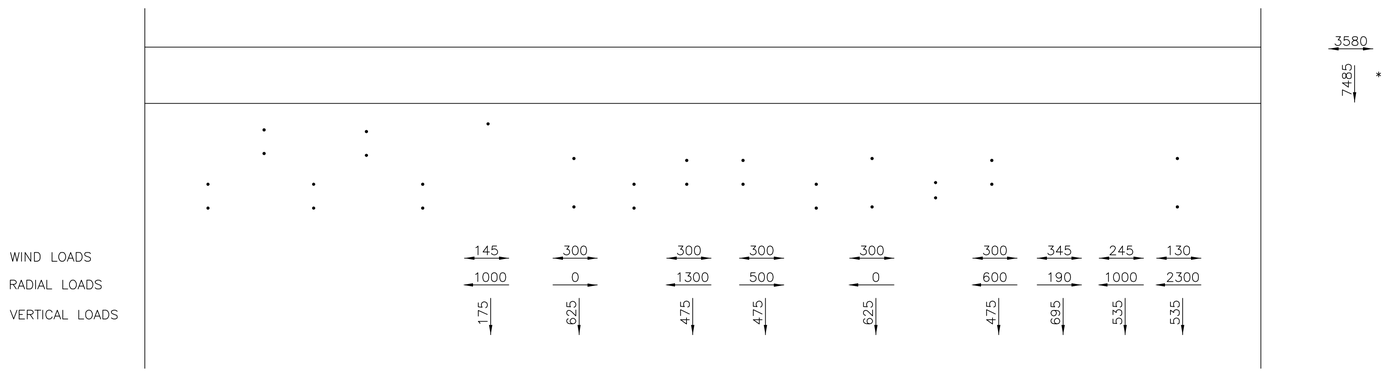
PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-375.dwg XX% DESIGN

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 375_BM

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	EXISTING	
STRUCTURAL STEELWORK & GUYS			
	TRUSS T52	EXISTING	
	POLE P51	EXISTING	
	CROSS ARMS	EXISTING	
S6,S8,14,15, S9,19,27	DROP TUBE SUPPORT	DT-U-10A	7
19	DROP TUBE SUPPORT	DT-U-11A	1
14/15,26/27	DROP TUBE SUPPORT	DT-2U-11A	2
SUPPORT & REGISTRATION ASSEMBLIES			
S6	MESSENGER SUPPORT	MS-1	1
S8,S9,14,15, 19,27	MESSENGER SUPPORT	MS-2	6
27	REGISTRATION ASSEMBLY	RA-18	1
14,15,19	REGISTRATION ASSEMBLY	CR-1	3
27(2)	STEADY ARM	SA-52	2
IN SPAN ASSEMBLIES			
S8,S9,27	SECTION INSULATOR ASSEMBLY	LS-1	3
13,S6	MID-SPAN INSULATION ASSEMBLY	MIA	2
13/20,S6/21	POTENTIAL EQUALIZING JUMPER	TYPE "G"	2
S8/21,S9/24	FULL LOAD FEEDING JUMPER	TYPE "A"	2
27(2)	CATENARY FEEDING JUMPER	TYPE "B-500C"	2
S8/21,S9/24	CROSS CONTACT BRIDGE ASSEMBLY	CBA-10	2
ALL	CATENARY HANGERS	SEE TABULATION	
GROUND WIRE ASSEMBLIES			
	GROUND WIRE ASSEMBLY	EXISTING	
MISCELLANEOUS & SWITCHING			
	FEEDER WIRE ASSEMBLY	EXISTING	



CATENARY LOADING DIAGRAM (AS-BUILD CONDITIONS)
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)

SCALE: NTS

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION
	1/24 06	AS BUILT

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

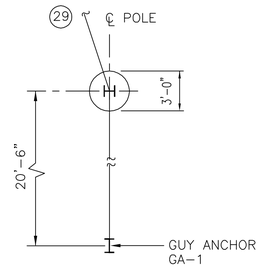
STAMFORD YARD CATENARY IMPROVEMENTS

BILL OF MATERIALS & LOADING DIAGRAM FOR ERECTION DIAGRAM – 375

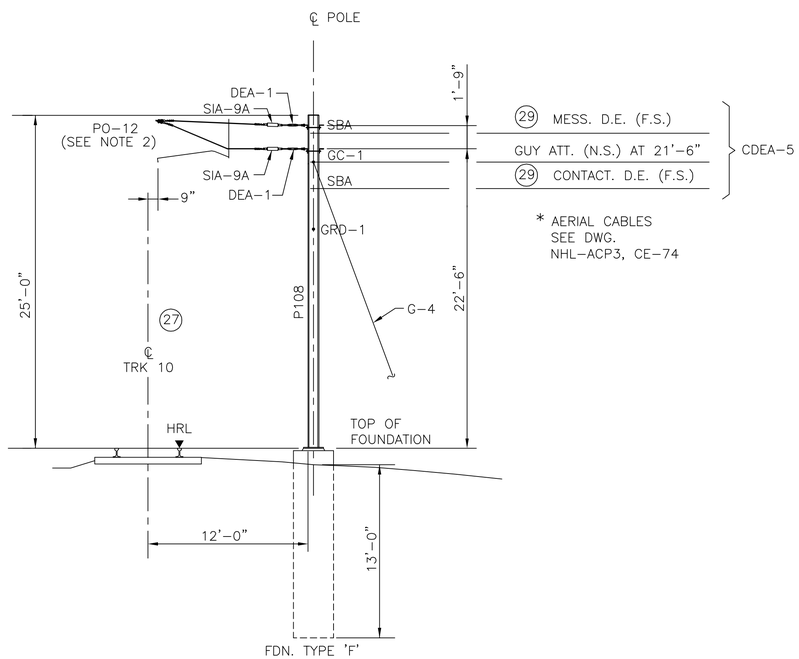
ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-375_BM

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-375_BM.dwg XX% DESIGN

TRACK	10
WIRE NO.	29
TAIL/ANCHOR HT.	
MESSENGER HT.	23'-8"
CONTACT HT.	19'-6"
SYSTEM HT. DEPTH	4'-2"

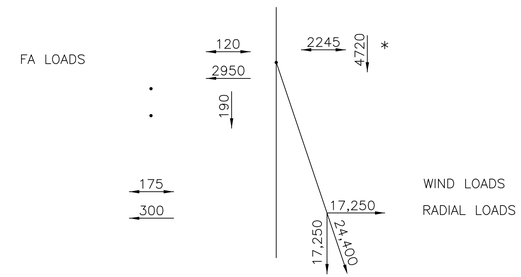


PLAN



ELEVATION

PULL-OFF STRUCTURE 375XA
STATION 1091+10
LOOKING EAST



LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.

SCALE: 3/16" = 1'-0"

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 375XA

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	TYPE 'F'	1
	GUY ANCHOR	GA-1	1
STRUCTURAL STEELWORK & GUYS			
	POLE	P108	1
	GUY ASSEMBLY	G-4	1
	DETAIL	GC-1	1
	DETAIL	SBA	4
SUPPORT & REGISTRATION ASSEMBLIES			
27	PULL-OFF ASSEMBLY	PO-12 SEE NOTE 2	1
	DEAD END ASSEMBLY	DEA-1	2
	SPAN WIRE INSULATION ASSEMBLY	SIA-9A	2
IN SPAN ASSEMBLIES			
29	CATENARY DEAD END ASSEMBLY	CDEA-5	1
ALL	CATENARY HANGERS	SEE TABULATION	
GROUND WIRE ASSEMBLIES			
	GROUND WIRE ASSEMBLY (TO 375)	GRD-1	1
MISCELLANEOUS & SWITCHING			

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 375XA

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION

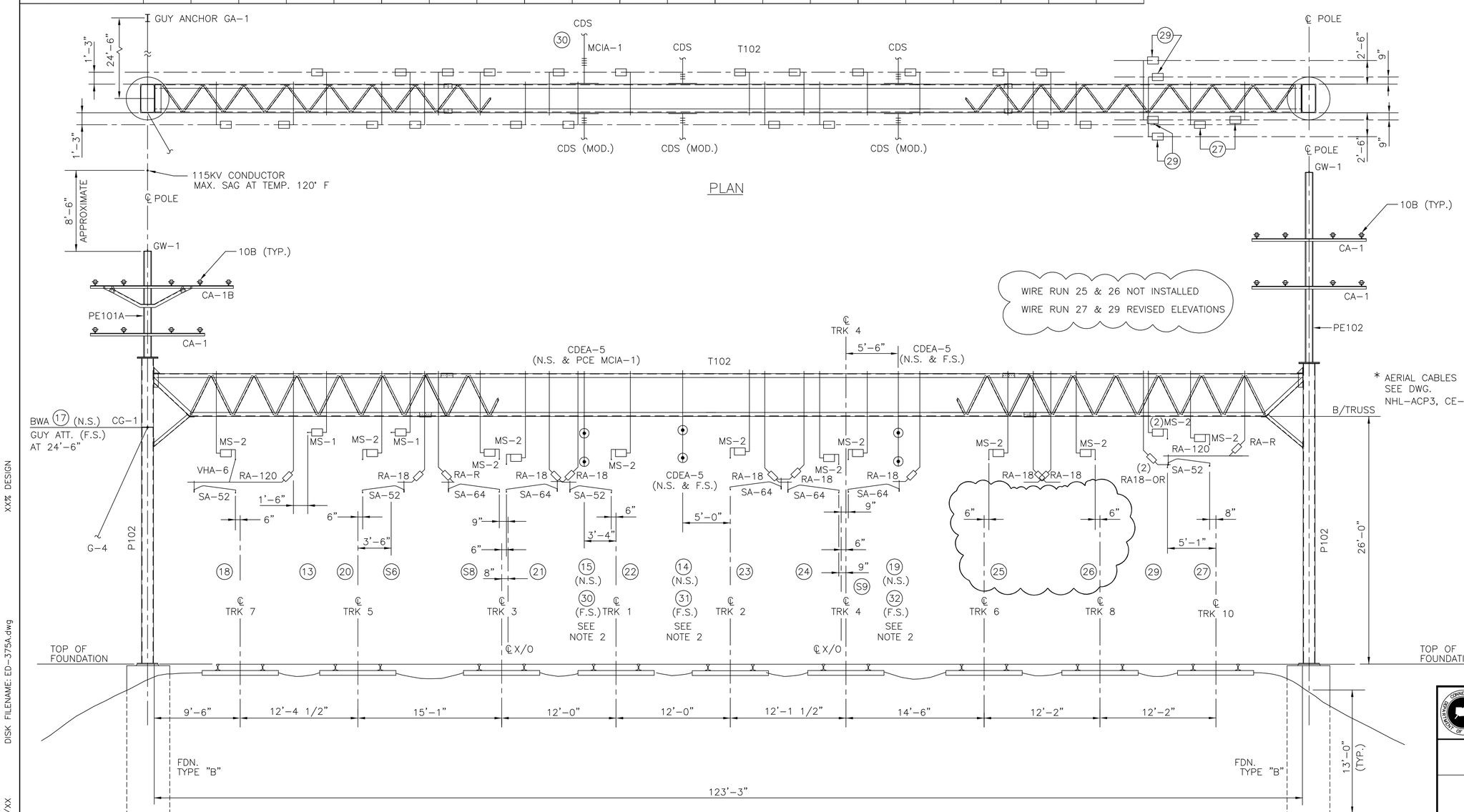
REVISIONS

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-375XA

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME:ED-375XA.dwg XX% DESIGN

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	278-1 381

TRACK	7		5			3		1			2			4		6			8	10	
WIRE. NO.	17	18	13	20	S6	S8	21	15	30	22	14	31	23	24	S9	19	32	25	26	29	27
TAIL\ANG. HT.	BWA 24'-10"		TAIL 24'-4"		TAIL 24'-4"			FA	FA		FA	FA				FA	FA				
MESSENGER HT.		21'-6"		21'-6"		21'-6"	21'-0"	24'-3"	24'-3"	21'-6"	24'-3 1/2"	24'-7"	21'-8"	21'-0"	21'-6"	24'-3 1/2"	24'-3 1/2"			23'-8"	23'-1"
CONTACT HT.		18'-0"		18'-0"		18'-1"	18'-0"	21'-3"	21'-3"	18'-0"	21'-3 1/2"	21'-8"	18'-4"	18'-0"	18'-1"	21'-3 1/2"	21'-3 1/2"			20'-8"	20'-10"
SYSTEM HT. DEPTH		3'-6"		3'-6"		3'-5"	3'-0"	3'-0"	3'-0"	3'-6"	3'-0"	2'-11"	3'-6"	3'-0"	3'-5"	3'-0"	3'-0"			3'-0"	2'-3"



ELEVATION

CATENARY STRUCTURE 375A
STATION 1092+20
LOOKING EAST

SCALE: 3/16" = 1'-0"

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.

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URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 375A

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-375A

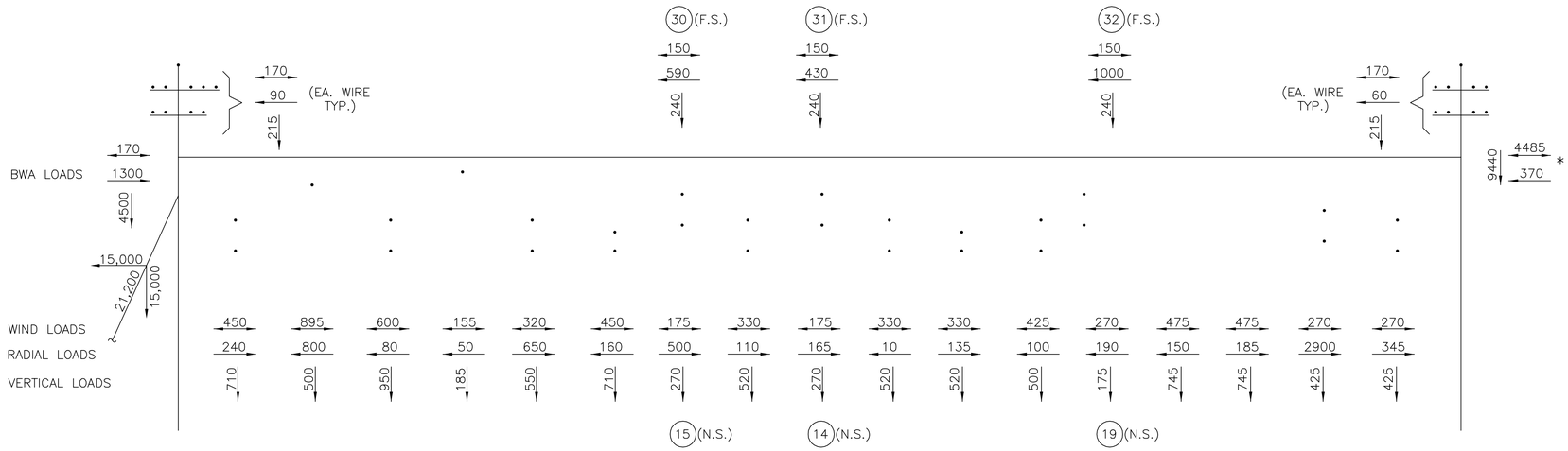
PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-375A.dwg XX% DESIGN

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	279-1 381

ERECTION DIAGRAM No. 375A

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	TYPE "B"	2
	GUY ANCHOR	GA-1	1
STRUCTURAL STEELWORK & GUYS			
	TRUSS	T102	1
	POLE	P102	2
	CROSS ARMS	CA-1	3
	CROSS ARMS	CA-1B	1
	POLE EXTENSION	PE-101A	1
	POLE EXTENSION	PE-102	1
	GUY ASSEMBLY	G-4	1
	BALANCE WEIGHT ASSEMBLY	BWA	1
	DETAIL	CDS(MOD.)	6
13, S6	DROP TUBE SUPPORT	DT2-U-10	2
20 TO 27, 18, S8, S9	DROP TUBE SUPPORT	DT2-U-11	11
20 TO 27, 18, S8, S9	DROP TUBE SUPPORT	DT2-U-13	11
29/29	DROP TUBE SUPPORT	DT2-2U-10	1
29/29	DROP TUBE SUPPORT	DT2-2U-11	1
SUPPORT & REGISTRATION ASSEMBLY			
S6, 13	MESSENGER SUPPORT	MS-1	2
20 TO 26, 18,27,29(2), S8,S9	MESSENGER SUPPORT	MS-2	13
20 TO 26,S9	REGISTRATION ASSEMBLY	RA-18	8
S8	REGISTRATION ASSEMBLY	RA-R	1
29(2)	REGISTRATION ASSEMBLY	RA18-OR	2
18,27	REGISTRATION ASSEMBLY	RA120	2
18,20,22,27	STEADY ARM	SA-52	4
S8,21,23, 24,S9	STEADY ARM	SA-64	5
IN SPAN ASSEMBLY			
14,15,19, 31,32	CATENARY DEAD END ASS'Y	CDEA-5	5
18	VEE HANGER	VHA-6	1
S9,13,S6	MID-SPAN INSULATION ASSEMBLY	MIA	3
13/18,S6/20	POTENTIAL EQUALIZING JUMPER	TYPE "G"	2
24/32	POTENTIAL EQUALIZING JUMPER	TYPE "D"	1
18,20,22, 23	IN-SPAN JUMPER	TYPE "C"	4
S8/21	CROSS CONTACT BRIDGE ASSEMBLY	CBA-10	1
ALL	CATENARY HANGERS	SEE TABULATION	
30	MID-SPAN INSULATOR ASSEMBLY	MCIA-1	1
GROUND WIRE ASSEMBLY			
	GROUND WIRE ASSEMBLY	GW-1	2
MISCELLANEOUS & SWITCHING			
	PIN INSULATOR ASSEMBLY	10B	17



CATENARY LOADING DIAGRAM (AS-BUILD CONDITIONS)

(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)

SCALE: NTS

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION
	1/25/06	AS BUILT

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

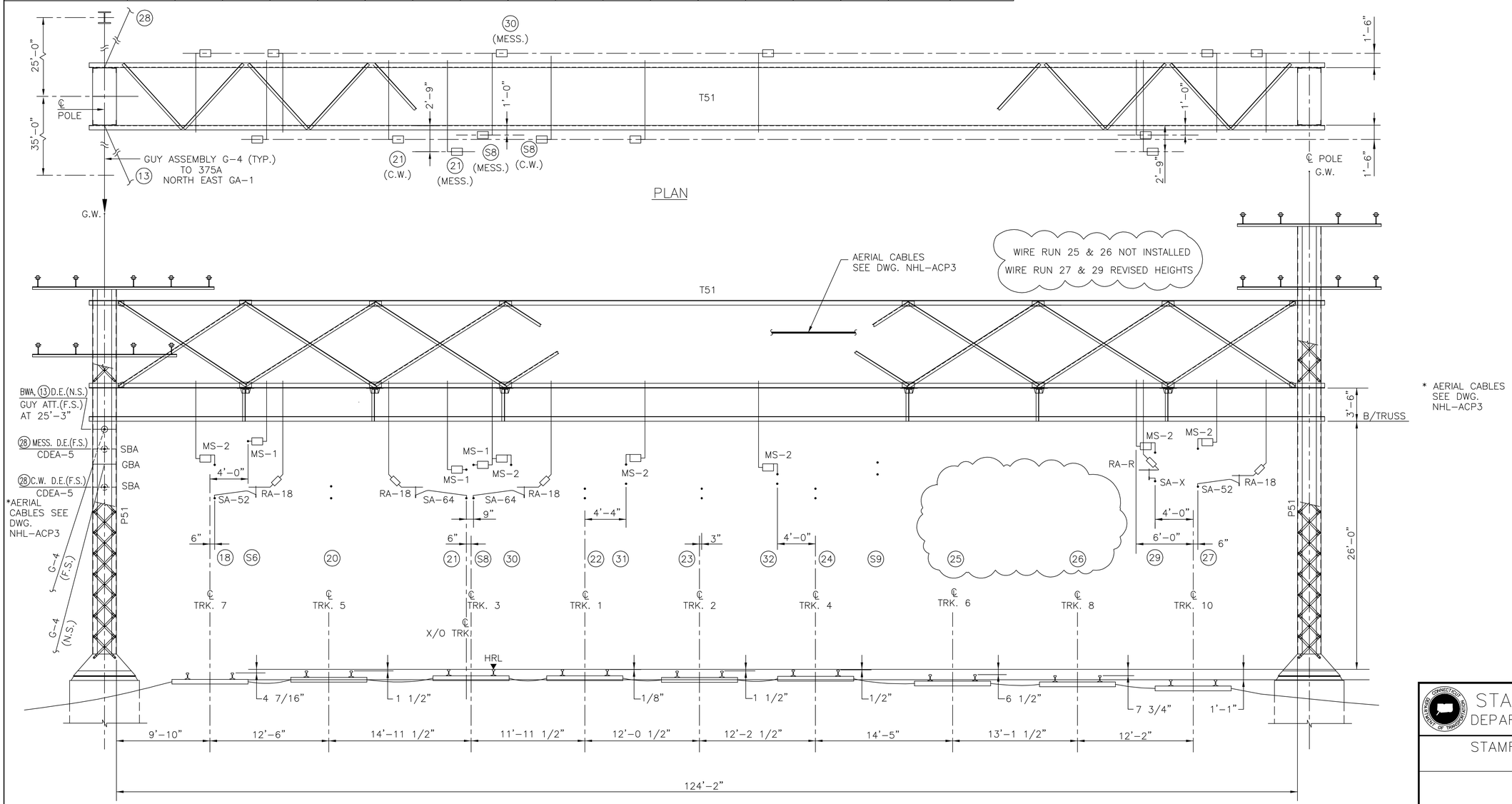
BILL OF MATERIALS & LOADING DIAGRAM FOR ERECTION DIAGRAM – 375A

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-375A_BM

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-375A_BM.dwg XX% DESIGN

TRACK	7			5		3			1		2		4		6	8	10	
WIRE NO.	13	28	18	S6	20	21	S8	30	22	31	23	32	24	S9	25	26	29	27
TAIL/ANCHOR HT.	BWA 25'-3"	FA		TAIL 24'-0"														
MESSENGER HT.		23'-2"	21'-6"		NSR	21'-0"	21'-6"	21'-6"	NSR	21'-6 1/2"	NSR	21'-6 1/2"	NSR	NSR			22'-9 1/2"	23'-2 1/2"
CONTACT HT.		19'-2"	18'-0"		NR	18'-0"	18'-1"	19'-6"	NR	NR	NR	NR	NR	NR			19'-9 1/2"	19'-2 1/2"
SYSTEM HT. DEPTH		4'-0"	3'-6"			3'-0"	3'-5"	2'-0"									3'-0"	4'-0"

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	



CATENARY STRUCTURE 376
STATION 1093+60
LOOKING EAST

SCALE: 3/16" = 1'-0"

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 376

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-376

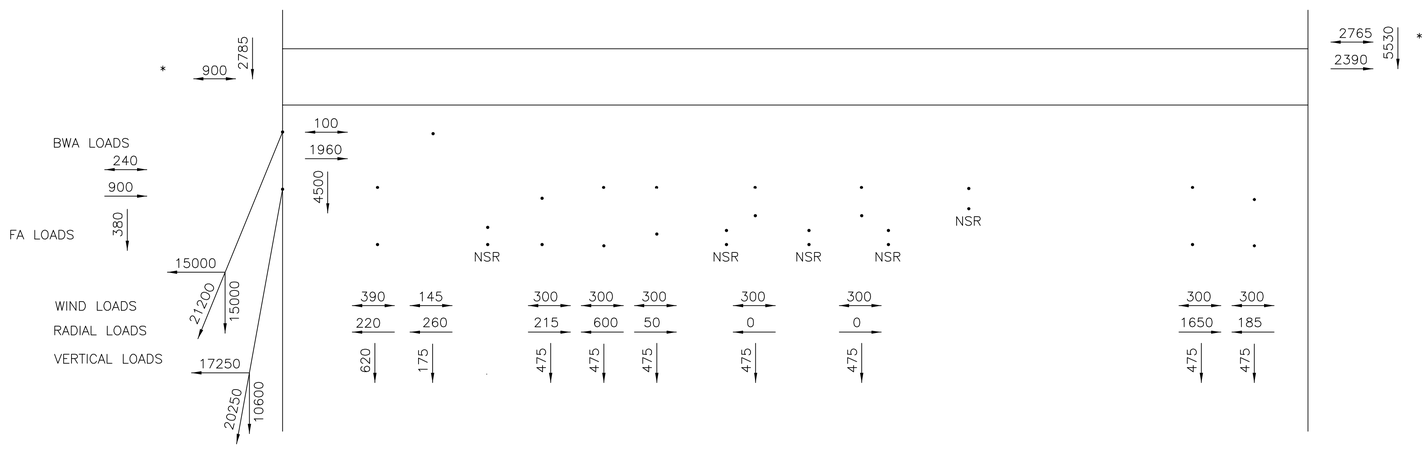
PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-376.dwg XX% DESIGN

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 376_BM

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	EXISTING	
	GUY ANCHOR	GA-1	1
STRUCTURAL STEELWORK & GUYS			
	TRUSS T51	EXISTING	
	POLE P51	EXISTING	
	CROSS ARMS	EXISTING	
13	BALANCED WEIGHT ASSEMBLY	BWA	1
	GUY ASSEMBLY	G-4	2
	DETAIL	SBA	2
	DETAIL	GBA	1
18,31,32, 29,27	DROP TUBE SUPPORT	DT-U-10A	5
18,21(2), S8,29,27	DROP TUBE SUPPORT	DT-U-11A	6
S8/30	DROP TUBE SUPPORT	DT-2U-11A	1
S6	DROP TUBE SUPPORT	DT-U-8B	1
SUPPORT & REGISTRATION ASSEMBLY			
26,21,S8	MESSENGER SUPPORT	MS-1	3
18,30,31,32, 29,27	MESSENGER SUPPORT	MS-2	6
18,21,S8,27,	REGISTRATION ASSEMBLY	RA-18	4
29	CONTACT WIRE REGISTRATION ASSEMBLY	SA-X	1
18,27	STEADY ARM	SA-52	2
21,S8	STEADY ARM	SA-64	2
29	REGISTRATION ASSEMBLY	RA-R	1
IN SPAN ASSEMBLY			
28	CATENARY DEAD END ASSEMBLY	CDEA-5	1
S6	MID - SPAN INSULATION ASSEMBLY	MIA	1
27/29	FULL LOAD FEEDING JUMPER	TYPE "A"	1
S6/18	POTENTIAL EQUALIZING JUMPER	TYPE "G"	1
S8/21, 27/29	CROSS CONTACT BRIDGE ASSEMBLY	CBA-10	2
21/30, 22/31, 23/32	POTENTIAL EQUALIZING JUMPER	TYPE "D"	3
27/29	MESSENGER KNUCKLE ASSEMBLY	MKA-7	4
27/29	CONTACT WIRE KNUCKLE ASSEMBLY	CKA-8	2
27/29	CONTACT WIRE KNUCKLE ASSEMBLY	CKA-9	2
32	MID-SPAN INSULATION ASSEMBLY	MCIA-1	1
ALL	CATENARY HANGERS	SEE TABULATION	
GROUND WIRE ASSEMBLY			
	GROUND WIRE ASSEMBLIES	EXISTING	
MISCELLANEOUS & SWITCHING			
	FEEDER WIRE ASSEMBLIES	EXISTING	



CATENARY LOADING DIAGRAM (AS-BUILD CONDITIONS)
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.

SCALE: NONE

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION
	1/25 06	AS BUILT

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

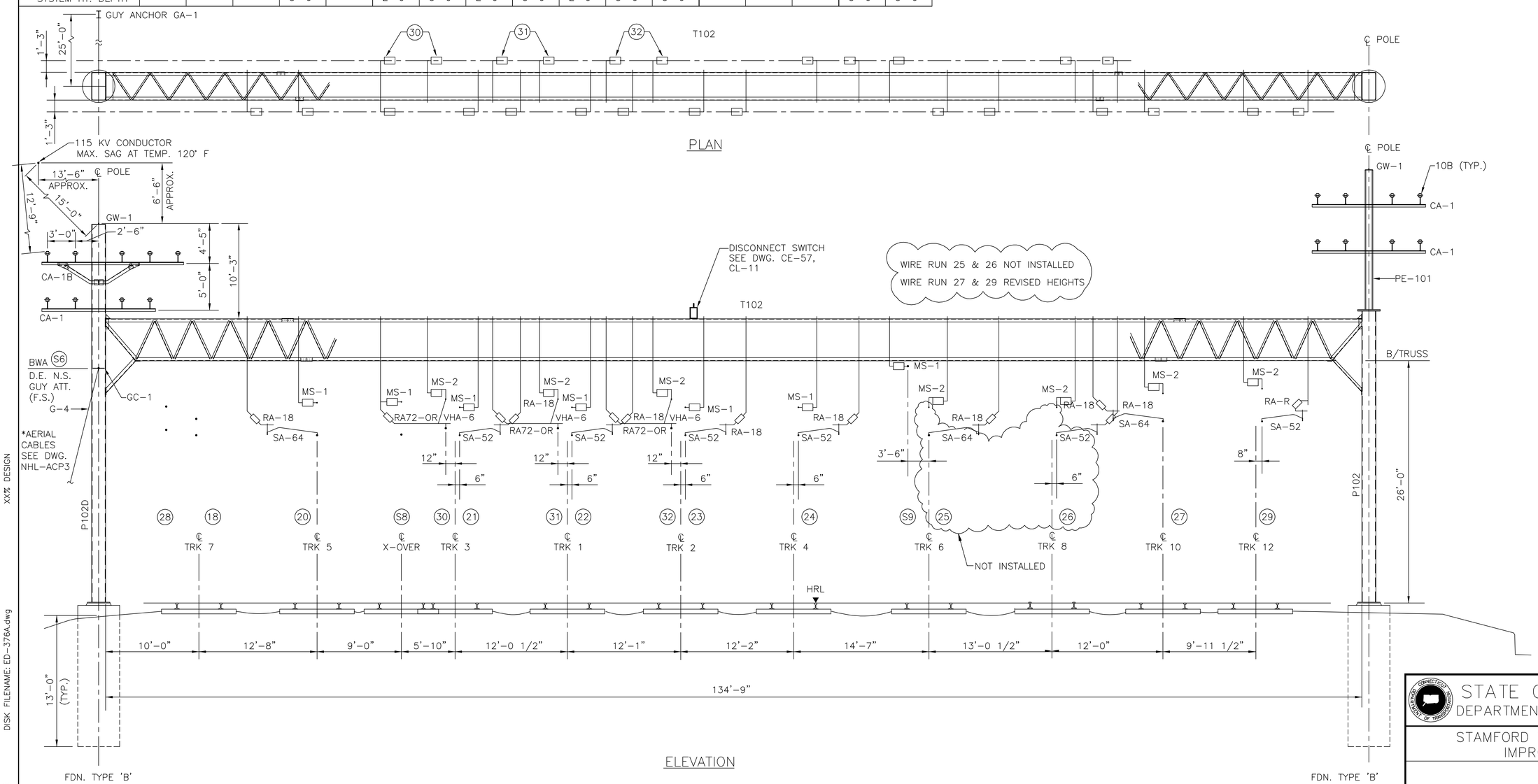
ERECTION DIAGRAM - 376

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-376_BM

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-376_BM.dwg XX% DESIGN

TRACK	7			5	3			1		2		4	6		8	10	12
WIRE NO.	S6	28	18	20	S8	30	21	31	22	32	23	24	S9	25	26	27	29
TAI/ANG. HT.	BWA 25'-2"												TAIL 25'-0"				
MESSENGER HT.		NSR	NSR	21'-6"	21'-7"	21'-6"	21'-0"	21'-6"	21'-0"	21'-6"	21'-0"	21'-6"				23'-0"	23'-0"
CONTACT HT.		NR	NR	18'-0"	NR	18'-9"	18'-0"	18'-9"	18'-0"	18'-9"	18'-0"	18'-0"				19'-6"	19'-6"
SYSTEM HT. DEPTH				3'-6"		2'-9"	3'-0"	2'-9"	3'-0"	2'-9"	3'-0"	3'-6"				3'-6"	3'-6"

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	282-1 381



ELEVATION

CATENARY STRUCTURE 376A
STATION 1095+01
LOOKING EAST

SCALE: 3/16" = 1'-0"

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 376A

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-376A

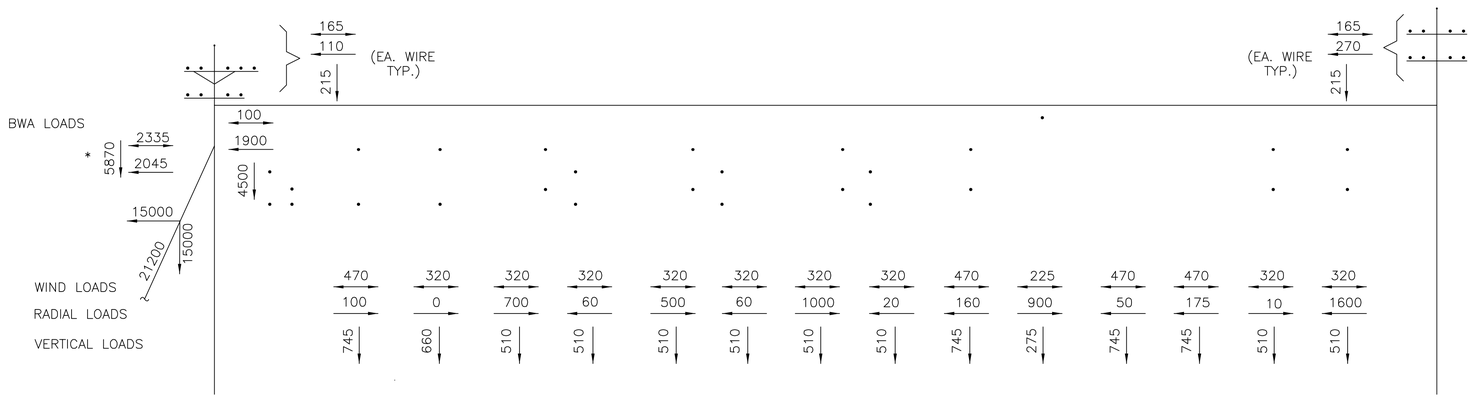
PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-376A.dwg XX% DESIGN

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	283-1 381

ERECTION DIAGRAM No. 376A_BM

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	TYPE "B"	2
	GUY ANCHOR	GA-1	1
STRUCTURAL STEELWORK & GUYS			
	TRUSS	T102	1
	POLE	P102	1
	POLE	P102D	1
	CROSS ARMS	CA-1	3
	CROSS ARMS	CA-1B	1
	POLE EXTENSION	PE-101	1
	GUY ASS'Y	G-4	1
	BALANCE WEIGHT ASS'Y	BWA	1
	DETAIL	GC-1	1
20,30,31,32,24 25,26,27,29	DROP TUBE SUPPORT	DT2-U-11	9
20,31,32,21(2) 22(2),23(2),24, 25,26,27,29	DROP TUBE SUPPORT	DT2-U-13	14
S8/30	DROP TUBE SUPPORT	DT2-2U-13	1
SUPPORT & REGISTRATION ASSEMBLY			
20,S8,21, 23,24,22,59	MESSENGER SUPPORT	MS-1	7
25,26,27,29, 30,31,32	MESSENGER SUPPORT	MS-2	7
20,21,22,23, 24,25,26,27	REGISTRATION ASSEMBLY	RA-18	8
29	REGISTRATION ASSEMBLY	RA-R	1
30,31,32	REGISTRATION ASSEMBLY	RA72-OR	3
21,22,23,24, 29	STEADY ARM	SA-52	5
20,27	STEADY ARM	SA-64	2
IN SPAN ASSEMBLY			
30,31,32	VEE HANGER	VHA-6	3
ALL	CATENARY HANGERS	SEE TABULATION	
21,22,23,30 31,32	IN-SPAN INSULATION ASSEMBLY	MCIA-2	6
S8,27,29	SECTION INSULATOR ASSEMBLY	HS-1	3
18/28,S8/20	FULL LOAD FEEDING JUMPER	TYPE "A"	2
S9	MID-SPAN INSULATION ASSEMBLY	MIA	1
23,32	CATENARY FEEDING JUMPER	TYPE "B-500C"	2
20,24,27	IN-SPAN JUMPER	TYPE "C"	3
28/18 (2)	CROSS CONTRACT BRIDGE ASSEMBLY	CBA-10	2
GROUND WIRE ASSEMBLY			
	GROUND WIRE ASS'Y	GW-1	2
MISCELLANEOUS & SWITCHING			
	PIN INSULATOR ASS'Y	10B	17
	DISCONNECT SWITCH ASSEMBLY	DS-1	1



CATENARY LOADING DIAGRAM (AS-BUILD CONDITIONS)
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.

SCALE: NTS

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION
	1/25 06	AS BUILT

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

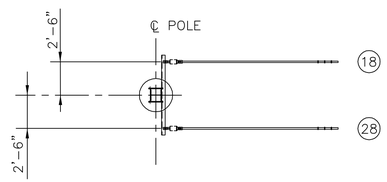
STAMFORD YARD CATENARY IMPROVEMENTS

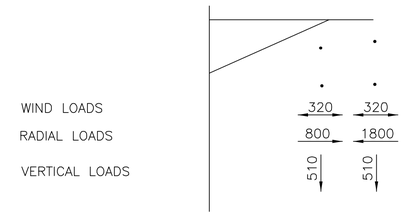
BILL OF MATERIALS & LOADING DIAGRAM FOR ERECTION DIAGRAM – 376A

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-376A_BM

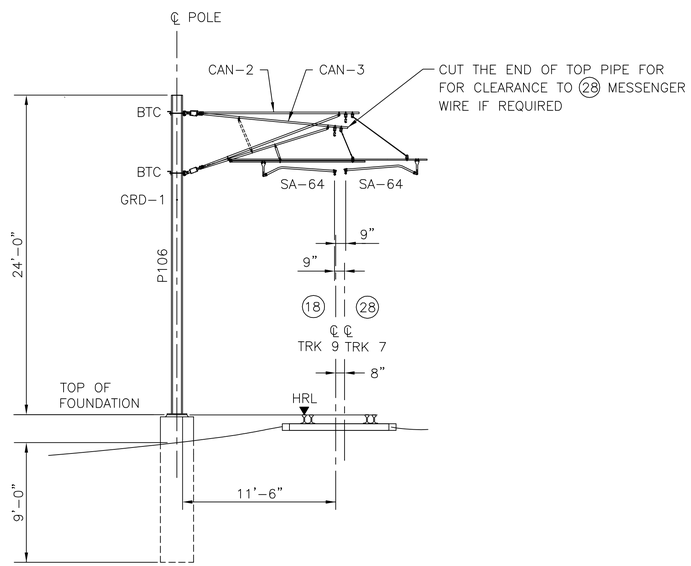
PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-376A_BM.dwg XX% DESIGN

TRACK	9	7
WIRE NO.	18	28
MESSENGER HT.	21'-0"	22'-0"
CONTACT HT.	18'-0"	18'-1"
SYSTEM HT. DEPTH	3'-0"	3'-11"





CATENARY LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)



FDN. TYPE 'D'

ELEVATION

CANTILEVER STRUCTURE 376B (AS-BUILD CONDITIONS)
STATION 1095+85
LOOKING EAST

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

SCALE: 3/16" = 1'-0"

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 376B

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	TYPE 'D'	1
STRUCTURAL STEELWORK & GUYS			
	POLE	P106	1
	DETAIL	BTC	2
SUPPORT & REGISTRATION ASSEMBLY			
18	PULL-OFF SINGLE TRACK CANTILEVER	CAN-3	1
28	PUSH-OFF SINGLE TRACK CANTILEVER	CAN-2	1
IN SPAN ASSEMBLY			
18/28	CROSS BRIDGE CONTACT ASSEMBLY	CBA-10	1
GROUND WIRE ASSEMBLY			
	GROUND WIRE ASSEMBLY	GRD-1	1
MISCELLANEOUS & SWITCHING			

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 376B

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION
	1/25 06	AS BUILT

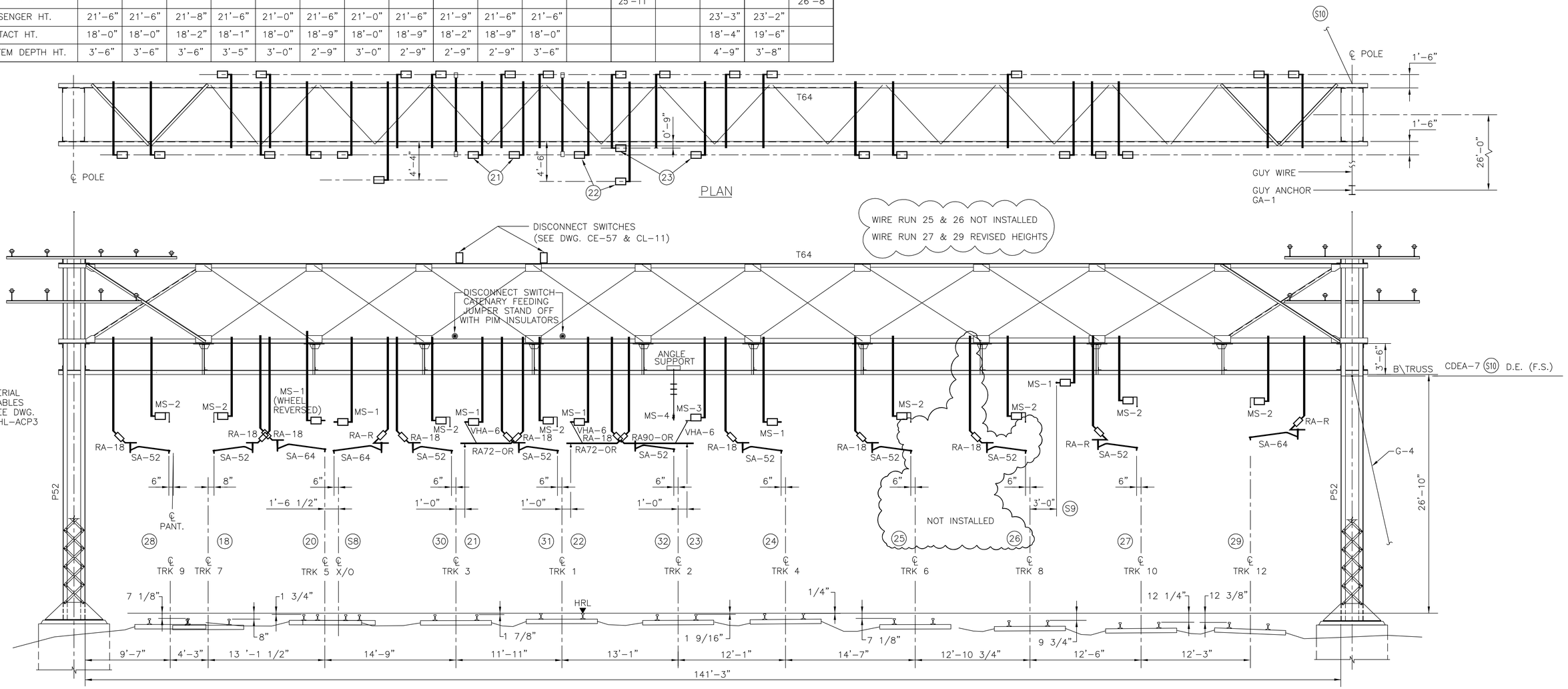
REVISIONS

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-376B

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-376B.dwg XX% DESIGN

TRACK	9	7	5		3		1		2		4	6	8		10	12	
WIRE NO.	28	18	20	S8	30	21	31	22	32	23	24	25	S9	26	27	29	S10
TAIL/ANC. HT													TAIL 25'-11"				FA 26'-8"
MESSENGER HT.	21'-6"	21'-6"	21'-8"	21'-6"	21'-0"	21'-6"	21'-0"	21'-6"	21'-9"	21'-6"	21'-6"				23'-3"	23'-2"	
CONTACT HT.	18'-0"	18'-0"	18'-2"	18'-1"	18'-0"	18'-9"	18'-0"	18'-9"	18'-2"	18'-9"	18'-0"				18'-4"	19'-6"	
SYSTEM DEPTH HT.	3'-6"	3'-6"	3'-6"	3'-5"	3'-0"	2'-9"	3'-0"	2'-9"	2'-9"	2'-9"	3'-6"				4'-9"	3'-8"	

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	



ELEVATION

CATENARY STRUCTURE 377 (AS-BUILD CONDITIONS)

STATION 1096+60
LOOKING EAST

SCALE: 3/16" = 1'-0"

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION
	1/25 06	AS BUILT

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 377

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-377

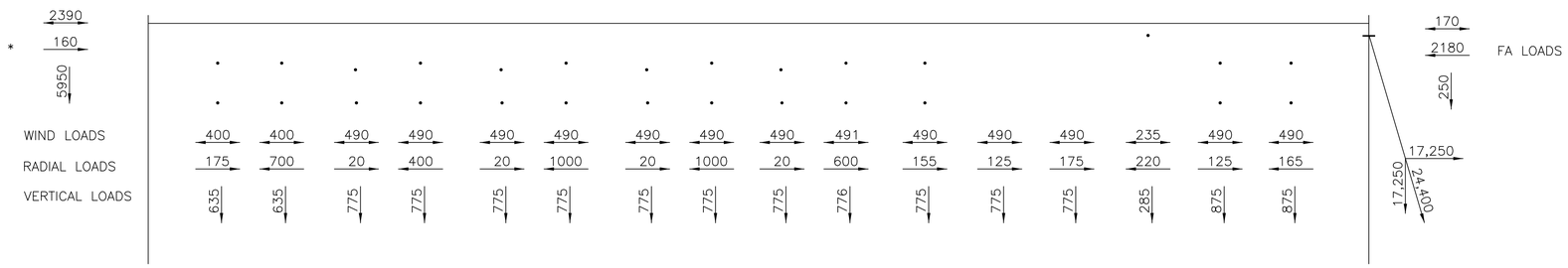
PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-377.dwg XX% DESIGN

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 377_BM

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	EXISTING	
	GUY ANCHOR	GA-1	1
STRUCTURAL STEELWORK & GUYS			
	TRUSS T64	EXISTING	
	POLE P52	EXISTING	
	CROSS ARMS	EXISTING	
	GUY ASS'Y	G-4	1
20,21,22, S8,23,24,28, 18,30,31 25,26,27,29	DROP TUBE SUPPORT	DT-U-11A	14
18,20,21,22, 24,25 27,28,29, 30,31,S8	DROP TUBE SUPPORT	DT-U-13A	12
S9	DROP TUBE SUPPORT	DT-U-8B	1
32/23	DROP TUBE SUPPORT	DT-2U-13A	1
SUPPORT & REGISTRATION ASSEMBLY			
20,21,22, 24,S8,S9	MESSENGER SUPPORT	MS-1	6
23	MESSENGER SUPPORT	MS-3	1
18,25,26,27, 28,29,30,31	MESSENGER SUPPORT	MS-2	8
28,18,20,30, 31,32,24,25	REGISTRATION ASSEMBLY	RA-18	8
S8,29,27	REGISTRATION ASSEMBLY	RA-R	3
21,22	REGISTRATION ASSEMBLY	RA72-OR	2
23	REGISTRATION ASSEMBLY	RA90-OR	1
28,18,30, 31,32,24,25, 27	STEADY ARM	SA-52	8
20,S8,29	STEADY ARM	SA-64	3
32	MESSENGER SUPPORT	MS-4	1
IN SPAN ASSEMBLY			
21,22,23	VEE HANGER	VHA-6	3
S10	CATENARY DEAD END ASS'Y	CDEA-7	1
S9(3),S10(3), 23	MID-SPAN INSULATOR ASSEMBLY	MIA	7
S9/27,S9/29, S10/27,S10/29,	POTENTIAL EQUALIZING JUMPER	TYPE "G"	4
21,22 27,30,31, 29(2)	CATENARY FEEDING JUMPER	TYPE "B-500C"	7
24	IN-SPAN JUMPER	TYPE "C"	1
S8/20	CROSS CONTACT BRIDGE ASSEMBLY	CBA-10	1
ALL	CATENARY HANGERS	SEE TABULATION	
GROUND WIRE ASSEMBLY			
	GROUND WIRE ASSEMBLY	EXISTING	
MISCELLANEOUS & SWITCHING			
	FEEDER WIRE ASSEMBLY	EXISTING	
	DISCONNECT SWITCH ASSEMBLY	DS-1	2



LOADING DIAGRAM (AS-BUILD CONDITIONS)
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.

SCALE: NONE

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION
	1/26 06	AS BUILT

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

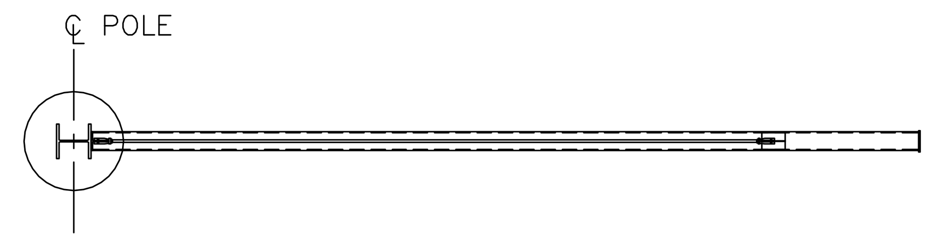
STAMFORD YARD CATENARY IMPROVEMENTS

BILL OF MATERIALS & LOADING DIAGRAM FOR ERECTION DIAGRAM – 377

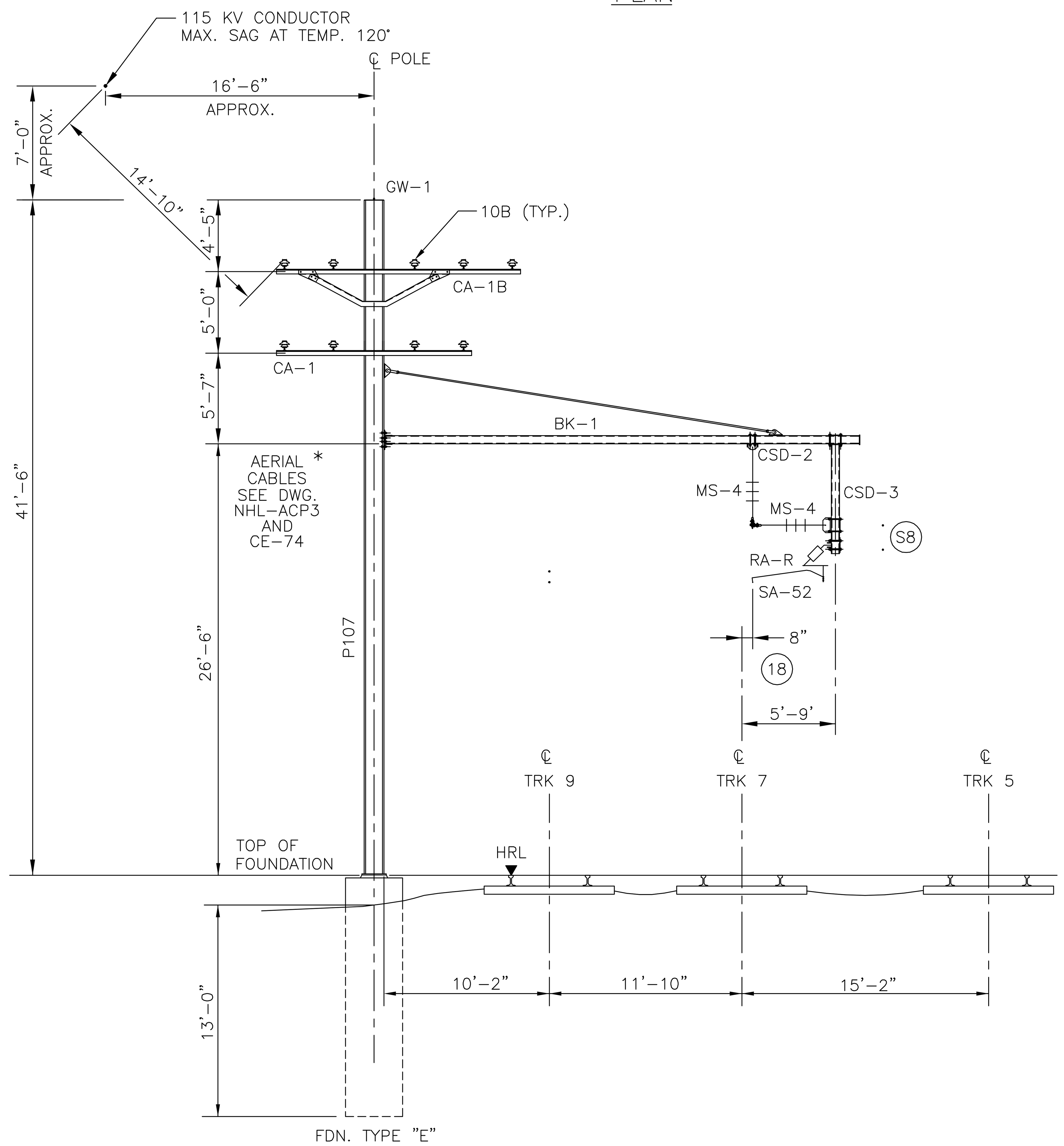
ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-377_BM

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-377_BM.dwg XX% DESIGN

TRACK	7
WIRE No.	18
TAIL/ANCHOR HT.	
MESSENGER HT.	21'-6"
CONTACT HT.	18'-0"
SYSTEM HT. DEPTH	3'-6"

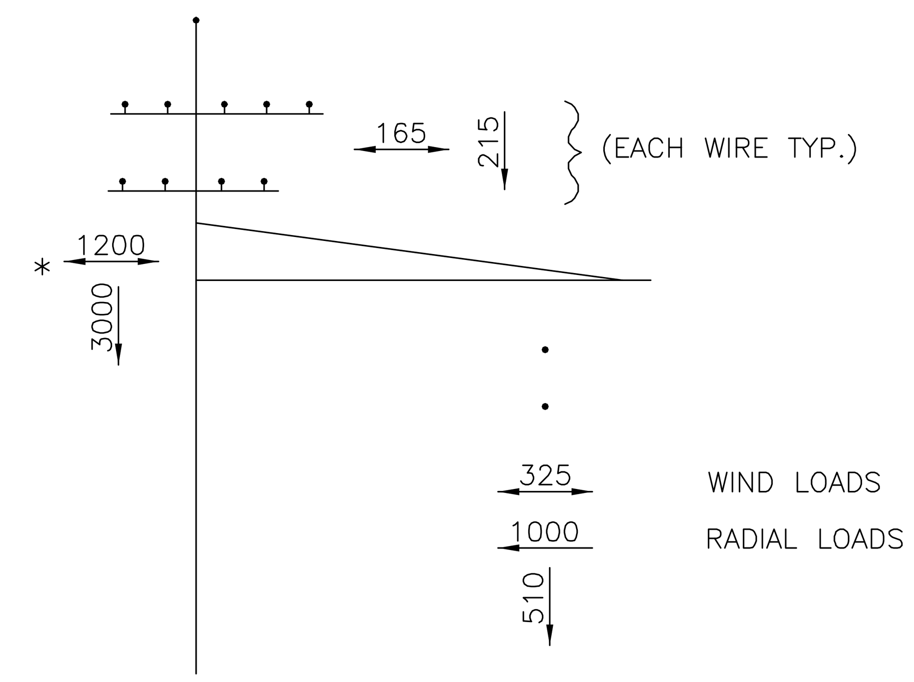


PLAN



ELEVATION

CANTILEVER STRUCTURE 377A
STATION 1098+00
LOOKING EAST



LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	287-1 381

ERECTION DIAGRAM No. 377A

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	TYPE "E"	1
STRUCTURAL STEELWORK & GUYS			
	POLE	P107	1
	CROSS ARM	CA-1	1
	CROSS ARM	CA-1B	1
	BRACKET	BK-1	1
	DETAIL	CSD-2	1
	DETAIL	CSD-3	1
SUPPORT & REGISTRATION ASSEMBLIES			
18	MESSENGER SUPPORT	MS-4	2
18	REGISTRATION ASSEMBLY	RA-R	1
18	STEADY ARM	SA-52	1
IN SPAN ASSEMBLIES			
GROUND WIRE ASSEMBLIES			
	GROUND WIRE ASSEMBLY	GW-1	1
MISCELLANEOUS & SWITCHING			
	PIN INSULATOR ASSEMBLY	10B	9

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.

SCALE: 3/16" = 1'-0"

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION
REVISIONS		

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

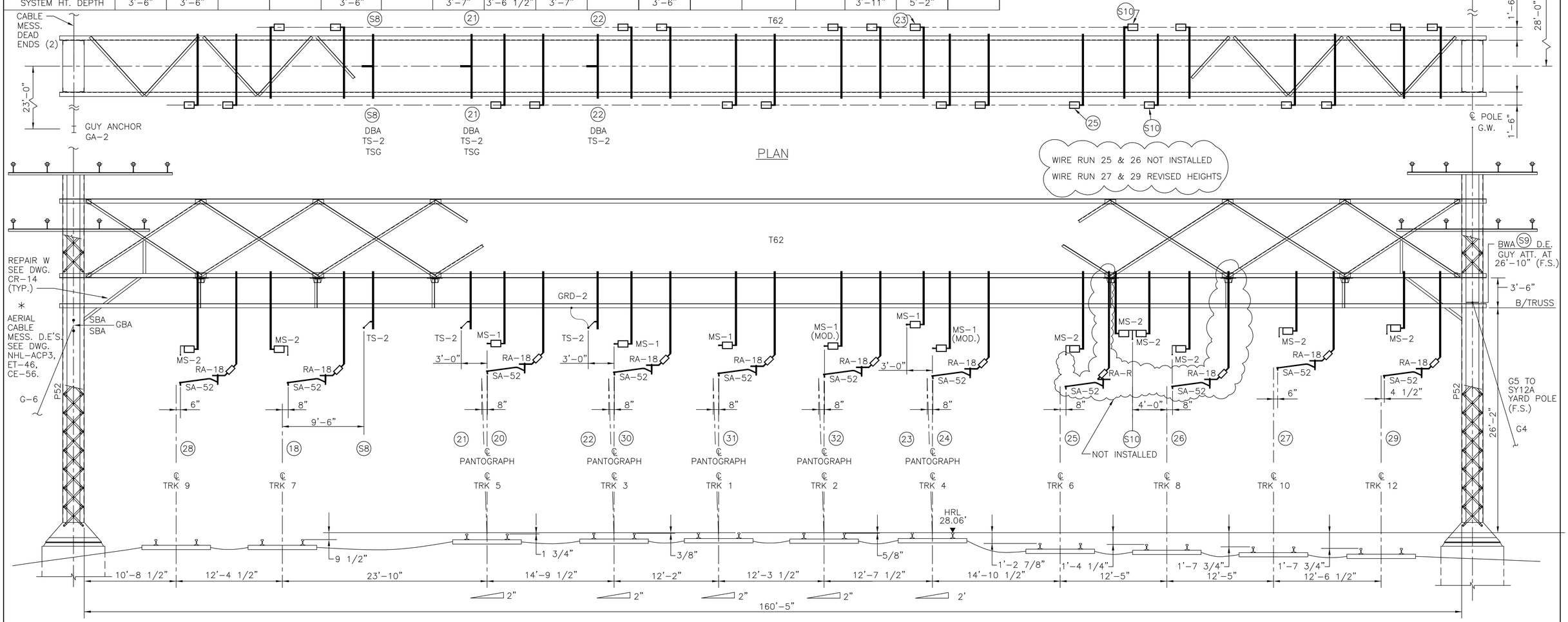
ERECTION DIAGRAM – 377A

ENGINEER: URS CORPORATION AES		
DESIGNER: RW	DRAFTER: AMK	CHECKER: AJM
APPROVED: T. HOLLAND		DATE: XX/XX/XX
STRUCTURE NO.	BRIDGE LOG NO.	STRUCTURE SHEET NO. ED-377A

PROJECT CONTROL DATE: XX/XX/XX
DISK FILENAME: ED-377A.dwg
XX% DESIGN

TRACK	9	7		5		3		1	2	4		6	8		10	12	
WIRE NO.	28	18	S8	21	20	22	30	31	32	23	24	25	S10	26	27	29	S9
TAIL/ANG. HT			TAIL 24'-8"	TAIL 24'-9"		TAIL 24'-9"				TAIL 24'-3"			TAIL 22'-6 1/2"				BWA 26'-10"
MESSENGER HT.	21'-6"	21'-6"			22'-0 1/2"		22'-0"	21'-10"	21'-9"		21'-6"				22'-10"	23'-2"	
CONTACT HT.	18'-0"	18'-0"			18'-6 1/2"		18'-5"	18'-3 1/2"	18'-2"		18'-0"				18'-11"	18'-0"	
SYSTEM HT. DEPTH	3'-6"	3'-6"			3'-6"		3'-7"	3'-6 1/2"	3'-7"		3'-6"				3'-11"	5'-2"	

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	



REPAIR TYPE "W" – MODIFICATION COMPLETED (NORTH AND SOUTH POLES)

ELEVATION

CATENARY STRUCTURE 378 (AS-BUILD CONDITIONS)
STATION 1099+60
LOOKING EAST

SCALE: 3/16" = 1'-0"

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION
	1/26 06	AS BUILT

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

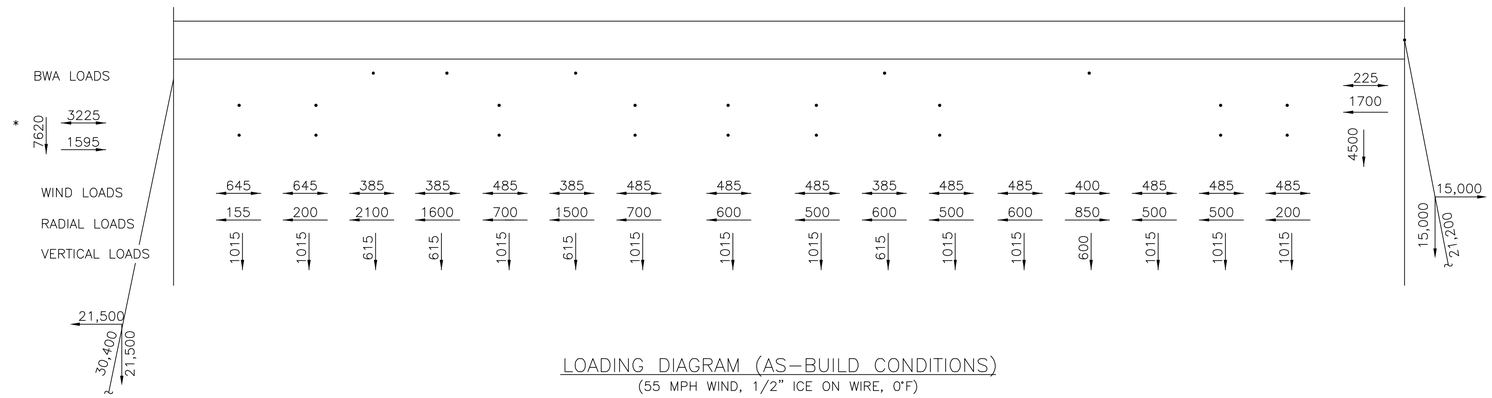
ERECTION DIAGRAM – 378

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-378

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME:ED-378.dwg XX% DESIGN

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 378_BM



LOADING DIAGRAM (AS-BUILD CONDITIONS)
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	EXISTING	
	GUY ANCHOR	GA-2	1
STRUCTURAL STEELWORK & GUYS			
	TRUSS	EXISTING	
	POLE	EXISTING	
	CROSS ARM	EXISTING	
	BALANCE WEIGHT ASSEMBLY	BWA	1
	GUY ASS'Y (378 TO SY12A)	G-5	1
	GUY ASS'Y	G-4	1
	GUY ASS'Y	G-6	1
	DETAIL	SBA	2
	DETAIL	GBA	1
S8,S10(2) 21,22,23	DROP TUBE SUPPORT	DT-U-8B	6
18,20, 24 TO 32	DROP TUBE SUPPORT	DT-U-10A	11
18,28,20,30, 31,32,24	DROP TUBE SUPPORT	DT-U-11A	7
27,29	DROP TUBE SUPPORT	DT-U-13A	2
SUPPORT & REGISTRATION ASSEMBLY			
20 TO 24, 30,31,32	MESSENGER SUPPORT ASSEMBLY	MS-1	6
18,25 TO 29, S10(2)	MESSENGER SUPPORT ASSEMBLY	MS-2	8
28,18,20,30, 31,32,24, 27,29	REGISTRATION ASSEMBLY	RA-18	9
28,18,20,30, 31,32,24, 27,29	STEADY ARM	SA-52	9
IN SPAN ASSEMBLY			
	G.W. ASS'Y	EXISTING	
ALL	CATENARY HANGERS	SEE TABULATION	
23	MID-SPAN INSULATION ASSEMBLY	MIA	1
27,29	SECTION INSULATOR ASSEMBLY	HS-1	2
23/24	POTENTIAL EQUALIZING JUMPER	TYPE "G"	1
S8,21	TERMINATION STRAND SAFETY GRIP	TSG	2
18,20, 24 TO 32	IN-SPAN JUMPER (25 &25 NOT INSTALLED)	TYPE "C"	9
GROUND WIRE ASSEMBLY			
	G.W. ASS'Y	EXISTING	
22	GROUND WIRE ASSEMBLY	GRD-2	1
MISCELLANEOUS & SWITCHING			
	FEEDER WIRE ASS'YS	EXISTING	

NOTE

1. FOR GENERAL NOTES, SEE DRAWING G-8.

SCALE: NONE

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION
	1/26 06	AS BUILT

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

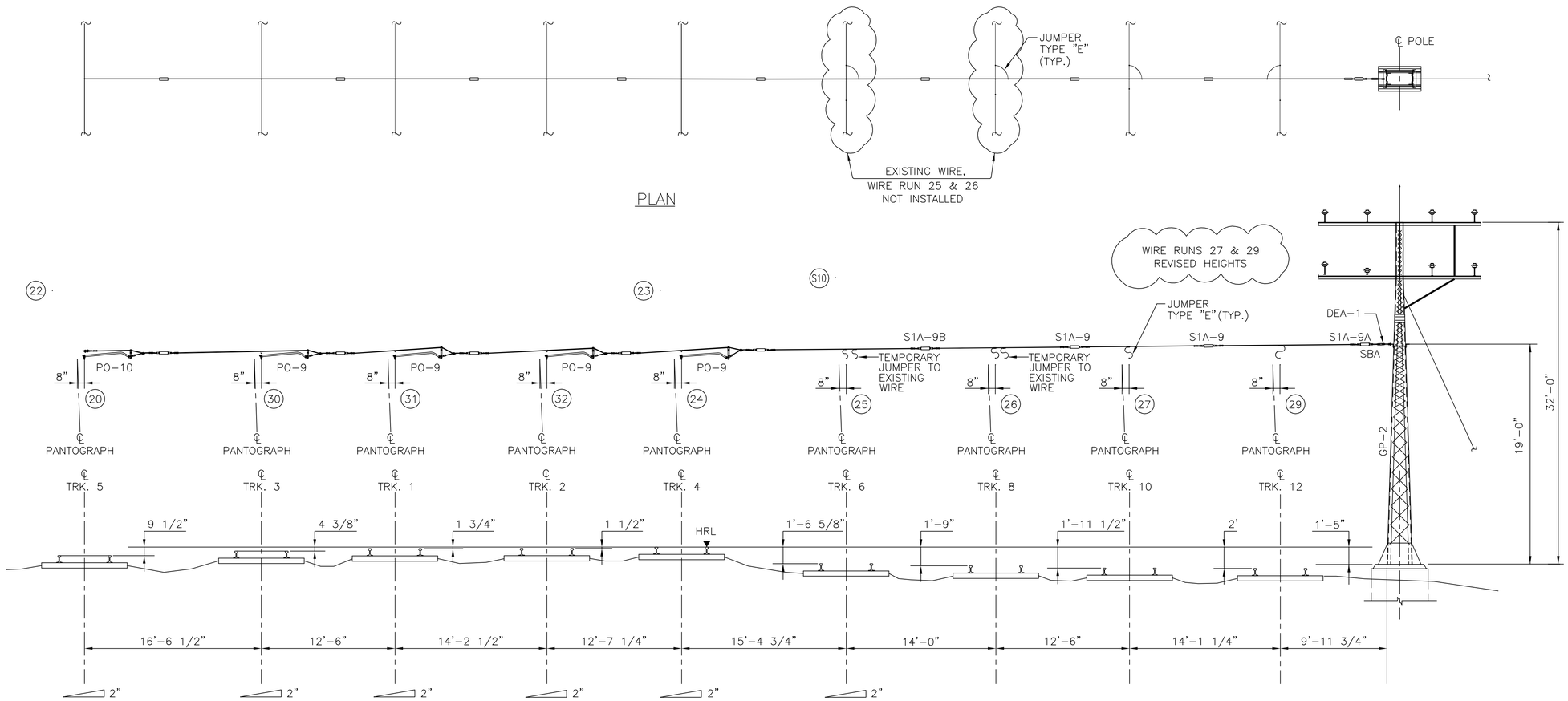
ERECTION DIAGRAM – 378

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-378_BM

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-378_BM.dwg XX% DESIGN

TRACK	5	3	1	2	4	6	8	10	12
WIRE NO.									
TAIL/ANCHOR HT.									
MESSENGER HT.									
CONTACT HT.									
SYSTEM HT. DEPTH									

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	



ELEVATION

PULL OFF STRUCTURE 378X (AS-BUILD CONDITIONS)
STATION 1101+15
LOOKING EAST

SCALE: 3/16" = 1'-0"

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URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION
	1/26/06	AS BUILT

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 378X

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-378X

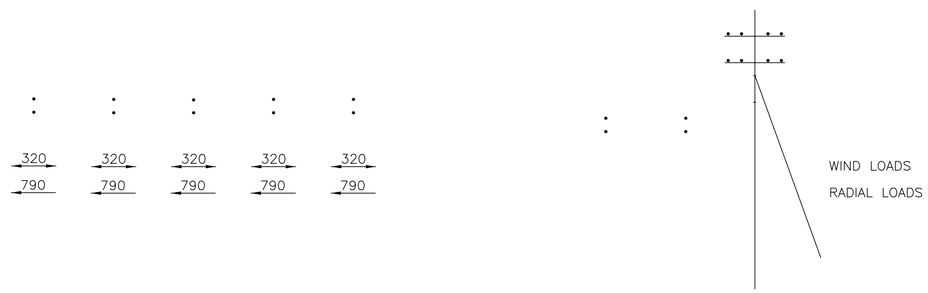
PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-378X.dwg XX% DESIGN

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 378X_BM

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	EXISTING	
STRUCTURAL STEELWORK & GUYS			
	POLE GP-2	EXISTING	
	CROSS ARMS	EXISTING	
	GUY WIRE	EXISTING	
	DETAIL	SBA	1
SUPPORT & REGISTRATION ASSEMBLY			
30,31,32,24	PULL OFF ASSEMBLY	PO-9	4
20	PULL OFF ASSEMBLY	PO-10	1
26,27	INSULATOR ASSEMBLY	S1A-9	2
29	INSULATOR ASSEMBLY	S1A-9A	1
25	INSULATOR ASSEMBLY	S1A-9B	1
	DEAD END ASSEMBLY	DEA-1	1
27,29	POTENTIAL EQUALIZING JUMPER	TYPE "E"	2
IN SPAN ASSEMBLY			
GROUND WIRE ASSEMBLY			
	GROUND WIRE ASS'YS	EXISTING	
MISCELLANEOUS & SWITCHING			
	FEEDER WIRE ASS'YS	EXISTING	



CATENARY LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.

SCALE: NONE

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
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ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

BILL OF MATERIAL & LOADING DIAGRAM FOR ERECTION DIAGRAM – 378X

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-378X_BM

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-378X_BM.dwg XX% DESIGN

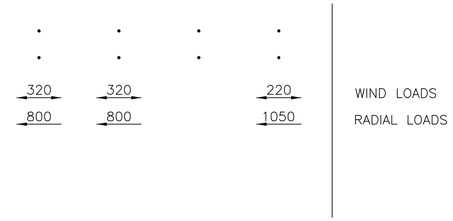
TRACK	6	8	10	12
CABLE No.				
TAIL/ANCHOR HT.				
MESSENGER HT.				
CONTACT HT.				
SYSTEM HT. DEPTH				

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

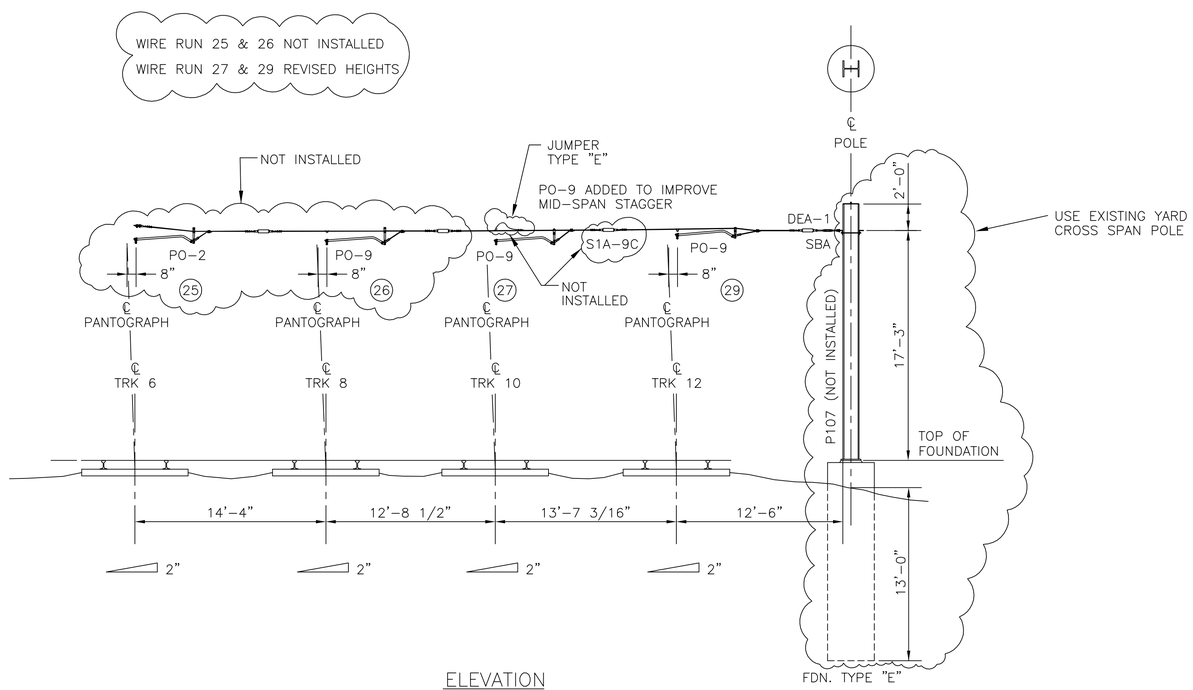
ERECTION DIAGRAM No. 378XA

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	TYPE "E"	1
STRUCTURAL STEELWORK & GUYS			
	POLE DETAIL	EXISTING SBA	1
SUPPORT & REGISTRATION ASSEMBLIES			
27,29	PULL OFF ASSEMBLY	PO-9	2
	DEAD END ASSEMBLY	DEA-1	1
IN SPAN ASSEMBLIES			
GROUND WIRE ASSEMBLIES			
	GROUND WIRE ASSEMBLY	GW-GRD-1	EXIST.
MISCELLANEOUS & SWITCHING			



LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)



ELEVATION

PULL OFF STRUCTURE 378XA (AS-BUILD CONDITIONS)
STATION 1101+52
LOOKING EAST

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.

SCALE: 3/16" = 1'-0"

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URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION
	1/26 06	AS BUILT

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 378XA

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-378XA

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-378XA.dwg XX% DESIGN

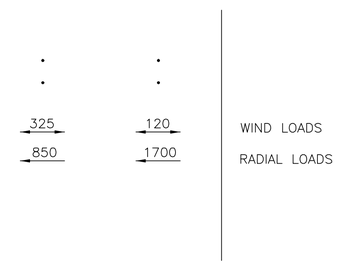
TRACK				
WIRE NO.				
TAIL/ANCHOR HT.				
MESSENGER HT.				
CONTACT HT.				
SYSTEM HT. DEPTH				

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

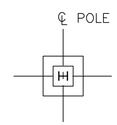
ERECTION DIAGRAM No. 378XX

BILL OF MATERIALS

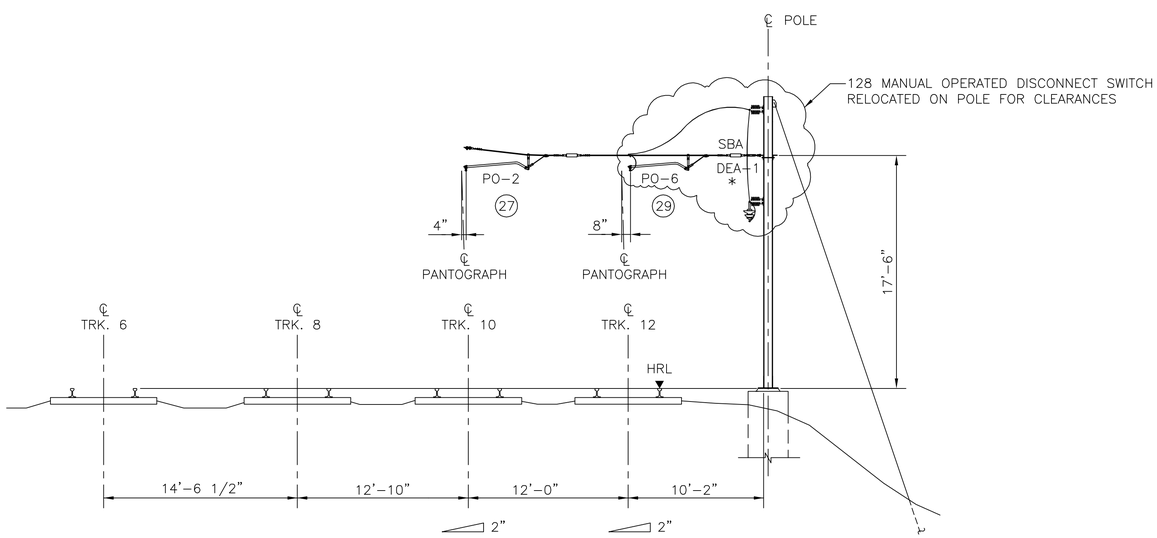
WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	EXISTING	
	GUY ANCHOR	EXISTING	
STRUCTURAL STEELWORK & GUYS			
	POLE (MN POLE #90)	EXISTING	
	GUY ASSEMBLY	EXISTING	
	DETAIL	SBA	1
SUPPORT & REGISTRATION ASSEMBLIES			
27	PULL-OFF ASSEMBLY	PO-2	1
29	PULL-OFF ASSEMBLY	PO-6	1
	DEAD END ASSEMBLY	DEA-1	1
IN SPAN ASSEMBLIES			
GROUND WIRE ASSEMBLIES			
	G.W. ASSEMBLY	EXISTING	
MISCELLANEOUS & SWITCHING			
29	B500C CATENARY FEEDING JUMPER	B-500C	2



CATENARY LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)



PLAN



ELEVATION

PULL OFF STRUCTURE 378XX(90) (AS-BUILD CONDITIONS)
STATION 1101+98
LOOKING EAST

NOTES

1. EXISTING PULL-OFF POLE WAS FORMERLY STRUCTURE 90 AND IS NOW DESIGNATED 378XX TO MATCH SEQUENCE.
2. * OMIT TURNBUCKLE IF NECESSARY.
3. FOR GENERAL NOTES, SEE DRAWING G-8.

SCALE: 3/16" = 1'-0"

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URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION
	1/26 06	AS BUILT

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

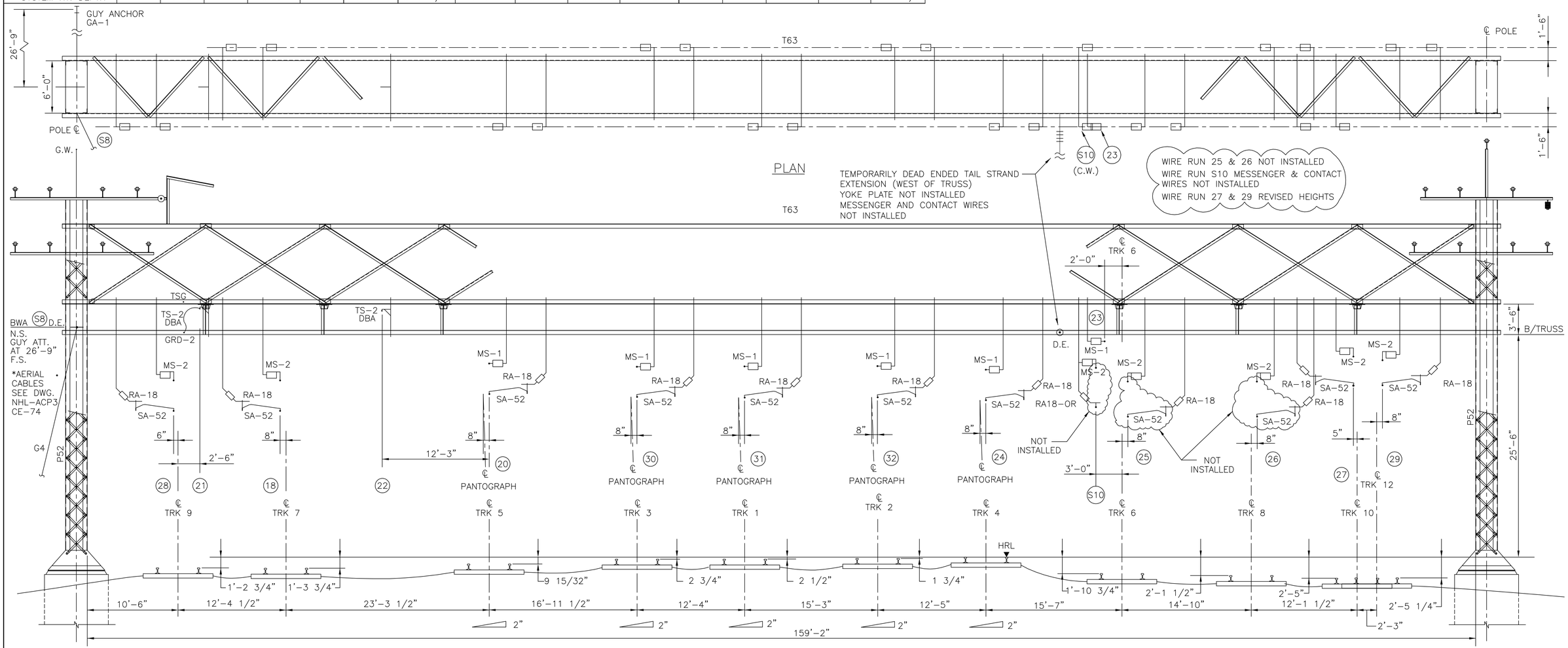
ERECTION DIAGRAM – 378XX

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-378XX

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-378XX.dwg XX% DESIGN

TRACK	9			7	5		3	1	2	4	6			8	10	12
WIRE NO.	S8	28	21	18	22	20	30	31	32	24	S10	23	25	26	27	29
TAIL/ANG. HT	BWA 26'-9"		TAIL 28'-6"		TAIL 28'-3"							TAIL 24'-9"				
MESSENGER HT.		21'-6"		21'-6"		22'-2 1/2"	21'-10"	21'-10 1/2"	21'-11"	21'-6"	21'-8 1/2"				23'-0"	22'-7"
CONTACT HT.		18'-0"		18'-0"		18'-8 1/2"	18'-4 1/2"	18'-3 1/2"	18'-4"	18'-0"	17'-2 1/2"				19'-8"	19'-8 1/2"
SYSTEM HT. DEPTH		3'-6"		3'-6"		3'-6"	3'-5 1/2"	3'-7"	3'-7"	3'-6"	4'-6"				3'-4"	2'-10 1/2"

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	



ELEVATION

CATENARY STRUCTURE 379
STATION 1102+61
LOOKING EAST

SCALE: 3/16" = 1'-0"

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 379

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-379

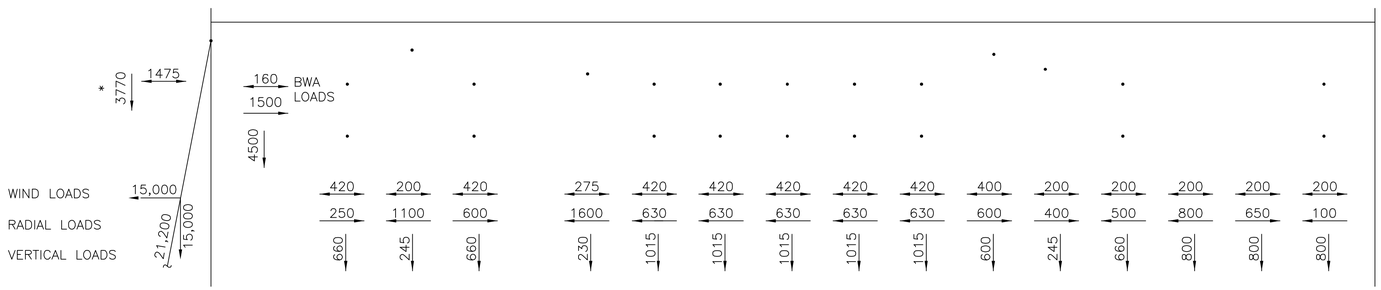
PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-379.dwg XX% DESIGN

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 379_BM

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	EXISTING	
	GUY ANCHOR	GA-1	1
STRUCTURAL STEELWORK & GUYS			
	TRUSS	EXISTING	
	POLE	EXISTING	
	CROSS ARMS	EXISTING	
	BALANCE WEIGHT ASS'Y	BWA	1
	GUY ASS'Y	G-4	1
21,22	DETAIL	DBA	2
22,23	DROP TUBE SUPPORT	DT-U-8B	2
20,30,31,32, 24,18,28	DROP TUBE SUPPORT	DT-U-10A	7
25,26,27,29 28,18,20,30 31,32,24	DROP TUBE SUPPORT	DT-U-11A	11
25,26,27,29	DROP TUBE SUPPORT	DT-U-13A	4
S10/S10	DROP TUBE SUPPORT	DT-2U-13A	1
SUPPORT & REGISTRATION ASSEMBLY			
20,30,31, 32,24,23	MESSENGER SUPPORT	MS-1	6
28,18,S10,25 26,27,29	MESSENGER SUPPORT	MS-2	7
18,20,24 TO 32	REGISTRATION ASS'Y	RA-18	11
S10	REGISTRATION ASS'Y	RA18-OR	1
27,18,20,24, 28 TO 32	STEADY ARM	SA-52	9
21,22	TAIL WIRE SUPPORT ASSEMBLY	TS-2	2
IN SPAN ASSEMBLY			
18	SECTION INSULATOR ASSEMBLY	LS-1 (MOVED TO 379A)	0
23(2),	MID-SPAN INSULATION ASSEMBLY	MIA	2
27/29, S10/25	CROSS CONTACT BRIDGE ASSEMBLY	CBA-10	1
27/29	FULL LOAD FEEDING JUMPER	TYPE 'A'	1
28,18,20,30, 31,32,24	IN-SPAN JUMPER	TYPE 'C'	7
ALL	CATENARY HANGERS	SEE TABULATION	
21	TERMINATION STRAND SAFTEY GRIP ASS'Y	TSG	1
GROUND WIRE ASSEMBLY			
21,22	GROUND WIRE ASEMBLY GROUNDING ASSEMBLY	EXISTING GRD-2	2
MISCELLANEOUS & SWITCHING			
	FEEDER WIRE ASSEMBLY	EXISTING	



LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.

SCALE: NONE

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URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

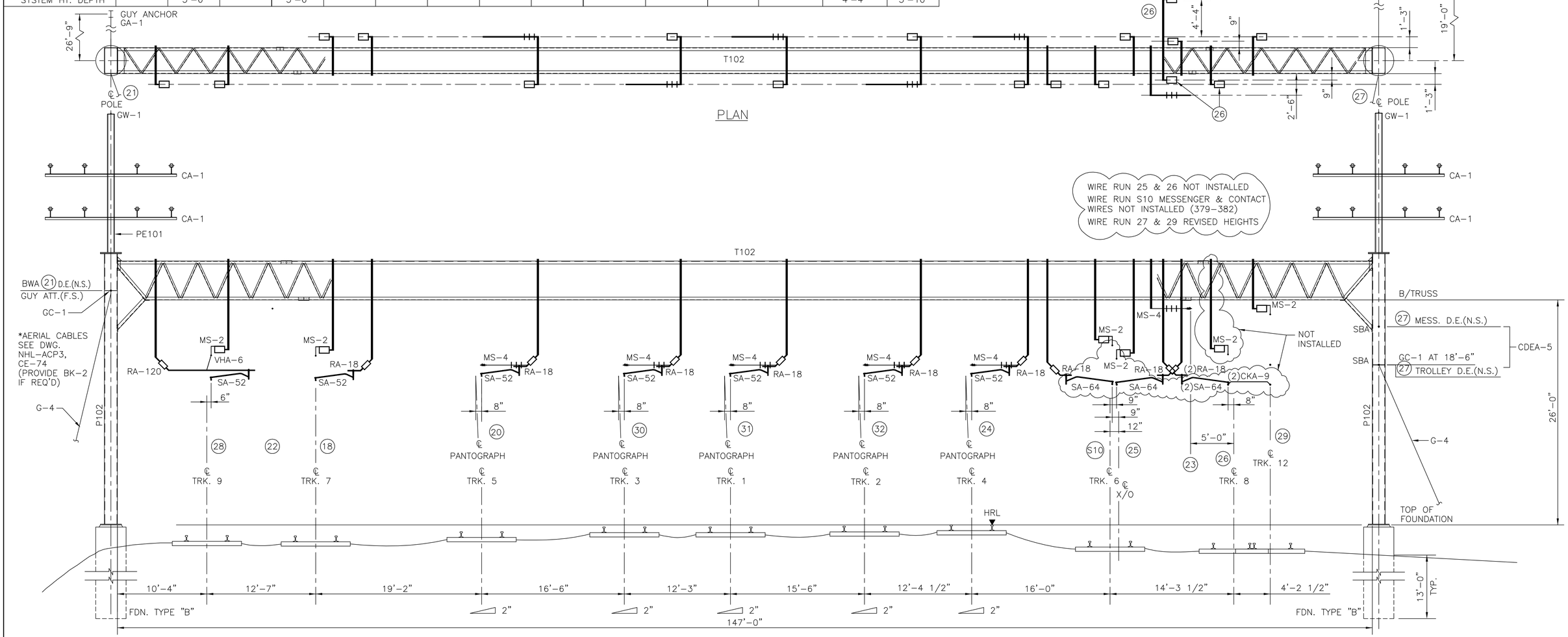
BILL OF MATERIALS & LOADING DIAGRAM FOR ERECTION DIAGRAM – 379

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-379_BM

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-379_BM.dwg XX% DESIGN

TRACK	9		7		5	3	1	2	4	6		8		12	
WIRE NO.	21	28	22	18	20	30	31	32	24	S10	25	23	26	29	27
TAIL./ANCHOR HT.	BWA 27'-1"		NSR									TAIL/NS			FA
MESSENGER HT.		21'-6"		21'-6"	NS	NS	NS	NS	NS					22'-11"	24'-4"
CONTACT HT.		18'-0"		18'-0"										18'-6"	20'-6"
SYSTEM HT. DEPTH		3'-6"		3'-6"										4'-4"	3'-10"

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	



ELEVATION

CATENARY STRUCTURE 379A (AS-BUILD CONDITIONS)
STATION 1103+51
LOOKING EAST

SCALE: 3/16" = 1'-0"

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION
	1/30 06	AS BUILT

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 379A

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-379A

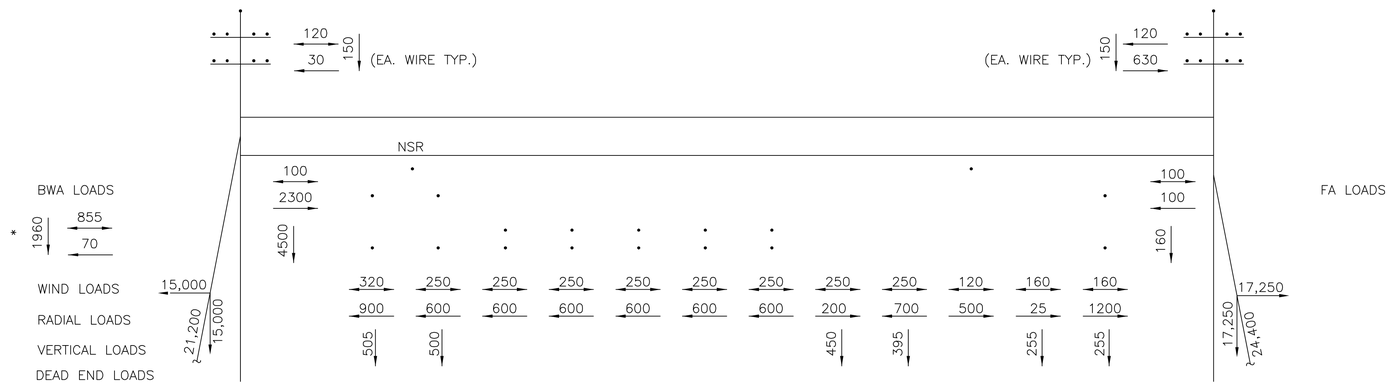
PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME:ED-379A.dwg XX% DESIGN

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 379A_BM

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	TYPE "B"	2
	GUY ANCHOR	GA-1	2
STRUCTURAL STEELWORK & GUYS			
	TRUSS	T102	1
	POLE	P102	2
	CROSS ARMS	CA-1	4
	POLE EXTENSION	PE101	2
	BALANCE WEIGHT ASSEMBLY	BWA	1
	DETAIL	GC-1	2
	DETAIL	SBA	2
	GUY ASSEMBLY	G-4	2
23	DROP TUBE SUPPORT	DT2-U-8	1
S10,28,18	DROP TUBE SUPPORT	DT2-U-11	3
25,29	DROP TUBE SUPPORT	DT2-U-13	4
28,18 20,30,31, 32,24	DROP TUBE SUPPORT	DT2-2U-13	5
S10,25	DROP TUBE SUPPORT	DT2-U-14	2
26/26	DROP TUBE SUPPORT	DT2-2U-14	1
SUPPORT & REGISTRATION ASSEMBLY			
20,23,30,31, 32,24	MESSENGER SUPPORT	MS-4	6
28,18,S10, 25,29	MESSENGER SUPPORT	MS-2	5
18,20,30,31, 32,24,S10, 25,26(2)	REGISTRATION ASSEMBLY	RA-18	10
28	REGISTRATION ASSEMBLY	RA-120	1
28,18,20,30, 31,32,24,	STEADY ARM	SA-52	7
IN SPAN ASSEMBLY			
ALL	CATENARY HANGERS	SEE TABULATION	
27	CATENARY DEAD END ASSEMBLY	CDEA-5	1
28	VEE HANGER	VHA-6	1
S18	SECTION INSULATOR ASSEMBLY	LS-1	1
23(2)	MID-SPAN INSULATION ASSEMBLY	MIA	2
23/YARD L1	POTENTIAL EQUALIZING JUMPER	TYPE 'G'	1
GROUND WIRE ASSEMBLY			
	GROUND WIRE ASSEMBLY	GW-1	2
MISCELLANEOUS & SWITCHING			
	PIN INSULATOR ASSEMBLY	10B	16



LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.

SCALE: NONE

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

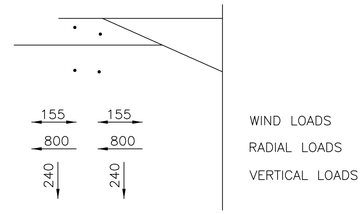
STAMFORD YARD CATENARY IMPROVEMENTS

BILL OF MATERIAL & LOADING DIAGRAM FOR ERECTION DIAGRAM – 379A

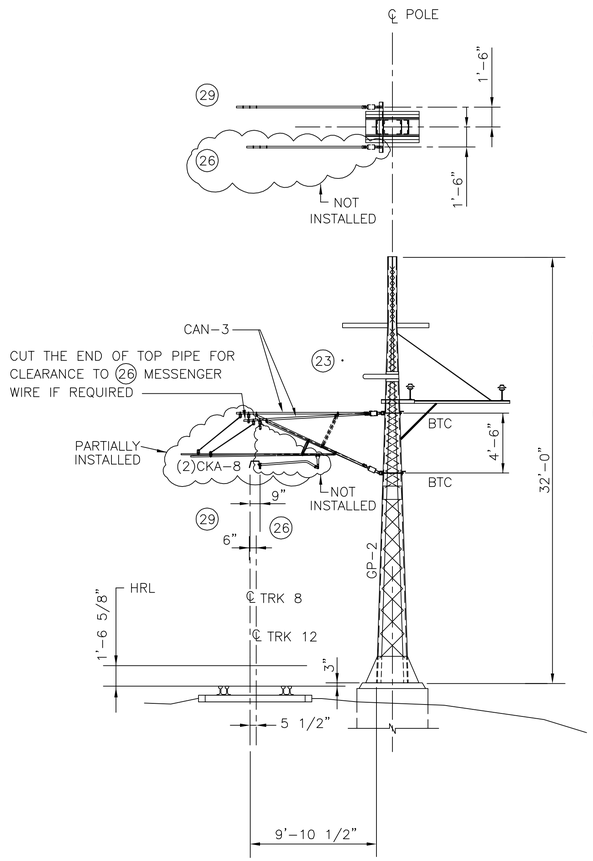
ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-379A_BM

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-379A_BM.dwg XX% DESIGN

TRACK	8	
WIRE NO.	29	26
MESSENGER HT.	24'–0"	
CONTACT HT.	20'–6"	
SYSTEM HT. DEPTH	4'–6"	



CATENARY LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)



ELEVATION

CANTILEVER STRUCTURE 379X
STATION 1104+10
LOOKING EAST

29 CAN–3 ASSEMBLY INSTALLED PARTIAL HORIZONTAL TUBE (LOWER) AND STEADY ARM OMITTED, CK–8 IS OMITTED, CONTACT WIRE NOT REGISTERED.

WIRE RUN 26 NOT INSTALLED

NOTES

1. EXISTING STRUCTURE DESIGNATED 379X. IN THIS CASE THE SUFFIX "X" DOES NOT INDICATE PULL–OFF.
2. FOR GENERAL NOTES, SEE DRAWING G–8.

SCALE: 3/16" = 1'–0"

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
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NO.	DATE	DESCRIPTION

REVISIONS

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301–163	2014	

ERECTION DIAGRAM No. 379X

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	EXISTING	
STRUCTURAL STEELWORK & GUYS			
	POLE GP–2 CROSS ARMS DETAIL	EXISTING EXISTING BTC	2
SUPPORT & REGISTRATION ASSEMBLIES			
29	PULL–OFF SINGLE TRACK CANTILEVER ASSEMBLY	CAN–3	1
IN SPAN ASSEMBLIES			
GROUND WIRE ASSEMBLIES			
MISCELLANEOUS & SWITCHING			
	FEEDER WIRE ASSEMBLY	EXISTING	

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

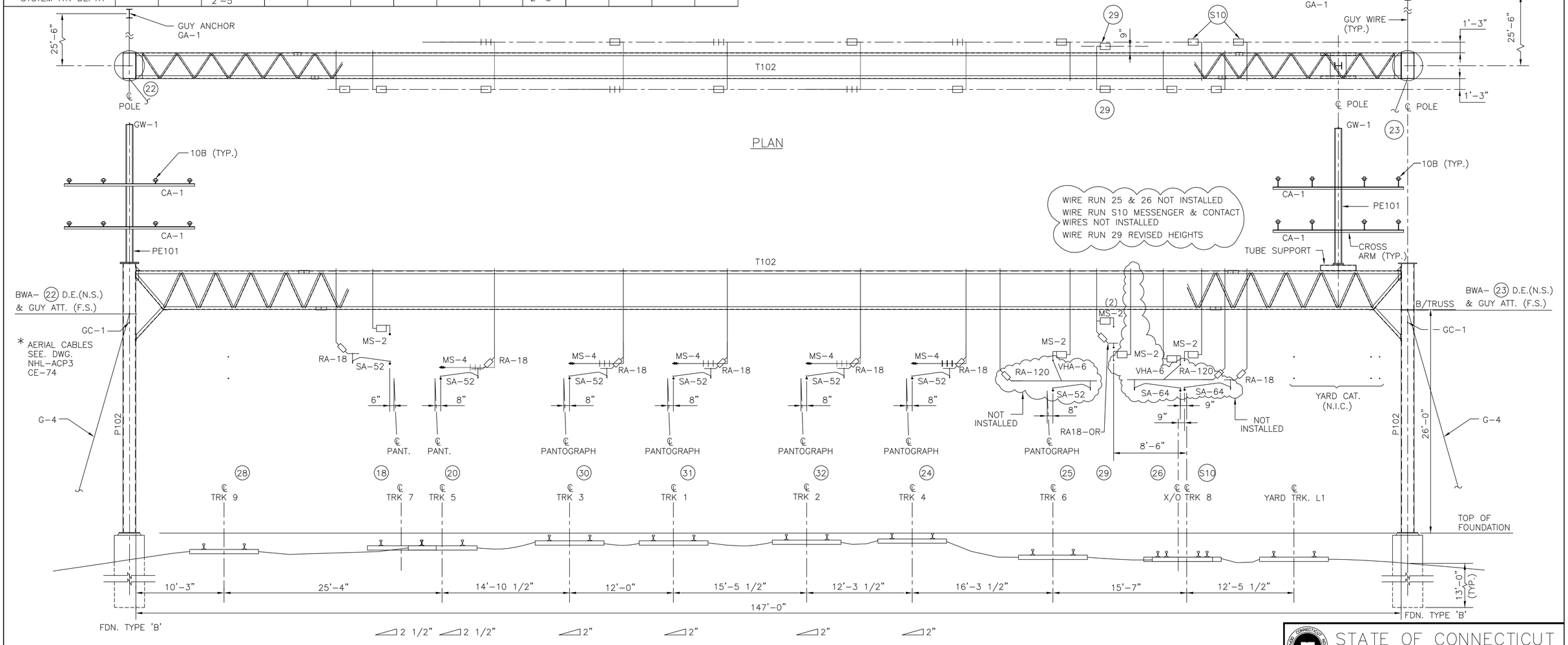
ERECTION DIAGRAM – 379X

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED–379X

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED–379X.dwg XX% DESIGN

TRACK	9		7	5	3	1	2	4	6	8			YARD L1	
WIRE NO.	22	28	18	20	30	31	32	24	25	29	26	S10	NIC	23
TAIL/ANC. HT.	BWA 25'-6"													BWA 25'-6"
MESSENGER HT.		NSR	23'-1 1/2"	NS	NS	NS	NS	NS		24'-0"				
CONTACT HT.		NSR	19 '-8 1/2"							21'-7"				
SYSTEM HT. DEPTH			2'-5"							2'-5"				

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	



CATENARY STRUCTURE 379B
STATION 1104+93
LOOKING EAST

SCALE: 3/16" = 1'-0"

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URS CORPORATION AES
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1-(860)-529-8882

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 379B

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-379B

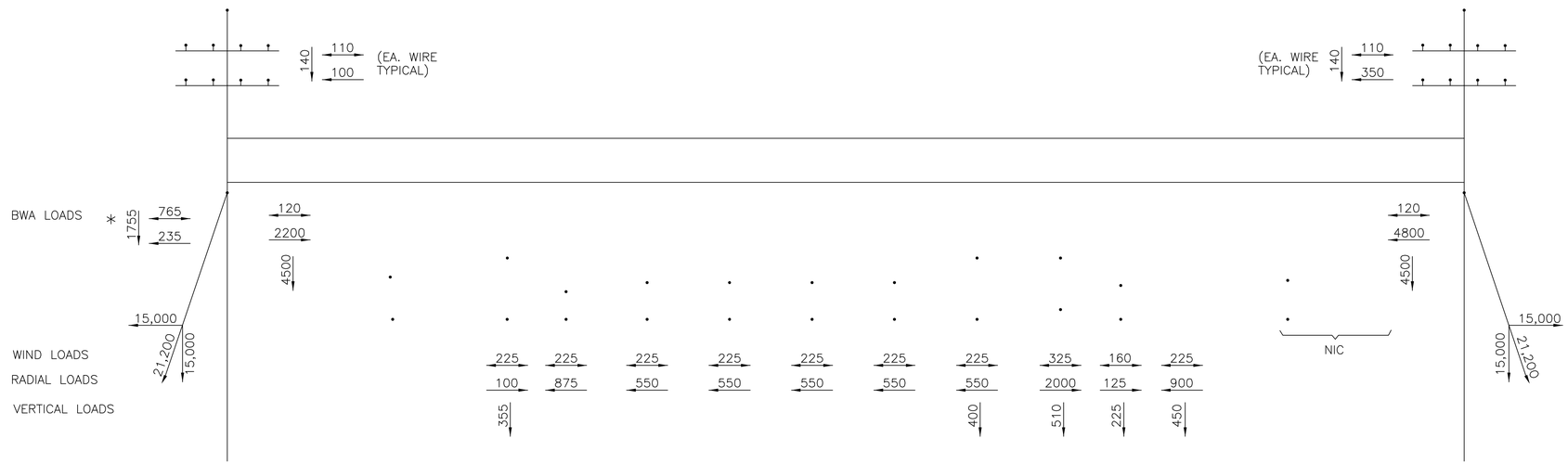
PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-379B.dwg XX% DESIGN

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 379B_BM

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	TYPE 'B'	2
	GUY ANCHOR	GA-1	2
STRUCTURAL STEELWORK & GUYS			
	TRUSS	T102	1
	POLE	P102	2
	CROSS ARMS	CA-1	4
	POLE EXTENSION	PE101	2
	BALANCED WEIGHT ASSEMBLY (SEE NOTE 2)	BWA	2
	GUY ASSEMBLY	G-4	2
18	DROP TUBE SUPPORT	DT2-U-11	1
18,25,26, S10	DROP TUBE SUPPORT	DT2-U-13	4
S10,25,26	DROP TUBE SUPPORT	DT2-U-14	3
20,30,31 32,34	DROP TUBE SUPPORT	DT2-2U-13	5
29	DROP TUBE SUPPORT	DT2-2U-14	1
SUPPORT & REGISTRATION ASSEMBLY			
20,30,31, 32,24	MESSENGER SUPPORT	MS-4	5
18,25,29 26,S10	MESSENGER SUPPORT	MS-2	5
18,20,30,31, 32,24,S10	REGISTRATION ASSEMBLY	RA-18	7
29	REGISTRATION ASSEMBLY	RA18-OR	1
18,20,30,31, 32,24	STEADY ARM	SA-52	6
IN SPAN ASSEMBLY			
ALL	CATENARY HANGERS	SEE TABULATION	
18/20	FULL LOAD FEEDING JUMPER	TYPE 'A'	1
18/20	CROSS CONTACT BRIDGE ASSEMBLY	CBA-10	1
29	CATENARY DEAD END ASSEMBLY	CDEA-5	1
GROUND WIRE ASSEMBLY			
	GROUND WIRE ASSEMBLY	GW-1	2
MISCELLANEOUS & SWITCHING			
	PIN INSULATOR ASSEMBLY	10B	16



LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)

WIRE RUN 26 SECTION INSULATOR ELIMINATED FROM ALL PROJECT WORK AT THIS LOCATION

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.
2. WIRE RUN 23 – REPLACE YOKE PLATE INSULATORS WITH LINKS (CAT. 377 TO CAT. 378).

SCALE: NONE

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URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

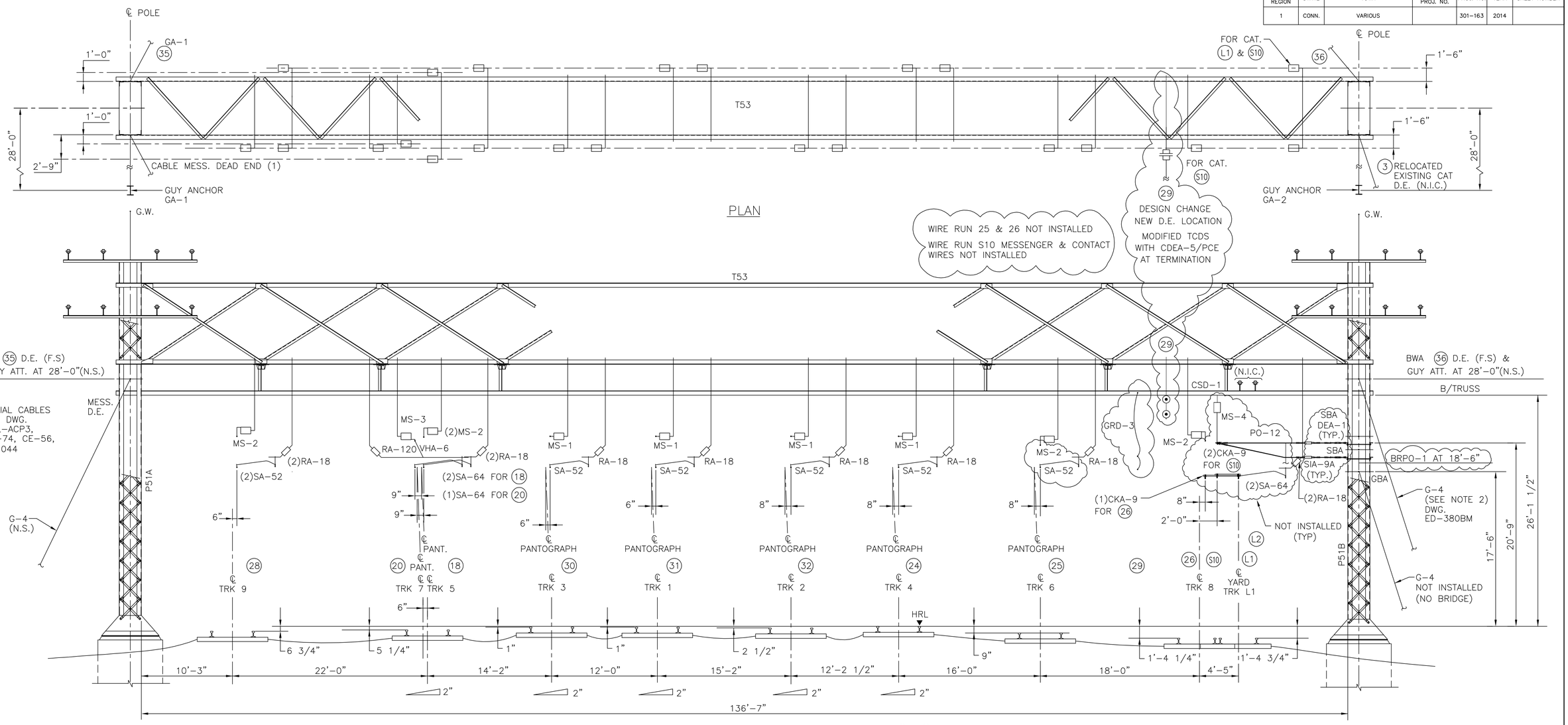
STAMFORD YARD CATENARY IMPROVEMENTS

BILL OF MATERIALS & LOADING DIAGRAM FOR ERECTION DIAGRAM – 379B

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-379B_BM

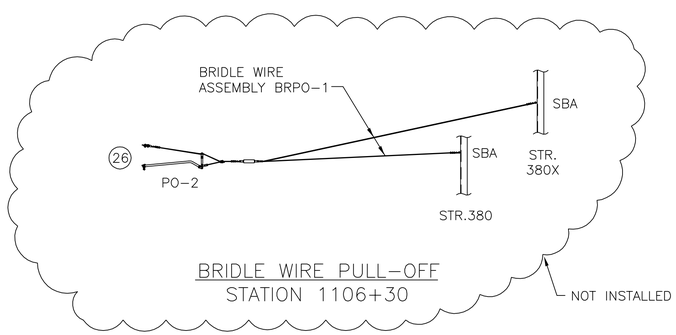
PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-379B_BM.dwg XX% DESIGN

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	



NOTES:

1. THE EXISTING HOOK STICK SECTIONALIZING SWITCH MOUNTED OVER TRACK 6 TO BE RECONNECTED TO THE NEW CATENARIES. REFER TO DWG. CL-34.
2. MODIFY & LOWER CATENARIES FROM STAMFORD YARD BY OTHERS (N.I.C.)
3. USE 64" PULL-OFF ARM FOR PO-12 AND ADD PARTS 17, 58 AND 60.



BRIDLE WIRE PULL-OFF
STATION 1106+30

ELEVATION

CATENARY STRUCTURE 380
STATION 1105+59
LOOKING EAST

SCALE: 3/16" = 1'-0"

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URS
URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

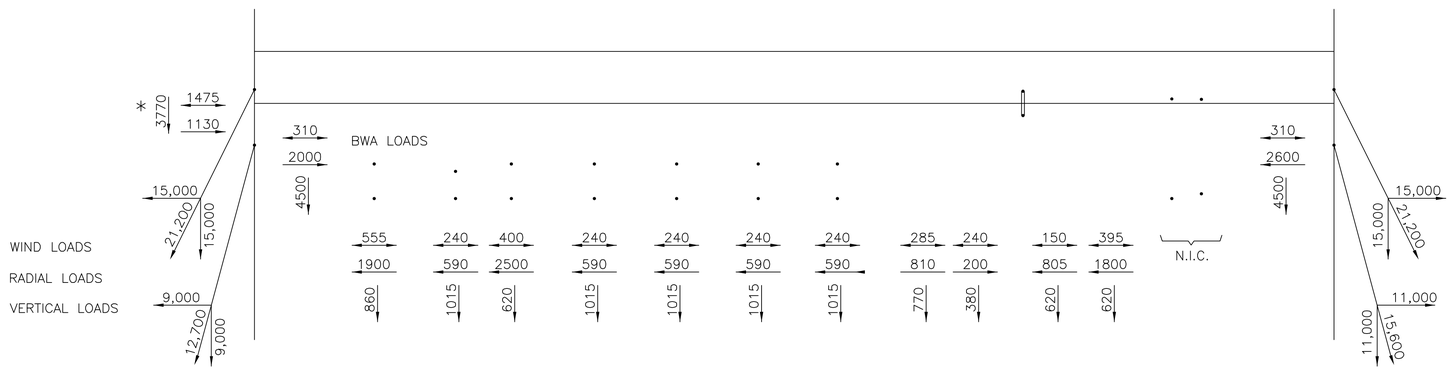
STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 380

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-380

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-380.dwg XX% DESIGN

TRACK	9		5		3	1	2	4	6	8			YARD L1	
WIRE NO.	35	28	20	18	30	31	32	24	25	29	26	S10	N.I.C.	36
TAIL/ANC. HT	BWA 28'-9"									DEAD END				BWA 31'-8"
MESSENGER HT.		22'-2"	21'-3 1/2"	21'-6"	21'-6"	21'-6"	21'-6"	21'-6"		26'-2 1/2"				
CONTACT HT.		18'-4"	18'-3 1/2"	18'-1"	18'-0"	18'-0"	18'-0"	18'-0"		24'-5 1/2"				
SYSTEM DEPTH HT.		3'-10"	3'-0"	3'-5"	3'-6"	3'-6"	3'-6"	3'-6"		1'-9"				



CATENARY LOADING DIAGRAM

(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 380_BM

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	EXISTING	
	GUY ANCHOR	GA-1	1
	GUY ANCHOR	GA-2	1
STRUCTURAL STEELWORK & GUYS			
	TRUSS T53	EXISTING	
	POLE P51A	EXISTING	
	POLE P51B	EXISTING	
	CROSS ARMS	EXISTING	
35,36	BALANCED WEIGHT ASSEMBLY	BWA	2
	GUY ASSEMBLY	G-4	2
	DETAIL	SBA	4
	DETAIL	GBA	2
20,26,28	DROP TUBE SUPPORT	DT-U-10A	3
20,30(2), 31(2),32(2), 24(2)	DROP TUBE SUPPORT	DT-U-11A	9
25	DROP TUBE SUPPORT	DT-U-13A	1
18	DROP TUBE SUPPORT	DT-2U-10A	1
28,18	DROP TUBE SUPPORT	DT-2U-11A	2
L1,L2,S10,26	DROP TUBE SUPPORT	DT-2U-13A	1
SUPPORT & REGISTRATION ASSEMBLY			
24,30,31,32	MESSENGER SUPPORT	MS-1	4
28,18(2),25,26	MESSENGER SUPPORT	MS-2	5
20	MESSENGER SUPPORT	MS-3	1
18(2),28(2), 30,31,32,24, 25,S10(2)	REGISTRATION ASSEMBLY	RA-18	11
20	REGISTRATION ASSEMBLY	RA-120	1
32,24	STEADY ARM	SA-52	6
28(2),30,31, 18(2),20	STEADY ARM	SA-64	3
	DETAIL	TCDS(MODIFIED)	1
IN SPAN ASSEMBLY			
ALL	CATENARY HANGERS	SEE TABULATION	
20	VEE HANGER	VHA-6	1
24,30,31,32	IN-SPAN JUMPER	TYPE "C"	4
28	IN-SPAN INSULATION ASSEMBLY	MCIA-1	1
18	MID-SPAN INSULATION ASSEMBLY	MIA	1
GROUND WIRE ASSEMBLY			
MISCELLANEOUS & SWITCHING			
	FEEDER WIRE ASSEMBLY	EXISTING	

NOTES

1. BRIDLE WIRE PULL-OFF AT STATION 1106+30.
2. PROVIDE SHACKLE AT END OF GUY ASSEMBLY TO RECEIVE ONE MORE GUY TO CONNECT AT SAME ANCHOR.
3. FOR GENERAL NOTES, SEE DRAWING C-8.
4. REMOVE POST SUSPENDED FROM BOTTOM CHORD.

SCALE: N.T.S.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

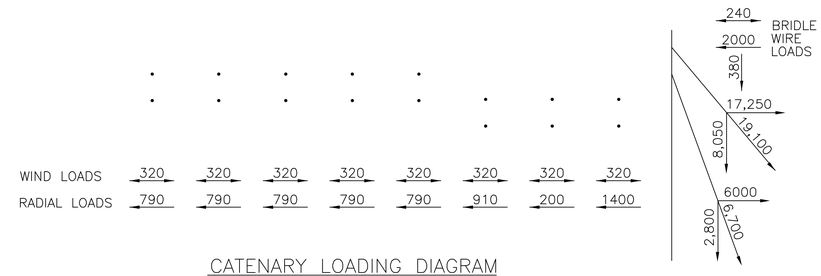
STAMFORD YARD CATENARY IMPROVEMENTS

BILL OF MATERIALS & LOADING DIAGRAM FOR ERECTION DIAGRAM – 380

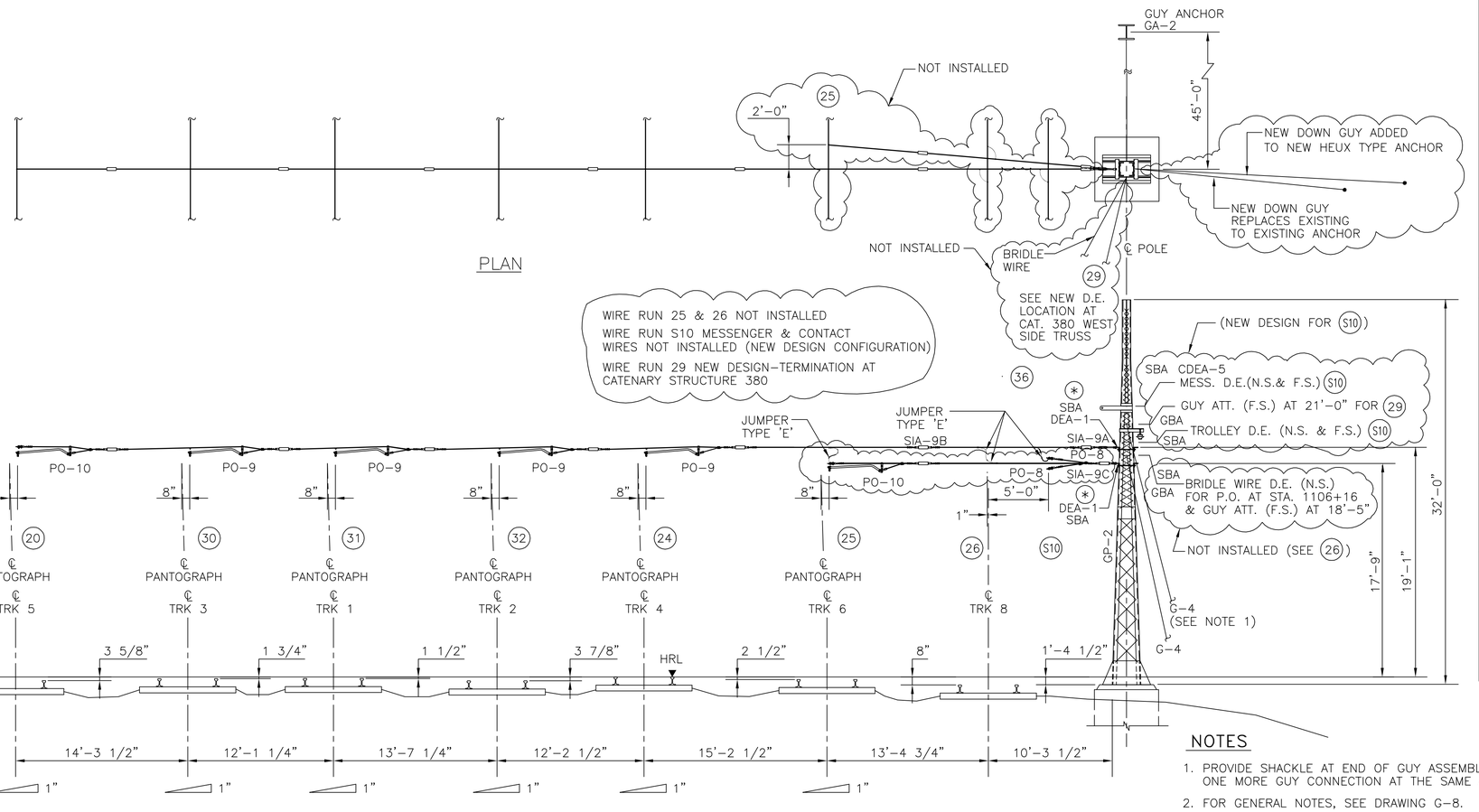
ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-380_BM

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-380_BM.dwg XX% DESIGN

TRACK	5	3	1	2	4	6	8			
WIRE NO.	20	30	31	32	24	25	S10	26		29
TAIL/ANCHOR HT.									BRIDLE D.E.	FA
MESSENGER HT.										
CONTACT HT.										
SYSTEM HT. DEPTH										



CATENARY LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)



PLAN

ELEVATION

PULL OFF STRUCTURE 380X
STATION 1107+17
LOOKING EAST

NOTES

1. PROVIDE SHACKLE AT END OF GUY ASSEMBLY TO RECEIVE ONE MORE GUY CONNECTION AT THE SAME ANCHOR.
2. FOR GENERAL NOTES, SEE DRAWING G-8.

(*) OMIT TURNBUCKLE

SCALE: 3/16" = 1'-0"

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URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION

REVISIONS

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 380X

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION GUY ANCHOR	EXISTING GA-2	1
STRUCTURAL STEELWORK & GUYS			
	POLE GP-2 DETAIL (MOD. PER BULLETIN) DETAIL	EXISTING GBA(MOD.) SBA	2 2
SUPPORT & REGISTRATION ASSEMBLY			
24,30,31,32, 20	PULL OFF ASSEMBLY PULL OFF ASSEMBLY INSULATOR ASSEMBLY INSULATOR ASSEMBLY DEAD END ASSEMBLY	PO-9 PO-10 SIA-9A SIA-9B DEA-1	4 1 1 1 1
IN SPAN ASSEMBLY			
ALL	CATENARY HANGERS	SEE TABULATION	
GROUND WIRE ASSEMBLY			
MISCELLANEOUS & SWITCHING			

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

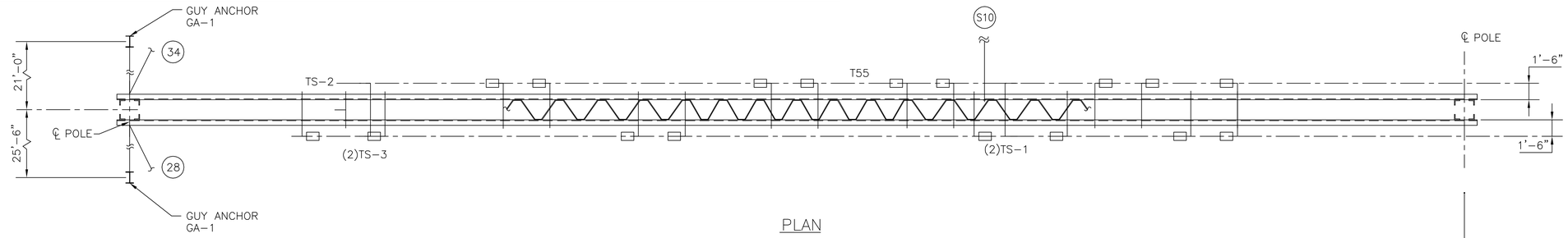
ERECTION DIAGRAM – 380X

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-380X

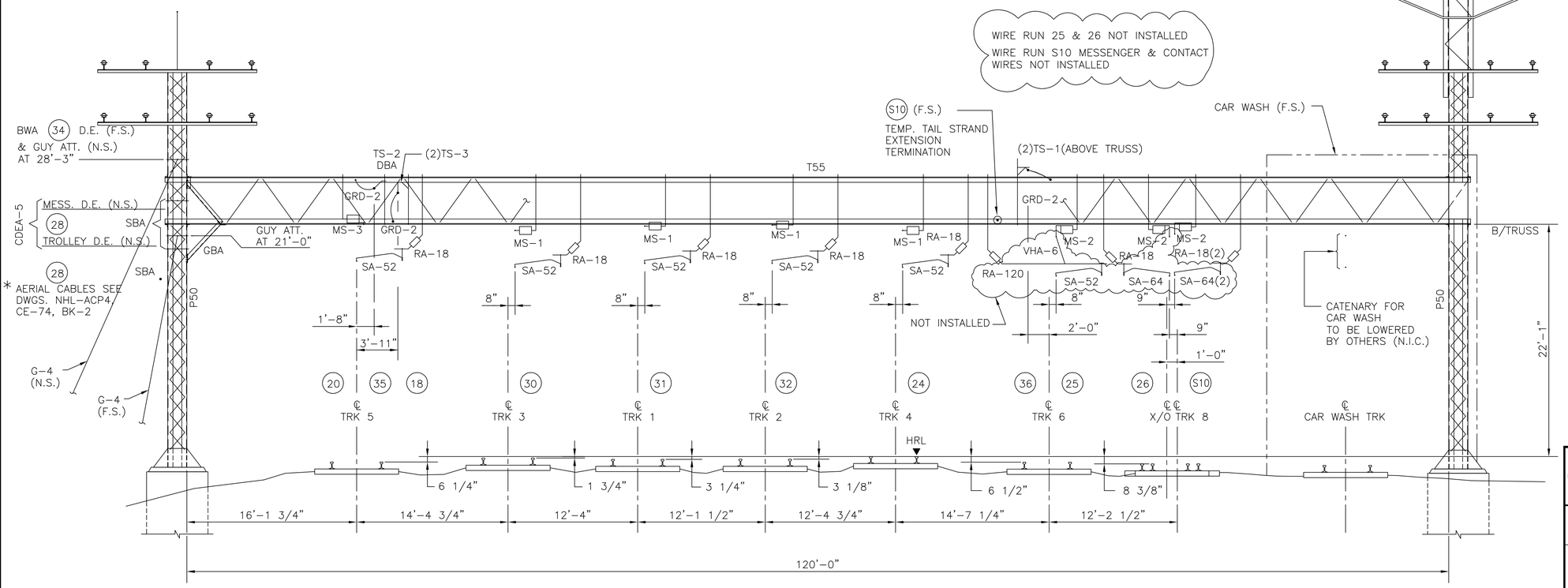
PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-380X.dwg XX% DESIGN

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

TRACK	5					3	1	2	4	6		8	
WIRE NO.	28	34	20	35	18	30	31	32	24	36	25	26	S10
TAIL/ANC. HT	FA	BWA 28'-3"	X	TAIL 25'-6"	TAIL 25'-1"					TAIL 27'-3"			
MESSENGER HT.	24'-4"		22'-1"			21'-6"	21'-11"	22'-0"	21'-6"				
CONTACT HT.	19'-9"		18'-7"			18'-0"	18'-4 1/2"	18'-4 1/2"	18'-0"				
SYSTEM DEPTH HT.	4'-5"		3'-6"			3'-6"	3'-6 1/2"	3'-7 1/2"	3'-6"				



PLAN



ELEVATION
CATENARY STRUCTURE 381
STATION 1108+60
LOOKING EAST

SCALE: 3/16" = 1'-0"

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 381

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-381

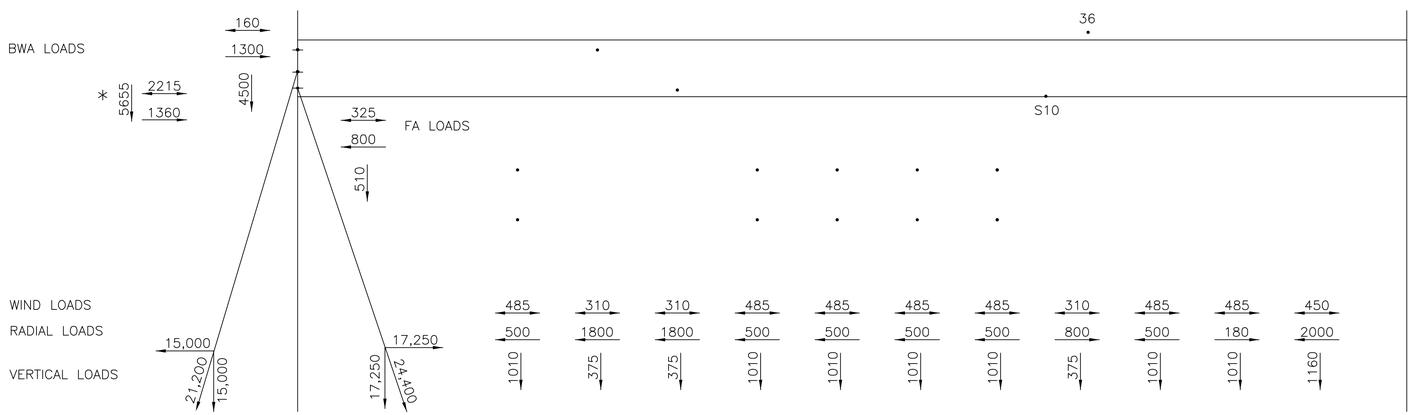
PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-381.dwg XX% DESIGN

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 381_BM

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	EXISTING	
	GUY ANCHOR	GA-1	2
STRUCTURAL STEELWORK & GUYS			
	TRUSS T55	EXISTING	
	POLE P50	EXISTING	
	CROSS ARMS	EXISTING	
34	BALANCED WEIGHT ASSEMBLY	BWA	1
	GUY ASSEMBLY	G-4	2
	DETAIL	DBA	1
	DETAIL	GBA	1
	DETAIL	SBA	2
20,24,25,26, 30,31,32	DROP TUBE SUPPORT	DT-U-7	7
20,24,25,26, 30,31,32	DROP TUBE SUPPORT	DT-U-8	7
18,36,S10	DROP TUBE SUPPORT	DT-2U-7	3
S10	DROP TUBE SUPPORT	DT-2U-8	1
SUPPORT & REGISTRATION ASSEMBLY			
24,30,31,32	MESSENGER SUPPORT	MS-1	4
25,26,S10(2)	MESSENGER SUPPORT	MS-2	4
20	MESSENGER SUPPORT	MS-3	1
20,24,26,30, 31,32,S10(2)	REGISTRATION ASSEMBLY	RA-18	8
24 30,31,32	STEADY ARM	SA-52	4
20	STEADY ARM	SA-64	1
36(2)	TAIL WIRE SUPPORT	TS-1	2
35	TAIL WIRE SUPPORT	TS-2	1
18(2)	TAIL WIRE SUPPORT	TS-3	2
IN SPAN ASSEMBLY			
ALL	CATENARY HANGERS	SEE TABULATION	
28	CATENARY DEAD END ASSEMBLY	CDEA-5 (NOTE 2)	1
20,24,30 31,32	IN-SPAN JUMPER	TYPE "C"	5
18	TERMINATION STRAND SAFETY GRIP ASS'Y	TSG	3
GROUND WIRE ASSEMBLY			
18,35	GROUND WIRE ASSEMBLY GROUNDING ASSEMBLY	EXISTING GRD-2	2
MISCELLANEOUS & SWITCHING			
	FEEDER WIRE ASSEMBLY	EXISTING	



CATENARY LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.
2. REPLACE INSULATORS BY LINKS
3. REPLACE TWO ITEMS OF PART # 39 BY ITEMS OF PART # 42

SCALE: NTS

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

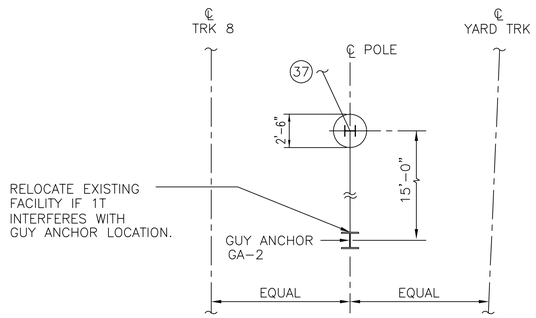
STAMFORD YARD CATENARY IMPROVEMENTS

BILL OF MATERIALS & LOADING DIAGRAM FOR ERECTION DIAGRAM – 381

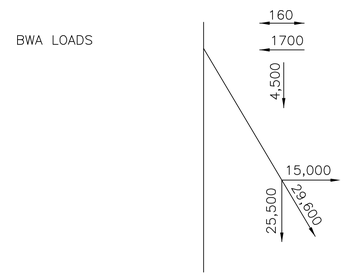
ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-381_BM

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-381_BM.dwg XX% DESIGN

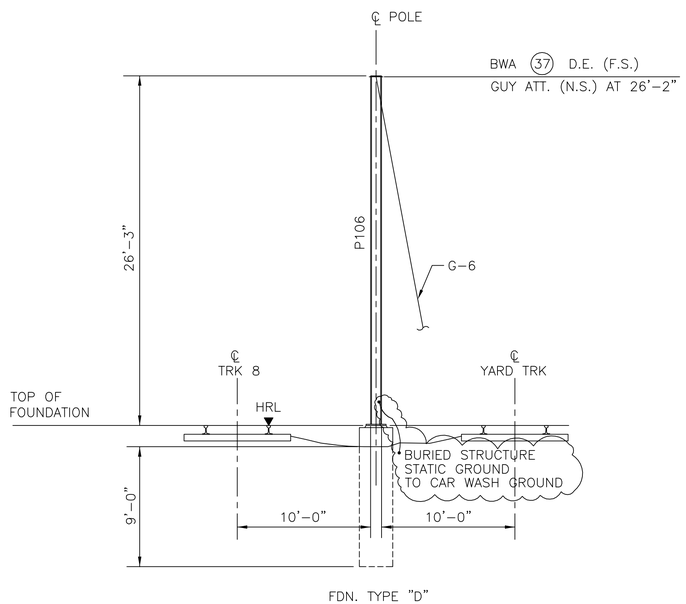
TRACK	8
WIRE NO.	37
TAIL/ANCHOR HT.	BWA 26'–2"
MESSENGER HT.	
CONTACT HT.	
SYSTEM HT. DEPTH	



PLAN



LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)



ELEVATION

DEAD END STRUCTURE 381A
STATION 1108+95
LOOKING EAST

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301–163	2014	

ERECTION DIAGRAM No. 381A

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	TYPE "D"	1
	GUY ANCHOR	GA–2	1
STRUCTURAL STEELWORK & GUYS			
	POLE	P106	1
	GUY ASSEMBLY	G–6	1
	BALANCE WEIGHT ASSEMBLY	BWA	1
SUPPORT & REGISTRATION ASSEMBLIES			
IN SPAN ASSEMBLIES			
GROUND WIRE ASSEMBLIES			
	GROUND WIRE ASSEMBLY	GRD–1(MOD.)	1
MISCELLANEOUS & SWITCHING			

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G–8.

SCALE: 3/16" = 1'–0"

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

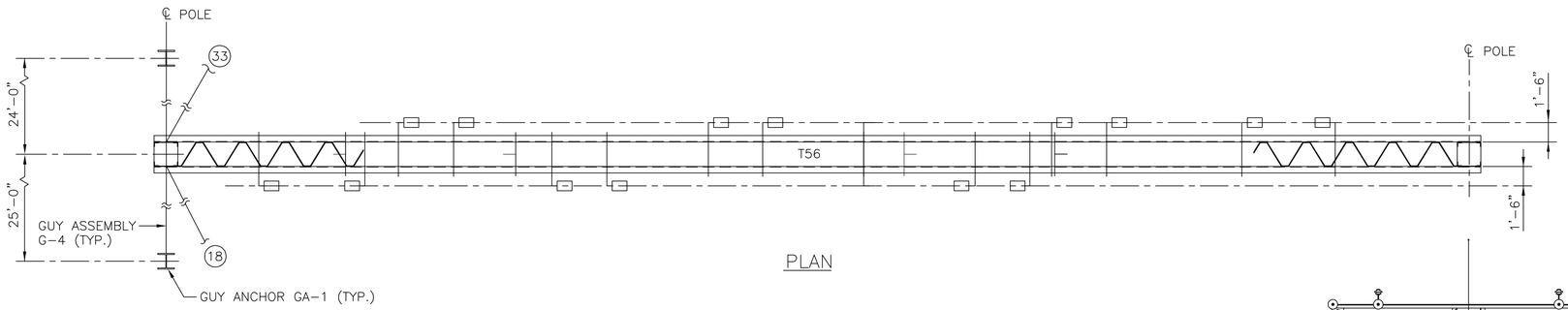
ERECTION DIAGRAM – 381A

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED–381A

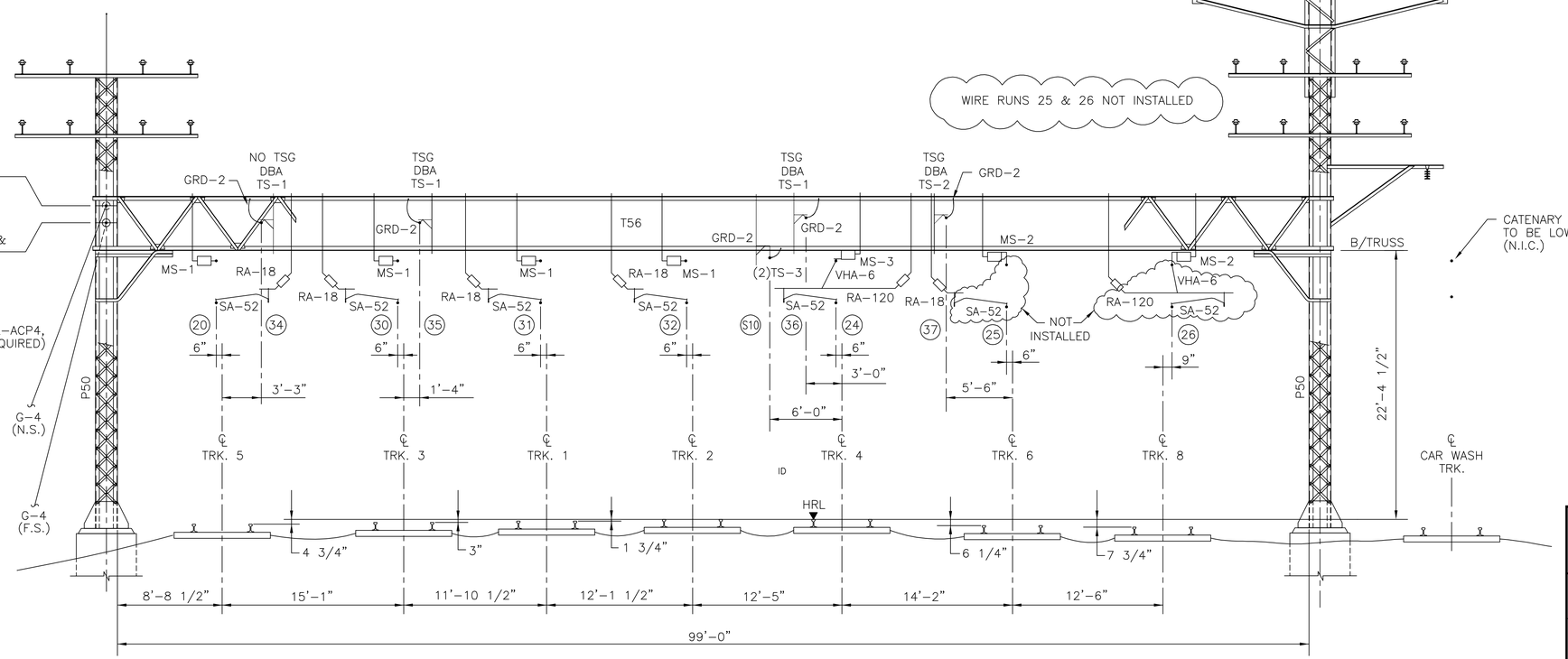
PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED–381A.dwg XX% DESIGN

TRACK	5				3		1	2	4			6		8
WIRE NO.	18	33	20	34	30	35	31	32	AS BUILT S10	36	24	37	25	26
TAIL/ANCHOR HT.	FA 24'-8"	BWA 26'-1"		TAIL 26'-2 1/2"		TAIL 26'-8"			21'-8"	TAIL 24'-7 1/2"		TAIL 25'-8"		
MESSENGER HT.			22'-0"		21'-6"		21'-6"	21'-6"			21'-6"			
CONTACT HT.			18'-6"		18'-0"		18'-0"	18'-0"			18'-0"			
SYSTEM HT. DEPTH			3'-6"		3'-6"		3'-6"	3'-6"			3'-6"			

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	



PLAN



ELEVATION

CATENARY STRUCTURE 382

STATION 1111+60
LOOKING EAST

SCALE: 3/16" = 1'-0"

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 382

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-382

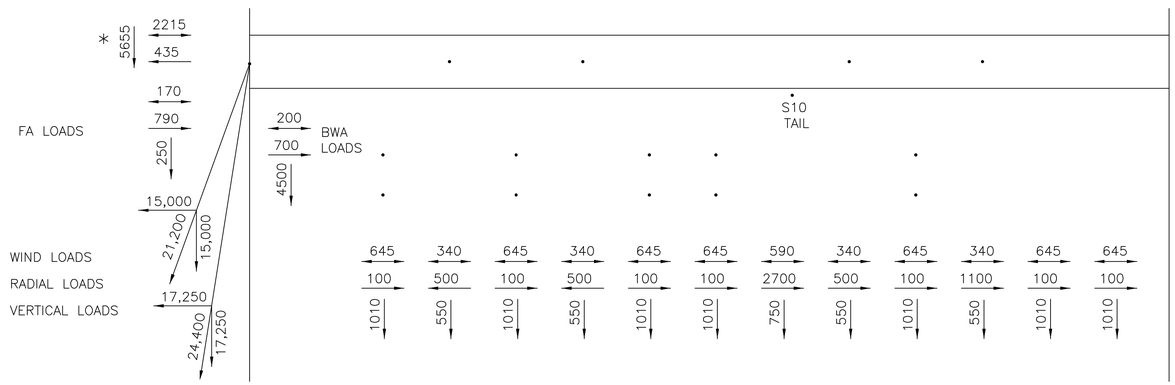
PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-382.dwg XX% DESIGN

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 382_BM

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	EXISTING	
	GUY ANCHOR	GA-1	2
STRUCTURAL STEELWORK & GUYS			
	TRUSS T56	EXISTING	
	POLE P50	EXISTING	
	CROSS ARMS	EXISTING	
	BALANCE WEIGHT ASSEMBLY	BWA	1
	GUY ASSEMBLY	G-4	2
	DETAIL	DBA	4
20,30,31,32, 24,25,26	DROP TUBE SUPPORT	DT-U-7	7
20,30,31,32, 24,25,26	DROP TUBE SUPPORT	DT-U-8	7
S10	DROP TUBE SUPPORT	DT-2U-7	1
SUPPORT & REGISTRATION ASSEMBLY			
20,30,31,32	MESSENGER SUPPORT	MS-1	4
24	MESSENGER SUPPORT	MS-3	1
25,26	MESSENGER SUPPORT	MS-2	2
25,30,31,32, 20	REGISTRATION ASSEMBLY	RA-18	5
24	REGISTRATION ASSEMBLY	RA-120	1
20,24, 30,31,32	STEADY ARM	SA-52	5
34,35,36, 37	TAIL WIRE SUPPORT	TS-1	3
	TAIL WIRE SUPPORT	TS-2	1
35,36,37	TERMINATION STRAND SAFETY GRIP ASS'Y	TSG	3
S10	TAIL WIRE SUPPORT	TS-3	2
IN SPAN ASSEMBLY			
ALL	CATENARY HANGERS	SEE TABULATION	
24	VEE HANGER	VHA-6	1
18	CATENARY DEAD END ASSEMBLY	CDEA-7 (NOTE 2)	1
20,24, 30,31,32	IN SPAN JUMPER	TYPE "C"	5
S10(2)	MID-SPAN INSULATION ASSEMBLY	MIA	2
GROUND WIRE ASSEMBLY			
	GROUND WIRE ASSEMBLIES	EXISTING	
35,37,S10	GROUNDING ASSEMBLY	GRD-2	3
MISCELLANEOUS & SWITCHING			
	FEEDER WIRE ASSEMBLIES	EXISTING	



CATENARY LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.
2. REPLACE INSULATORS BY LINKS.
3. SEE CL DRAWINGS FOR CLARIFICATION OF AS BUILT SECTIONALIZING CHANGES.

SCALE: NONE

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

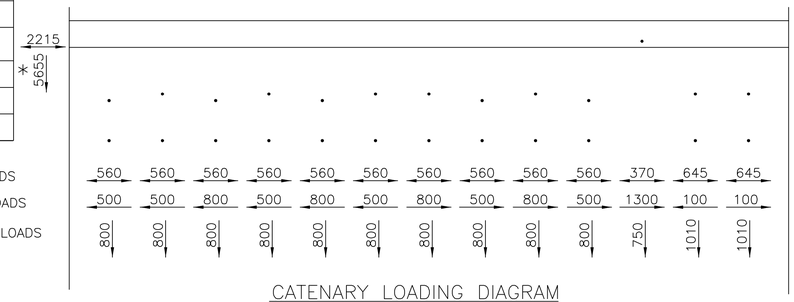
STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 382

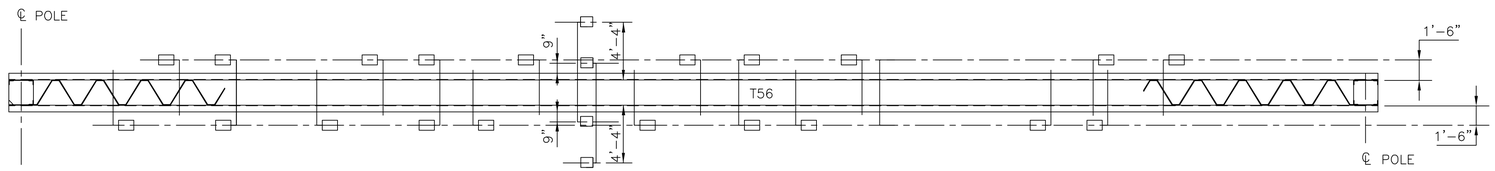
ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-382_BM

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-382_BM.dwg XX% DESIGN

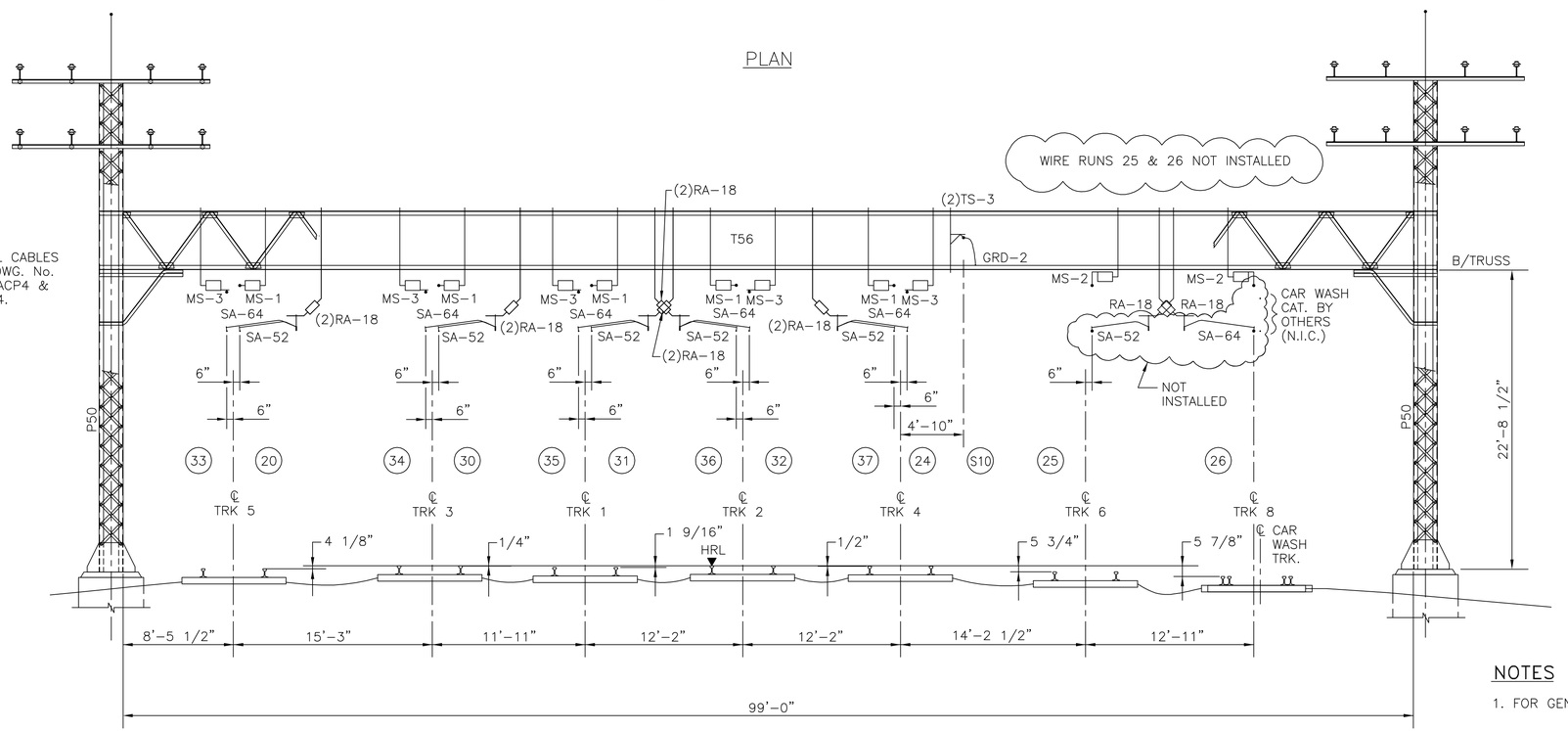
TRACK	5		3		1		2		4			6	8
WIRE NO.	33	20	34	30	35	31	36	32	37	24	S10	25	26
TAIL/ANC. HT											TAIL 25'-2"		
MESSENGER HT.	21'-0"	21'-6"	21'-0"	21'-6"	21'-0"	21'-6"	21'-6"	21'-0"	21'-6"	21'-0"			
CONTACT HT.	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"			
SYSTEM DEPTH HT.	3'-0"	3'-6"	3'-0"	3'-6"	3'-0"	3'-6"	3'-6"	3'-0"	3'-6"	3'-0"			



CATENARY LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)



PLAN



* AERIAL CABLES SEE DWG. No. NHL-ACP4 & CE-74.

ELEVATION
CATENARY STRUCTURE 383
STATION 1114+60
LOOKING EAST

SCALE: 3/16" = 1'-0"

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 383

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	EXISTING	
STRUCTURAL STEELWORK & GUYS			
	TRUSS T56	EXISTING	
	POLE P50	EXISTING	
	CROSS ARMS	EXISTING	
25,26	DROP TUBE SUPPORT	DT-U-7	2
20,24,25,26, 30,31,32,33, 34,35,36,37	DROP TUBE SUPPORT	DT-U-8	12
20/33,24/37, 30/34,31/35, 32/36	DROP TUBE SUPPORT	DT-2U-8	5
S10	DROP TUBE SUPPORT	DT-2U-7	1
SUPPORT & REGISTRATION ASSEMBLY			
20,30,31, 36,37	MESSENGER SUPPORT	MS-1	5
25,26	MESSENGER SUPPORT	MS-2	2
24,32,33, 34,35	MESSENGER SUPPORT	MS-3	5
20,24,26,30, 31,32,33,34, 25,35,36,37	REGISTRATION ASSEMBLY	RA-18	12
20,30, 31,36,37	STEADY ARM	SA-52	5
24,32, 33,34,35	STEADY ARM	SA-64	5
S10	TAIL WIRE SUPPORT ASSEMBLY	TS-3	2
IN SPAN ASSEMBLY			
ALL	CATENARY HANGERS	SEE TABULATION	
33/20,34/30, 35/31,36/32, 37/24	FULL LOAD FEEDING JUMPER	TYPE "A"	5
S10	MID-SPAN INSULATION ASSEMBLY	MIA	3
GROUND WIRE ASSEMBLY			
S10	GROUND WIRE ASSEMBLY GROUNDING ASSEMBLY	EXISTING GRD-2	1
MISCELLANEOUS & SWITCHING			
	FEEDER WIRE ASSEMBLY	EXISTING	

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 383

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

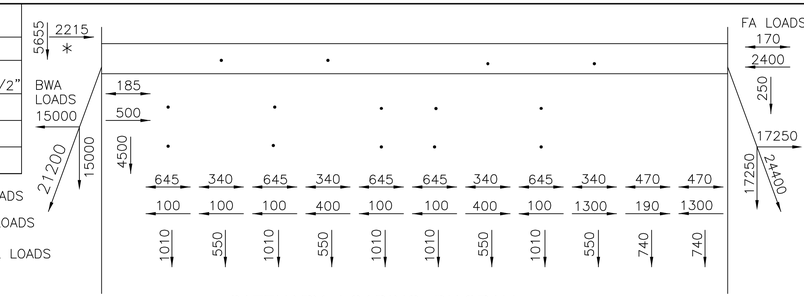
NO.	DATE	DESCRIPTION

REVISIONS

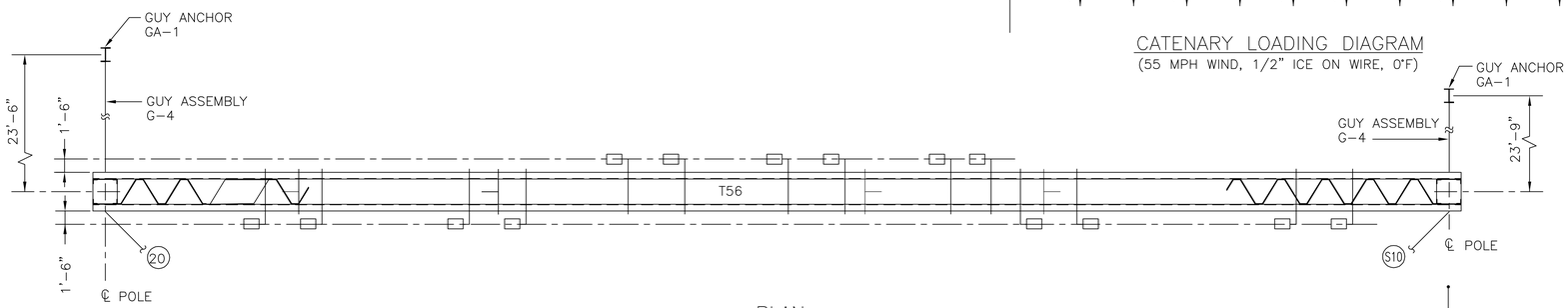
ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-383

XX% DESIGN
DISK FILENAME: ED-383.dwg
PROJECT CONTROL DATE: XX/XX/XX

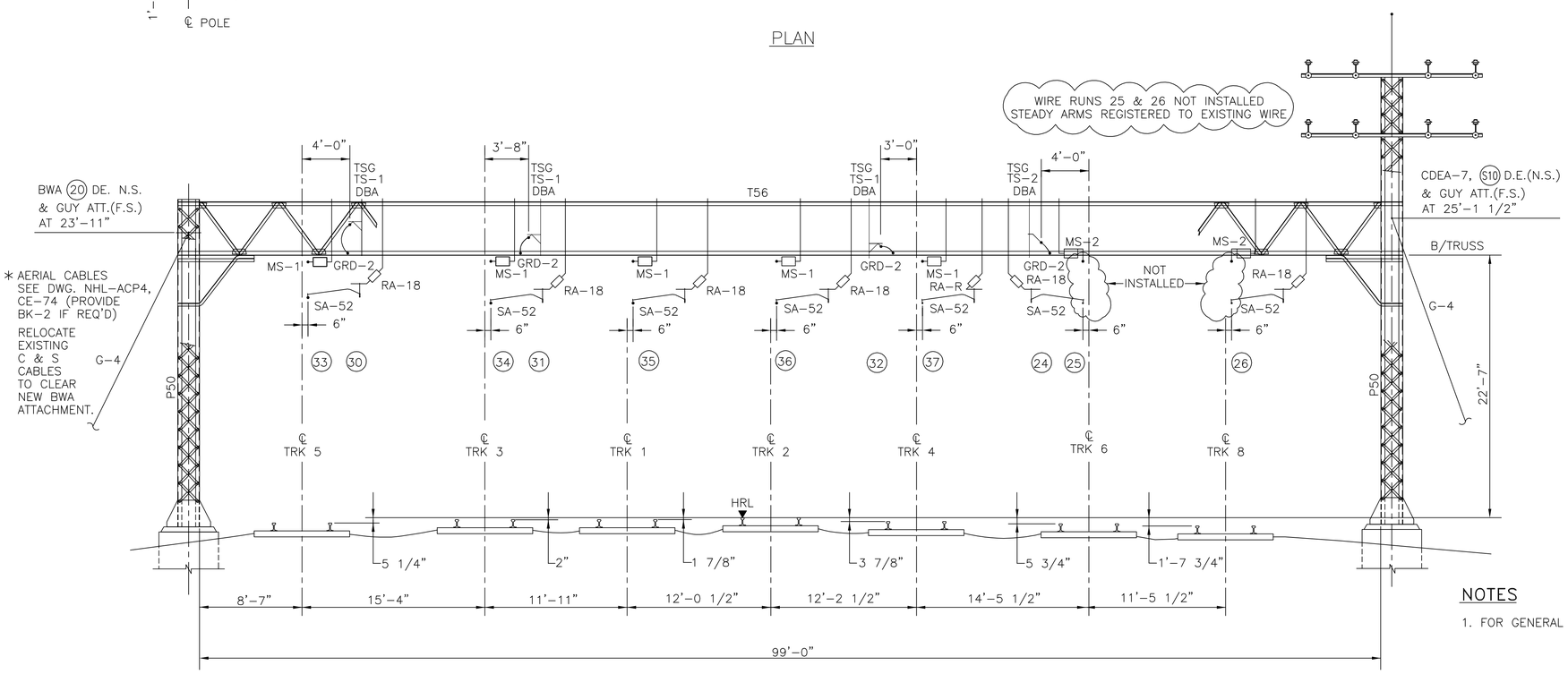
TRACK	5			3		1	2	4		6		8	
WIRE No.	20	33	30	34	31	35	36	32	37	24	25	26	S10
TAIL/ANC. HT.	BWA 23'-11"		TAIL 24'-7"		TAIL 23'-6"			TAIL 22'-9"		TAIL 23'-1"			FA 25'-1 1/2"
MESSENGER HT.		21'-5 1/2"		21'-6"		21'-6"	21'-6"		21'-6"		21'-6"	21'-6"	
CONTACT HT.		18'-5 1/2"		18'-0"		18'-0"	18'-0"		18'-0"		18'-0"	18'-0"	
SYSTEM HT. DEPTH		3'-0"		3'-6"		3'-6"	3'-6"		3'-6"		3'-6"	3'-6"	



CATENARY LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)



PLAN



ELEVATION

CATENARY STRUCTURE 384

STATION 1117+60
LOOKING EAST

SCALE: 3/16" = 1'-0"

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 384

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	EXISTING	
	GUY ANCHOR	GA-1	2
STRUCTURAL STEELWORK & GUYS			
	TRUSS T56	EXISTING	
	POLE P50	EXISTING	
	CROSS ARMS	EXISTING	
	GUY ASSEMBLY	G-4	2
20	BALANCE WEIGHT ASSEMBLY	BWA	1
	DETAIL	DBA	4
25,26,33(2), 34(2),35(2), 36(2),37(2)	DROP TUBE SUPPORT	DT-U-8	12
25,26	DROP TUBE SUPPORT	DT-U-7	2
SUPPORT & REGISTRATION ASSEMBLY			
33,34,35, 36,37.	MESSENGER SUPPORT	MS-1	5
25,26	MESSENGER SUPPORT	MS-2	2
26,33,34,35 36,25	REGISTRATION ASSEMBLY	RA-18	6
37	REGISTRATION ASSEMBLY	RA-R	1
25,26,33,34 35,36,37.	STEADY ARM	SA-52	7
30,31,32	TAIL WIRE SUPPORT	TS-1	3
24	TAIL WIRE SUPPORT	TS-2	1
IN SPAN ASSEMBLY			
ALL	CATENARY HANGERS	SEE TABULATION	
S10	CATENARY DEAD END ASSEMBLY	CDEA-7	1
33 THRU 37,	IN-SPAN JUMPER	TYPE "C"	5
24(2)	MID-SPAN INSULATION ASSEMBLY	MIA	2
30,31,32,24	TERMINATION STRAND SFTEY GRIP ASS'Y	TSG	4
GROUND WIRE ASSEMBLY			
	GROUND WIRE ASSEMBLY	EXISTING	
30,31,32,24	GROUNDING ASSEMBLY	GRD-2	4
MISCELLANEOUS & SWITCHING			
	FEEDER WIRE ASSEMBLY	EXISTING	

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

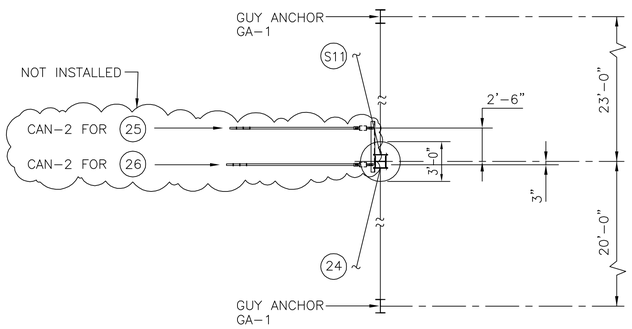
STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 384

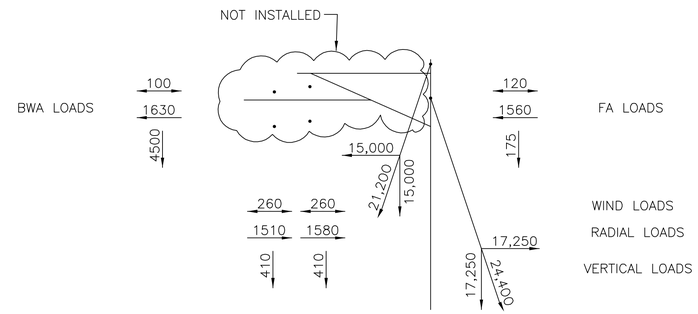
ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-384

XX% DESIGN
DISK FILENAME: ED-384.dwg
PROJECT CONTROL DATE: XX/XX/XX

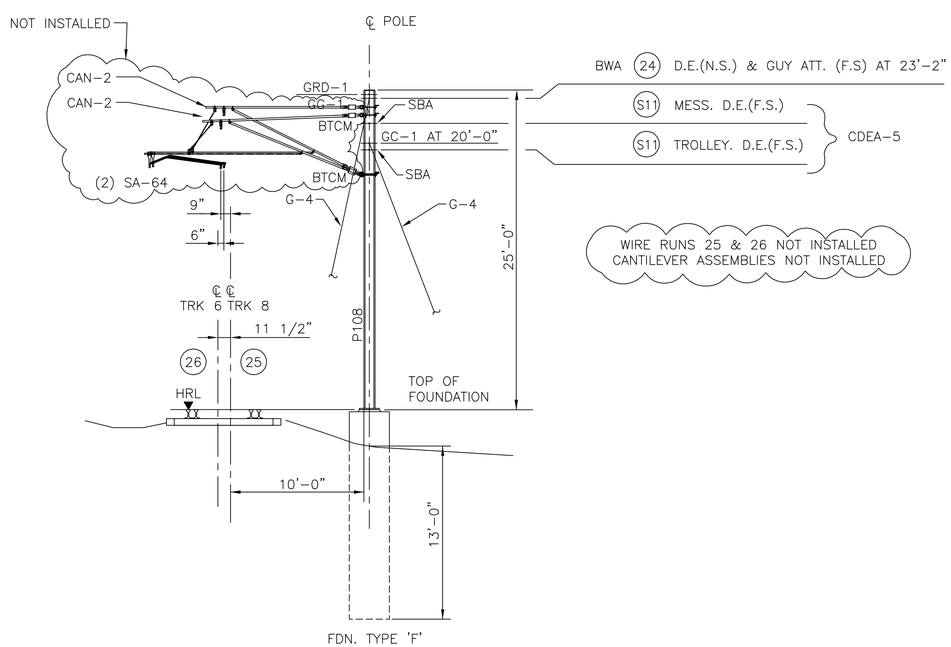
TRACK	6			
WIRE NO.	26	25	24	S11
TAIL/ANCHOR HT.			BWA 23'-2"	FA
MESSENGER HT.				21'-6"
CONTACT HT.				19'-5 1/2"
SYSTEM DEPTH HT.				2'-1 1/2"



PLAN



LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)



ELEVATION

CANTILEVER STRUCTURE 384A
STATION 1118+98
LOOKING EAST

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 384A

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	TYPE 'F'	1
	GUY ANCHOR	GA-1	2
STRUCTURAL STEELWORK & GUYS			
	POLE	P108	1
	BALANCE WEIGHT ASSEMBLY	BWA	1
	GUY ASSEMBLY	G-4	2
	DETAIL	GC-1	2
	DETAIL	BTCM	2
	DETAIL	SBA	2
SUPPORT & REGISTRATION ASSEMBLIES			
IN SPAN ASSEMBLIES			
S11	CATENARY DEAD END ASSEMBLY	CDEA-5	1
GROUND WIRE ASSEMBLIES			
	GROUND WIRE ASSEMBLY	GRD-1	1
MISCELLANEOUS & SWITCHING			

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.

SCALE: 3/16" = 1'-0"

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URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 384A

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-384A

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME:ED-384A.dwg XX% DESIGN

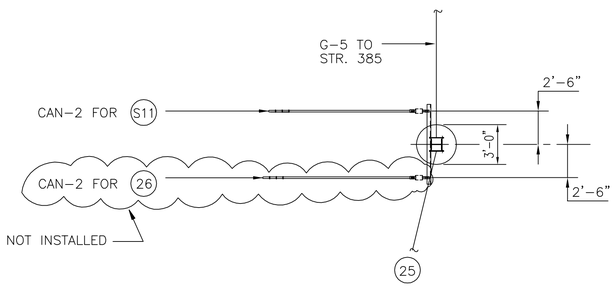
TRACK	6		
WIRE NO.	26	S11	25
TAIL/ANCHOR HT.			FA
MESSENGER HT.		22'-5"	23'-8"
CONTACT HT.		18'-5"	19'-6"
SYSTEM DEPTH HT.		4'-0"	4'-2"

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

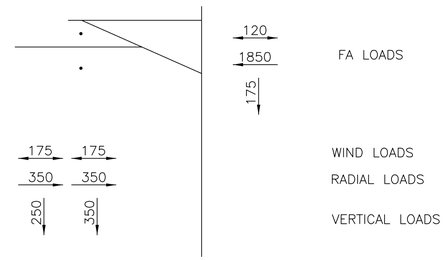
ERECTION DIAGRAM No. 384B

BILL OF MATERIALS

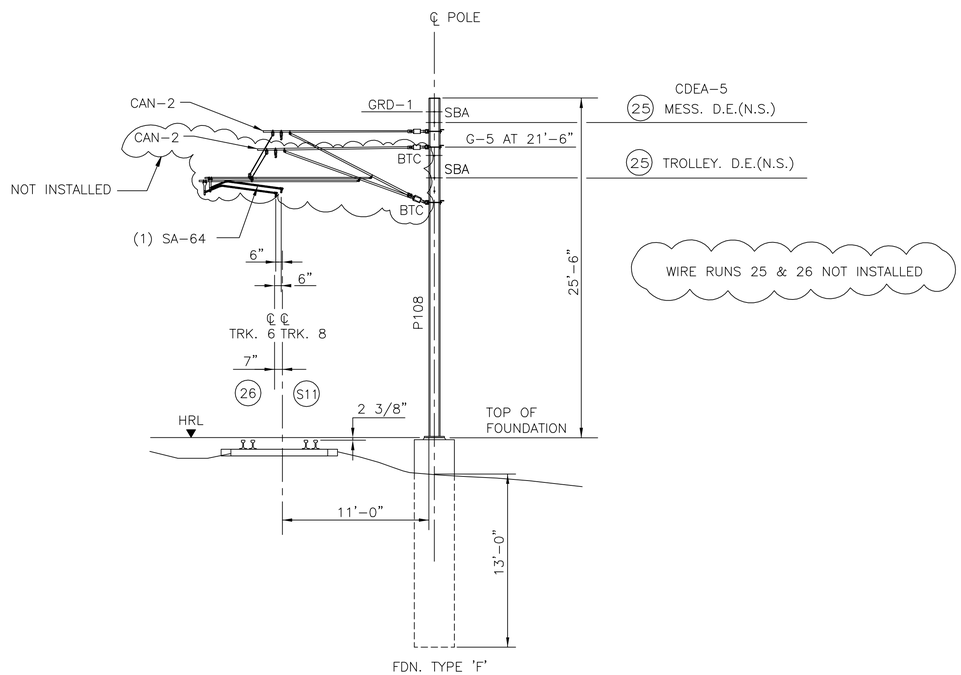
WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	TYPE 'F'	1
STRUCTURAL STEELWORK & GUYS			
	POLE	P108	1
	GUY WIRE ASSEMBLY	G-5	1
	DETAIL	SBA	2
	DETAIL	BTC	2
SUPPORT & REGISTRATION ASSEMBLIES			
S11	PUSH-OFF SINGLE TRACK CANTILEVER	CAN-2	1
IN SPAN ASSEMBLIES			
S11	CROSS CONTACT BRIDGE ASSEMBLY	CBA-10	1
GROUND WIRE ASSEMBLIES			
	GROUND WIRE ASSEMBLY	GRD-1	1
MISCELLANEOUS & SWITCHING			



PLAN



LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)



ELEVATION

CANTILEVER STRUCTURE 384B
STATION 1120+02
LOOKING EAST

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.

SCALE: 3/16" = 1'-0"

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URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

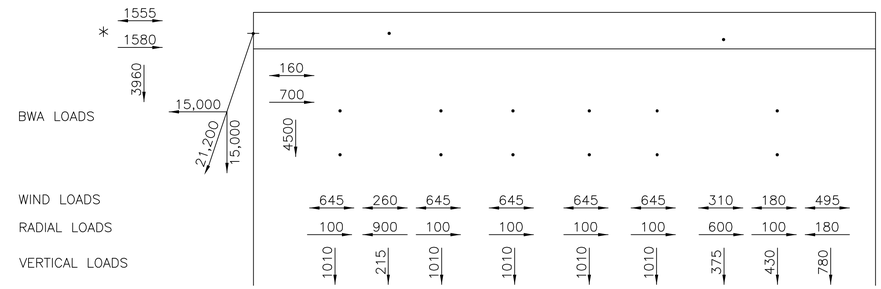
STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 384B

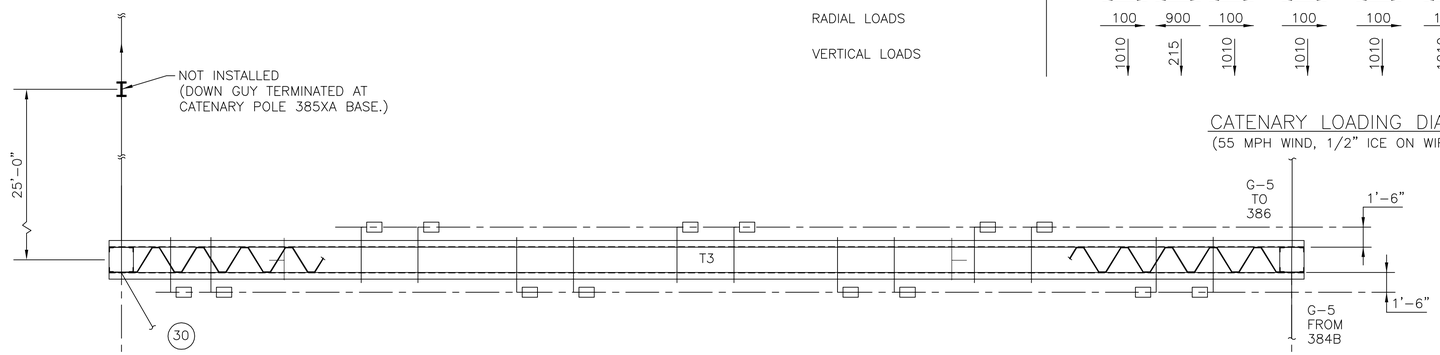
ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-384B

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-384B.dwg XX% DESIGN

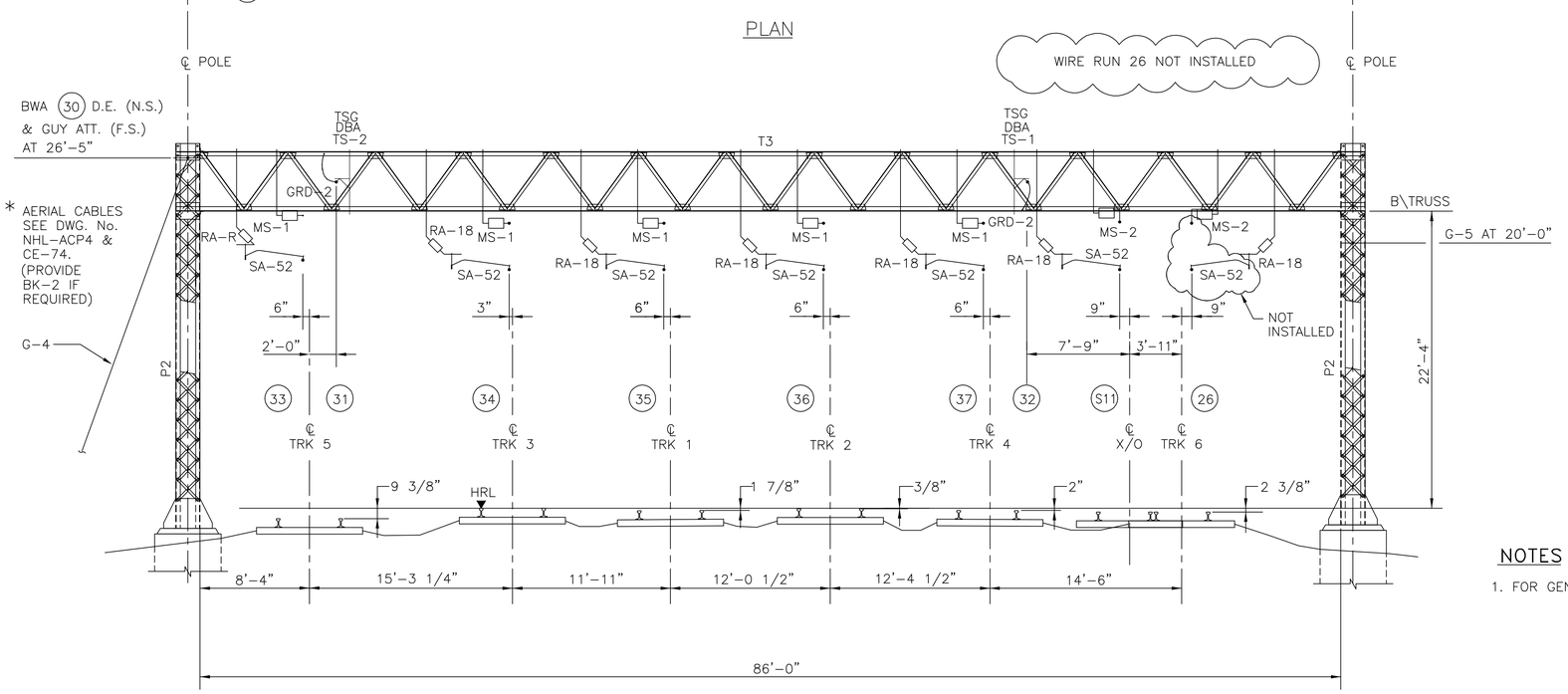
TRACK	5		3		1	2	4		6	
WIRE NO.	30	33	31	34	35	36	37	32	S11	26
TAIL/ANCHOR HT.	BWA 26'–5"		TAIL 25'–0"					TAIL 24'–8"		
MESSENGER HT.		22'–5 1/2"		21'–6"	21'–6"	21'–6"	21'–6"		21'–7"	
CONTACT HT.		18'–8 1/2"		18'–0"	18'–0"	18'–0"	18'–0"		18'–1"	
SYSTEM DEPTH HT.		3'–6"		3'–6"	3'–6"	3'–6"	3'–6"		3'–6"	



CATENARY LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)



PLAN



ELEVATION

CATENARY STRUCTURE 385

STATION 1120+60
LOOKING EAST

SCALE: 3/16" = 1'–0"

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G–8.

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301–163	2014	

ERECTION DIAGRAM No. 385

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	EXISTING	
STRUCTURAL STEELWORK & GUYS			
	TRUSS T3	EXISTING	
	POLE P2	EXISTING	
	CROSS ARMS	EXISTING	
	BALANCED WEIGHT ASSEMBLY	BWA	1
	GUY ASSEMBLY	G–4	1
	GUY WIRE ASSEMBLY	G–5	1
	DETAIL	DBA	2
S11, 26	DROP TUBE SUPPORT	DT–U–7	2
26, 33(2),34(2), 35(2),36(2), 37(2),S11	DROP TUBE SUPPORT	DT–U–8	12
SUPPORT & REGISTRATION ASSEMBLY			
26,33,34,35 36,37,S11	MESSENGER SUPPORT	MS–1	5
26, S11	MESSENGER SUPPORT	MS–2	2
26,34,35, 36,37,S11	REGISTRATION ASSEMBLY	RA–18	6
33	REGISTRATION ASSEMBLY	RA–R	1
33,34,35 36,37,S11	STEADY ARM	SA–52	6
32	TAIL WIRE SUPPORT	TS–1	1
31	TAIL WIRE SUPPORT	TS–2	1
IN SPAN ASSEMBLY			
ALL	CATENARY HANGERS	SEE TABULATION	
33,34,35,36, 37	IN–SPAN JUMPER	TYPE "C"	5
S11	SECTION INSULATOR ASSEMBLY	HS–1	1
37/S11	FULL LOAD FEEDING JUMPER	TYPE "A"	1
S11/37	CROSS CONTACT BRIDGE ASSEMBLY	CBA–10	2
31/32	TERMINATION STRAND SAFTEY GRIP ASS'Y	TSG	1
GROUND WIRE ASSEMBLY			
31, 32	GROUNDING ASSEMBLY	GRD–2	2
MISCELLANEOUS & SWITCHING			

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 385

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

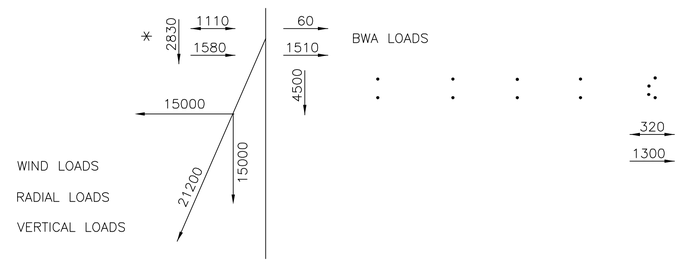
NO.	DATE	DESCRIPTION

REVISIONS

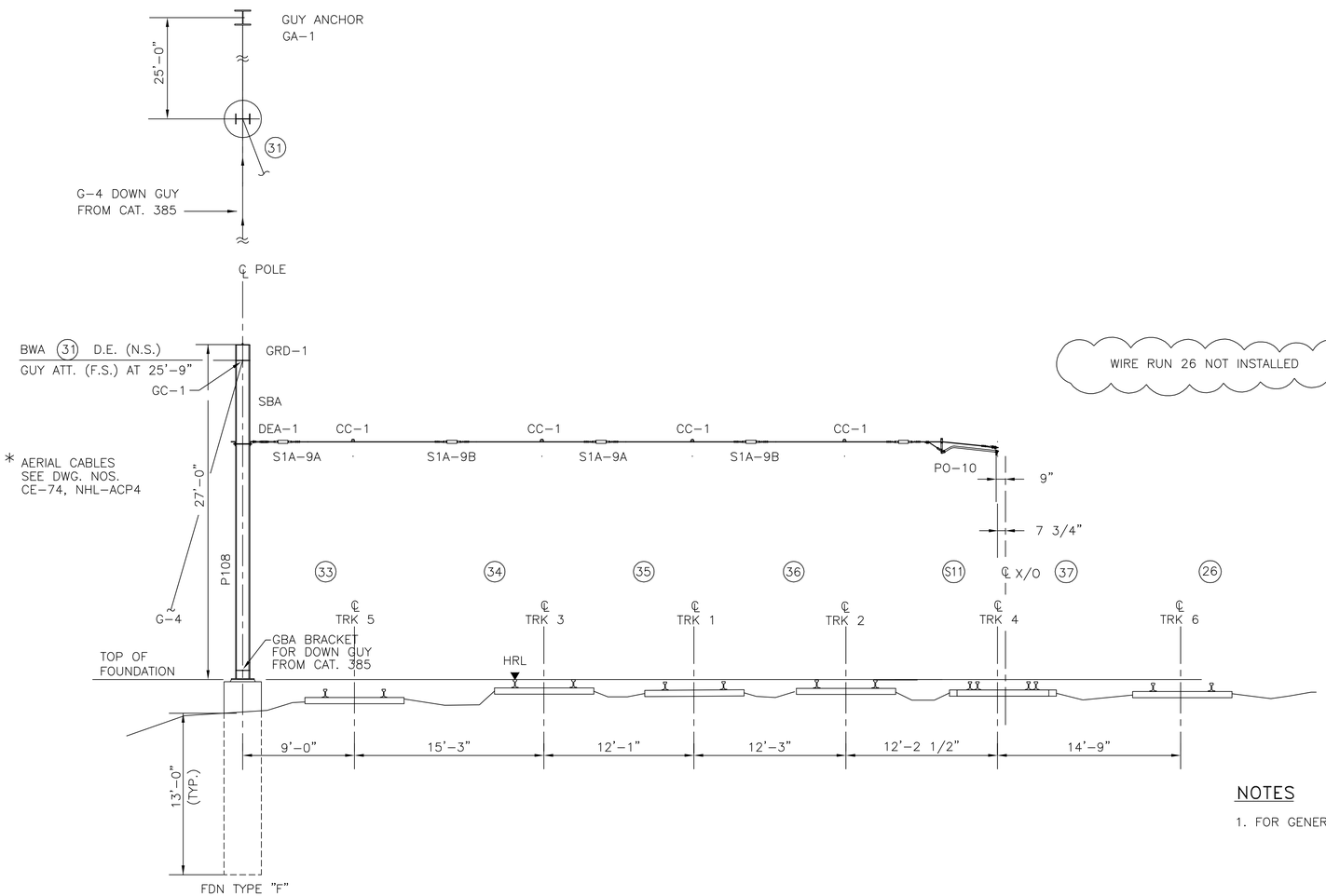
ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED–385

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED–385.dwg XX% DESIGN

TRACK	5	3	1	2	4	6
WIRE NO.	31					
TAIL/ANCHOR HT.	BWA 25'-9"					
MESSENGER HT.						
CONTACT HT.						
SYSTEM HT. DEPTH						



LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)



WIRE RUN 26 NOT INSTALLED

ELEVATION

PULL OFF STRUCTURE 385XA

STATION 1121+75
LOOKING EAST

SCALE: 3/16" = 1'-0"

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 385XA

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	TYPE "F"	1
	GUY ANCHOR	GA-1	1
STRUCTURAL STEELWORK & GUYS			
	POLE	P108	1
	BALANCE WEIGHT ASSEMBLY	BWA	1
	GUY ASSEMBLY	G-4	1
	DETAIL	SBA	1
	DETAIL	GC-1	1
	DETAIL	GBA	1
SUPPORT & REGISTRATION ASSEMBLIES			
S11	PULL - OFF ASSEMBLY	PO-10	1
33,34,35,36	PULL - OFF ASSEMBLY	CC-1	4
33,35	CROSS SPAN ASSEMBLY	S1A-9A	2
34,36	CROSS SPAN ASSEMBLY	S1A-9B	2
	DEAD END ASSEMBLY	DEA-1	1
IN SPAN ASSEMBLIES			
GROUND WIRE ASSEMBLIES			
	GROUND WIRE ASSEMBLY	GRD-1	1
MISCELLANEOUS & SWITCHING			

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM - 385XA

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

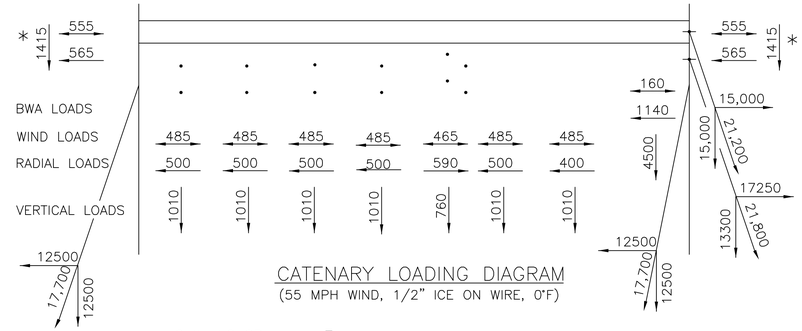
NO.	DATE	DESCRIPTION

REVISIONS

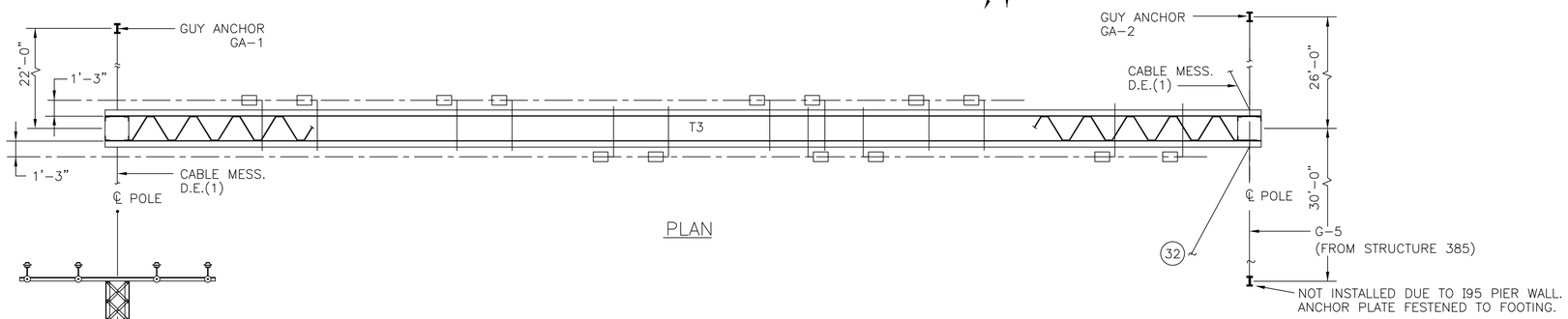
ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-385XA

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-385XA.dwg XX% DESIGN

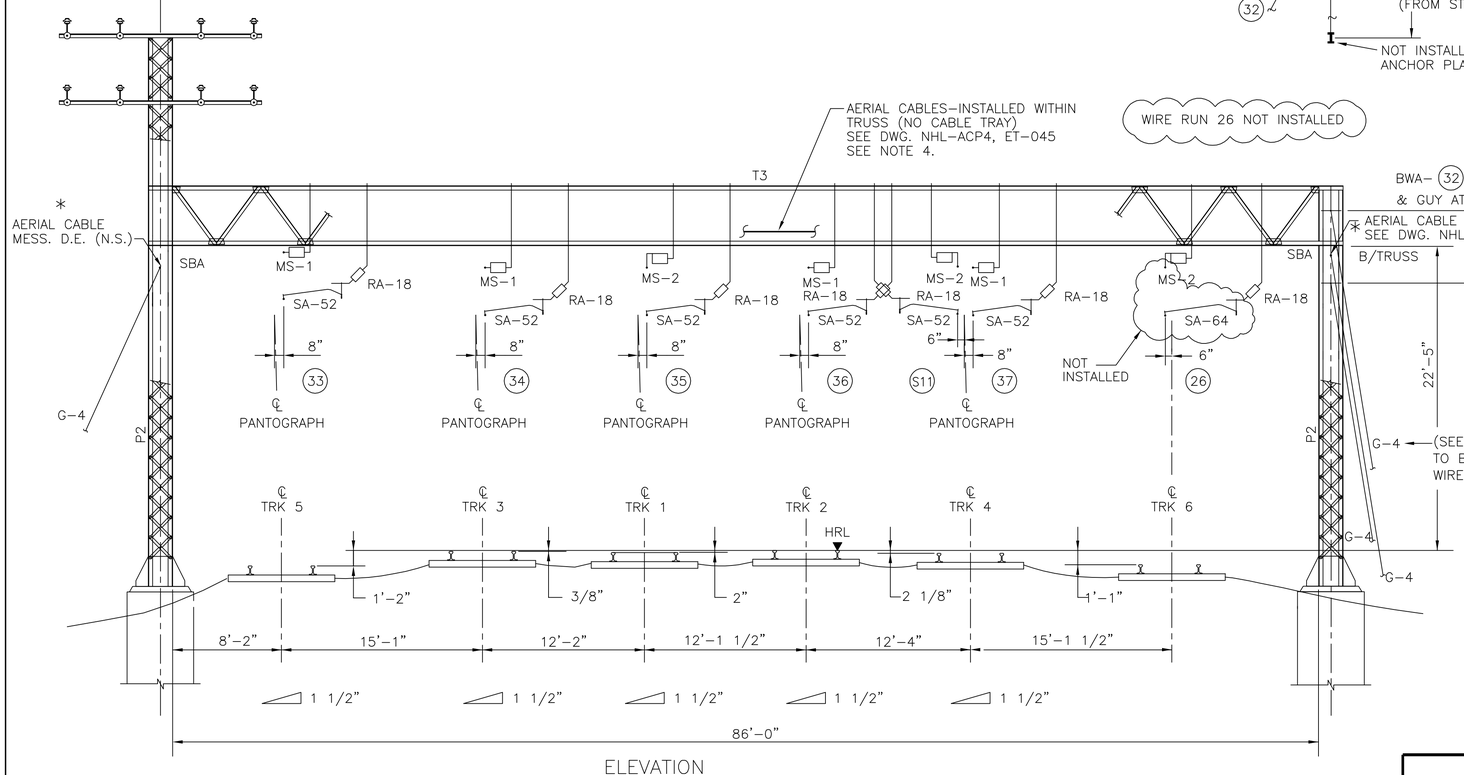
TRACK	5	3	1	2	4		6	
WIRE NO.	33	34	35	36	S11	37	26	32
TAIL/ANC HT.								BWA 25'-9"
MESSENGER HT.	22'-4 1/2"	21'-2"	21'-2"	21'-2"	21'-3"	21'-2"		
CONTACT HT.	18'-10 1/2"	17'-8"	17'-8"	17'-8"	17'-9"	17'-8"		
SYSTEM DEPTH	3'-6"	3'-6"	3'-6"	3'-6"	3'-6"	3'-6"		



CATENARY LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)



PLAN



ELEVATION

CATENARY STRUCTURE 386

STATION 1123+60
LOOKING EAST

NOTES

1. G-5 & GUY ATTECHMENT LOCATION TO BE ESTABLISHED BY CONTRACTOR TO CLEAR BALANCE WEIGHT ASSEMBLY
2. PROVIDE SHACKLE AT END OF GUY ASSEMBLY TO RECEIVE ONE MORE GUY TO CONNECT AT SAME ANCHOR.
3. FOR GENERAL NOTES, SEE DRAWING G-8.
4. CONTRACTOR SHALL ENSURE THAT CABLE TRAY SUPPORTS DO NOT INTERFERE WITH DROP TUBE SUPPORTS.

SCALE: 3/16" = 1'-0"

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URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION

REVISIONS

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 386

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	EXISTING	
	GUY ANCHOR	GA-2	1
	GUY ANCHOR (NOTE: SOUTHWEST DOWN GUY USES I95 PIER FOOTING)	GA-1	1
STRUCTURAL STEELWORK & GUYS			
	TRUSS T3	EXISTING	
	POLE P2	EXISTING	
	CROSS ARMS	EXISTING	
	BALANCED WEIGHT ASSEMBLY	BWA	1
	GUY ASSEMBLY	G-4	1
	DETAIL	SBA	2
26,33(2),34(2), 35,36(2),37(2), S11	DROP TUBE SUPPORT	DT-U-8	11
26,35,S11	DROP TUBE SUPPORT	DT-U-7	3
SUPPORT & REGISTRATION ASSEMBLY			
33,34,36,37	MESSENGER SUPPORT	MS-1	4
35,26,S11	MESSENGER SUPPORT	MS-2	3
26,33,34,35, 36,37,S11	REGISTRATION ASSEMBLY	RA-18	7
33,34,35,36, 37,S11	STEADY ARM	SA-52	6
IN SPAN ASSEMBLY			
ALL	CATENARY HANGERS	SEE TABULATION	
33,34,35, 36,37	IN-SPAN JUMPER	TYPE "C"	5
S11	IN - SPAN INSULATION ASSEMBLY	MCIA-1	1
S11	MID - SPAN INSULATION ASSEMBLY	MIA	1
GROUND WIRE ASSEMBLY			
	GROUND WIRE ASSEMBLY	EXISTING	
MISCELLANEOUS & SWITCHING			
	FEEDER WIRE ASSEMBLY	EXISTING	

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

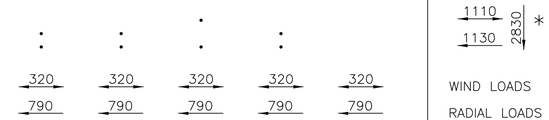
STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM - 386

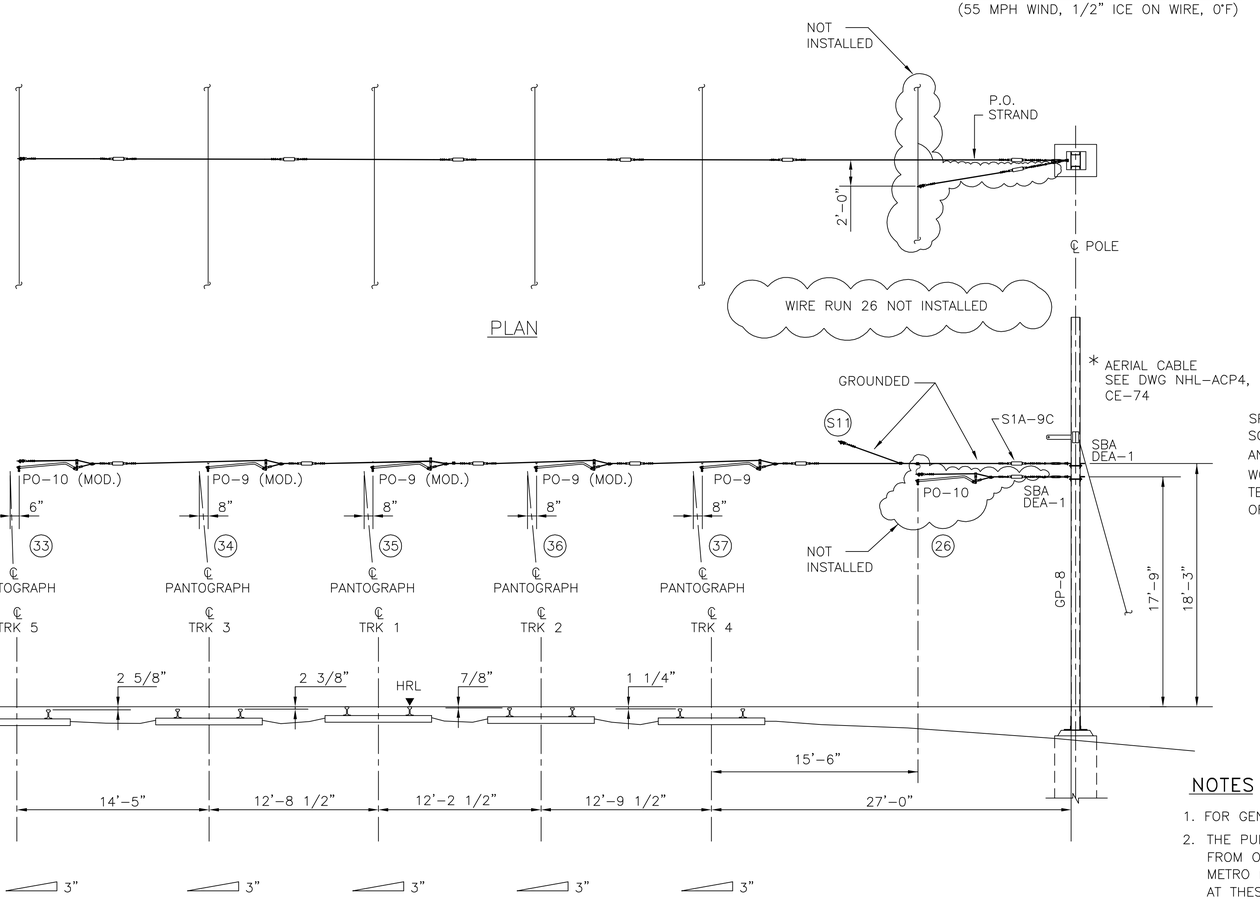
ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-386

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-386.dwg XX% DESIGN

TRACK	5	3	1	2	4
WIRE NO.					
TAIL/ANCHOR HT.					
MESSENGER HT.					
CONTACT HT.					
SYSTEM HT. DEPTH					



CATENARY LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)



SPAN WIRE INSULATOR S1A-9C ELIMINATED SO THAT THE SECTION SOUTH OF TRACK #4 AND THE TAIL WIRE FOR WIRE RUN (S11) WOULD BE GROUNDED. NOTE: CONDITION IS TEMPORARY PRIOR TO INSTALLATION OF WIRE RUN (26)

ELEVATION

PULL OFF STRUCTURE 386X
STATION 1125+10
LOOKING EAST

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.
2. THE PULL OFF ASSEMBLIES WHICH HAVE BEEN MODIFIED FROM ORIGINAL DESIGN DO NOT HAVE DROP BRACKETS. METRO NORTH TO INSTALL SIX (6) HOLE DROP BRACKETS AT THESE LOCATIONS.

SCALE: 3/16" = 1'-0"

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F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 386X

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	EXISTING	
STRUCTURAL STEELWORK & GUYS			
	POLE GP-8	EXISTING	
	DETAIL	SBA	2
SUPPORT & REGISTRATION ASSEMBLY			
S11	PULL OFF ASSEMBLY	PO-8	1
37	PULL OFF ASSEMBLY	PO-9	1
34,35,36	PULL OFF ASSEMBLY	PO-9 (MOD.)	3
33	PULL OFF ASSEMBLY	PO-10 (MOD.)	1
	DEAD END ASSEMBLY	DEA-1	2
	SPAN WIRE INSULATION ASSEMBLY	S1A-9C	1
IN SPAN ASSEMBLY			
GROUND WIRE ASSEMBLY			
	GROUND WIRE ASSEMBLY	EXISTING	
MISCELLANEOUS & SWITCHING			

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 368X

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

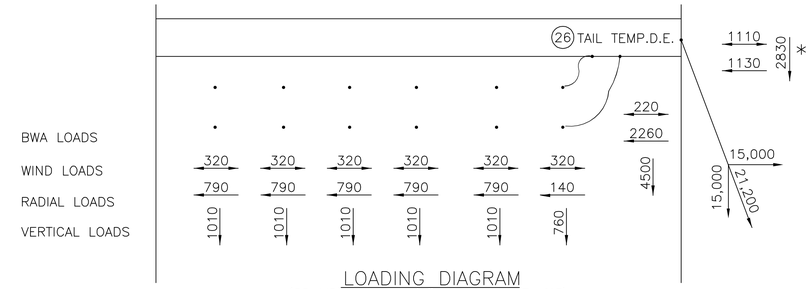
NO.	DATE	DESCRIPTION

REVISIONS

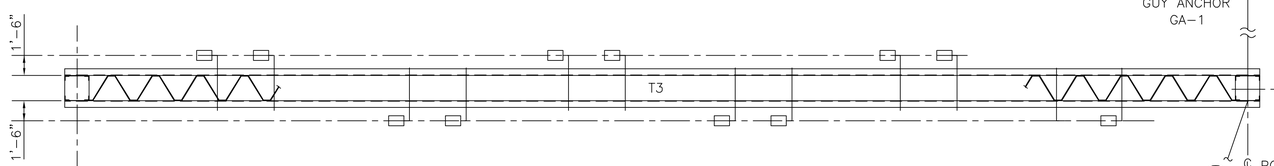
ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-386X

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-386X.dwg XX% DESIGN

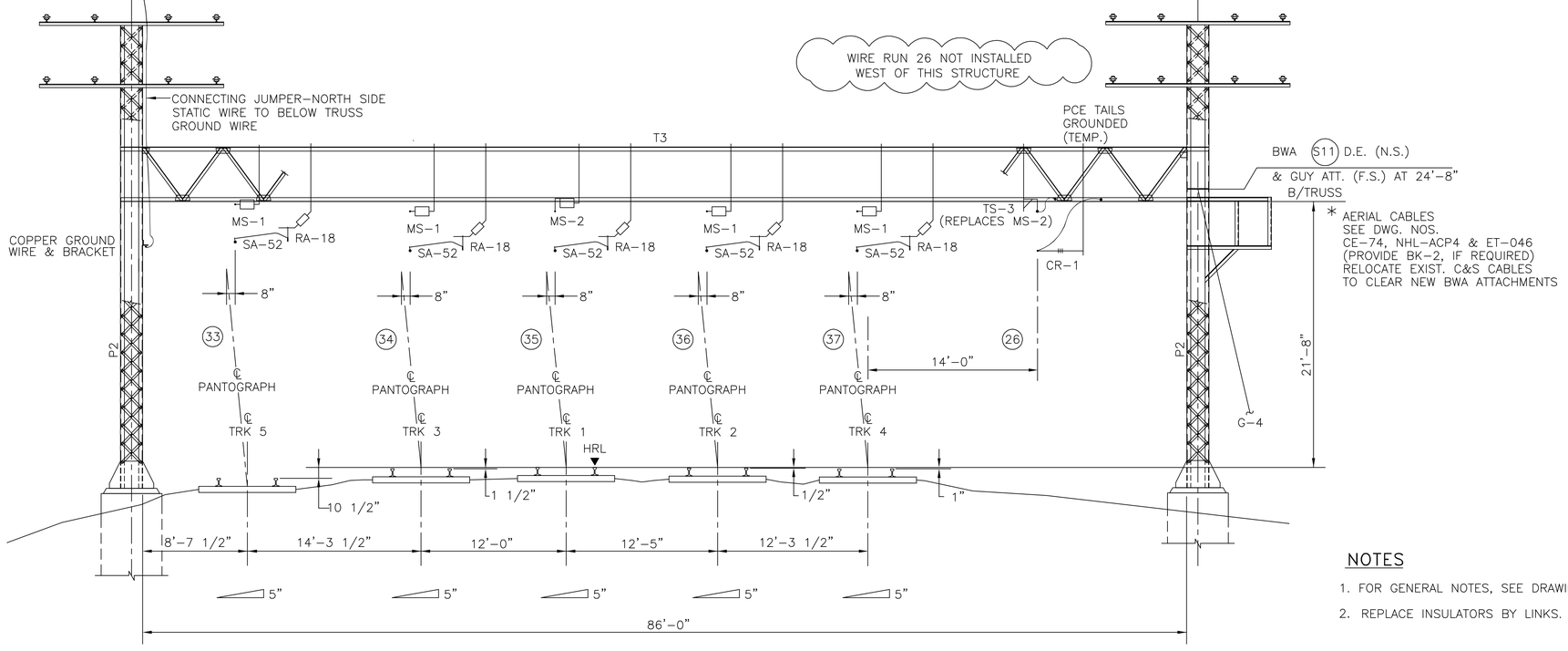
TRACK	5	3	1	2	4	6	
WIRE NO.	33	34	35	36	37	26	S11
TAIL/ANCHOR HT.							BWA 24'-8"
MESSENGER HT.	22'-0 3/4"	21'-1"	21'-1"	21'-1"	21'-1"	21'-1"	
CONTACT HT.	18'-6 3/4"	17'-7"	17'-7"	17'-7"	17'-7"	17'-7"	
SYSTEM HT. DEPTH	3'-6"	3'-6"	3'-6"	3'-6"	3'-6"	3'-6"	



LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)



PLAN



ELEVATION

CATENARY STRUCTURE 387

STATION 1126+60
LOOKING EAST

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

SCALE: 3/16" = 1'-0"

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.
2. REPLACE INSULATORS BY LINKS.

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 387

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	EXISTING	
	GUY ANCHOR	GA-1	1
STRUCTURAL STEELWORK & GUYS			
	TRUSS T3	EXISTING	
	POLES P2	EXISTING	
	CROSS ARMS	EXISTING	
	BALANCED WEIGHT	BWA (NOTE 2)	1
	GUY ASSEMBLY	G-4	1
26,35	DROP TUBE SUPPORT	DT-U-7	2
(2)33,(2)34, 35,(2)36,(2)37	DROP TUBE SUPPORT	DT-U-8	9
26	DROP TUBE SUPPORT	DT-U-10	1
SUPPORT & REGISTRATION ASSEMBLIES			
33,34,36,37	MESSENGER SUPPORT	MS-1	4
35	MESSENGER SUPPORT	MS-2	1
33,34,35 36,37	REGISTRATION ASSEMBLY	RA-18	5
26	REGISTRATION ASSEMBLY	CR-1(MOD.)	1
33,34,35 36,37	STEADY ARM	SA-52	5
26	TAIL WIRE SUPPORT	TS-3	1
IN SPAN ASSEMBLIES			
ALL 33,34,35, 36,37	CATENARY HANGERS IN SPAN JUMPER	SEE TABULATION TYPE "C"	5
GROUND WIRE ASSEMBLIES			
	G.W. ASSEMBLY	EXISTING	
MISCELLANEOUS & SWITCHING			
	FEEDER WIRE ASSEMBLY	EXISTING	
	STATIC GROUND WIRE, BRACKET SUPPORT (NORTH SIDE) FOR GRUINDING CAT. 387 TO CAT. 399		1

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 387

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION

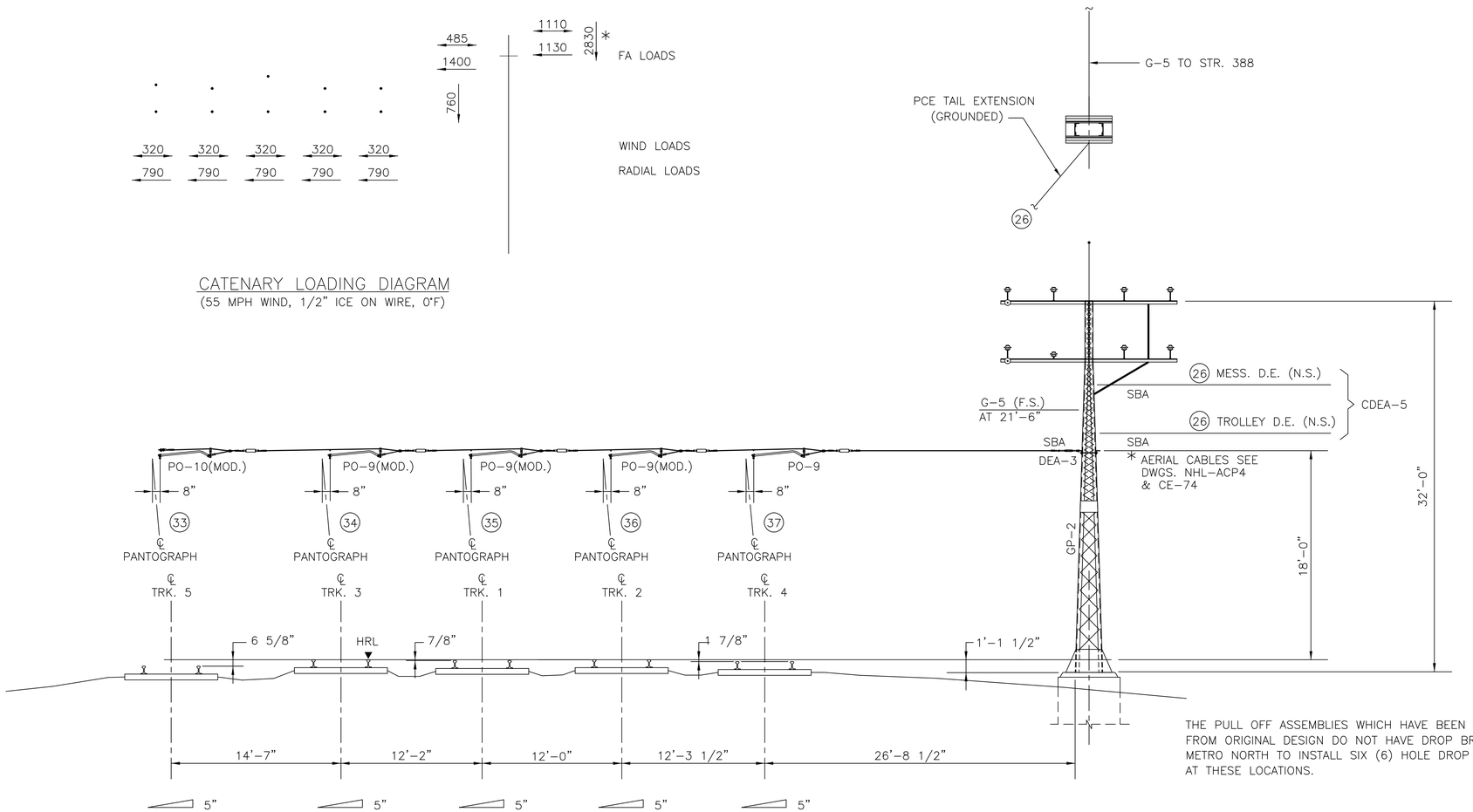
REVISIONS

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-387

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-387.dwg XX% DESIGN

TRACK	5	3	1	2	4	
WIRE NO.						26
TAIL/ANCHOR HT.						FA
MESSENGER HT.						23'-8"
CONTACT HT.						19'-6"
SYSTEM HT. DEPTH						4'-2"

CATENARY LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)



THE PULL OFF ASSEMBLIES WHICH HAVE BEEN MODIFIED FROM ORIGINAL DESIGN DO NOT HAVE DROP BRACKETS. METRO NORTH TO INSTALL SIX (6) HOLE DROP BRACKETS AT THESE LOCATIONS.

ELEVATION

PULL OFF STRUCTURE 387X
STATION 1128+10
LOOKING EAST

SCALE: 3/16" = 1'-0"

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 387X

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	EXISTING	
STRUCTURAL STEELWORK & GUYS			
	POLE GP-8	EXISTING	
	CROSS ARMS	EXISTING	
	GUY WIRE ASSEMBLY	G-5	1
	DETAIL	SBA	3
SUPPORT & REGISTRATION ASSEMBLY			
37	PULL OFF ASSEMBLY	PO-9	1
	DEAD END ASSEMBLY	DEA-3	1
34,35,36	PULL OFF ASSEMBLY	PO-9(MOD.)	3
33	PULL OFF ASSEMBLY	PO-10(MOD.)	1
IN SPAN ASSEMBLY			
	PCE TAILS EXTENDED TO MC1A-1 AT CAT. 387		
GROUND WIRE ASSEMBLY			
	GROUND WIRE ASSEMBLY PCE TAIL GROUNDED TO STRUCTURE 387X	EXISTING	
MISCELLANEOUS & SWITCHING			
	FEEDER WIRE ASSEMBLIES	EXISTING	

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 387X

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

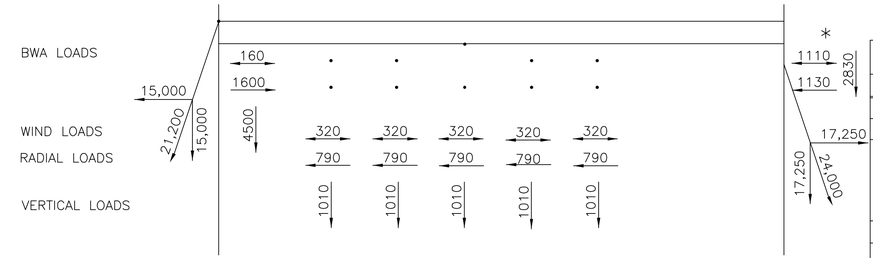
NO.	DATE	DESCRIPTION

REVISIONS

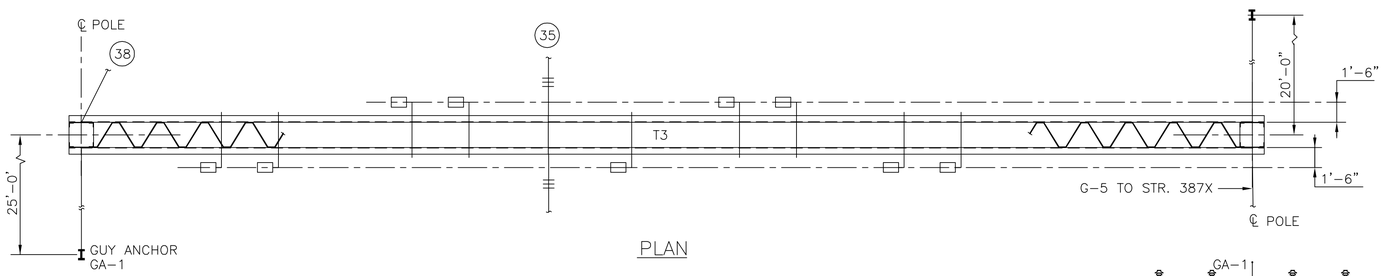
ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-387X

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-387X.dwg XX% DESIGN

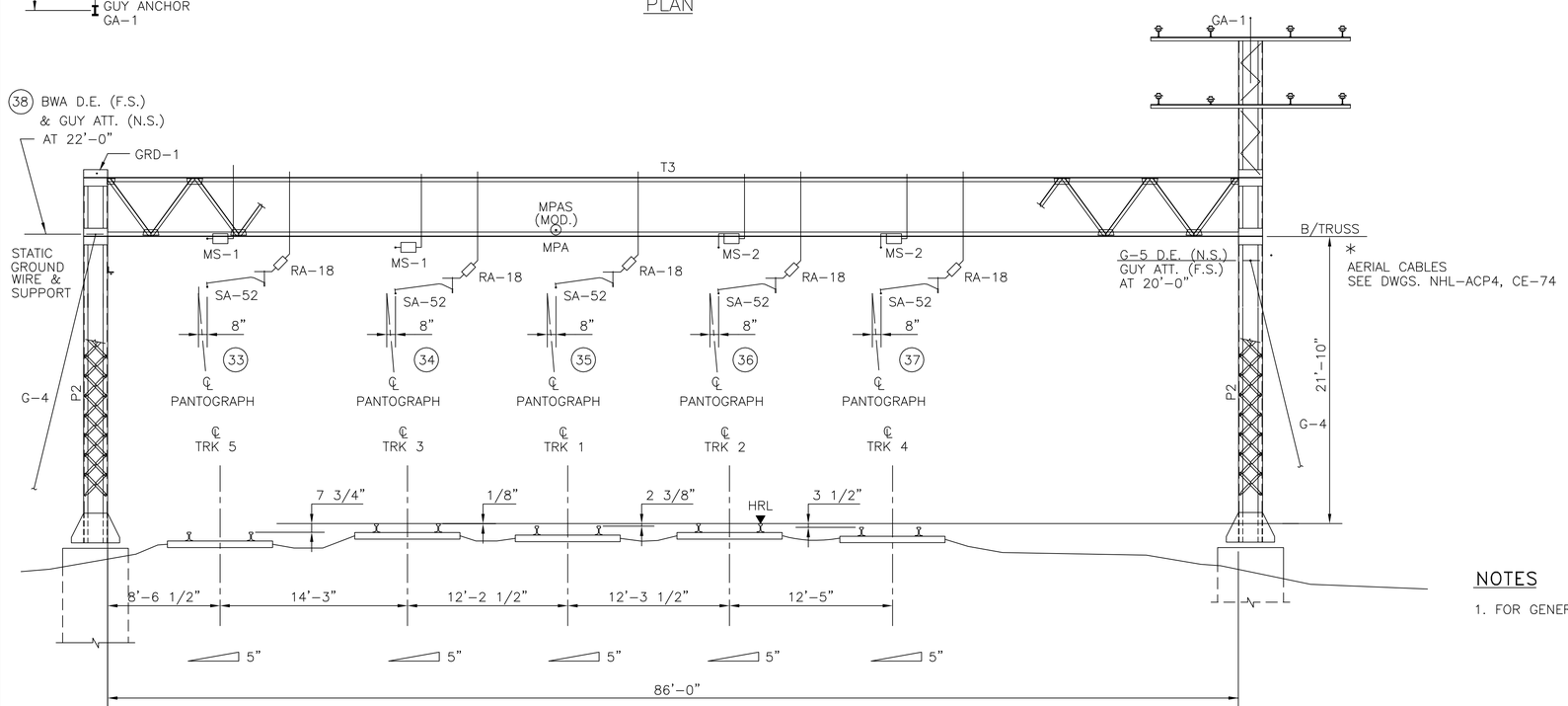
TRACK	5		3	1	2	4
WIRE NO.	38	33	34	35	36	37
BWA/TAIL	BWA 22'-0"					
MESSENGER HT.		21'-8"	21'-0"	22'-4"	21'-0"	21'-0"
CONTACT HT.		18'-0"	17'-6"	17'-11 1/2"	17'-6"	17'-6"
SYSTEM DEPTH		3'-6"	3'-6"	4'-4 1/2"	3'-6"	3'-6"



CATENARY LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)



PLAN



ELEVATION

CATENARY STRUCTURE 388

STATION 1129+60
LOOKING EAST

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.

SCALE: 3/16" = 1'-0"

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 388

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	EXISTING	
	GUY ANCHOR	GA-1	2
STRUCTURAL STEELWORK & GUYS			
	TRUSS T3	EXISTING	
	POLE P2	EXISTING	
	CROSS ARMS	EXISTING	
	DETAIL	MPAS(MOD.)	1
	BALANCED WEIGHT ASSEMBLY	BWA	1
	GUY ASSEMBLY	G-4	2
36,37	DROP TUBE SUPPORT	DT-U-7	2
33(2),34(2), 35,36,37	DROP TUBE SUPPORT	DT-U-8	7
SUPPORT & REGISTRATION ASSEMBLIES			
33,34	MESSENGER SUPPORT	MS-1	2
36,37	MESSENGER SUPPORT	MS-2	2
33,34,35,36,37	REGISTRATION ASSEMBLY	RA-18	5
33,34,35,36,37	STEADY ARM	SA-52	5
35	MID-POINT ANCHOR ASSEMBLY	MPA	1
IN SPAN ASSEMBLIES			
ALL	CATENARY HANGERS	SEE TABULATION	
33,34,36,37	IN-SPAN JUMPER	TYPE "C"	4
38	MID-SPAN INSULATION ASSEMBLY	MIA	2
GROUND WIRE ASSEMBLIES			
	GROUND WIRE ASSEMBLY	EXISTING	
	GROUND WIRE ASSEMBLY	GRD-1	1
	STATIC GROUND WIRE ASSEMBLY	NA	
MISCELLANEOUS & SWITCHING			
	FEEDER WIRE ASSEMBLY	EXISTING	

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 388

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

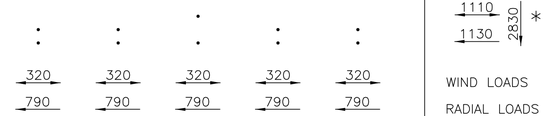
NO.	DATE	DESCRIPTION

REVISIONS

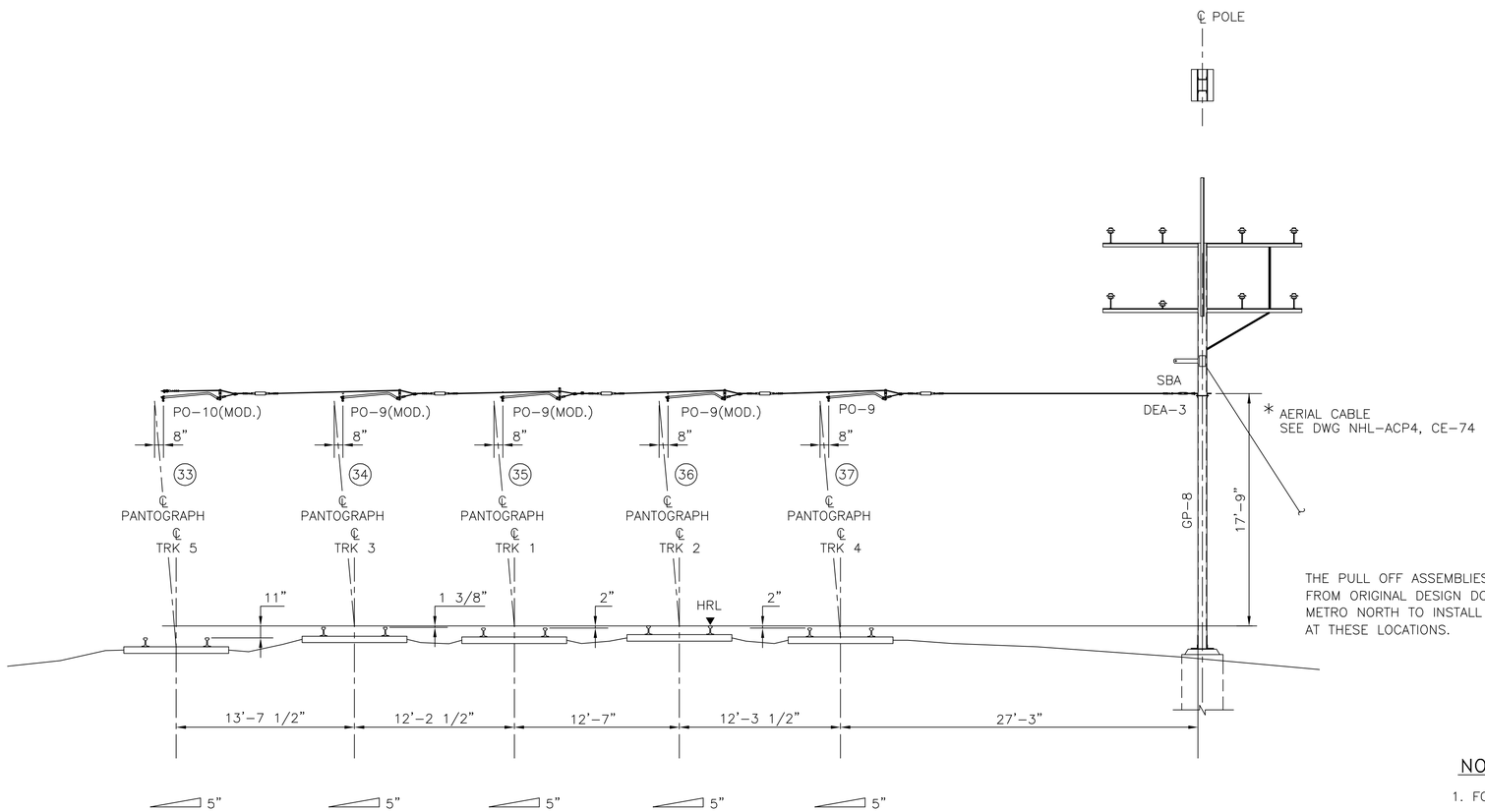
ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-388

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-388.dwg XX% DESIGN

TRACK	5	3	1	2	4
WIRE NO.					
TAIL/ANCHOR HT.					
MESSENGER HT.					
CONTACT HT.					
SYSTEM HT. DEPTH					



CATENARY LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)



THE PULL OFF ASSEMBLIES WHICH HAVE BEEN MODIFIED FROM ORIGINAL DESIGN DO NOT HAVE DROP BRACKETS. METRO NORTH TO INSTALL SIX (6) HOLE DROP BRACKETS AT THESE LOCATIONS.

ELEVATION

PULL OFF STRUCTURE 388X
STATION 1131+10
LOOKING EAST

SCALE: 3/16" = 1'-0"

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 388X

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	EXISTING	
STRUCTURAL STEELWORK & GUYS			
	POLE GP-8	EXISTING	
	CROSS ARMS	EXISTING	
	GUY ASSEMBLY	EXISTING	
	DETAIL	SBA	1
SUPPORT & REGISTRATION ASSEMBLY			
37	PULL OFF ASSEMBLY	PO-9	1
34,35,36	PULL OFF ASSEMBLY	PO-9(MOD.)	3
33	PULL OFF ASSEMBLY	PO-10(MOD.)	1
	DEAD END ASSEMBLY	DEA-3	1
IN SPAN ASSEMBLY			
GROUND WIRE ASSEMBLY			
	GROUND WIRE ASSEMBLY	EXISTING	
MISCELLANEOUS & SWITCHING			
	FEEDER WIRE ASS'YS	EXISTING	

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

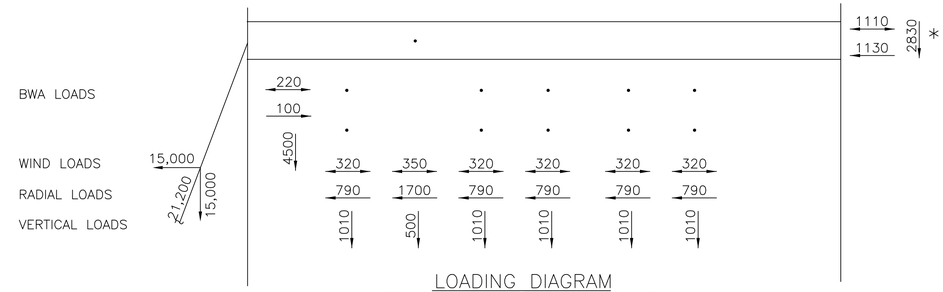
STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 388X

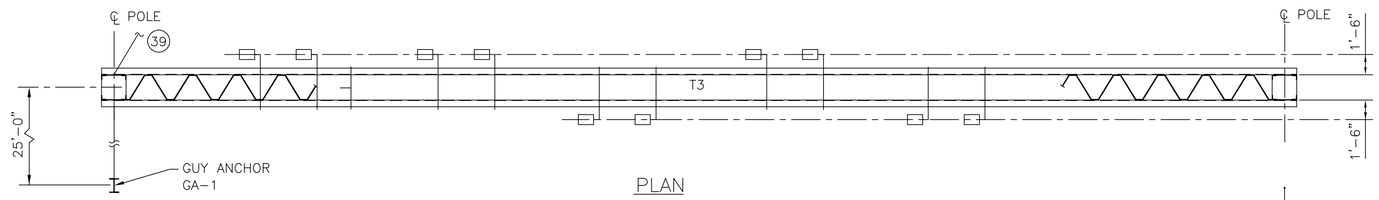
ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-388X

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-388X.dwg XX% DESIGN

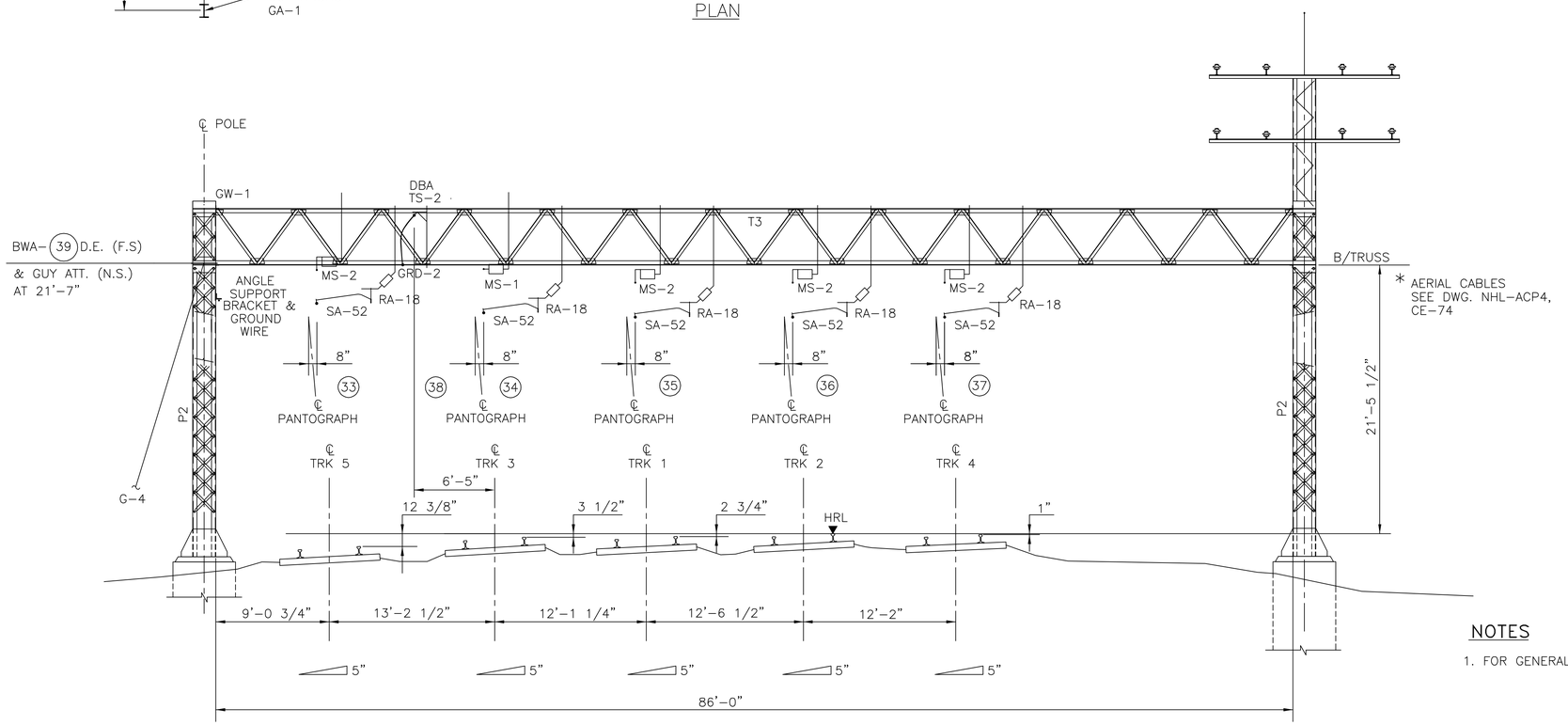
TRACK	5		3		1	2	4
WIRE NO.	39	33	38	34	35	36	37
TAIL/ANC. HT	BWA 21'– 7"		TAIL 25'– 5"				
MESSENGER HT.		21'–10 1/2"		21'–1 1/2"	20'–10"	20'–10"	20'–10"
CONTACT HT.		17'–4 1/2"		17'–7 1/2"	17'–4"	17'–4"	17'–4"
SYSTEM HT. DEPTH		3'–6"		3'–6"	3'–6"	3'–6"	3'–6"



LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)



PLAN



ELEVATION

CATENARY STRUCTURE 389

STATION 1132+60
LOOKING EAST

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

SCALE: 3/16" = 1'–0"

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301–163	2014	

ERECTION DIAGRAM No. 389

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	EXISTING	
	GUY ANCHOR	GA–1	1
STRUCTURAL STEELWORK & GUYS			
	TRUSS T3	EXISTING	
	POLES P2	EXISTING	
	CROSS ARMS	EXISTING	
	BALANCED WEIGHT ASS'Y	BWA	1
	GUY ASSEMBLY	G–4	1
	DETAIL	DBA	1
33,35,36,37	DROP TUBE ASSEMBLY	DT–U–7	4
33,34(2),35 36,37	DROP TUBE ASSEMBLY	DT–U–8	6
SUPPORT & REGISTRATION ASSEMBLIES			
34	MESSENGER SUPPORT	MS–1	1
33,35,36,37	MESSENGER SUPPORT	MS–2	4
38	TAIL WIRE SUPPORT	TS–2	1
33,34,35 36,37	REGISTRATION ASSEMBLY	RA–18	5
33,34,35 36,37	STEADY ARM	SA–52	5
IN SPAN ASSEMBLIES			
ALL	CATENARY HANGERS	SEE TABULATION	
33,34,35, 36,37	IN–SPAN JUMPER	TYPE "C"	5
38	TERMINATION STRAND SAFETY GRIP ASS'Y	TSG	1
GROUND WIRE ASSEMBLIES			
	GROUND WIRE ASSEMBLY	GW–1	
38	GROUNDING ASSEMBLY	GRD–2	1
	GROUND WIRE ASSEMBLY (STATIC)	N/A	1
MISCELLANEOUS & SWITCHING			
	FEEDER WIRE ASSEMBLY	EXISTING	

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G–8.

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

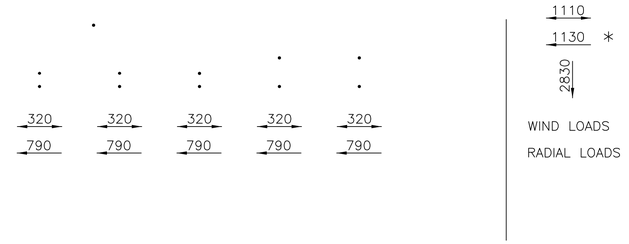
STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 389

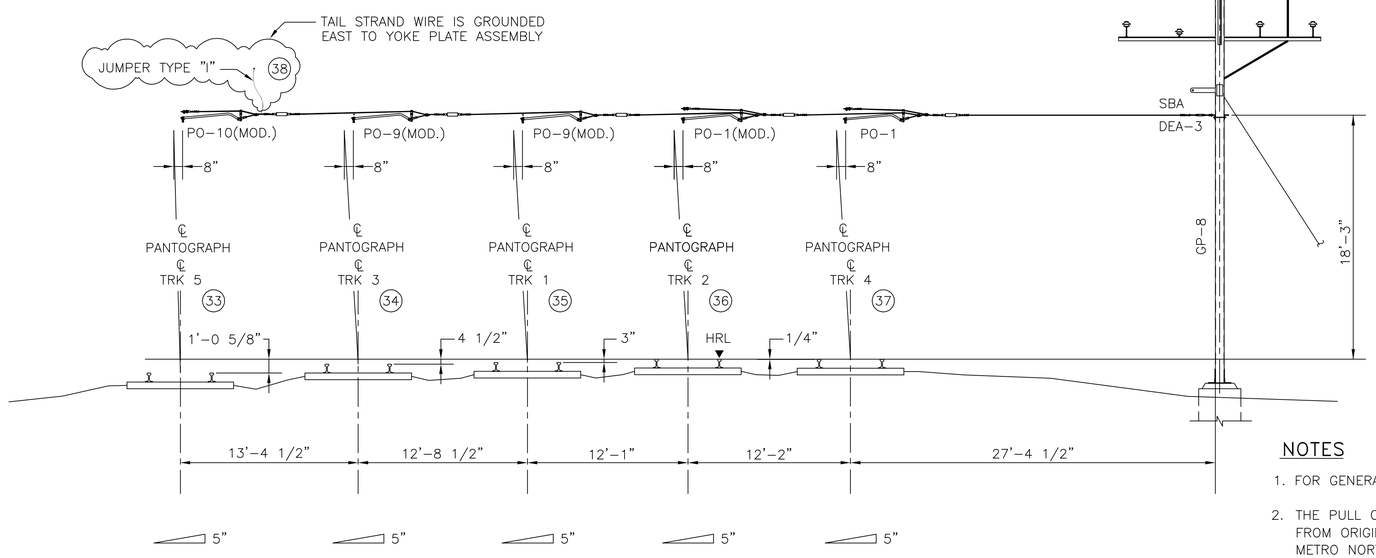
ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED–389

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED–389.dwg XX% DESIGN

TRACK	5	3	1	2	4
WIRE NO.					
TAIL/ANCHOR HT.					
MESSENGER HT.					
CONTACT HT.					
SYSTEM HT. DEPTH					

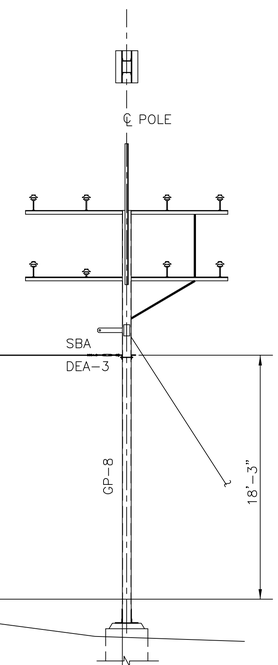


CATENARY LOADING DIAGRAM
(55 MPH WIND, 1/2" ICE ON WIRE, 0°F)



ELEVATION

PULL OFF STRUCTURE 389X
STATION 1134+10
LOOKING EAST



* AERIAL CABLES
SEE DWG. No.
NHL-ACP4 & CE-74.

NOTES

1. FOR GENERAL NOTES, SEE DRAWING G-8.
2. THE PULL OFF ASSEMBLIES WHICH HAVE BEEN MODIFIED FROM ORIGINAL DESIGN DO NOT HAVE DROP BRACKETS. METRO NORTH TO INSTALL SIX (6) HOLE DROP BRACKETS AT THESE LOCATIONS.

SCALE: 3/16" = 1'-0"

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NUMBER
1	CONN.	VARIOUS		301-163	2014	

ERECTION DIAGRAM No. 389X

BILL OF MATERIALS

WIRE NO.	DESCRIPTION	REFERENCE NO.	QTY
FOUNDATION			
	POLE FOUNDATION	EXISTING	
STRUCTURAL STEELWORK & GUYS			
	POLE GP-8	EXISTING	
	CROSS ARMS	EXISTING	
	DETAIL	SBA	1
SUPPORT & REGISTRATION ASSEMBLY			
36	PULL OFF ASSEMBLY	PO-1(MOD.)	1
37	PULL OFF ASSEMBLY	PO-1	1
34,35	PULL OFF ASSEMBLY	PO-9(MOD.)	2
33	PULL OFF ASSEMBLY	PO-10(MOD.)	1
	DEAD END ASSEMBLY	DEA-3	1
IN SPAN ASSEMBLY			
GROUND WIRE ASSEMBLY			
	G.W. ASS'Y	EXISTING	
MISCELLANEOUS & SWITCHING			
	FEEDER WIRE ASS'YS	EXISTING	

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

STAMFORD YARD CATENARY IMPROVEMENTS

ERECTION DIAGRAM – 389X

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
1-(860)-529-8882

NO.	DATE	DESCRIPTION

REVISIONS

ENGINEER: URS CORPORATION AES
DESIGNER: RW | DRAFTER: AMK | CHECKER: AJM
APPROVED: T. HOLLAND | DATE: XX/XX/XX
STRUCTURE NO. | BRIDGE LOG NO. | STRUCTURE SHEET NO. ED-389X

PROJECT CONTROL DATE: XX/XX/XX DISK FILENAME: ED-389X.dwg XX% DESIGN