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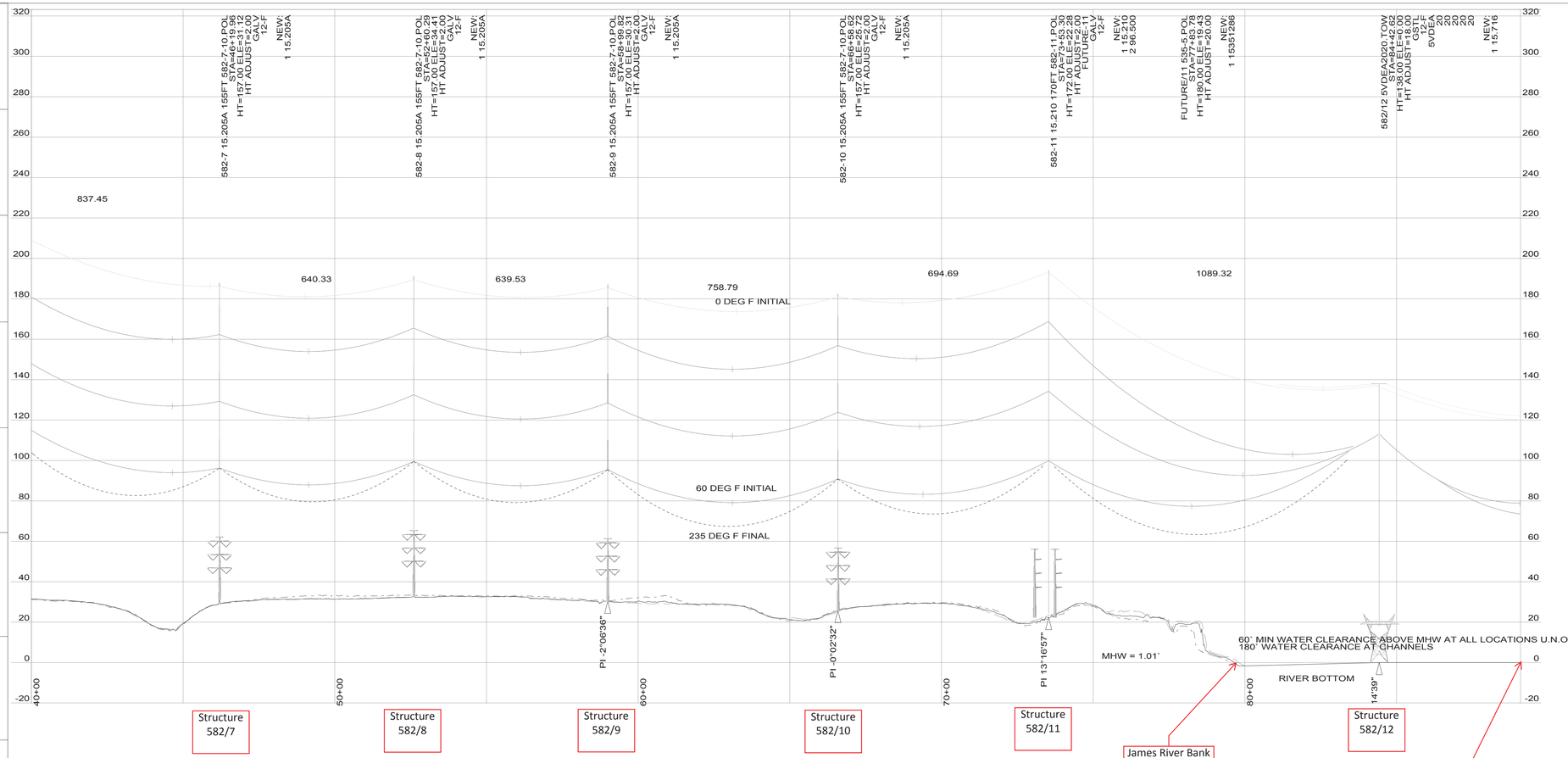
7/9/2015
PAGE 2/16

James River Crossing Profile

PLS-CADD DRAWING



SPAN	RULING SPAN (FEET)	CONDUCTOR	TENSION (LBS)	
582-3 - 582-11	794	DNO 9809	60Â°F INITIAL	3509
			MAXIMUM	7750
582-3 - 582-11	793	DNO 9809	60Â°F INITIAL	3512
			MAXIMUM	7750
582-3 - 582-11	793	1351 ACSR 45/7 "DIPPER"	60Â°F INITIAL	7864
			MAXIMUM	14500
582-11 - 582/12	1070	DNO 9809	60Â°F INITIAL	3841
			MAXIMUM	8500
582-11 - 582/12	1115	DNO 9809	60Â°F INITIAL	3878
			MAXIMUM	8500
582-11 - 582/12	1089	1351 ACSR 45/7 "DIPPER"	60Â°F INITIAL	7571
			MAXIMUM	14500
582/12 - 582/15	979	DNO 9809	60Â°F INITIAL	3827
			MAXIMUM	8500
582/12 - 582/15	955	DNO 9809	60Â°F INITIAL	3878
			MAXIMUM	8500
582/12 - 582/15	966	1351 ACSR 45/7 "DIPPER"	60Â°F INITIAL	7690
			MAXIMUM	14500
			60Â°F INITIAL	
			MAXIMUM	
			60Â°F INITIAL	
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			60Â°F INITIAL	
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'X' - S = NUMBER OF STATIC DAMPERS

'X' - C = NUMBER OF CONDUCTOR DAMPERS

EROSION & SEDIMENTATION NOTES:

1. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE COMPANY'S GENERAL CONSTRUCTION PROVISIONS AND GENERAL EROSION AND SEDIMENTATION CONTROL PLAN.
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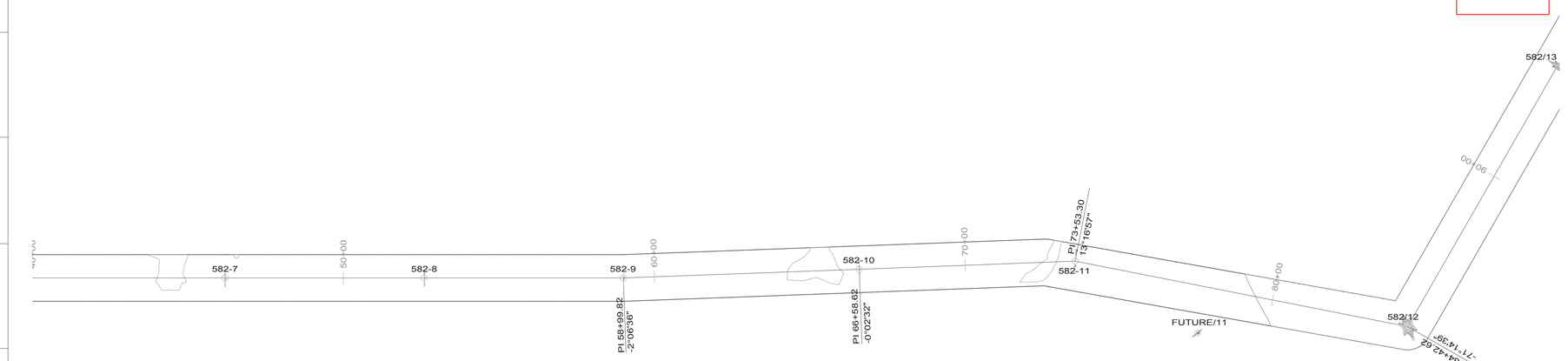


PROFILE IS ALONG SURVEY LINE
20' RIGHT
20' LEFT

200.0 FT. HORIZ. SCALE

30.0 FT. VERT. SCALE

582 LINE STRUNG ON NORTH SIDE OF DC STRUCTURES

DOMINION GROUND CLEARANCE IS CONTROLLED BY 5MA ELECTROSTATIC INDUCTION TO LARGEST VEHICLE ON THE R/W UNDER THE 120 F. FINAL CURVE. THIS IS CONTROLLED BY WIRE SIZE, TOWER DATA, PHASING CONFIGURATION, ETC.

NAD 83/88 VA NORTH

(N.E.S.C.) 2007 EDITION DESIGN SPECIFICATIONS	LOADING			N.E.S.C. CLEARANCES				RULING SPAN
	ICE	WIND	Â°F	WATER	GROUND	ROAD	RAILROAD	SEE TABLE
	1/2"	4 LBS.	0Â°	29.9 FT	27.9 FT	27.9 FT	35.9 FT	

	INSTALLED SIZE	STRINGING TENSION 60Â°F	MAXIMUM TENSION
CONDUCTOR	SEE TABLE	SEE TABLE	SEE TABLE
SHIELD WIRE	SEE TABLE	SEE TABLE	SEE TABLE

ELECTRONIC PLS CADD DATA: K:\WORK\TRANS\05\058201\058201.XYZ

NO.	DATE	BY	DESCRIPTION
	CHECKED		
	APPROVED		

REVISIONS

Dominion
701 E. Cary Street
Richmond, VA 23219

500 KV TRANSMISSION LINE 582
SURRY - SKIFFES CREEK
582-7 - 582/12

	NAME	DATE	SCALE	SHEET NO.
DRAWN	KAK		1" = 30' V	2 OF 16
CHECKED	EK		1" = 200' H	
INSPECTED			DRAWING NO.	
APPROVED			1-582-1-45	
PROJECT NO.	W.O. NO.	B/M NO.		
99-2245		2611	CAD NO.	

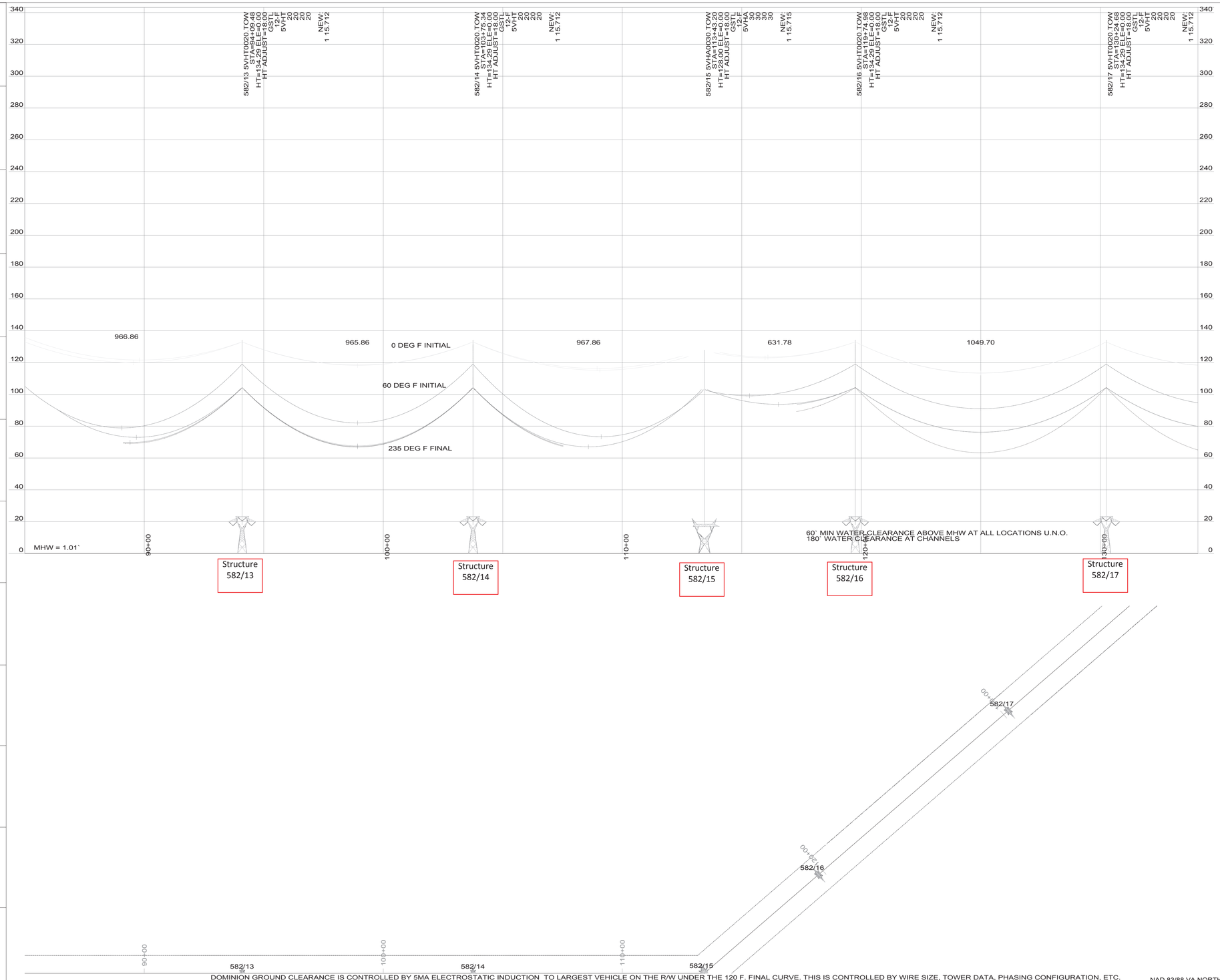
FILE NO. 01-582-01

$DGNSPEC$
$$Y$TIMES

058201
7/9/2015
PAGE 3/16

James River Crossing Profile

PLS-CADD DRAWING



SPAN	RULING SPAN (FEET)	CONDUCTOR	TENSION (LBS)	
582/12 - 582/15	979	DNO 9809	60Â°F INITIAL	3827
			MAXIMUM	8500
582/12 - 582/15	955	DNO 9809	60Â°F INITIAL	3878
			MAXIMUM	8500
582/12 - 582/15	966	1351 ACSR 45/7 "DIPPER"	60Â°F INITIAL	7690
			MAXIMUM	14500
582/15 - 582/20	1113	DNO 9809	60Â°F INITIAL	3579
			MAXIMUM	8500
582/15 - 582/20	1124	DNO 9809	60Â°F INITIAL	3560
			MAXIMUM	8500
582/15 - 582/20	1118	1351 ACSR 45/7 "DIPPER"	60Â°F INITIAL	7523
			MAXIMUM	14500
			60Â°F INITIAL	
			MAXIMUM	
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			MAXIMUM	

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PROFILE IS ALONG SURVEY LINE
20' RIGHT — — — — — — — — — — — —
20' LEFT —·—·—·—·—·—·—·—·—

200.0 FT. HORIZ. SCALE
30.0 FT. VERT. SCALE

FILE NO. 01-582-01

NO.	DATE	BY	DESCRIPTION
	CHECKED		
	APPROVED		

REVISIONS

(N.E.S.C.) 2007 EDITION DESIGN SPECIFICATIONS	LOADING			N.E.S.C. CLEARANCES				RULING SPAN
	ICE	WIND	Â°F	WATER	GROUND	ROAD	RAILROAD	SEE TABLE
	1/2"	4 LBS.	0Â°	29.9 FT	27.9 FT	27.9 FT	35.9 FT	

CONDUCTOR	INSTALLED SIZE	STRINGING TENSION 60Â°F	MAXIMUM TENSION
	SEE TABLE	SEE TABLE	SEE TABLE

SHIELD WIRE	INSTALLED SIZE	STRINGING TENSION 60Â°F	MAXIMUM TENSION
	SEE TABLE	SEE TABLE	SEE TABLE

ELECTRONIC PLS CADD DATA: K:\WORK\TRANS\05\058201\058201.XYZ

Dominion
701 E. Cary Street
Richmond, VA 23219

500 KV TRANSMISSION LINE 582
SURRY - SKIFFES CREEK
582/13 - 582/17

	NAME	DATE	SCALE	SHEET NO.
DRAWN	KAK	4/1/14	1" = 30' V	3 OF 16
CHECKED	EK	4/1/14	1" = 200' H	
INSPECTED			DRAWING NO.	
APPROVED			1-582-1-46	
PROJECT NO. 99-2245	W.O. NO.	B/M NO. 2611	CAD NO.	

$DGNSPEC$
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058201
7/9/2015
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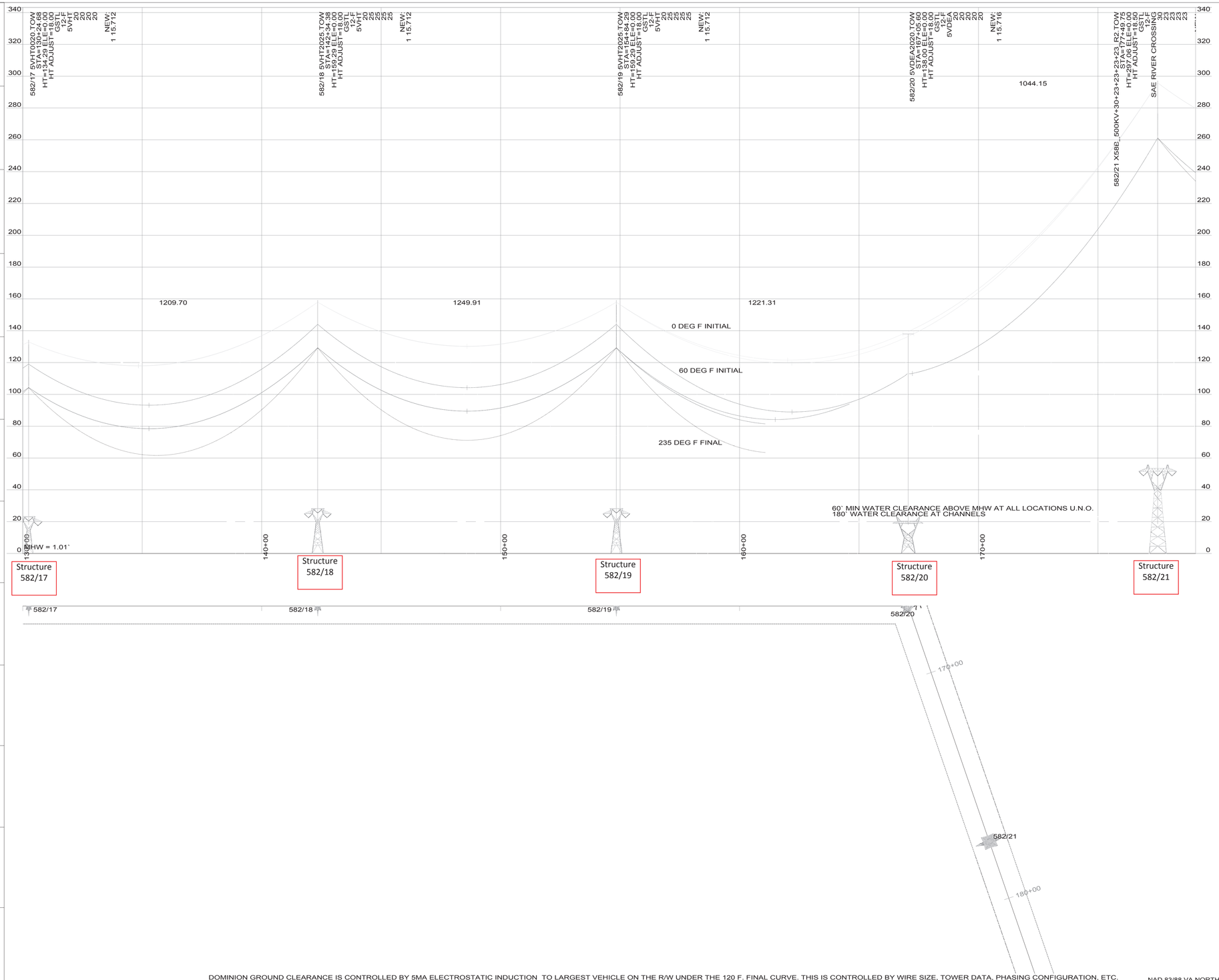
James River Crossing Profile

PLS-CADD DRAWING



SPAN	RULING SPAN (FEET)	CONDUCTOR	TENSION (LBS)	
582/15 - 582/20	1113	DNO 9809	60Â°F INITIAL	3579
			MAXIMUM	8500
582/15 - 582/20	1124	DNO 9809	60Â°F INITIAL	3580
			MAXIMUM	9500
582/15 - 582/20	1118	1351 ACSR 45/7 "DIPPER"	60Â°F INITIAL	7523
			MAXIMUM	14500
582/20 - 582/29	1586	DNO 9809	60Â°F INITIAL	3402
			MAXIMUM	9000
582/20 - 582/29	1586	DNO 9809	60Â°F INITIAL	3402
			MAXIMUM	9000
582/20 - 582/29	1586	1351 ACSR 45/7 "DIPPER"	60Â°F INITIAL	7184
			MAXIMUM	14500
			60Â°F INITIAL	
			MAXIMUM	
			60Â°F INITIAL	
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PROFILE IS ALONG SURVEY LINE
20' RIGHT — — — — — — — — — — — —
20' LEFT —·—·—·—·—·—·—·—·—

200.0 FT. HORIZ. SCALE

30.0 FT. VERT. SCALE

DOMINION GROUND CLEARANCE IS CONTROLLED BY 5MA ELECTROSTATIC INDUCTION TO LARGEST VEHICLE ON THE R/W UNDER THE 120 F. FINAL CURVE. THIS IS CONTROLLED BY WIRE SIZE, TOWER DATA, PHASING CONFIGURATION, ETC.

NAD 83/88 VA NORTH

NO.	DATE	BY	DESCRIPTION
	CHECKED		
	APPROVED		

REVISIONS

(N.E.S.C.) 2007 EDITION DESIGN SPECIFICATIONS	LOADING			N.E.S.C. CLEARANCES				RULING SPAN
	ICE	WIND	Â°F	WATER	GROUND	ROAD	RAILROAD	SEE TABLE
	1/2"	4 LBS.	0Â°	29.9 FT	27.9 FT	27.9 FT	35.9 FT	

CONDUCTOR	INSTALLED SIZE	STRINGING TENSION 60Â°F	MAXIMUM TENSION
	SEE TABLE	SEE TABLE	SEE TABLE

SHIELD WIRE	INSTALLED SIZE	STRINGING TENSION 60Â°F	MAXIMUM TENSION
	SEE TABLE	SEE TABLE	SEE TABLE

ELECTRONIC PLS CADD DATA

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Dominion
701 E. Cary Street
Richmond, VA 23219

500 KV TRANSMISSION LINE 582
SURRY - SKIFFES CREEK
582/17 - 582/21

	NAME	DATE	SCALE	SHEET NO.
DRAWN	KAK	4/1/14	1" = 30' V	4 OF 16
CHECKED	EK	4/1/14	1" = 200' H	
INSPECTED				DRAWING NO.
APPROVED				1-582-1-47
PROJECT NO.	W.O. NO.		B/M NO.	
99-2245			2611	CAD NO.

FILE NO. 01-582-01

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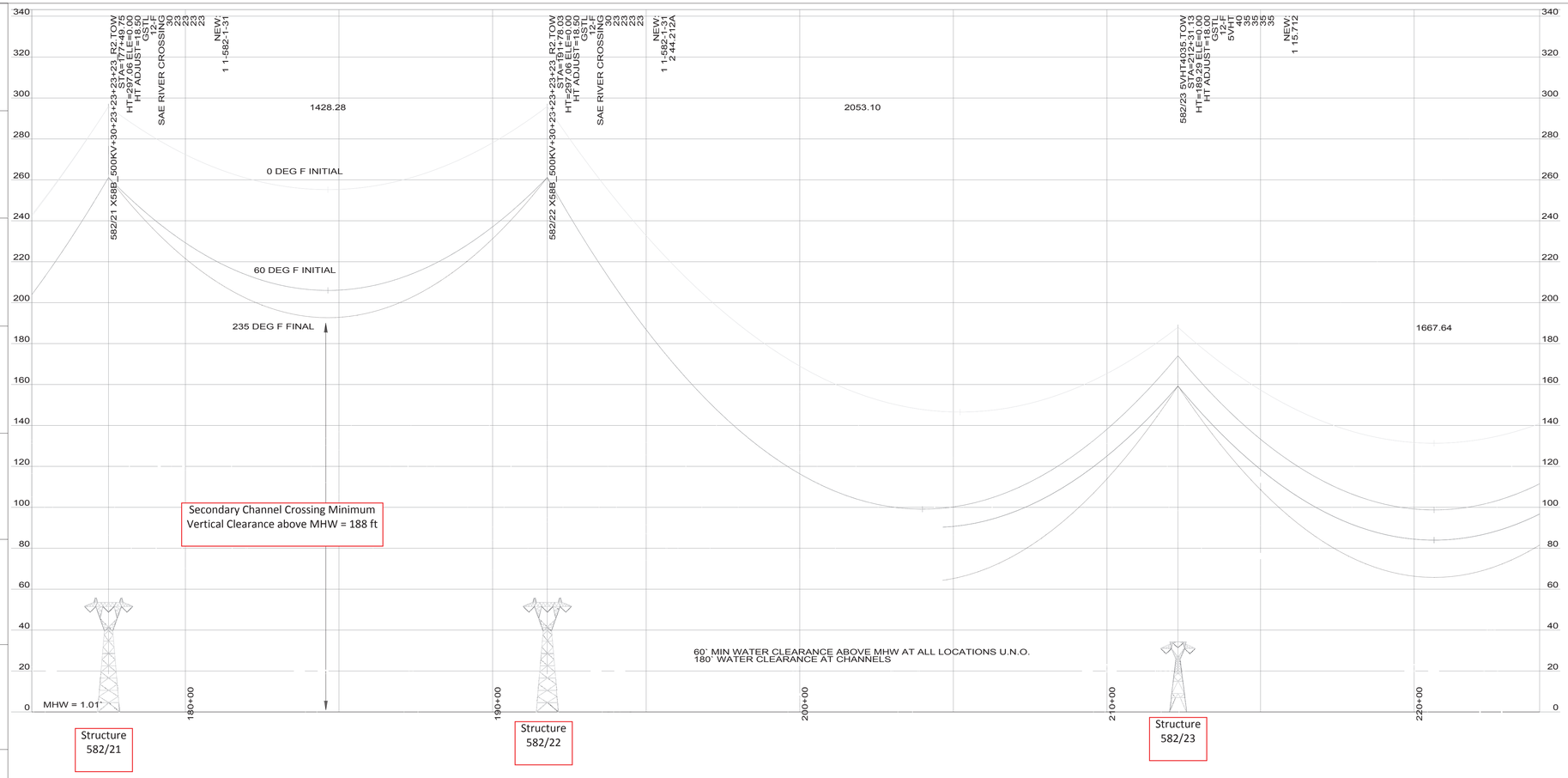
058201
7/9/2015
PAGE 5/16

James River Crossing Profile

PLS-CADD DRAWING



SPAN	RULING SPAN (FEET)	CONDUCTOR	TENSION (LBS)	
582/20 - 582/29	1586	DNO 9809	60Â°F INITIAL	3402
			MAXIMUM	9000
582/20 - 582/29	1586	DNO 9809	60Â°F INITIAL	3402
			MAXIMUM	9000
582/20 - 582/29	1586	1351 ACSR 45/7 "DIPPER"	60Â°F INITIAL	7184
			MAXIMUM	14500
			60Â°F INITIAL	
			MAXIMUM	
			60Â°F INITIAL	
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PROFILE IS ALONG SURVEY LINE
20' RIGHT — — — — — — — — — — — —
20' LEFT —·—·—·—·—·—·—·—·—

200.0 FT. HORIZ. SCALE

30.0 FT. VERT. SCALE

FILE NO. 01-582-01

NO.	DATE	BY	DESCRIPTION
	CHECKED		
	APPROVED		

REVISIONS

DOMINION GROUND CLEARANCE IS CONTROLLED BY 5MA ELECTROSTATIC INDUCTION TO LARGEST VEHICLE ON THE R/W UNDER THE 120 F. FINAL CURVE. THIS IS CONTROLLED BY WIRE SIZE, TOWER DATA, PHASING CONFIGURATION, ETC.

NAD 83/88 VA NORTH

(N.E.S.C.) 2007 EDITION DESIGN SPECIFICATIONS	LOADING			N.E.S.C. CLEARANCES				RULING SPAN
	ICE	WIND	Â°F	WATER	GROUND	ROAD	RAILROAD	SEE TABLE
	1/2"	4 LBS.	0Â°	29.9 FT	27.9 FT	27.9 FT	35.9 FT	

CONDUCTOR	INSTALLED SIZE	STRINGING TENSION 60Â°F	MAXIMUM TENSION
	SEE TABLE	SEE TABLE	SEE TABLE

SHIELD WIRE	INSTALLED SIZE	STRINGING TENSION 60Â°F	MAXIMUM TENSION
	SEE TABLE	SEE TABLE	SEE TABLE

ELECTRONIC PLS CADD DATA: K:\WORK\TRANS\05\058201\058201.XYZ

Dominion
701 E. Cary Street
Richmond, VA 23219

500 KV TRANSMISSION LINE 582
SURRY - SKIFFES CREEK
582/21 - 582/23

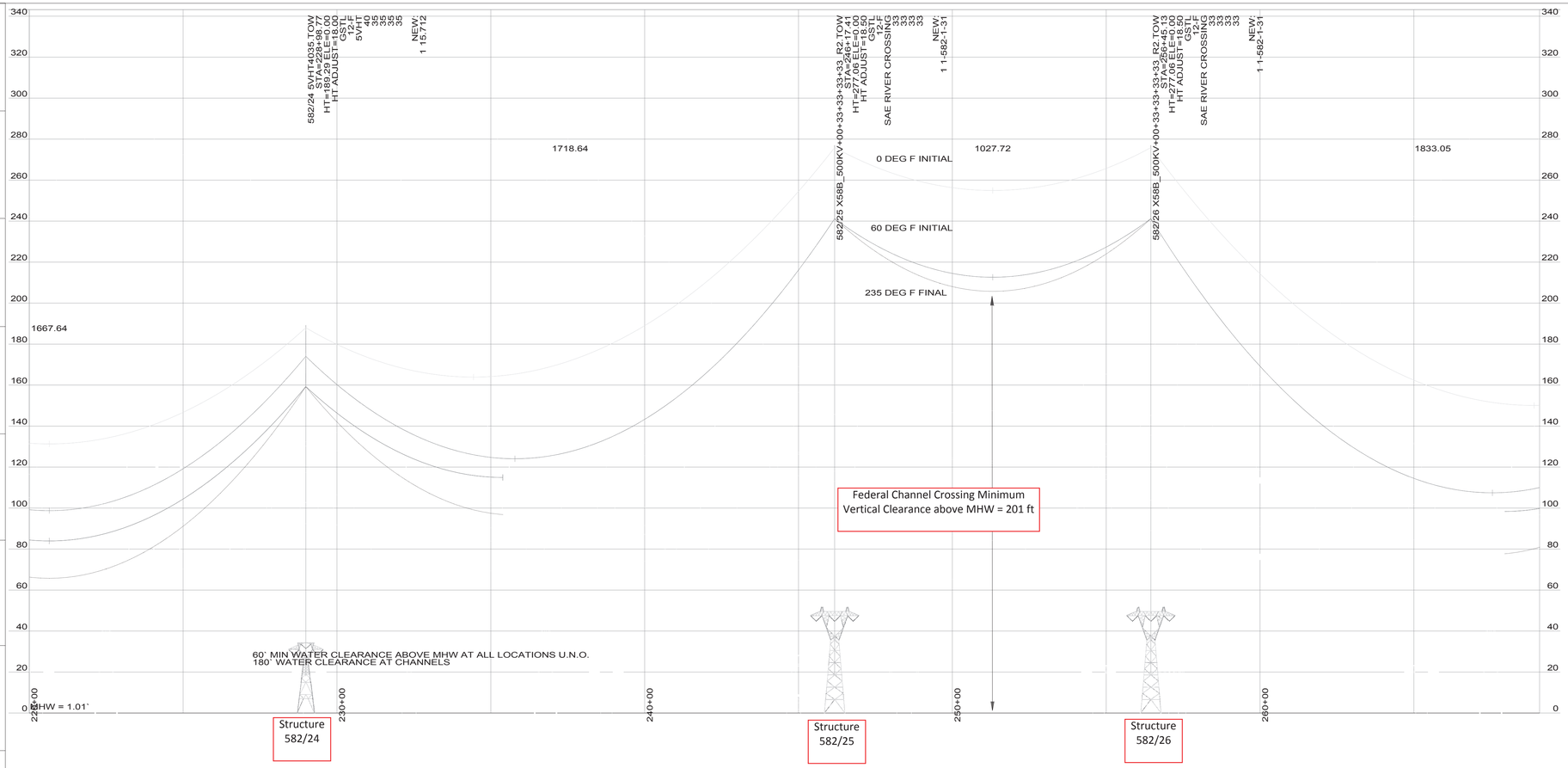
	NAME	DATE	SCALE	SHEET NO.
DRAWN	KAK	4/1/14	1" = 30' V	5 OF 16
CHECKED	EK	4/1/14	1" = 200' H	
INSPECTED				DRAWING NO.
APPROVED				1-582-1-48
PROJECT NO.	W.O. NO.	B/M NO.		
99-2245		2611	CAD NO.	

$DGNSPEC$
$$YTIMES

058201
7/9/2015
PAGE 6/16

James River Crossing Profile

PLS-CADD DRAWING



SPAN	RULING SPAN (FEET)	CONDUCTOR	TENSION (LBS)	
582/20 - 582/29	1586	DNO 9809	60Â°F INITIAL	3402
			MAXIMUM	9000
582/20 - 582/29	1586	DNO 9809	60Â°F INITIAL	3402
			MAXIMUM	9000
582/20 - 582/29	1586	1351 ACSR 45/7 "DIPPER"	60Â°F INITIAL	7184
			MAXIMUM	14500
			60Â°F INITIAL	
			MAXIMUM	
			60Â°F INITIAL	
			MAXIMUM	
			60Â°F INITIAL	
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PROFILE IS ALONG SURVEY LINE
20' RIGHT ————————————
20' LEFT —·—·—·—·—·—·—·—

200.0 FT. HORIZ. SCALE
30.0 FT. VERT. SCALE

FILE NO. 01-582-01

NO.	DATE	BY	DESCRIPTION
	CHECKED		
	APPROVED		

REVISIONS

DOMINION GROUND CLEARANCE IS CONTROLLED BY 5MA ELECTROSTATIC INDUCTION TO LARGEST VEHICLE ON THE R/W UNDER THE 120 F. FINAL CURVE. THIS IS CONTROLLED BY WIRE SIZE, TOWER DATA, PHASING CONFIGURATION, ETC.

NAD 83/88 VA NORTH

(N.E.S.C.) 2007 EDITION DESIGN SPECIFICATIONS	LOADING			N.E.S.C. CLEARANCES				RULING SPAN
	ICE	WIND	Â°F	WATER	GROUND	ROAD	RAILROAD	SEE TABLE
	1/2"	4 LBS.	0Â°	29.9 FT	27.9 FT	27.9 FT	35.9 FT	

CONDUCTOR	INSTALLED SIZE	STRINGING TENSION 60Â°F	MAXIMUM TENSION
	SEE TABLE	SEE TABLE	SEE TABLE

SHIELD WIRE	INSTALLED SIZE	STRINGING TENSION 60Â°F	MAXIMUM TENSION
	SEE TABLE	SEE TABLE	SEE TABLE

ELECTRONIC PLS CADD DATA: K:\WORK\TRANS\05\058201\058201.XYZ

Dominion
701 E. Cary Street
Richmond, VA 23219

500 KV TRANSMISSION LINE 582
SURRY - SKIFFES CREEK
582/24 - 582/26

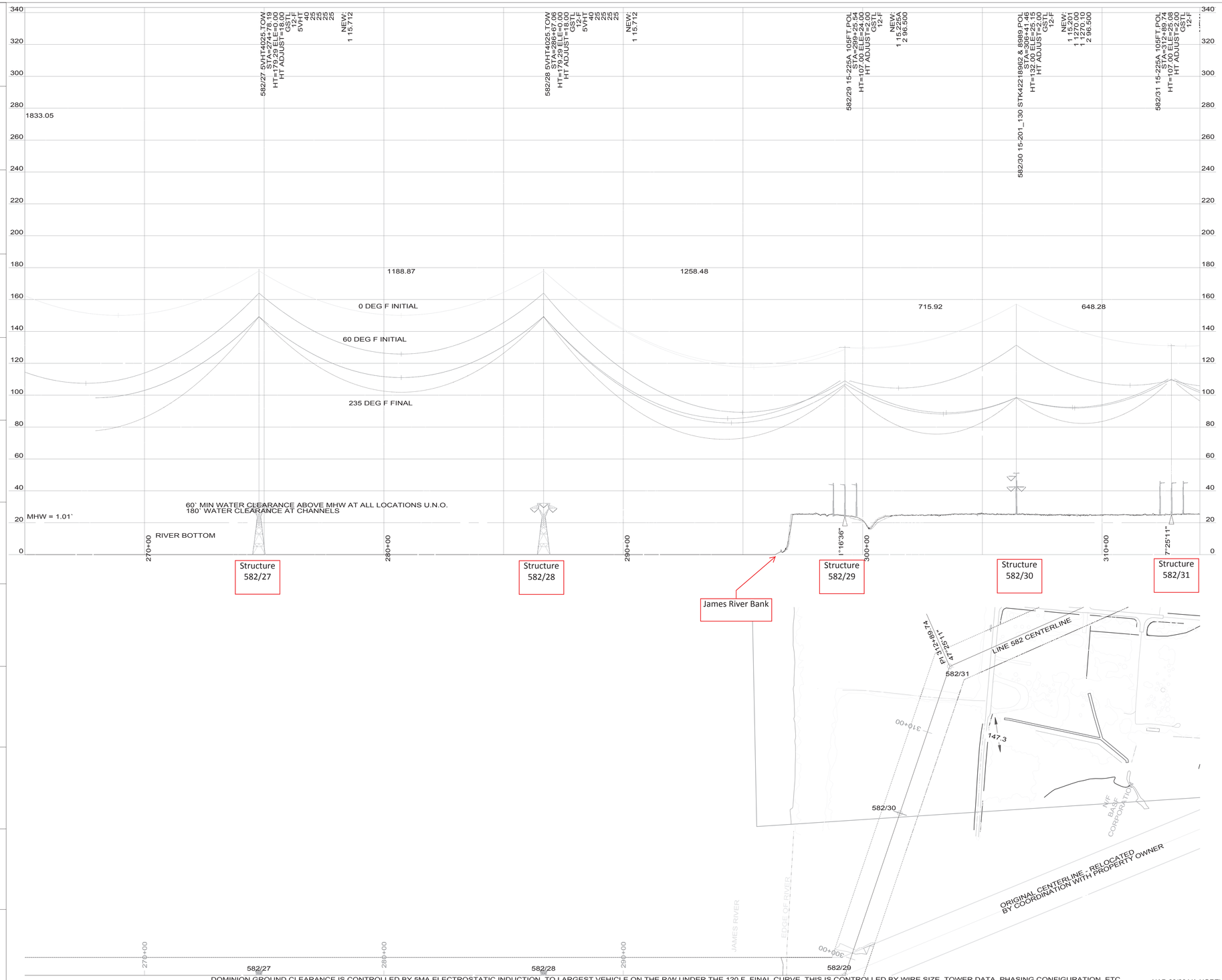
	NAME	DATE	SCALE	SHEET NO.
DRAWN	KAK	4/1/14	1" = 30' V	6 OF 16
CHECKED	EK	4/1/14	1" = 200' H	
INSPECTED				DRAWING NO.
APPROVED				1-582-1-49
PROJECT NO.	W.O. NO.	B/M NO.		
99-2245		2611	CAD NO.	

$DGNSPEC$
$$YTIMES

058201
7/9/2015
PAGE 7/16

James River Crossing Profile

PLS-CADD DRAWING



SPAN	RULING SPAN (FEET)	CONDUCTOR	TENSION (LBS)	
582/20 - 582/29	1586	DNO 9809	60Â°F INITIAL	3402
			MAXIMUM	9000
582/20 - 582/29	1586	DNO 9809	60Â°F INITIAL	3402
			MAXIMUM	9000
582/20 - 582/29	1586	1351 ACSR 45/7 "DIPPER"	60Â°F INITIAL	7184
			MAXIMUM	14500
582/29 - 582/31	839	DNO 9809	60Â°F INITIAL	3431
			MAXIMUM	7750
582/29 - 582/31	850	DNO 9809	60Â°F INITIAL	3408
			MAXIMUM	7750
582/29 - 582/31	844	1351 ACSR 45/7 "DIPPER"	60Â°F INITIAL	7847
			MAXIMUM	14500
			60Â°F INITIAL	
			MAXIMUM	
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			60Â°F INITIAL	
			MAXIMUM	
			60Â°F INITIAL	
			MAXIMUM	

'X' - S = NUMBER OF STATIC DAMPERS

'X' - C = NUMBER OF CONDUCTOR DAMPERS

EROSION & SEDIMENTATION NOTES:

1. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE COMPANY'S GENERAL CONSTRUCTION PROVISIONS AND GENERAL EROSION AND SEDIMENTATION CONTROL PLAN.
2. EROSION & SEDIMENTATION MEASURES TAKEN AT EACH STRUCTURE SHALL BE SPECIFIED BY THE PROJECT COORDINATOR AND IMPLEMENTED PRIOR TO EARTH DISTURBING ACTIVITIES.
3. AT A MINIMUM, AREAS MARKED ON THE PLAN AND PROFILE DRAWING BY <——> SHALL BE PROTECTED AGAINST EROSION WHEN ANY EARTH DISTURBING ACTIVITIES OCCUR UPSTREAM OF THESE AREAS.

PROFILE IS ALONG SURVEY LINE
20' RIGHT - - - - - - - - - - - -
20' LEFT —·—·—·—·—·—·—

200.0 FT. HORIZ. SCALE
30.0 FT. VERT. SCALE

FILE NO. 01-582-01

NO.	DATE	BY	DESCRIPTION
	CHECKED		
	APPROVED		

REVISIONS

DOMINION GROUND CLEARANCE IS CONTROLLED BY 5MA ELECTROSTATIC INDUCTION TO LARGEST VEHICLE ON THE R/W UNDER THE 120 F. FINAL CURVE. THIS IS CONTROLLED BY WIRE SIZE, TOWER DATA, PHASING CONFIGURATION, ETC.

NAD 83/88 VA NORTH

(N.E.S.C.) 2007 EDITION DESIGN SPECIFICATIONS	LOADING			N.E.S.C. CLEARANCES				RULING SPAN
	ICE	WIND	Â°F	WATER	GROUND	ROAD	RAILROAD	SEE TABLE
	1/2"	4 LBS.	0Â°	29.9 FT	27.9 FT	27.9 FT	35.9 FT	

CONDUCTOR	INSTALLED SIZE	STRINGING TENSION 60Â°F	MAXIMUM TENSION
	SEE TABLE	SEE TABLE	SEE TABLE

SHIELD WIRE	INSTALLED SIZE	STRINGING TENSION 60Â°F	MAXIMUM TENSION
	SEE TABLE	SEE TABLE	SEE TABLE

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Dominion
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Richmond, VA 23219

500 KV TRANSMISSION LINE 582
SURRY - SKIFFES CREEK
582/27 - 582/31

	NAME	DATE	SCALE	SHEET NO.
DRAWN	KAK	4/1/14	1" = 30' V	7 OF 16
CHECKED	EK	4/1/14	1" = 200' H	
INSPECTED				DRAWING NO.
APPROVED				1-582-1-50
PROJECT NO.	W.O. NO.	B/M NO.		
99-2245		2611	CAD NO.	

$DGNSPEC$
$$YTIMES