

BIG STONE SOUTH - ELLENDALE 345 KV TRANSMISSION LINE

STR 590 - BIG STONE SOUTH SUB (SOUTH DAKOTA)

20190301
ISSUED FOR
RECORD



REVISIONS					
REV	DESCRIPTION	DWN	DGN	CHK	DATE
3	ISSUED FOR RECORD				03/01/19

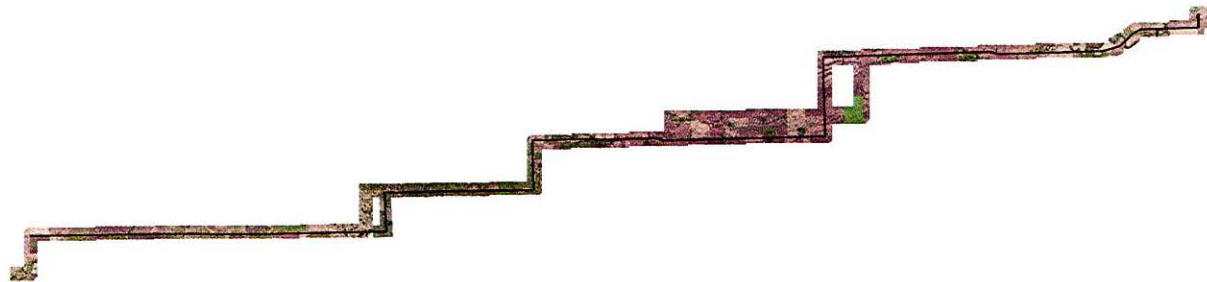
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DESIGN BY: GMD		09/23/16
CHECKED BY: JPW		09/23/16
APPROVED BY: DJF		09/23/16

DESIGN DATA	
CONDUCTOR: (2X) 477 KCMIL 26/7 TP HAWK ACSR	
SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL	
OPGW: 1-DN0-10523	
COORDINATE SYSTEM: UTM ZONE 14N US FT	



BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

DWG. NO.
BSSE-PP-104-1
REVISION: 3
136508



20190301
ISSUED FOR
RECORD



REVISIONS				
REV	DESCRIPTION	DWN	CHK	DATE
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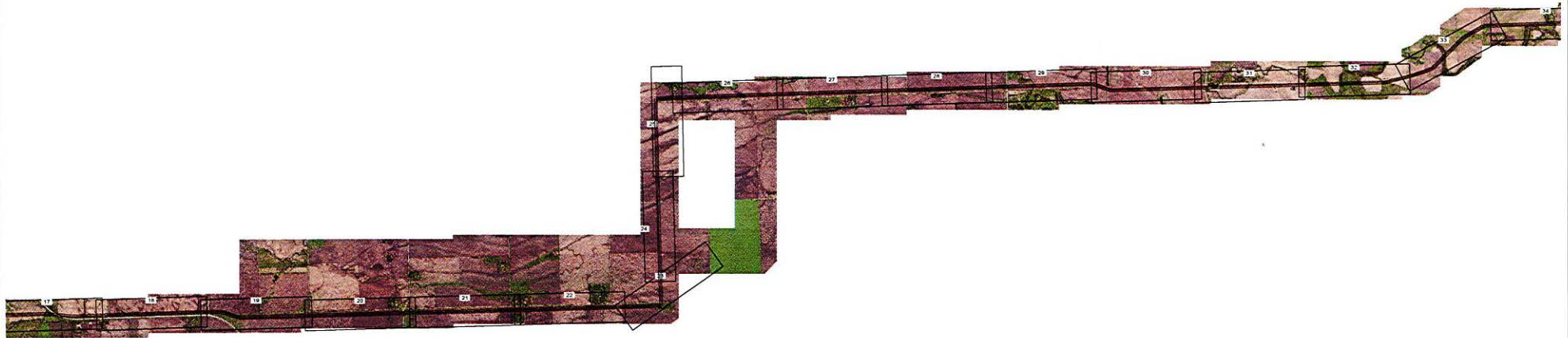
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APPROVED BY: DJF		09/23/16

DESIGN DATA	
CONDUCTOR: (2X) 477 KCMIL 26/7 TP HAWK ACSR	
SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL	
OPGW: 1-DNO-10523	
COORDINATE SYSTEM: UTM ZONE 14N, US FT	



BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

DWG. NO.
BSSE-PP-104-2
REVISION: 3
136508



20190301
ISSUED FOR
RECORD



REVISIONS					
REV	DESCRIPTION	DWN	DGN	CHK	DATE
3	ISSUED FOR RECORD	JDB	JDB	JPW	03/01/19

APPROVALS	
DRAWN BY: GMD	09/23/16
DESIGN BY: GMD	09/23/16
CHECKED BY: JPW	09/23/16
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DATE	
09/23/16	
09/23/16	
09/23/16	
09/23/16	

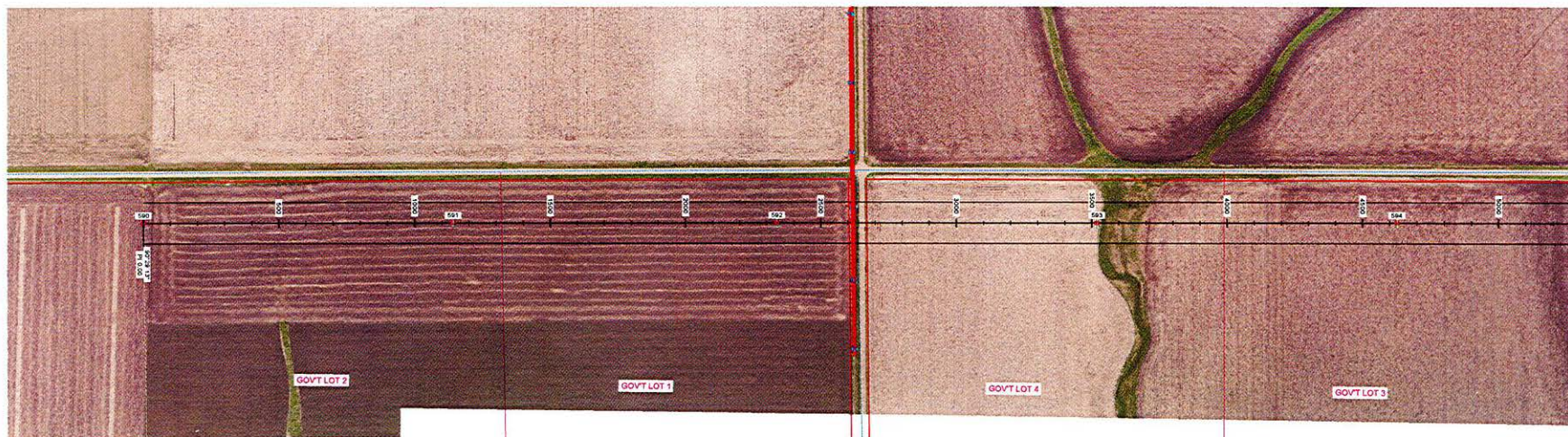
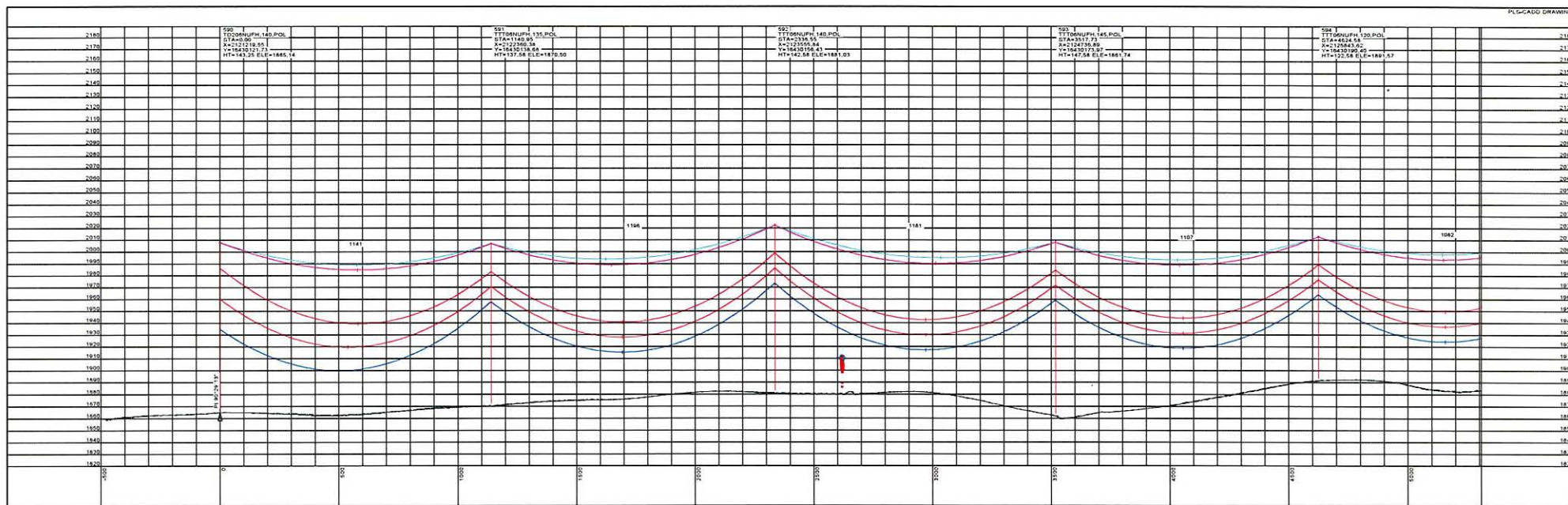
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CONDUCTOR: (2X) 477 KCMIL 26/7 TP HAWK ACSR	
SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL	
OPGW: 1-DND-10523	
COORDINATE SYSTEM: UTM ZONE 14N, US FT	



BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE



DWG. NO. BSSE-PP-104-4
REVISION: 3
136508



STRS: 590 - 594

20190301
ISSUED FOR
RECORD



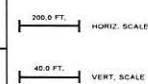
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APPROVALS		DATE
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CHECKED BY: JPW		09/23/16
APPROVED BY: DJF		09/23/16

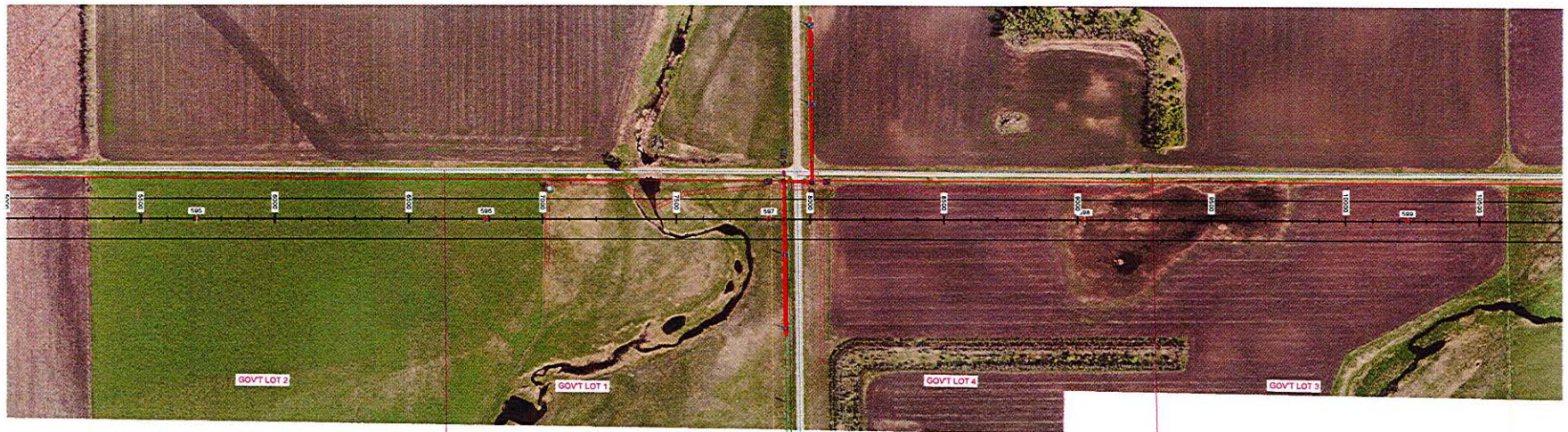
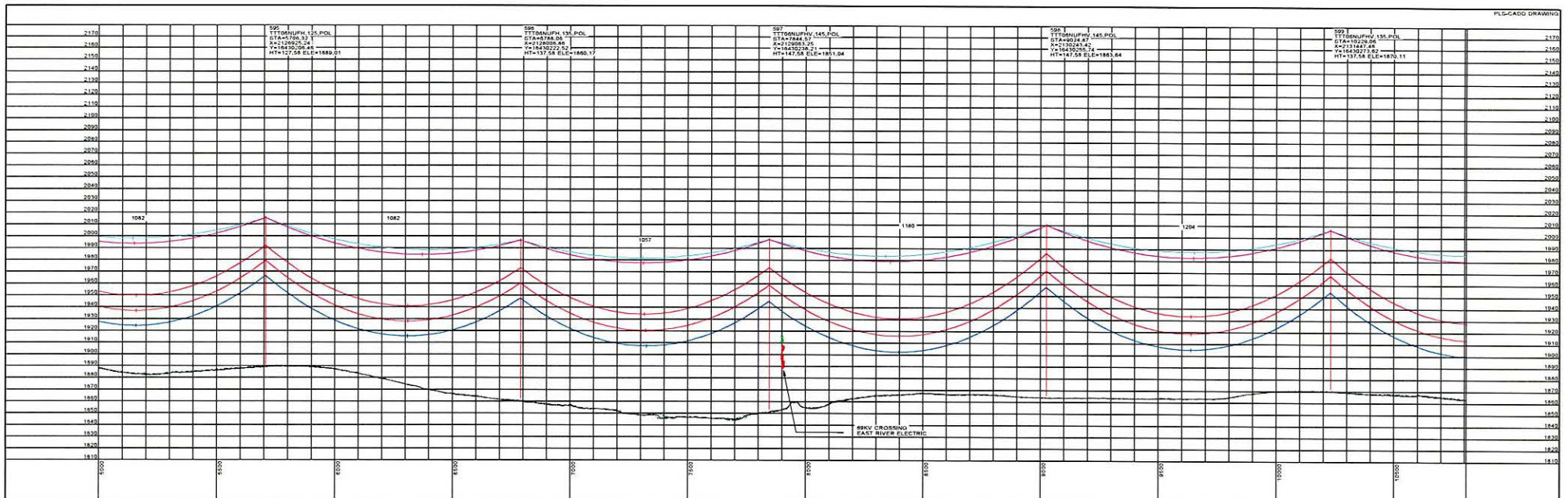
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CONDUCTOR: (2X) 477 KCMIL 267 TP HAWK ACSR	
SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL	
OPGW: 1-DN0-10523	
COORDINATE SYSTEM: UTM ZONE 14N, US FT	



BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE



DWG. NO. BSSE-PP-104-6
REVISION: 3
136508



20190301
ISSUED FOR
RECORD



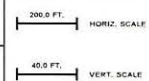
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CHECKED BY: JPW		09/23/16
APPROVED BY: DJF		09/23/16

DESIGN DATA	
CONDUCTOR: (2X) 477 KCMIL 26/7 TP HAWK ACSR	
SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL	
OPGW: 1-DNO-10523	
COORDINATE SYSTEM: UTM ZONE 14N, US FT	

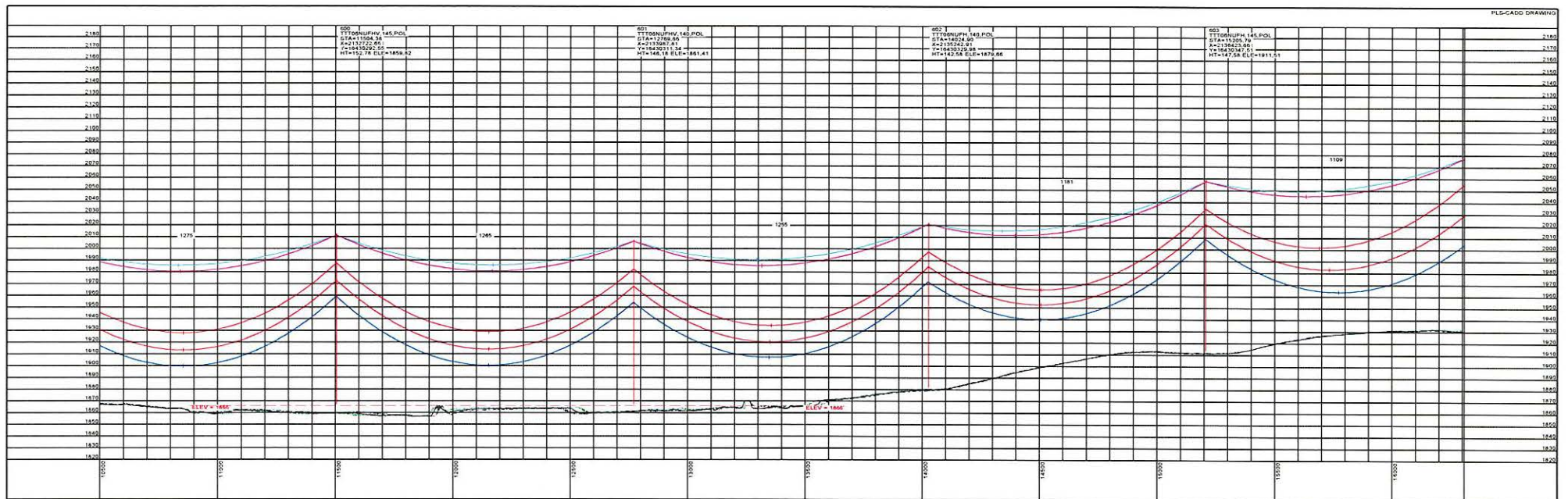


BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE



STRS: 595 - 599

DWG. NO.
BSSE-PP-104-7
REVISION: 3
136508



STRS: 600 - 603

20190301
ISSUED FOR
RECORD



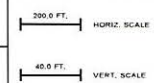
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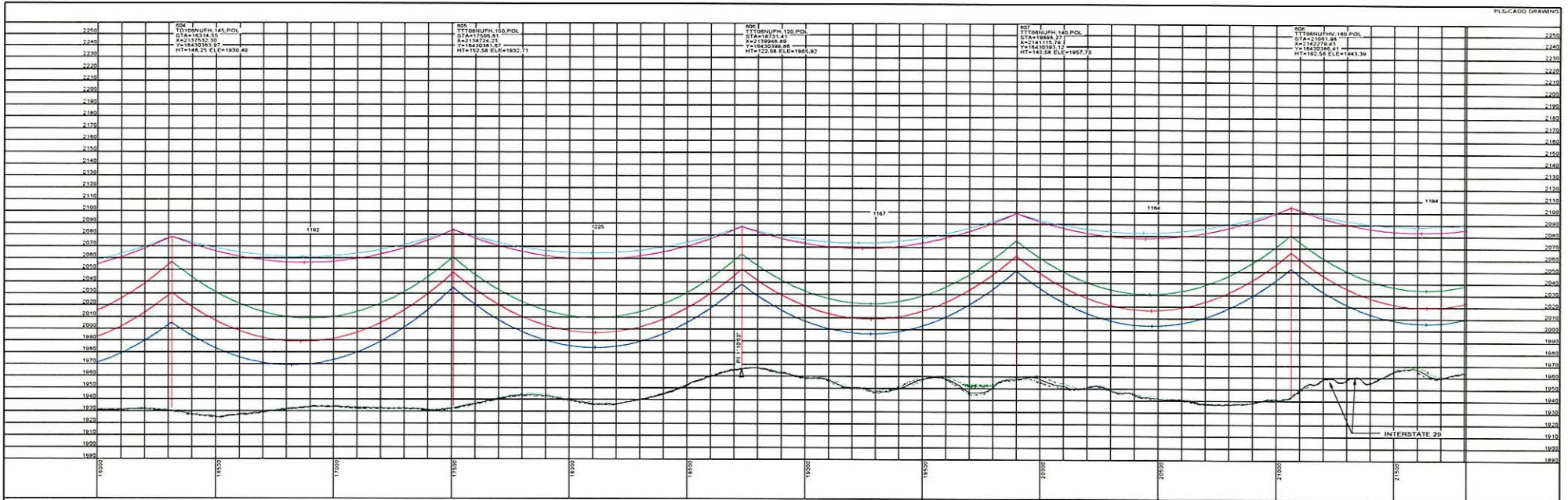
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CONDUCTOR: (2X) 477 KCMIL 26/7 TP HAWK ACSR	
SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL	
OPGW: 1-DN0-10523	
COORDINATE SYSTEM: UTM ZONE 14N, US FT	



BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE



DWG. NO.
BSSE-PP-104-8
REVISION: 3
136508



20190301
ISSUED FOR
RECORD



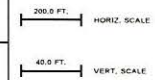
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				03/01/19

APPROVALS		DATE
DRAWN BY: GMD		09/23/16
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CHECKED BY: JPW		09/23/16
APPROVED BY: DJF		09/23/16

DESIGN DATA	
CONDUCTOR: (2X) 477 KCMIL 267 TP HAWK ACSR	
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OPGW: 1-DNO-10523	
COORDINATE SYSTEM: UTM ZONE 14N, US FT	

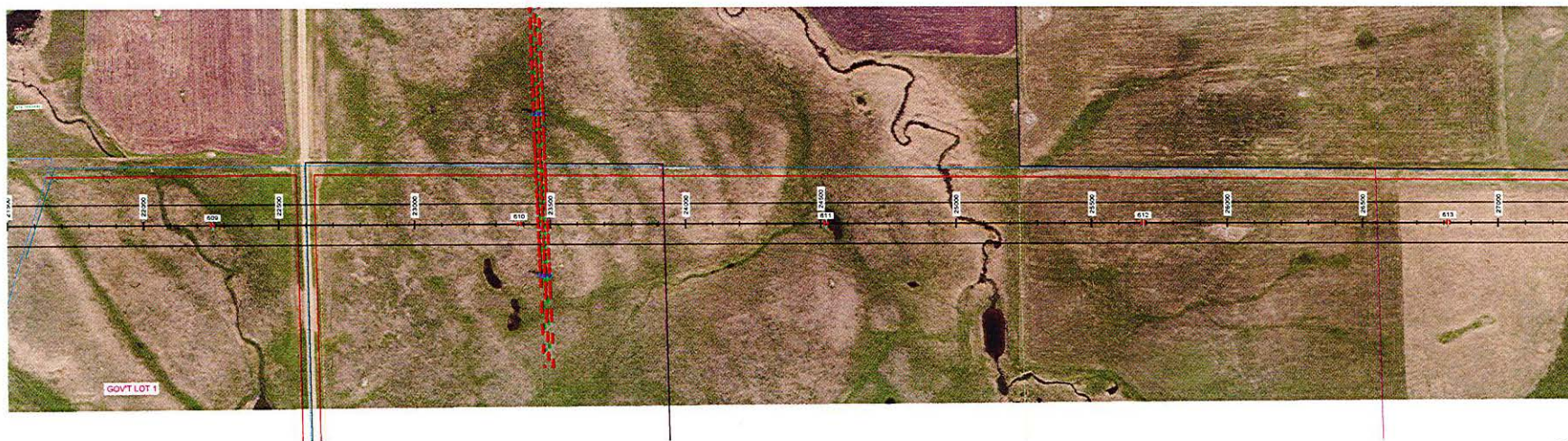
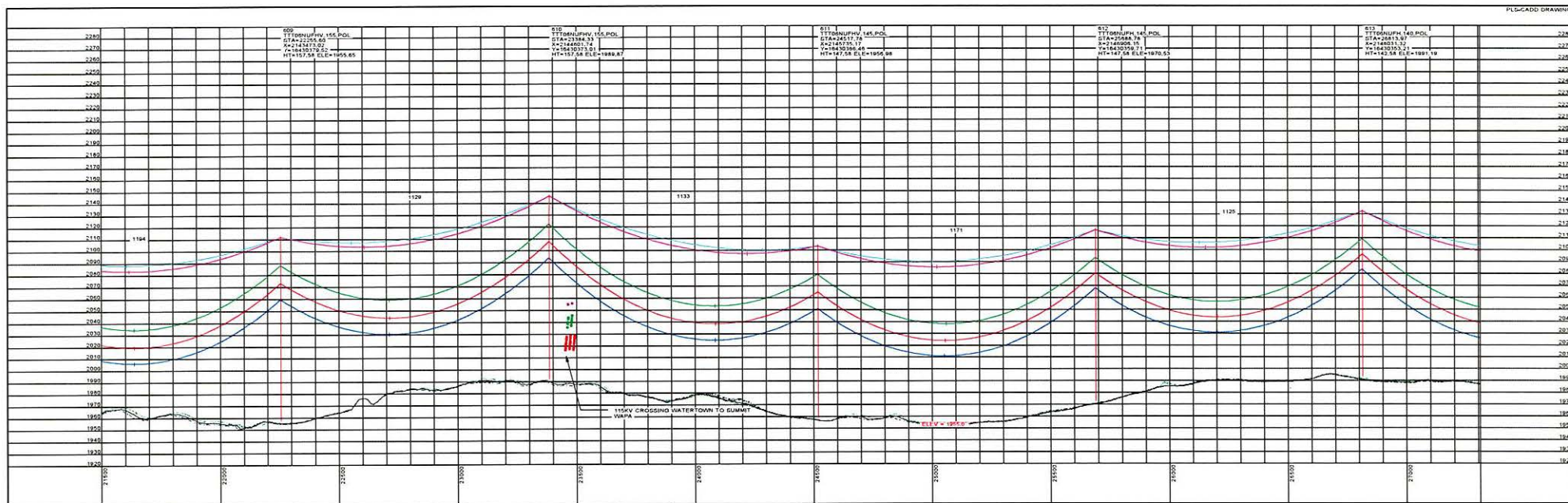


BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE



STRS: 604 - 608

DWG. NO.
BSSE-PP-104-9
REVISION: 3
136508



STRS: 609 - 613

20190301
ISSUED FOR
RECORD



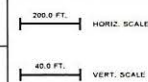
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APPROVALS		DATE
DRAWN BY: GMD		09/23/16
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CHECKED BY: JPW		09/23/16
APPROVED BY: DJF		09/23/16

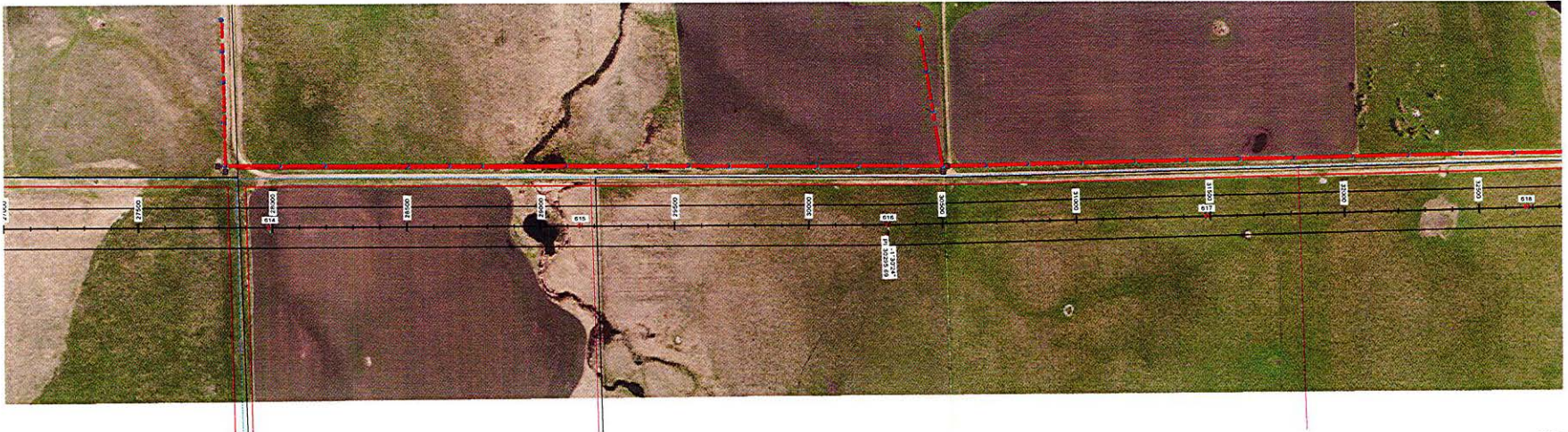
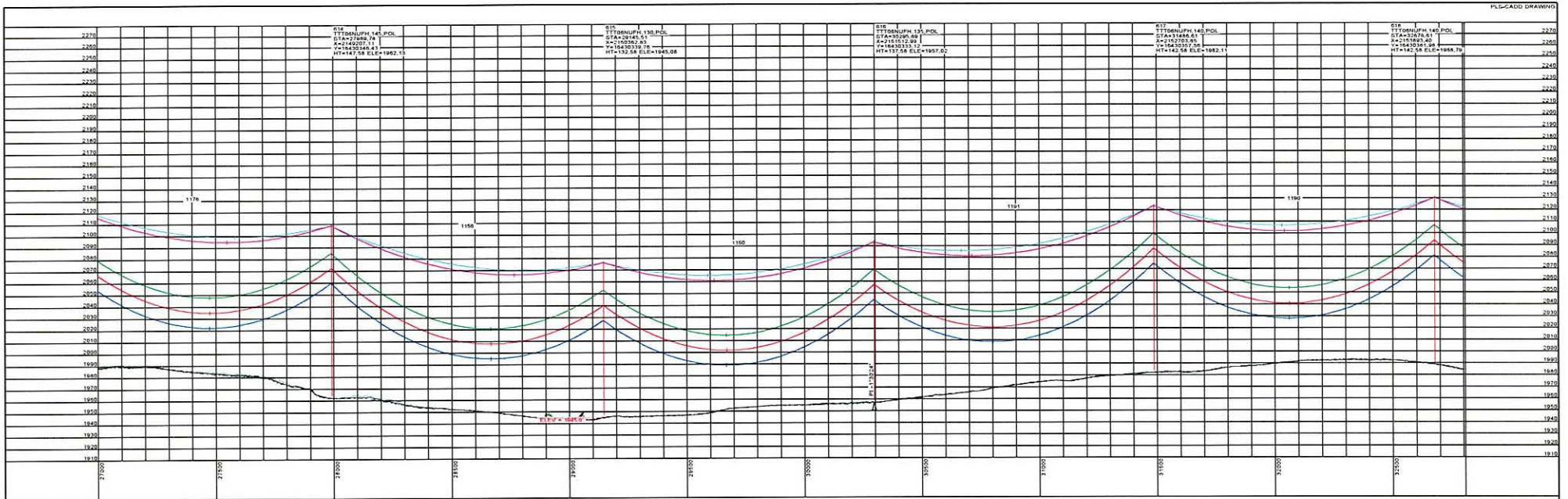
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CONDUCTOR: (2X) 477 KCMIL 26/7 TP HAWK ACSR	
SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL	
OPGW: 1-DN0-10523	
COORDINATE SYSTEM: UTM ZONE 14N, US FT	



BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE



DWG. NO.
BSS-PP-104-10
REVISION: 3
136508



STRS: 614 - 618

20190301
ISSUED FOR
RECORD



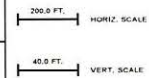
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APPROVALS		DATE
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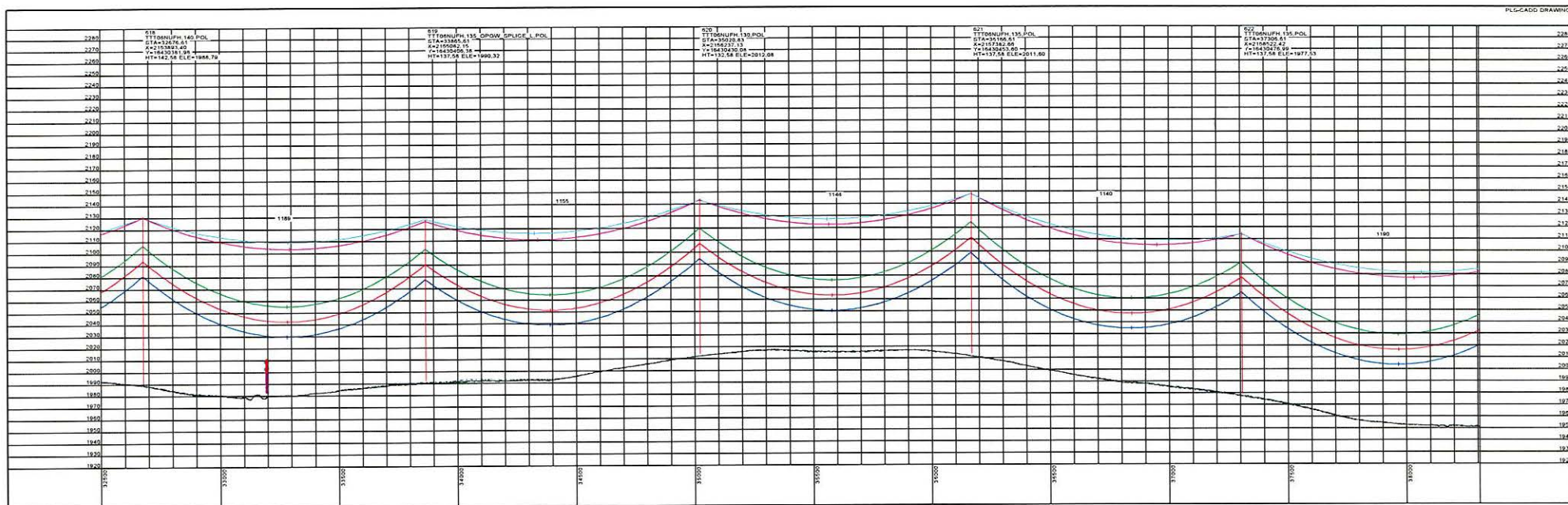
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SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL	
OPGW: 1-DN0-10523	
COORDINATE SYSTEM: UTM ZONE 14N, US FT	



BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE



DWG. NO.
BSSE-PP-104-11
REVISION: 3
136508



STRS: 618 - 622

20190301
ISSUED FOR
RECORD



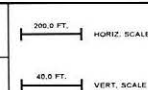
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CHECKED BY: JPW		09/23/16	
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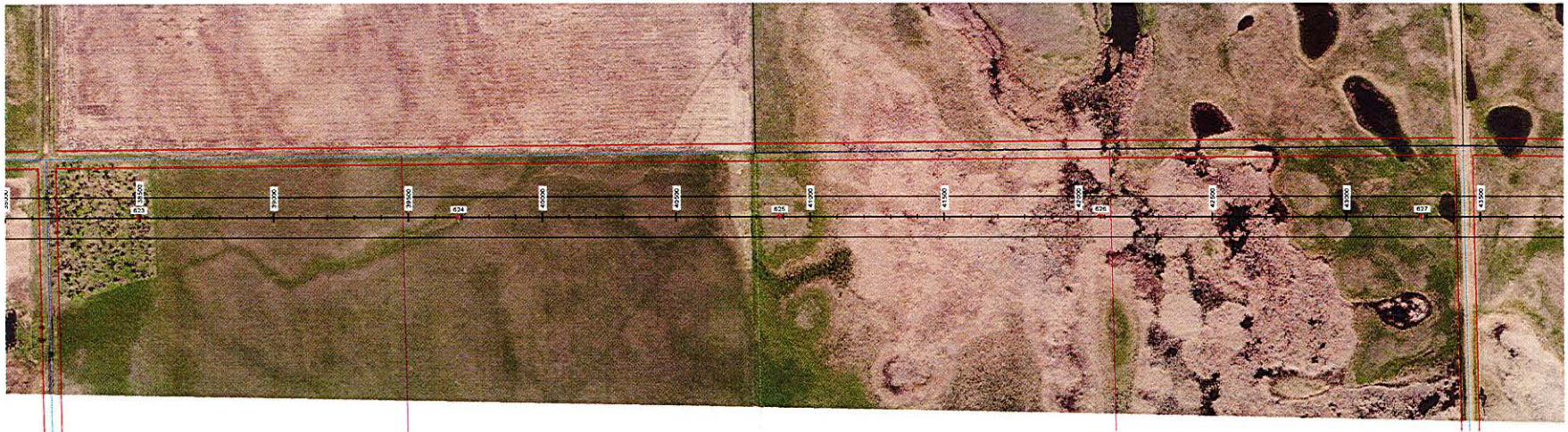
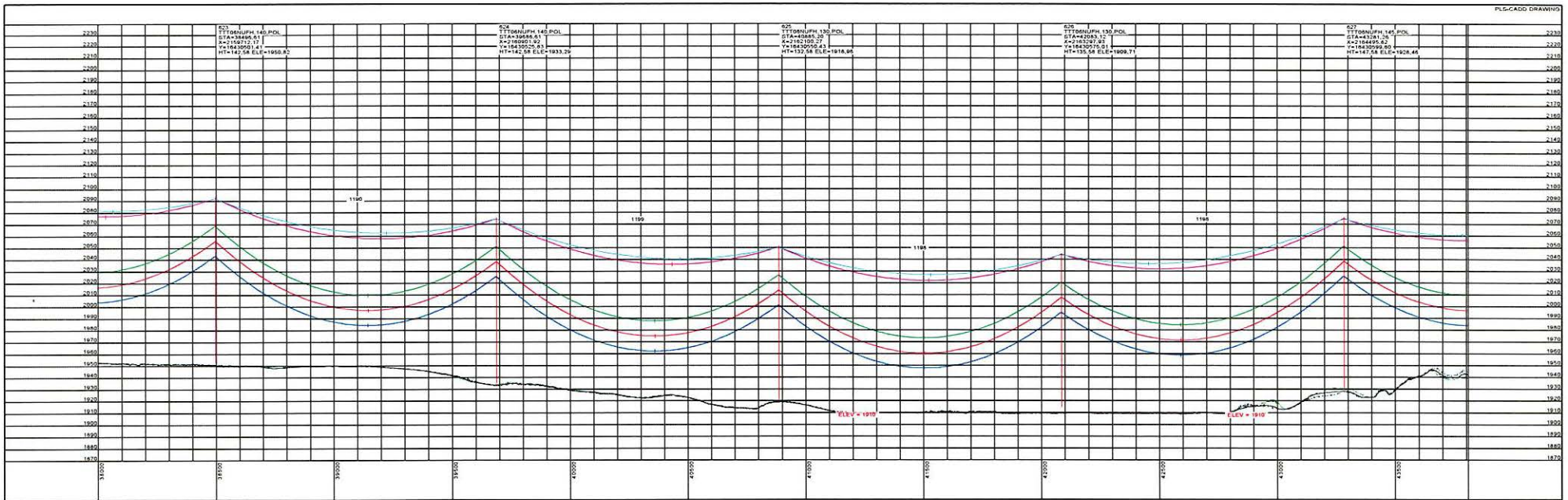
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SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL	
OPGW: 1-DN0-10523	
COORDINATE SYSTEM: UTM ZONE 14N, US FT	



BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE



DWG. NO.
BSS-PP-104-12
REVISION: 3
136508



STRS: 623 - 627

20190301
ISSUED FOR
RECORD



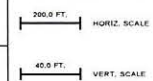
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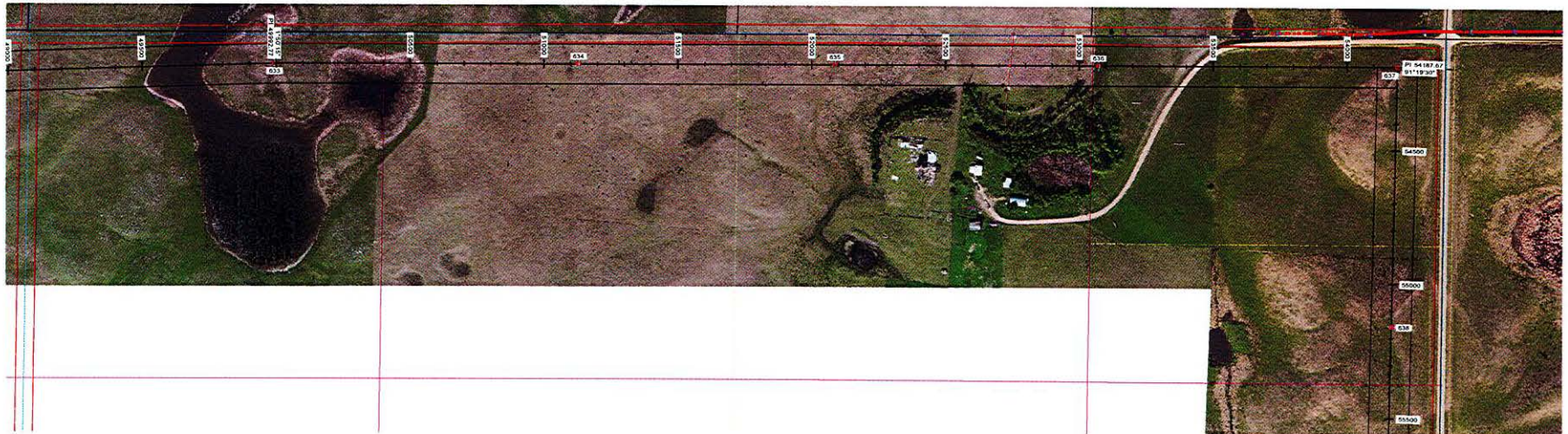
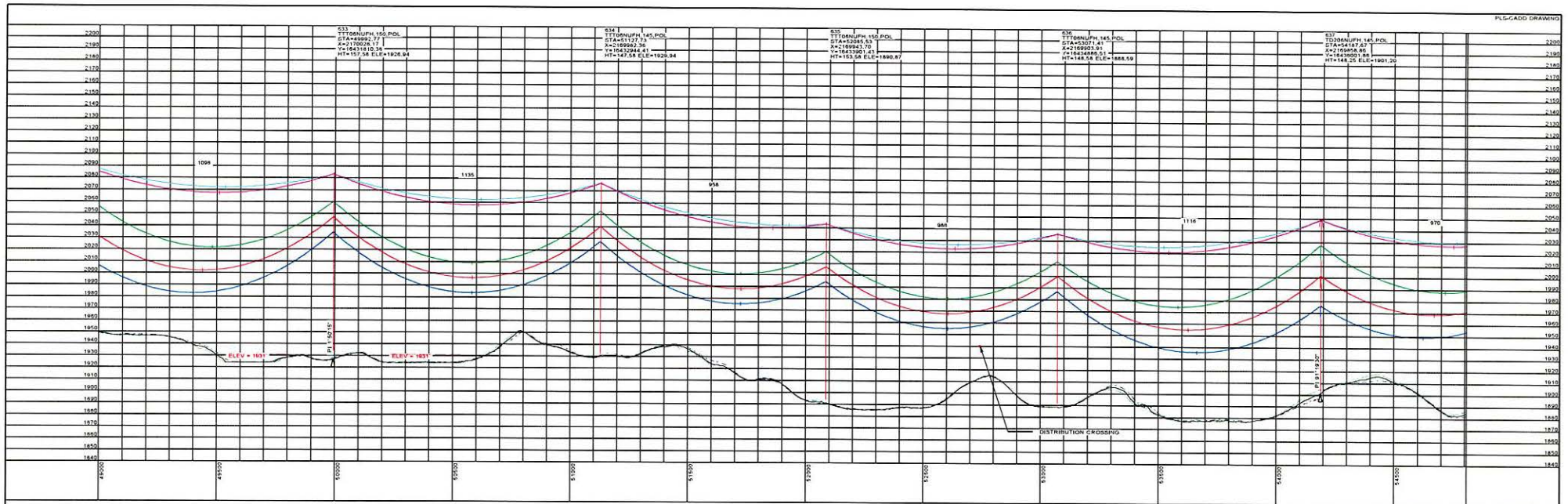
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CONDUCTOR: (2X) 477 KCMIL 267 TP HAWK ACSR
SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL
OPGW: 1-DNO-10523
COORDINATE SYSTEM: UTM ZONE 14N, US FT



BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE



DWG. NO.
BSSE-PP-104-13
REVISION: 3
136508



20190301
ISSUED FOR
RECORD



REVISIONS				
REV	DESCRIPTION	DWN	DON	CHK
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APPROVALS		DATE
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CONDUCTOR: (2) 477 KCMIL 26/7 TP HAWK ACSR
SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL
OPGW: 1-DN0-10523
COORDINATE SYSTEM: UTM ZONE 14N, US FT



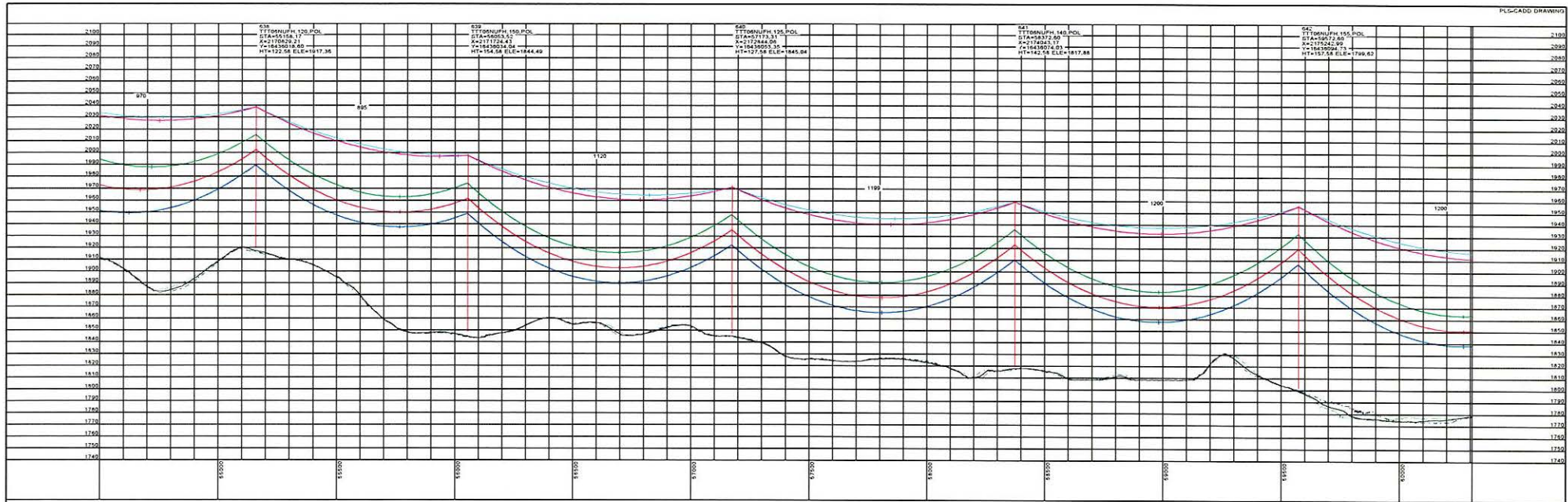
BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

200.0 FT. HORIZ. SCALE
40.0 FT. VERT. SCALE



STRS: 633 - 637

DWG. NO.
BSSE-PP-104-15
REVISION: 3
136508



STRS: 638 - 642

20190301
ISSUED FOR
RECORD



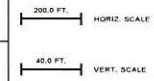
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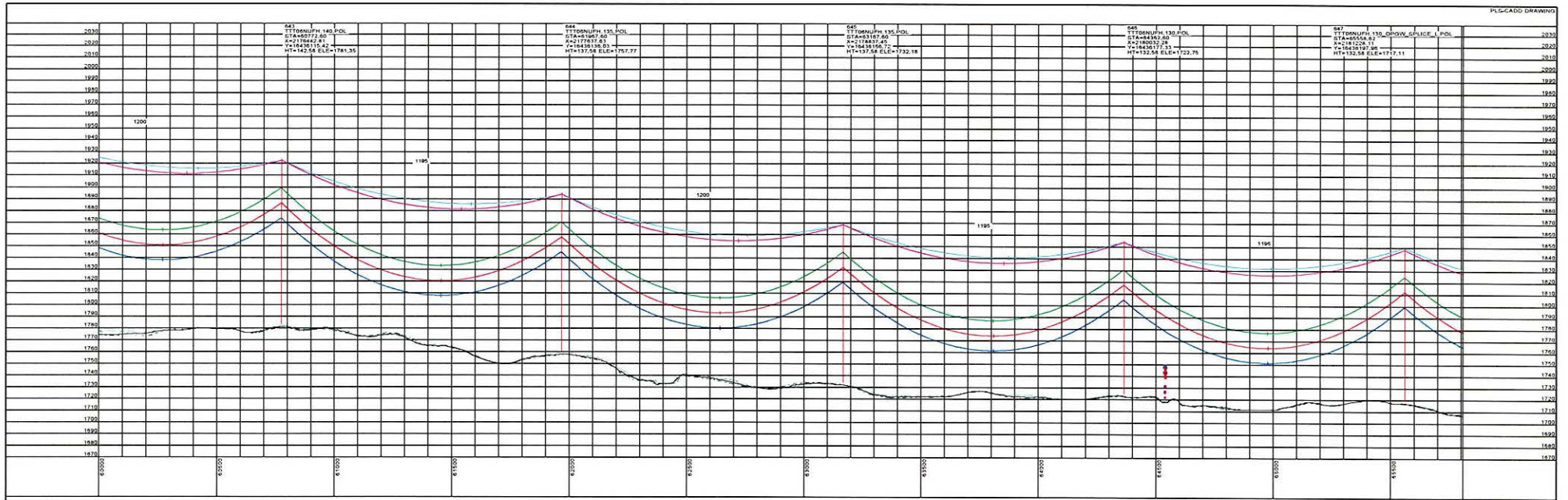
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SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL	
OPGW: 1-DN0-10523	
COORDINATE SYSTEM: UTM ZONE 14N, US FT	



BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE



DWG. NO. BSSE-PP-104-16
REVISION: 3
136508



STRS: 643 - 647

20190301
ISSUED FOR
RECORD



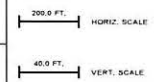
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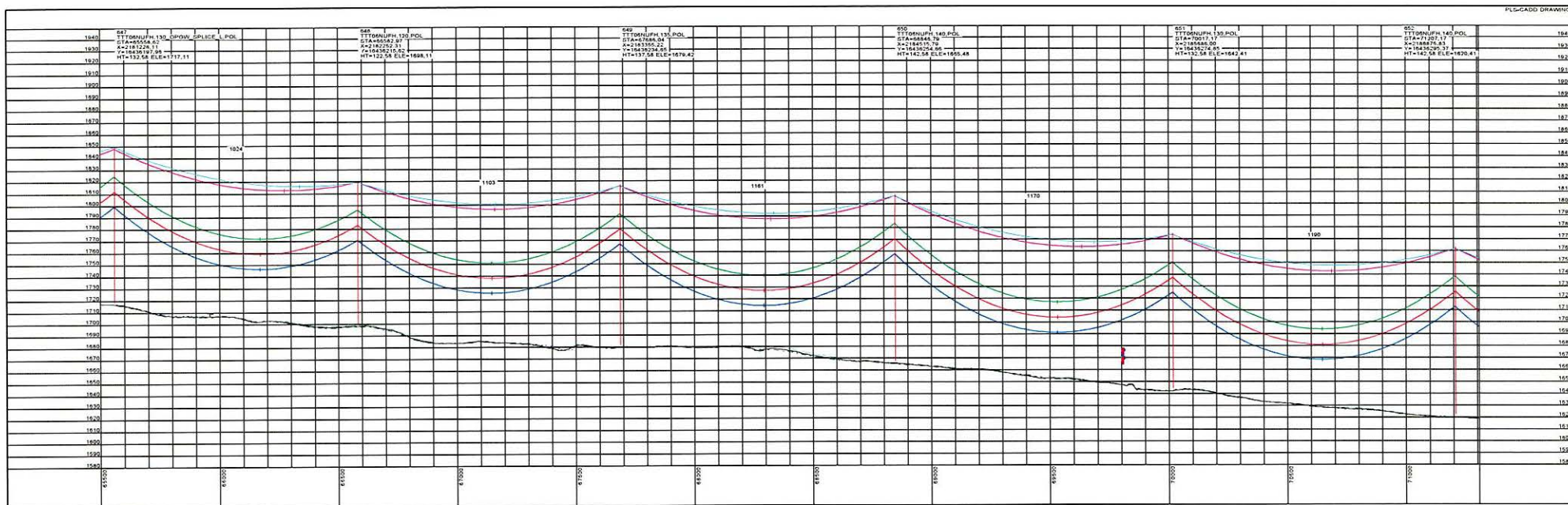
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OPGW: 1-DN0-10523	
COORDINATE SYSTEM: UTM ZONE 14N, US FT	



BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE



DWG. NO.
BSSE-PP-104-17
REVISION: 3
136508



STRS: 647 - 652

20190301
ISSUED FOR
RECORD



REVISIONS				
REV	DESCRIPTION	DWN	DGN	CHK
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APPROVALS		DATE
DRAWN BY: GMD		09/23/16
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SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL
OPGW: 1-DIN-10523
COORDINATE SYSTEM: UTM ZONE 14N, US FT

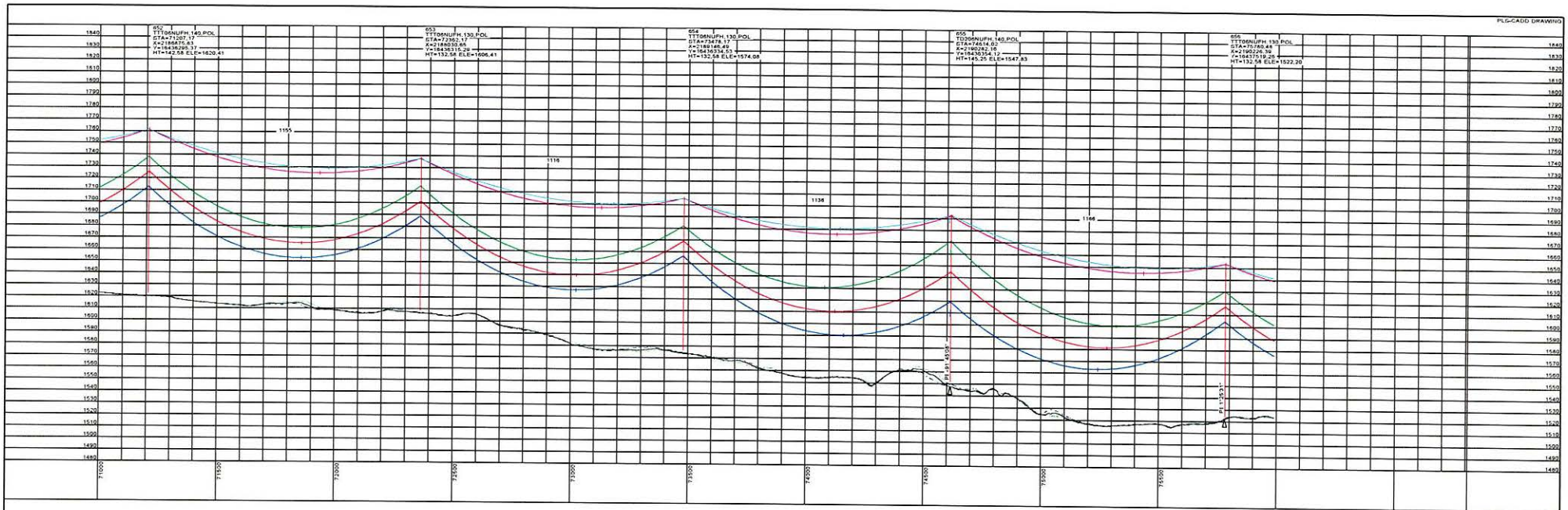


BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

200.0 FT.
HORIZ. SCALE
40.0 FT.
VERT. SCALE



DWG. NO.
BSSE-PP-104-18
REVISION: 3
136508



20190301
ISSUED FOR
RECORD



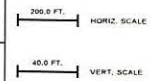
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APPROVED BY: DJF		09/23/16

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COORDINATE SYSTEM: UTM ZONE 14N, US FT	

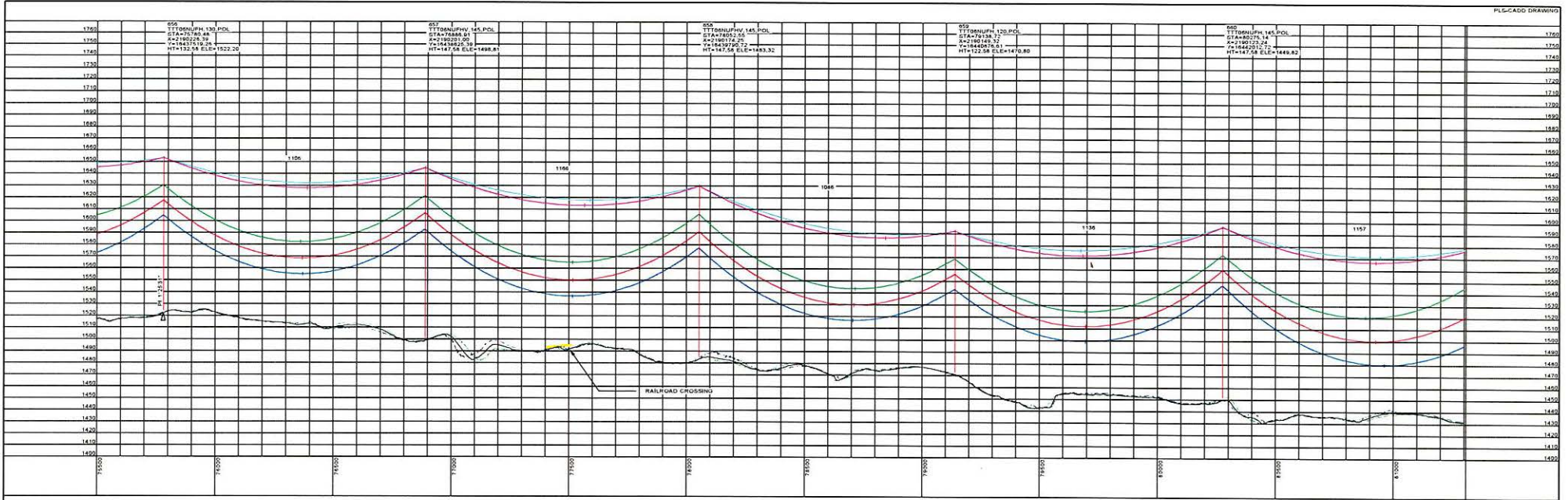


BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE



STRS: 652 - 656

DWG. NO.
BSSE-PP-104-19
REVISION: 3
136508



STRS: 656 - 660

20190301
ISSUED FOR
RECORD



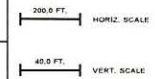
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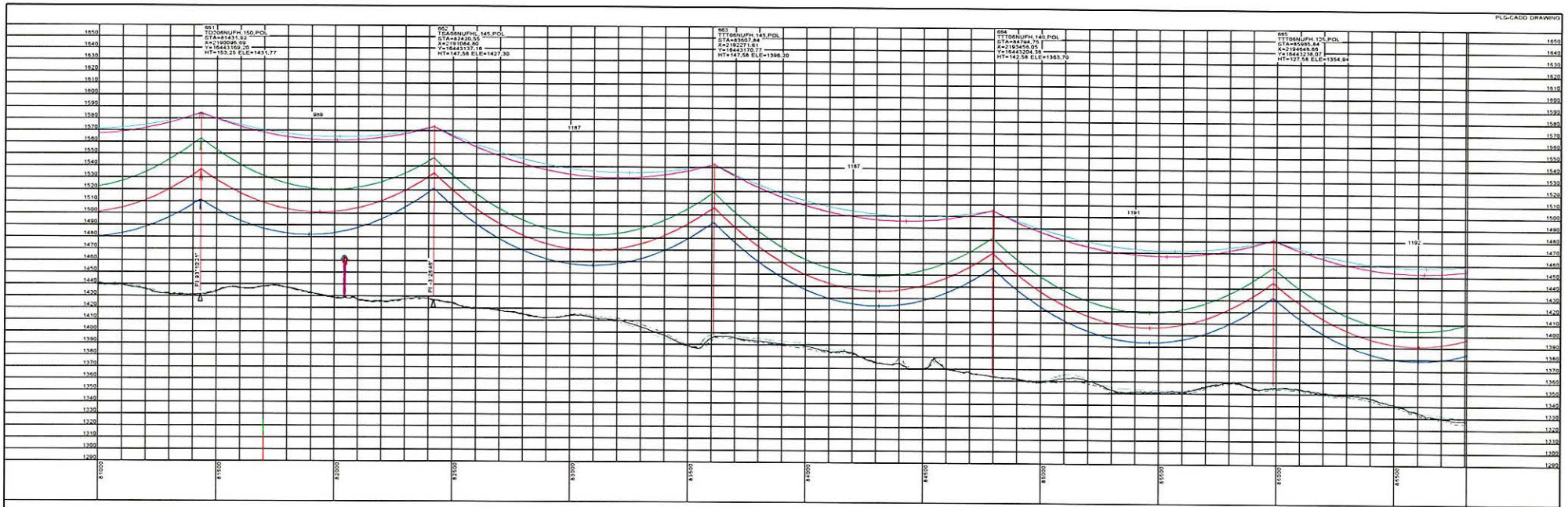
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OPGW: 1-DND-10523	
COORDINATE SYSTEM: UTM ZONE 14N, US FT	



BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE



DWG. NO.
BSS-PP-104-20
REVISION: 3
136508



20190301
ISSUED FOR
RECORD



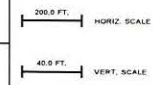
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APPROVED BY: DJF		09/23/16

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COORDINATE SYSTEM: UTM ZONE 14N, US FT	

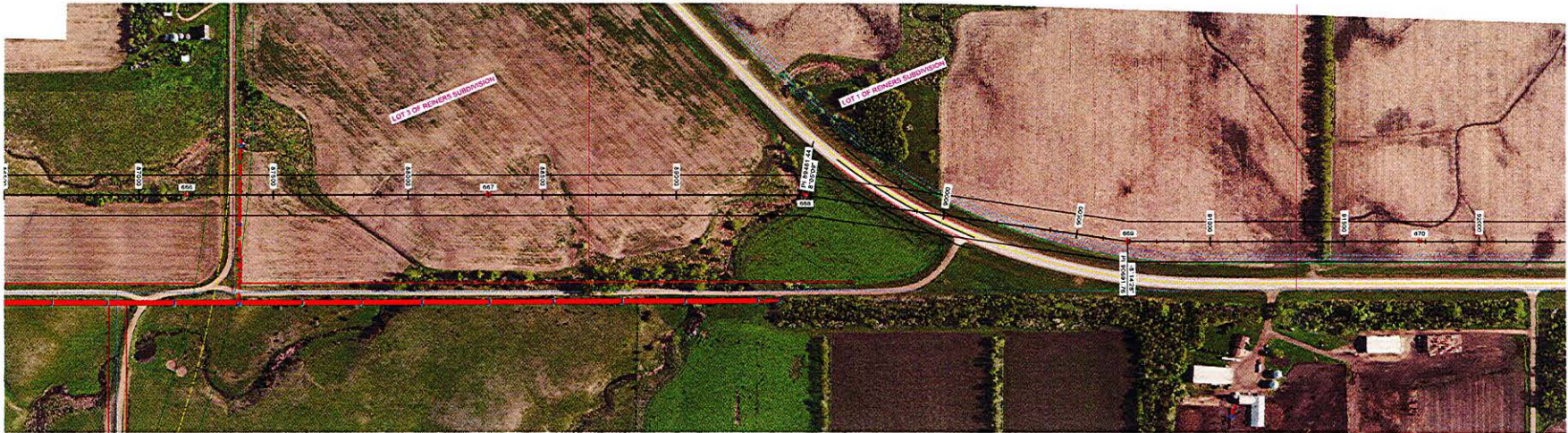
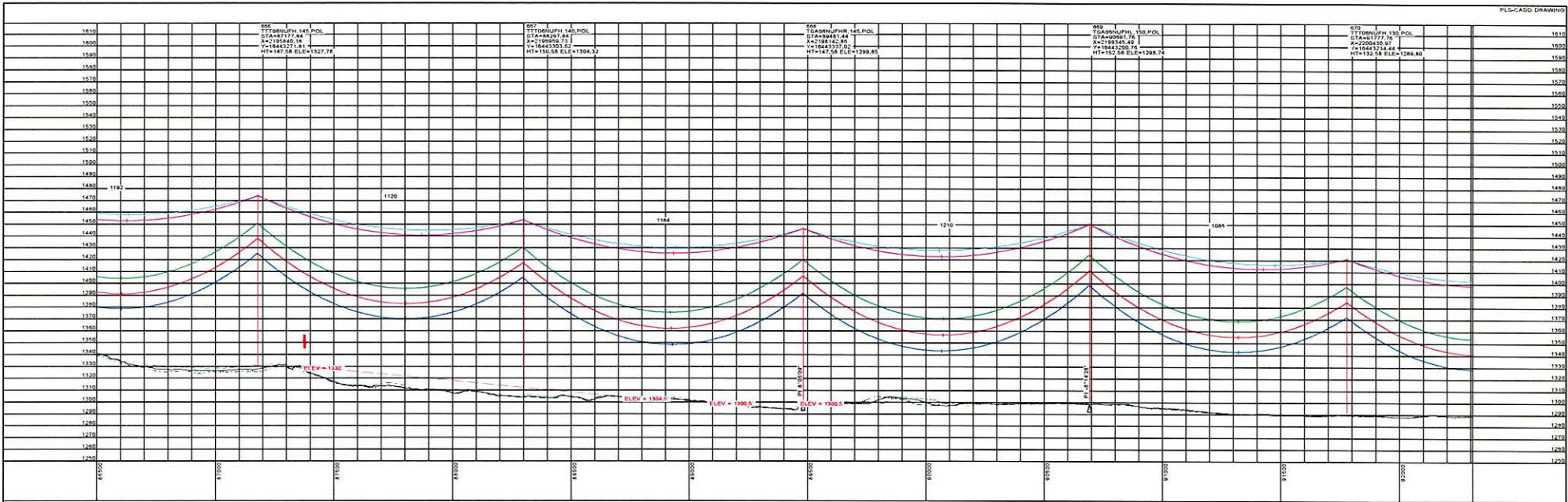


BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE



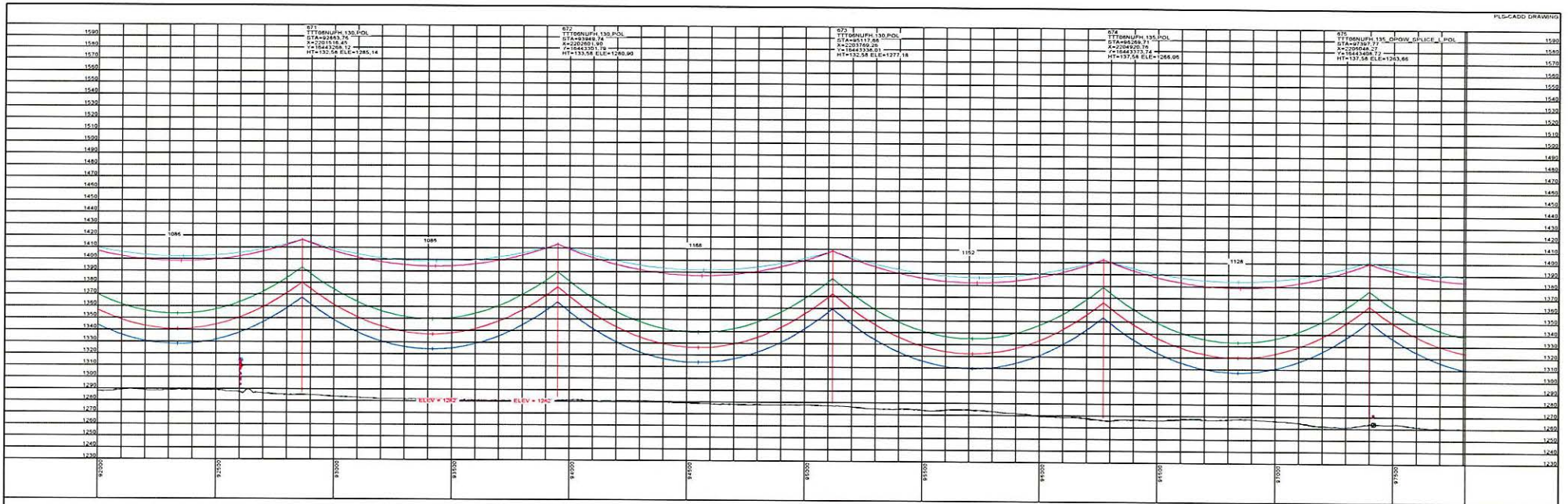
STRS: 661 - 665

DWG. NO.
BSSE-PP-104-21
REVISION: 3
136508



STRS: 666 - 670

20190301 ISSUED FOR RECORD		REVISIONS					APPROVALS		DATE	DESIGN DATA		 Big Stone South to Ellendale	200.0 FT. HORIZ. SCALE 40.0 FT. VERT. SCALE NORTH	DWG. NO. BSSE-PP-104-22 REVISION: 3 136508				
							DRAWN BY: GMD		09/23/16	CONDUCTOR: 2X 477 KCMIL 267 TP HAWK ACSR SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL OPGW: 1-DN0-10523								
							DESIGN BY: GMD		09/23/16									
							CHECKED BY: JPW		09/23/16									
		3 ISSUED FOR RECORD					JDB	JDB	JPW	03/01/19								
		REV		DESCRIPTION		DWN	DWN	CHK	DATE	APPROVED BY: DJF					09/23/16	COORDINATE SYSTEM: UTM ZONE 14N, US FT		
															BIG STONE SOUTH - ELLENDALE			
															345 KV TRANSMISSION LINE			



20190301
ISSUED FOR
RECORD



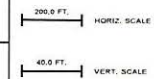
REVISIONS				
REV	DESCRIPTION	DWN	CHK	DATE
3	ISSUED FOR RECORD	JDB	JPW	03/01/19

APPROVALS		DATE
DRAWN BY: GMD		09/23/16
DESIGN BY: GMD		09/23/16
CHECKED BY: JPW		09/23/16
APPROVED BY: DJF		09/23/16

DESIGN DATA	
CONDUCTOR: (2X) 477 KCMIL 267 TP HAWK ACSR	
SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL	
OPGW: 1-DN0-10523	
COORDINATE SYSTEM: UTM ZONE 14N, US FT	

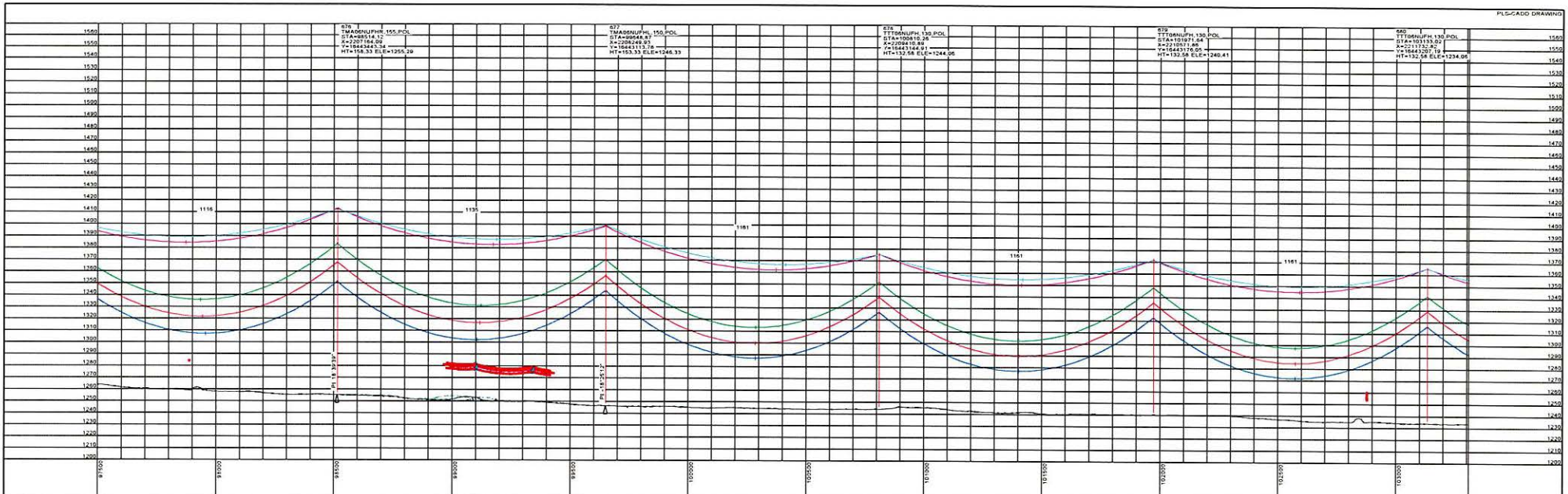


BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE



STRS: 671 - 675

DWG. NO.
BSSE-PP-104-23
REVISION: 3
136508



20190301
ISSUED FOR
RECORD

REVISIONS					APPROVALS		DATE	DESIGN DATA
3	ISSUED FOR RECORD	JDB	JDB	JPW	03/01/19		CONDUCTOR: (2X) 477 KCMIL 267 TP HAWK ACSR SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL OPGW: 1-DN6-10523	
2						CHECKED BY: JPW	09/23/16	
1						APPROVED BY: DJF	09/23/16	

BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

200.0 FT. HORIZ. SCALE

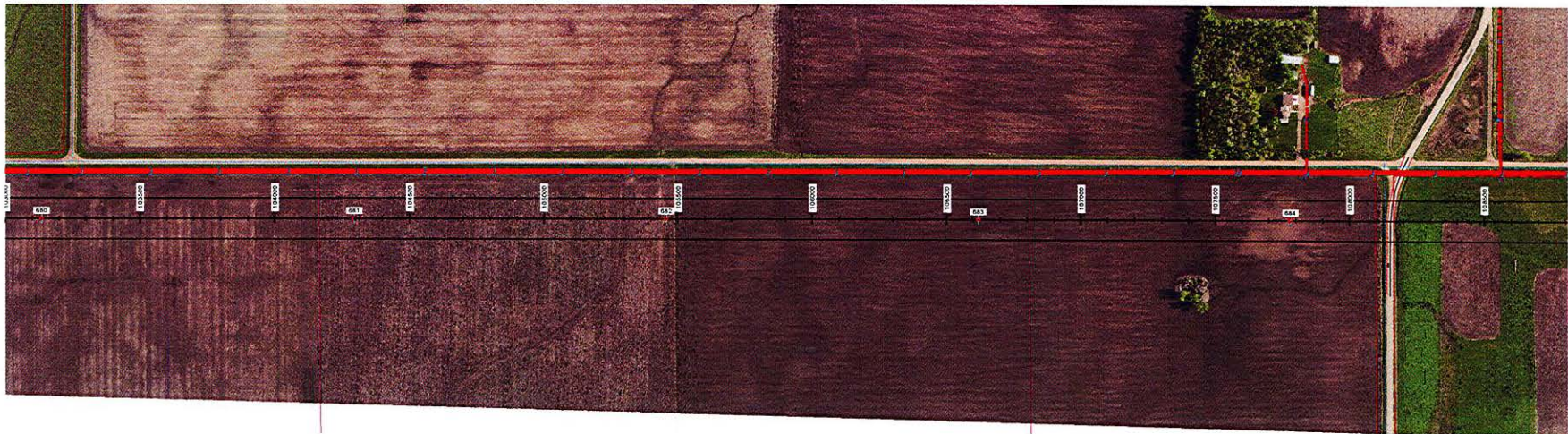
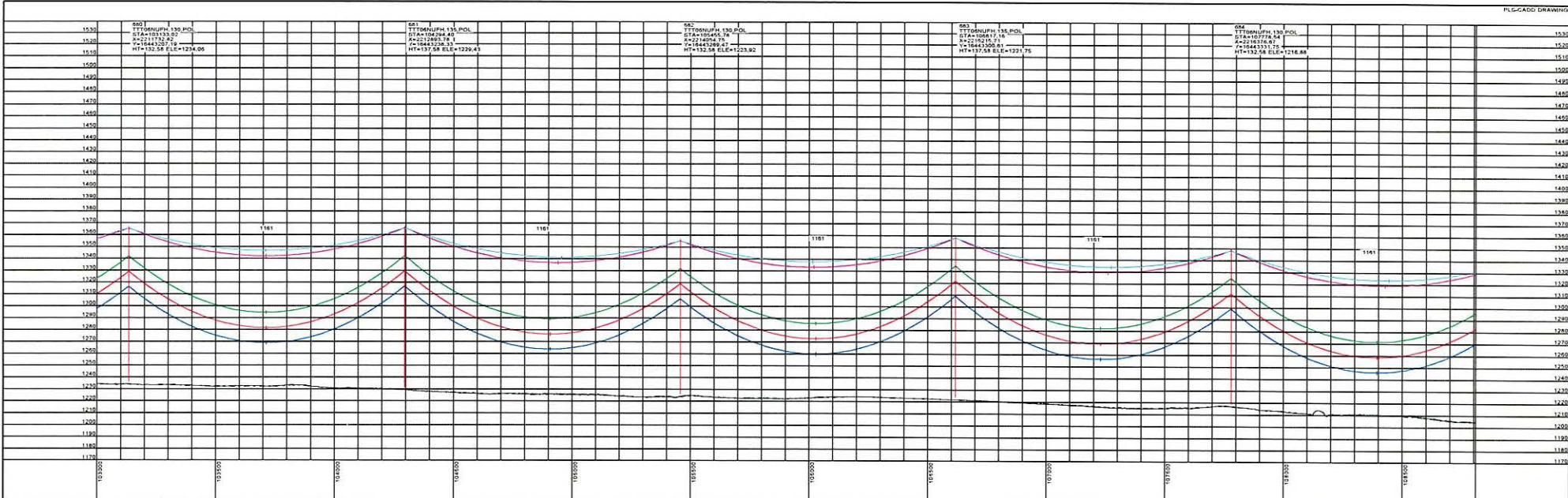
40.0 FT. VERT. SCALE

STRS: 676 - 680

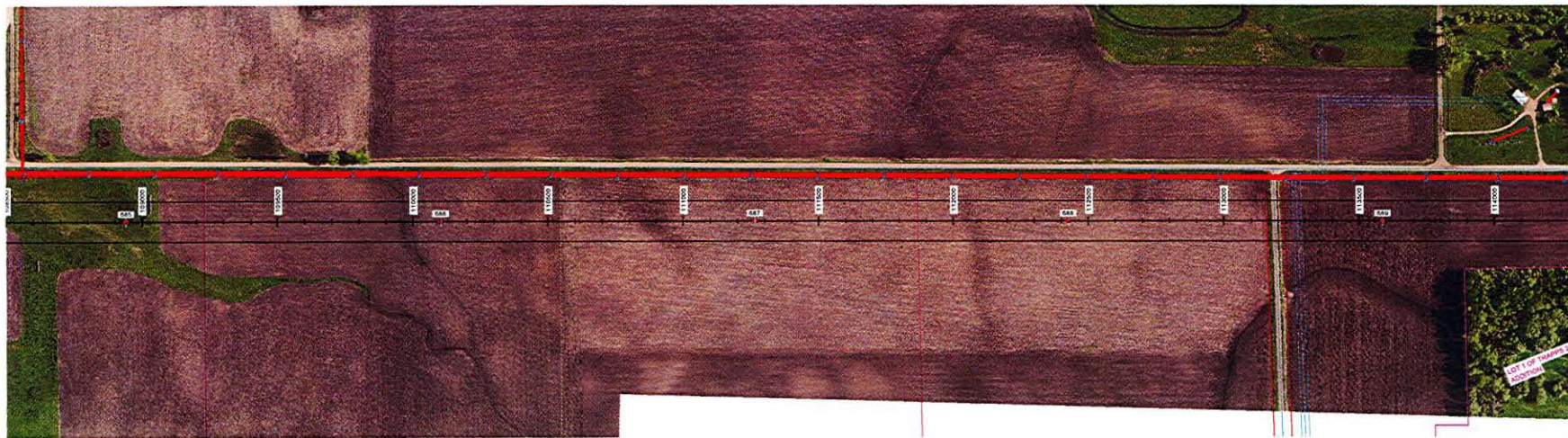
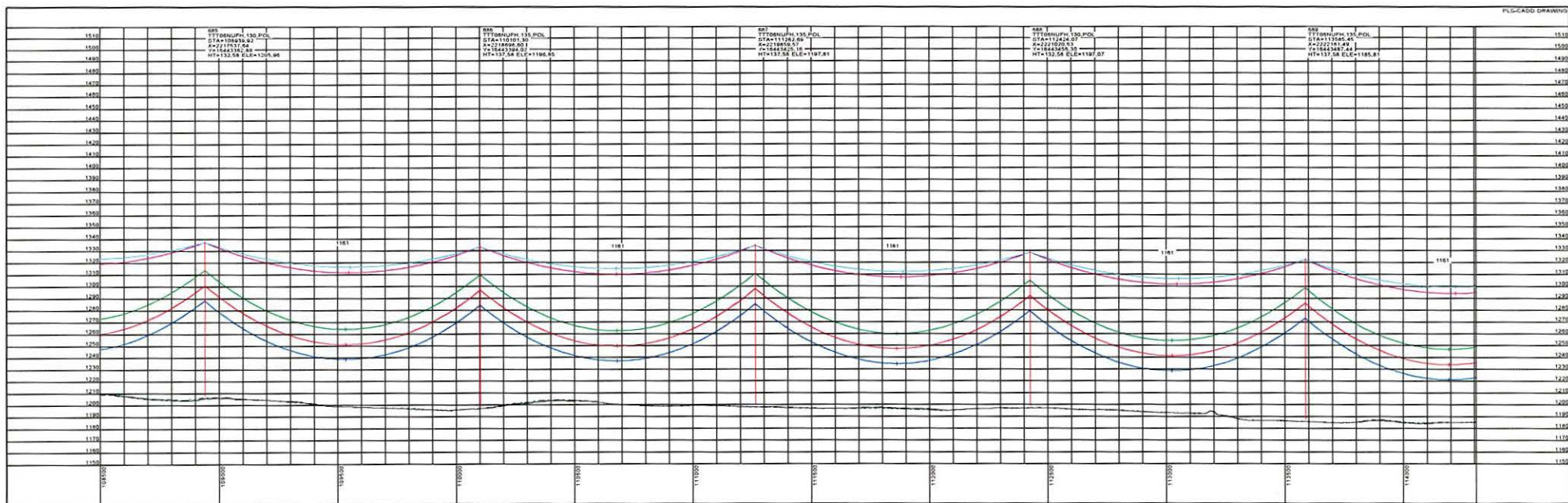
DWG. NO.
BSSE-PP-104-24

REVISION: 3

136508



20190301 ISSUED FOR RECORD 		REVISIONS				APPROVALS		DATE	DESIGN DATA		 Big Stone South to Ellendale BIG STONE SOUTH - ELLENDALE 345 KV TRANSMISSION LINE 200.0 FT. HORIZ. SCALE 40.0 FT. VERT. SCALE 		STRS: 680 - 684 DWG. NO. BSS-PP-104-25 REVISION: 3 136508	
								DRAWN BY: GMD	09/23/16	CONDUCTOR: (2X) 477 KCMIL 267 TP HAWK ACSR				
								DESIGN BY: GMD	09/23/16	SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL				
								CHECKED BY: JPW	09/23/16	OPGW: 1-DND-10523				
								APPROVED BY: DJF	09/23/16	COORDINATE SYSTEM: UTM ZONE 14N, US FT				
3 ISSUED FOR RECORD		JOB	JOB	JPW	03/01/19									
REV	DESCRIPTION	DWN	DGR	CHK	DATE									



STRS: 685 - 689

20190301
ISSUED FOR
RECORD



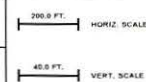
REVISIONS				
REV	DESCRIPTION	DWN	CHK	DATE
3	ISSUED FOR RECORD	JDB	JPW	03/01/19

APPROVALS		DATE
DRAWN BY: GMD		09/23/16
DESIGN BY: GMD		09/23/16
CHECKED BY: JPW		09/23/16
APPROVED BY: DJF		09/23/16

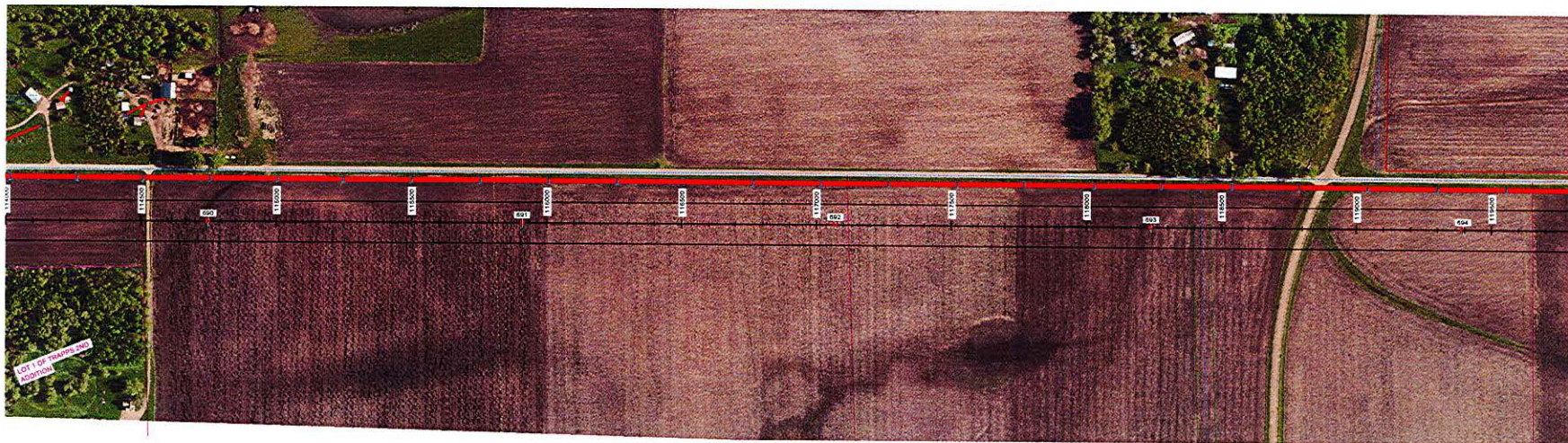
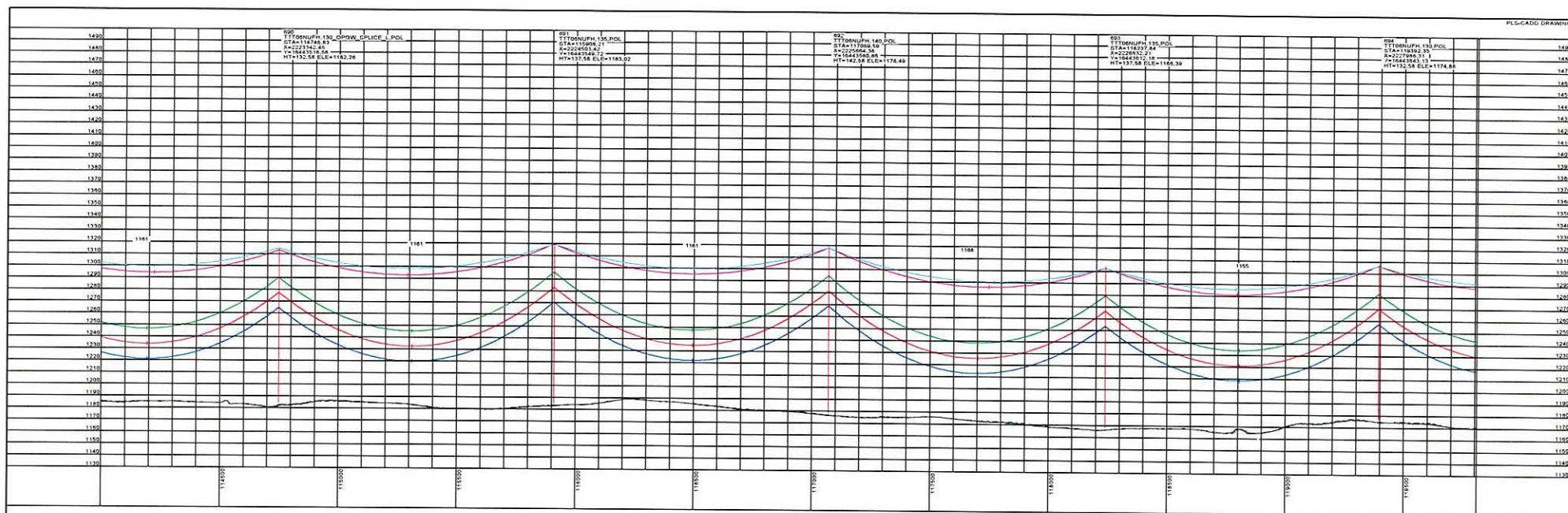
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CONDUCTOR: 02X 477 KCMIL 26/7 TP HAWK ACSR	
SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL	
OPGW: 1-DND-10523	
COORDINATE SYSTEM: UTM ZONE 14N, U.S. FT	



BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE



DWG. NO.
BSEL-PP-104-26
REVISION: 3
136508



20190301
ISSUED FOR
RECORD



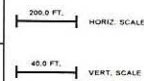
REVISIONS				
REV	DESCRIPTION	DATE	BY	CHK
3	ISSUED FOR RECORD	03/01/19	JPW	JPW

APPROVALS		DATE
DRAWN BY: GMD		09/23/16
DESIGN BY: GMD		09/23/16
CHECKED BY: JPW		09/23/16
APPROVED BY: DJF		09/23/16

DESIGN DATA	
CONDUCTOR: (2X) 477 KCMIL 26/7 TP HAWK ACSR	
SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL	
OPGW: 1-DN0-10523	
COORDINATE SYSTEM: UTM ZONE 14N, US FT	

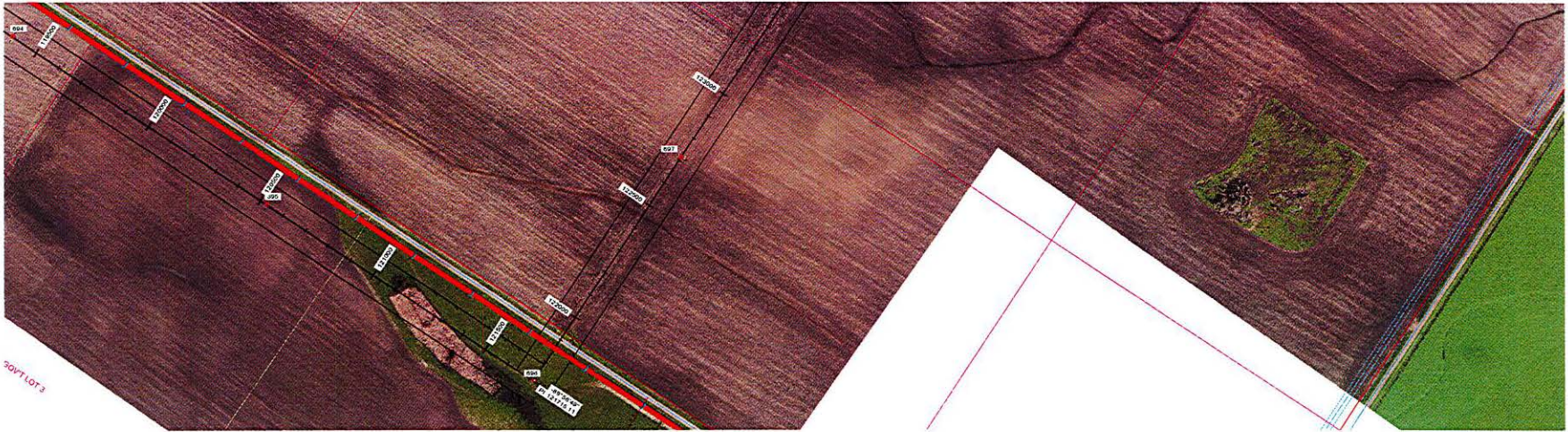
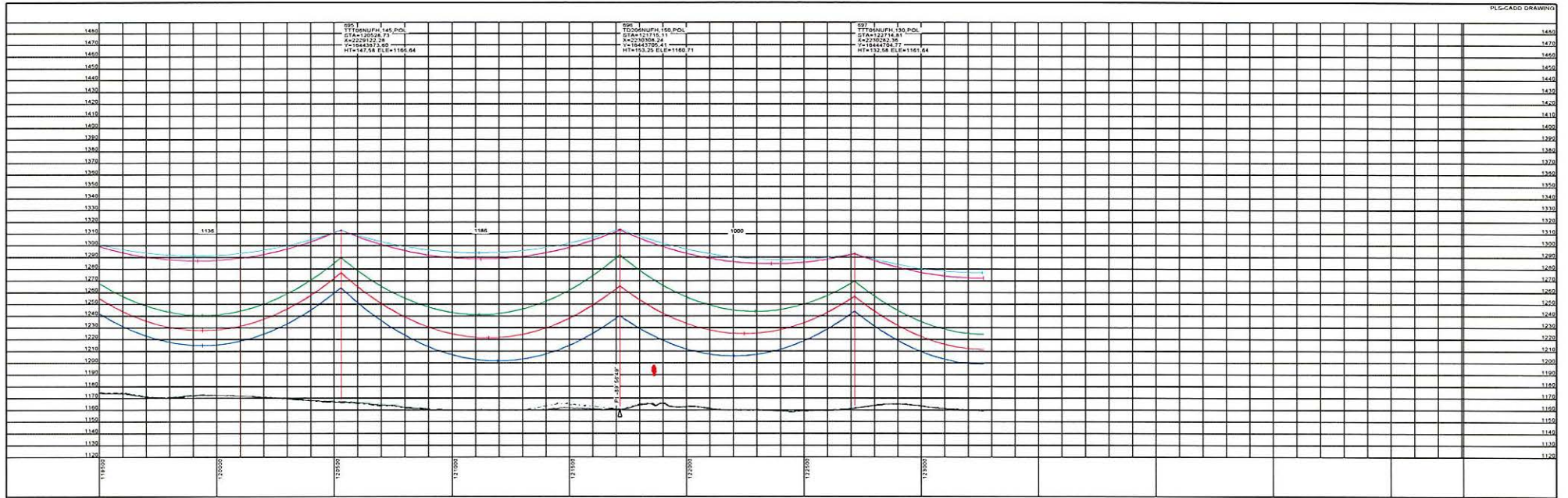


BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE



STRS: 690 - 694

DWG. NO.
BSSE-PP-104-27
REVISION: 3
136508



STRS: 695 - 697

20190301
ISSUED FOR
RECORD



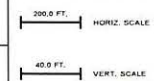
REVISIONS				
REV	DESCRIPTION	DWN	CHK	DATE
3	ISSUED FOR RECORD	JDB	JPW	03/01/19

APPROVALS		DATE
DRAWN BY: GMD		09/23/16
DESIGN BY: GMD		09/23/16
CHECKED BY: JPW		09/23/16
APPROVED BY: DJF		09/23/16

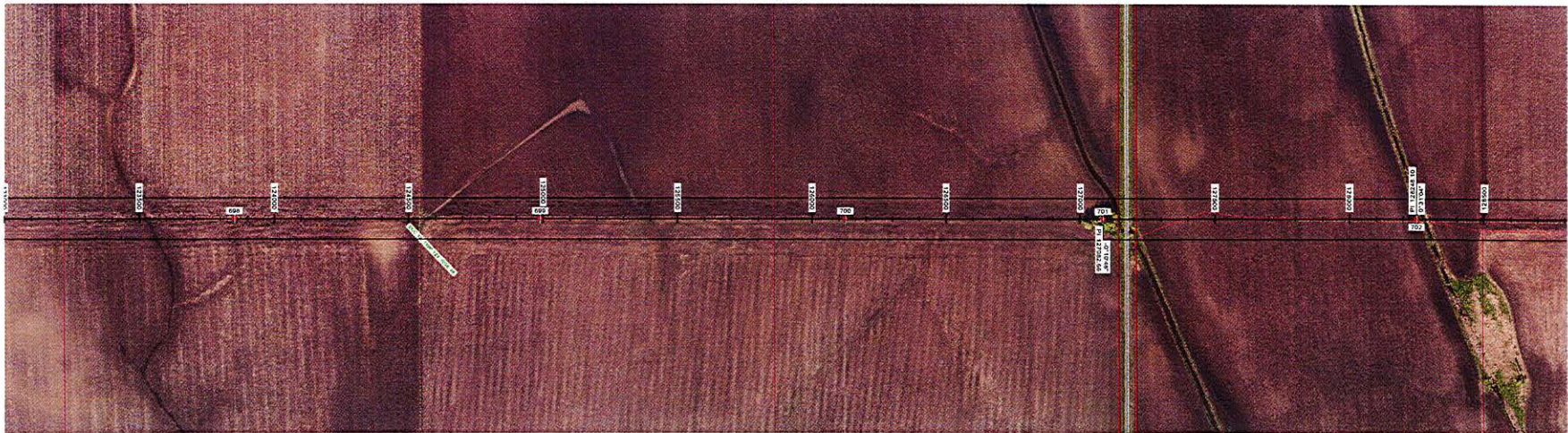
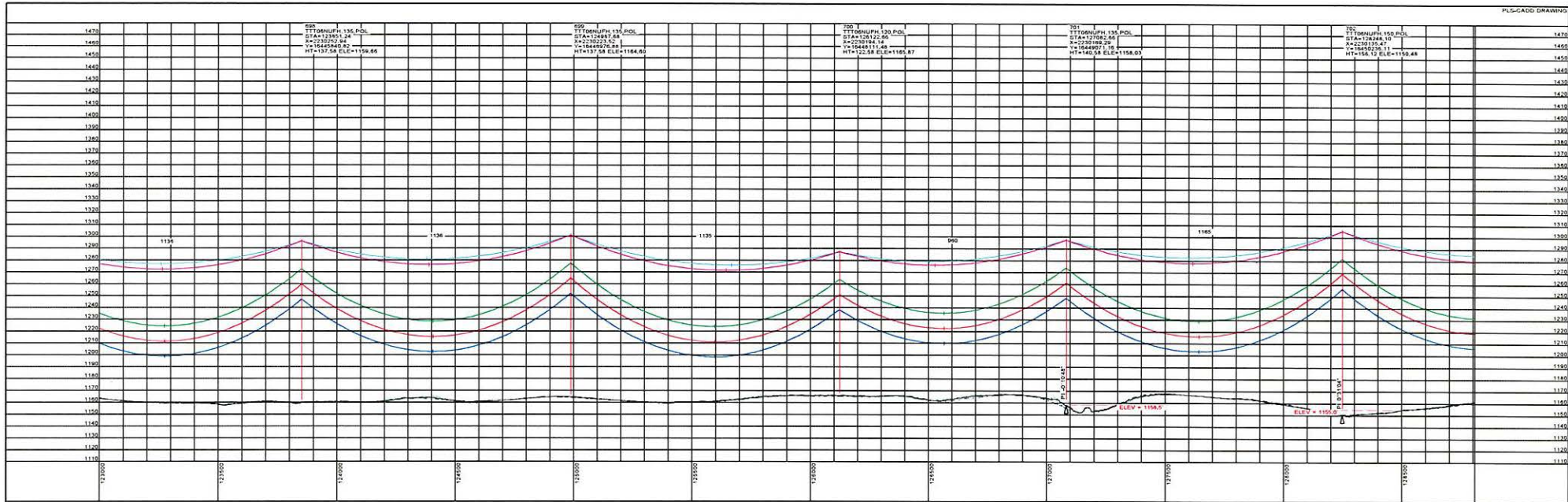
DESIGN DATA	
CONDUCTOR: (2X) 477 KCMIL 26/7 TP HAWK ACSR	
SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL	
OPGW: 1-DNO-10523	
COORDINATE SYSTEM: UTM ZONE 14N, US FT	

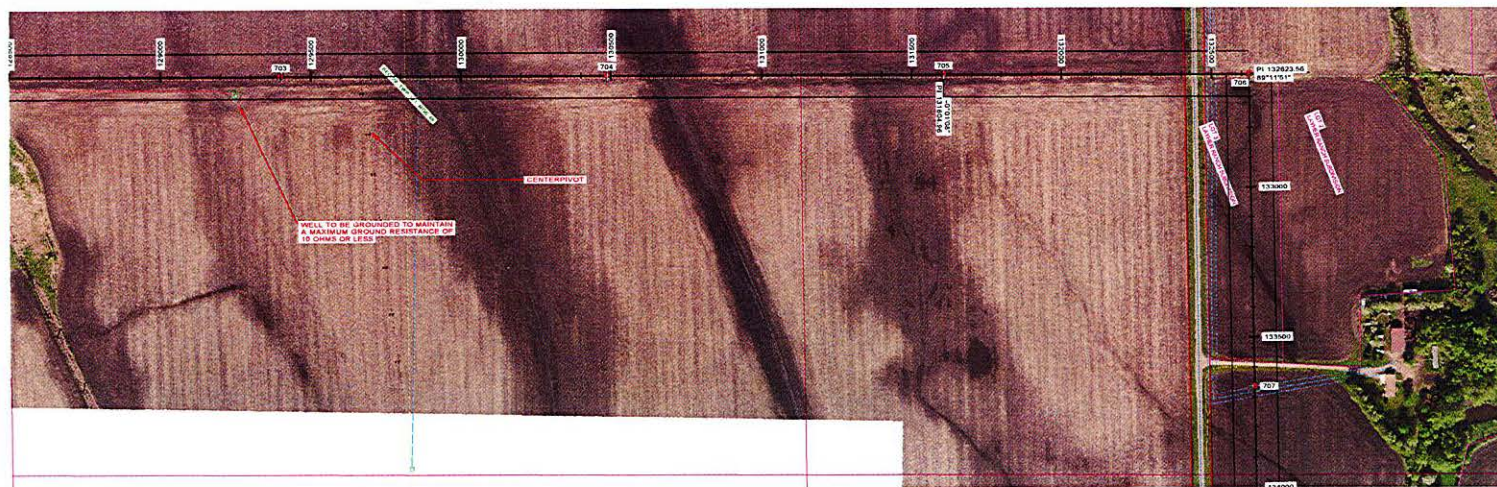
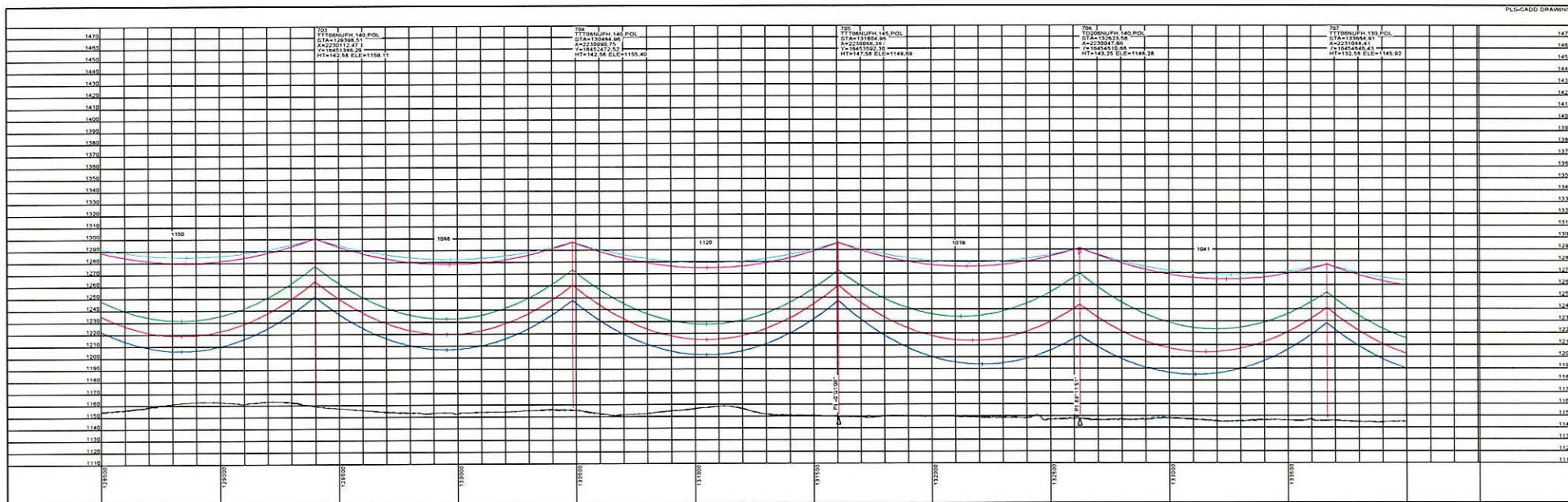


BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE



DWG. NO. BSSE-PP-104-28
REVISION: 3
136508





STRS: 703 - 707

20190301
ISSUED FOR
RECORD



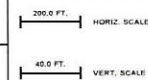
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REV	DESCRIPTION	DWN	CHK	DATE
3	ISSUED FOR RECORD	JDB	JPW	03/01/19

APPROVALS		DATE
DRAWN BY: GMD		09/23/16
DESIGN BY: GMD		09/23/16
CHECKED BY: JPW		09/23/16
APPROVED BY: DJF		09/23/16

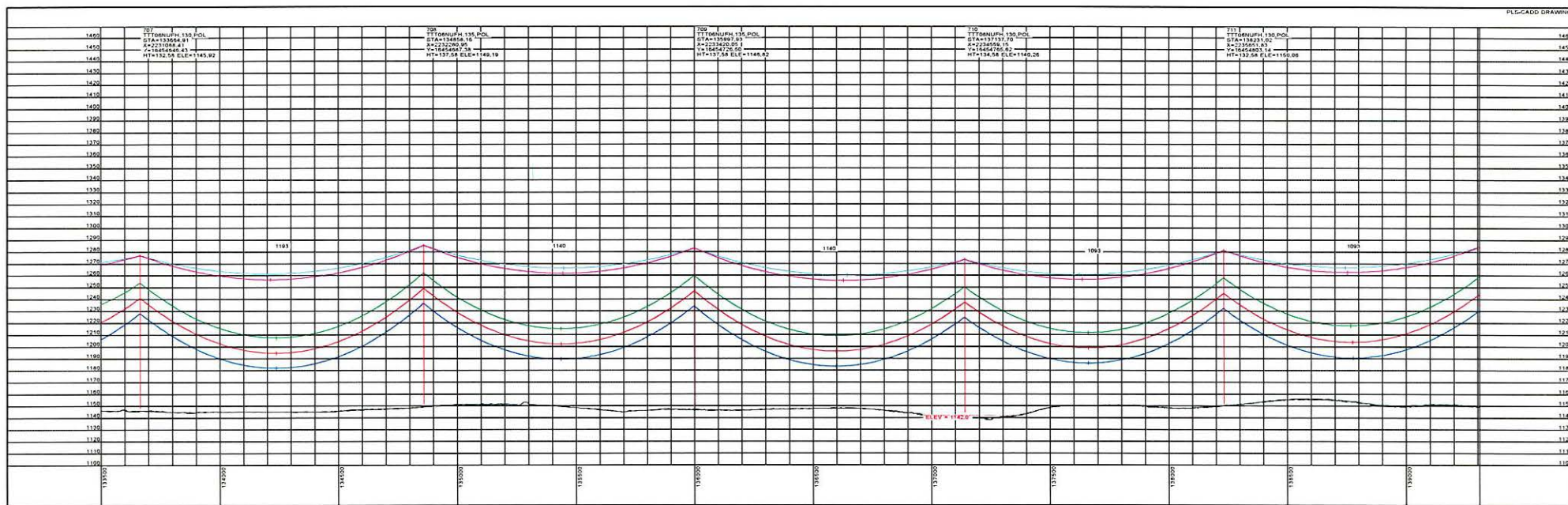
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CONDUCTOR: (2X) 477 KCMIL 26/7 TP HAWK ACSR	
SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL	
OPGW: 1-DN0-10523	
COORDINATE SYSTEM: UTM ZONE 14N, US FT	



BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE



DWG. NO. BSSB-PP-104-30
REVISION: 3
136508



STRS: 707 - 711

20190301
ISSUED FOR
RECORD



REVISIONS				
REV	DESCRIPTION	DWN	CHK	DATE
3	ISSUED FOR RECORD			03/01/19

APPROVALS		DATE
DRAWN BY: GMD		09/23/16
DESIGN BY: GMD		09/23/16
CHECKED BY: JPW		09/23/16
APPROVED BY: DJF		09/23/16

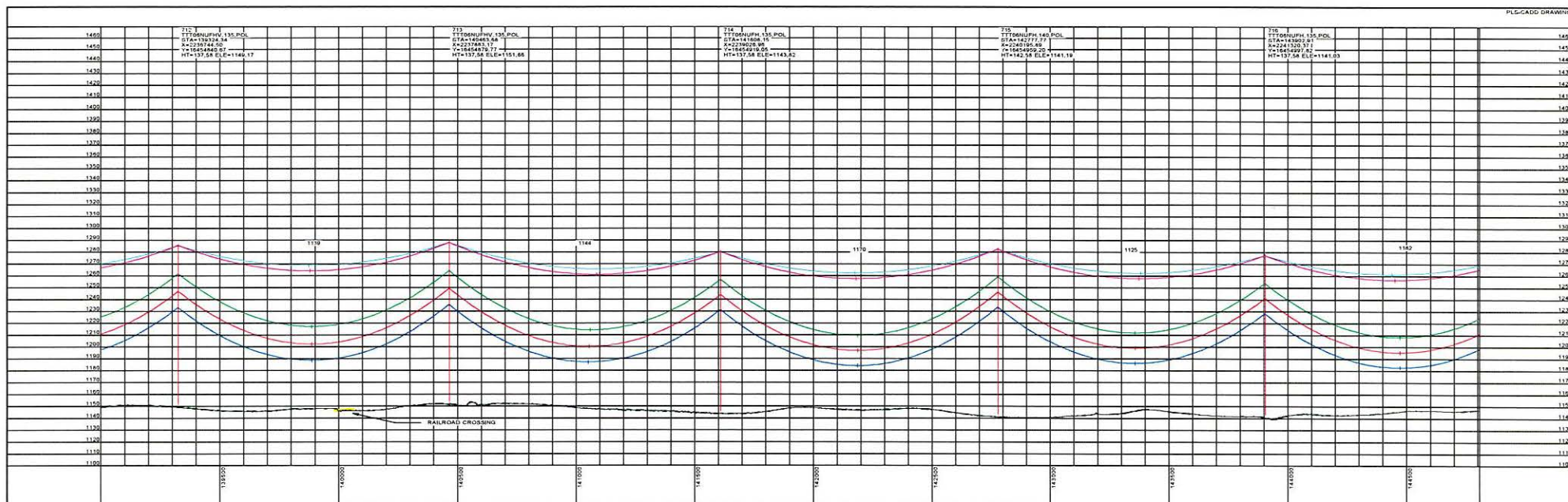
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CONDUCTOR: (2X) 477 KCMIL 26/7 TP HAWK ACSR	
SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL	
OPGW: 1-DN0-10523	
COORDINATE SYSTEM: UTM ZONE 14N, US FT	



BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE



DWG. NO. BSSE-PP-104-31
REVISION: 3
136508



STRS: 712 - 716

20190301
ISSUED FOR
RECORD



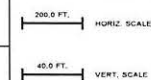
REVISIONS				
REV	DESCRIPTION	DWN	CHK	DATE
3	ISSUED FOR RECORD	JDB	JPW	03/01/19

APPROVALS		DATE
DRAWN BY: GMD		09/23/16
DESIGN BY: GMD		09/23/16
CHECKED BY: JPW		09/23/16
APPROVED BY: DJF		09/23/16

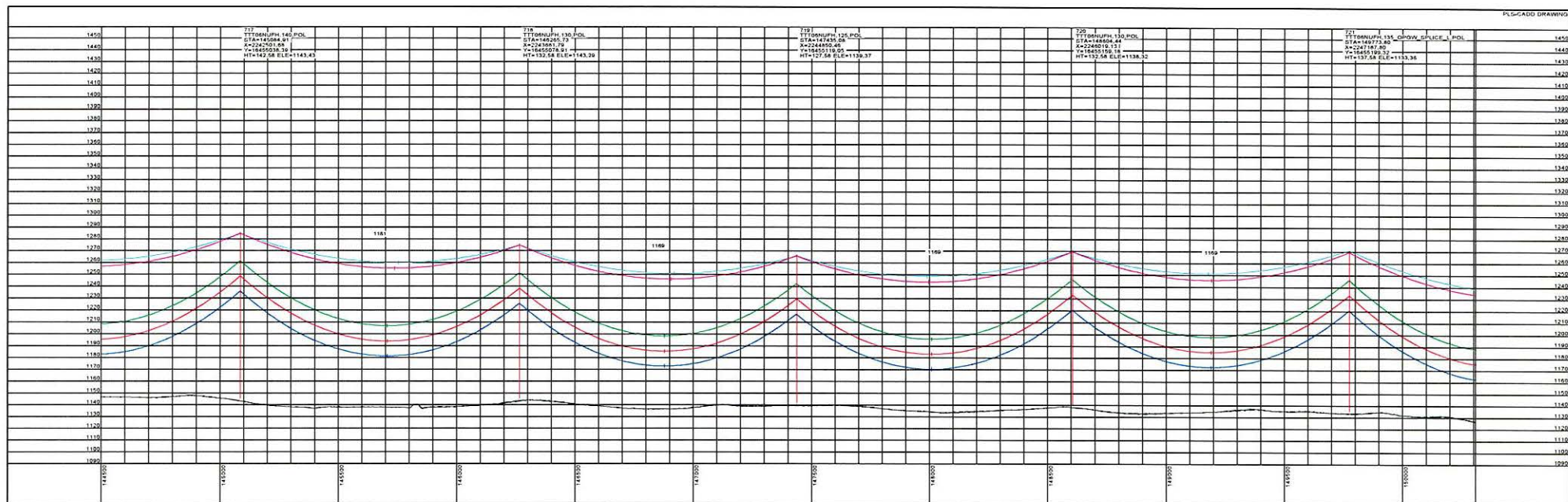
DESIGN DATA	
CONDUCTOR: (2X) 477 KCMIL 26/7 TP HAWK ACSR	
SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL	
OPGW: 1-QNO-10523	
COORDINATE SYSTEM: UTM ZONE 14N, US FT	



BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE



DWG. NO. BSSE-PP-104-32
REVISION: 3
136508



STRS: 717 - 721

20190301
ISSUED FOR
RECORD



REVISIONS				
REV	DESCRIPTION	DWN	DGN	CHK
3	ISSUED FOR RECORD			

APPROVALS		DATE
DRAWN BY: GMD		09/23/16
DESIGN BY: GMD		09/23/16
CHECKED BY: JPW		09/23/16
APPROVED BY: DJF		09/23/16

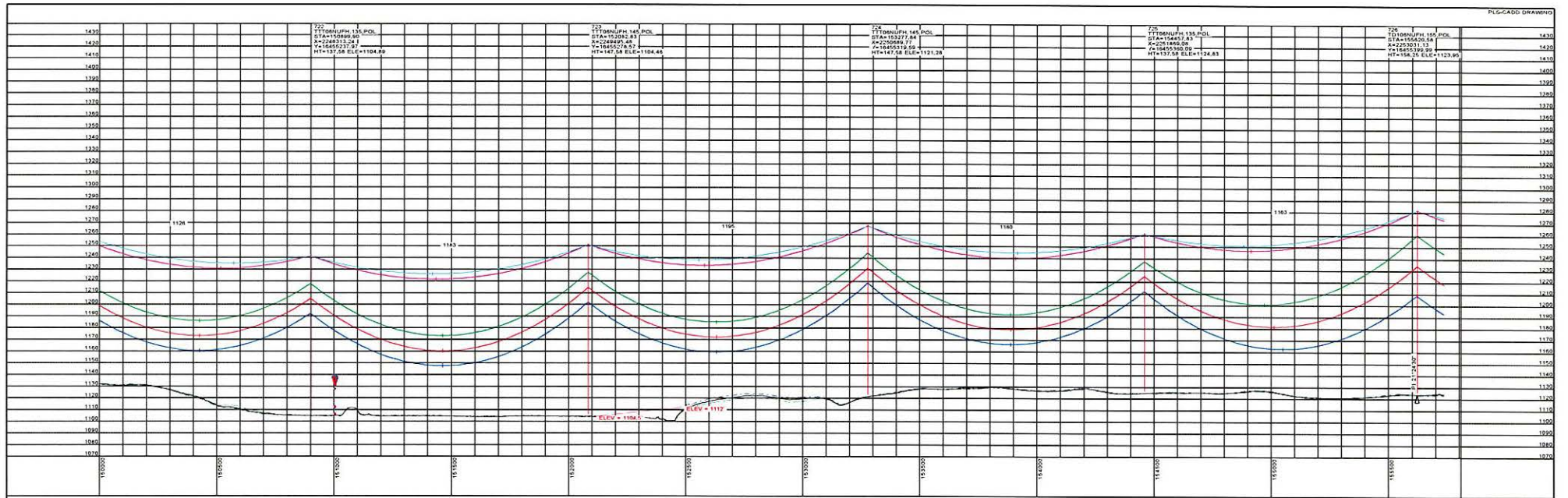
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SHIELD WRE: 1-3/8" 7 STRAND EHS STEEL	
OPGW: 1-DN0-10523	
COORDINATE SYSTEM: UTM ZONE 14N, US FT	



BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE



DWG. NO.
BSSE-PP-104-33
REVISION: 3
136508



STRS: 722 - 726

20190301
ISSUED FOR
RECORD



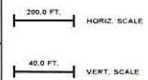
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REV	DESCRIPTION	DWN	CHK	DATE
3	ISSUED FOR RECORD			03/01/19

APPROVALS		DATE
DRAWN BY: GMD		09/23/16
DESIGN BY: GMD		09/23/16
CHECKED BY: JPW		09/23/16
APPROVED BY: DJF		09/23/16

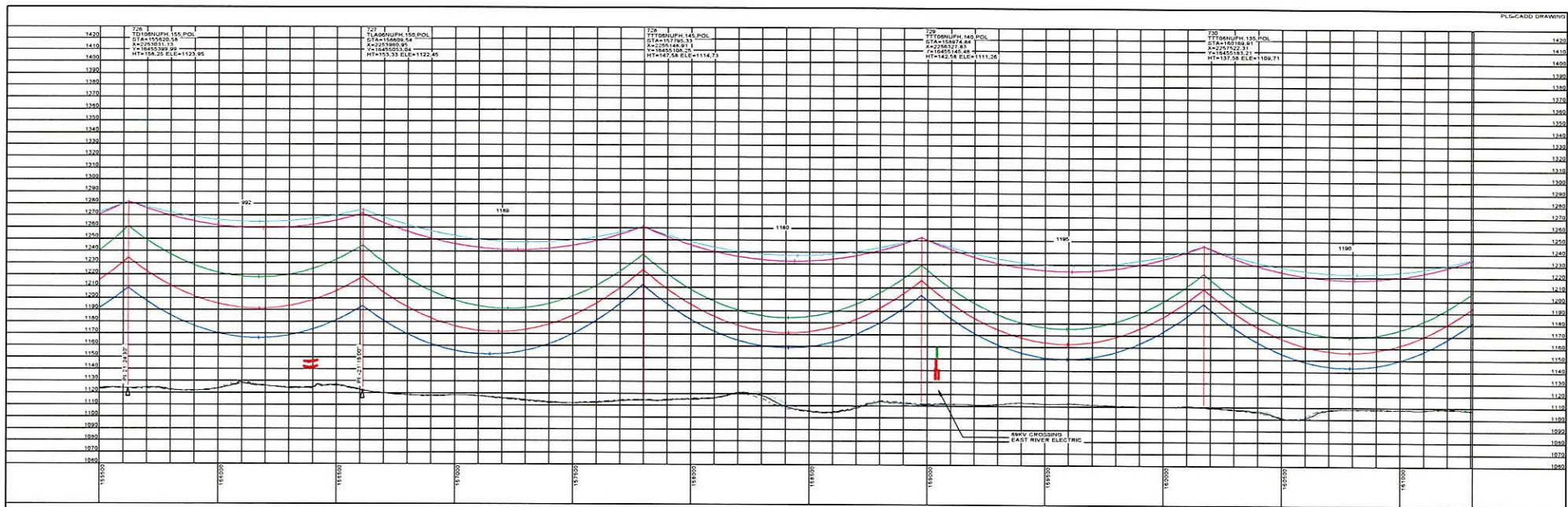
DESIGN DATA	
CONDUCTOR: (2X) 477 KCMIL 267 TP HAWK ACSR	
SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL	
OPOW: 1-DND-10523	
COORDINATE SYSTEM: UTM ZONE 14N, US FT	



BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE



DWG. NO.
BSSE-PP-104-34
REVISION: 3
136508



STRS: 726 - 730

20190301 ISSUED FOR RECORD			REVISIONS		APPROVALS		DATE	DESIGN DATA CONDUCTOR: (3X) 477 KCMIL 267 TP HAWK ACSR SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL OPGW: 1-DNO-10523 COORDINATE SYSTEM: UTM ZONE 14N, US FT
					DRAWN BY: GMD		09/23/16	
					DESIGN BY: GMD		09/23/16	
					CHECKED BY: JPW		09/23/16	
3	ISSUED FOR RECORD	JDB	JDB	JPW	03/01/19	APPROVED BY: DJF	09/23/16	
REV	DESCRIPTION	DWN	DCN	CHK	DATE			

BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

200.0 FT. HORIZ. SCALE

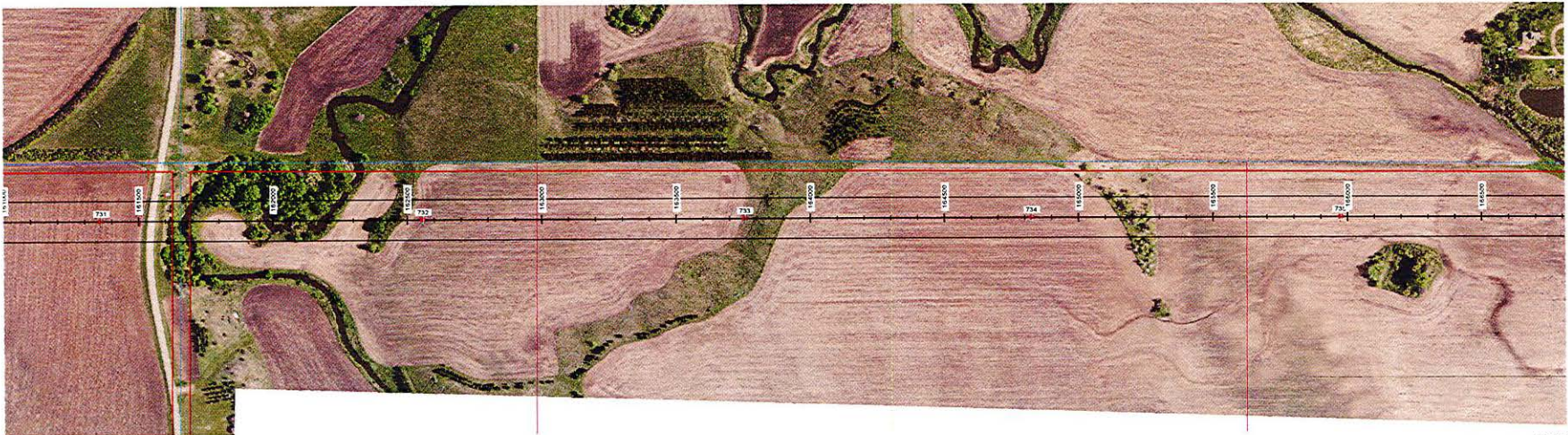
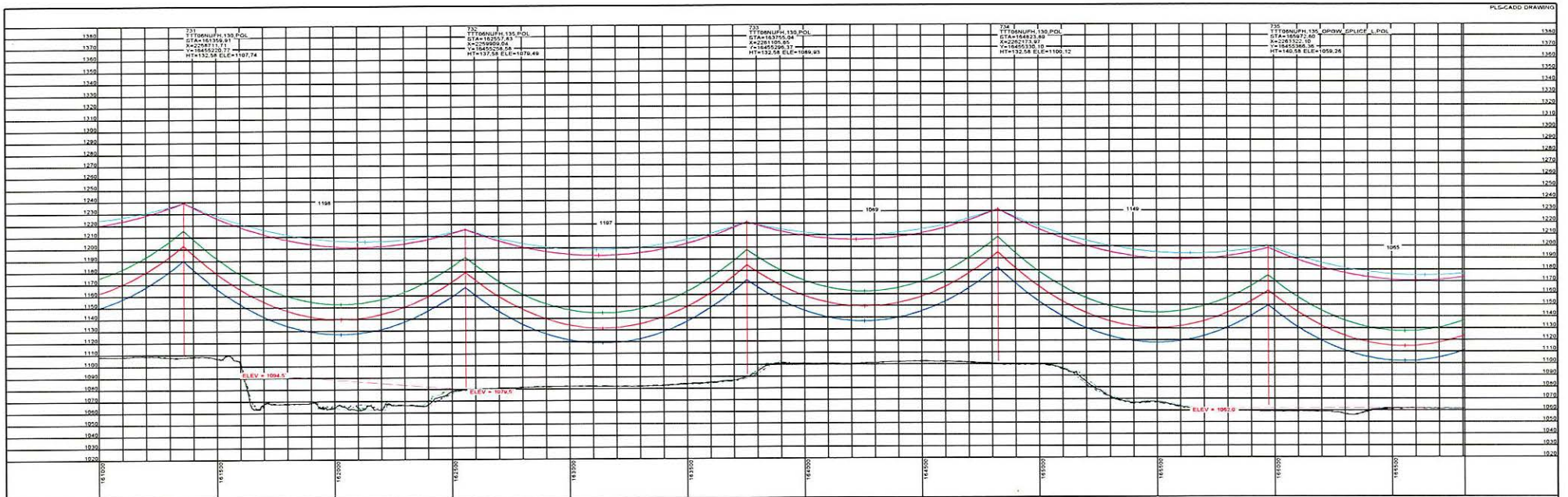
40.0 FT. VERT. SCALE

NORTH

DWG. NO.
BSSE-PP-104-35

REVISION: 3

136508



STRS: 731 - 735

20190301
ISSUED FOR
RECORD



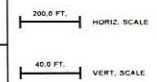
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3	ISSUED FOR RECORD	JOB	JPW	03/01/19

APPROVALS		DATE
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CHECKED BY: JPW		09/23/16
APPROVED BY: DJF		09/23/16

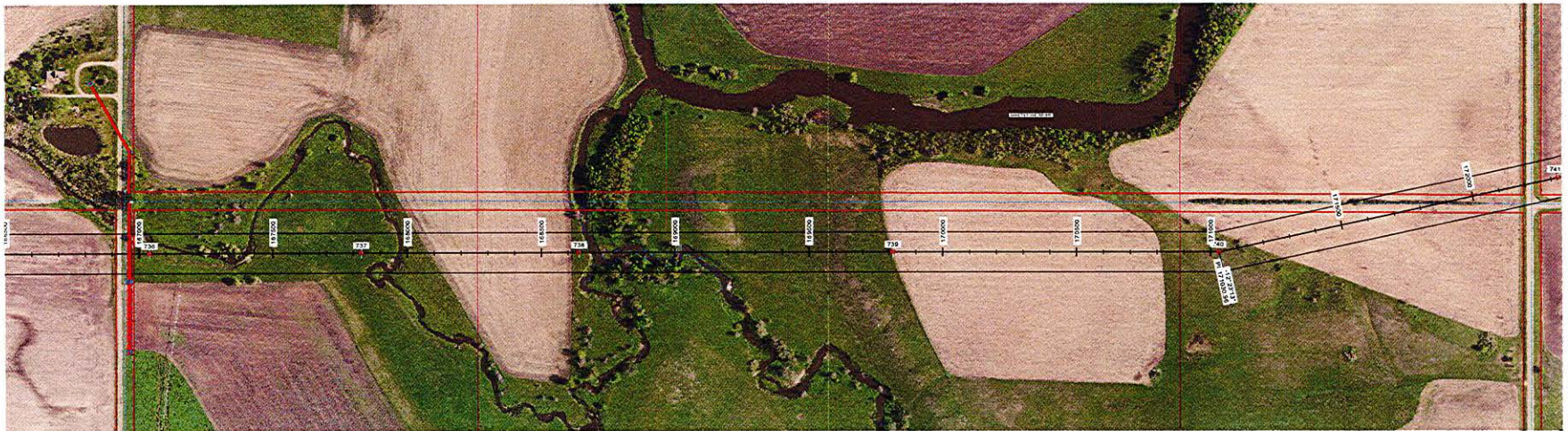
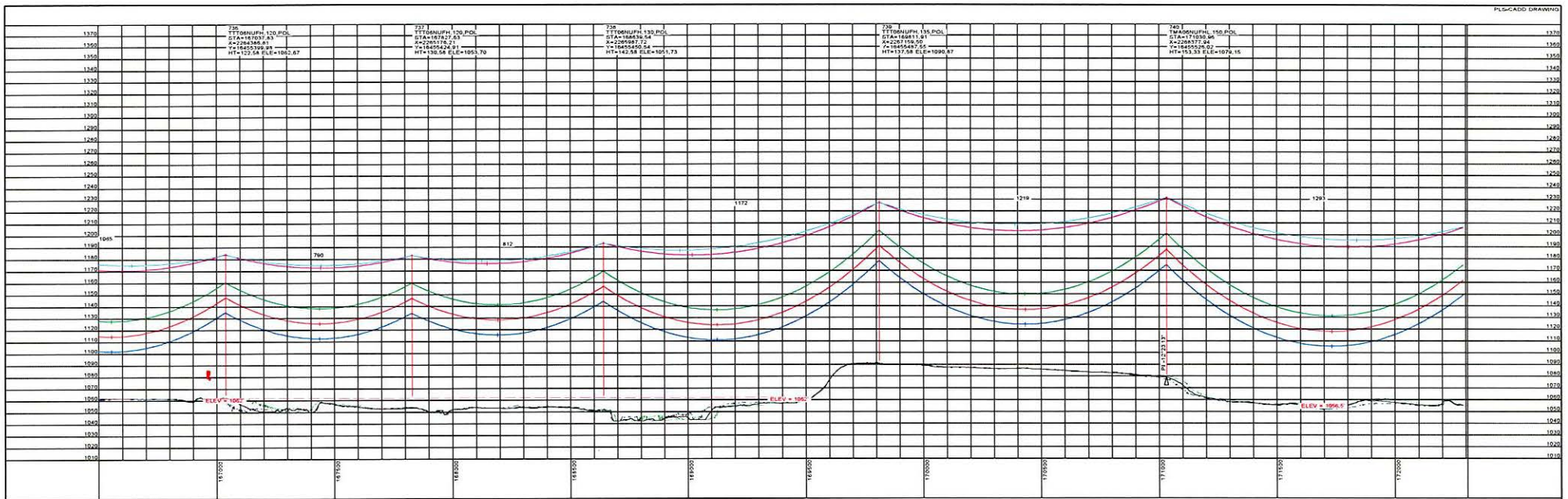
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SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL	
OPGW: 1-DN0-10523	
COORDINATE SYSTEM: UTM ZONE 14N, US FT	



BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE



DWG. NO.
BSSE-PP-104-39
REVISION: 3
136508



STRS: 736 - 740

20190301
ISSUED FOR
RECORD



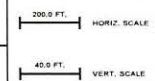
REVISIONS				
REV	DESCRIPTION	DWN	CON	CHK
3	ISSUED FOR RECORD			

APPROVALS		DATE
DRAWN BY: GMD		09/23/16
DESIGN BY: GMD		09/23/16
CHECKED BY: JPW		09/23/16
APPROVED BY: DJF		09/23/16

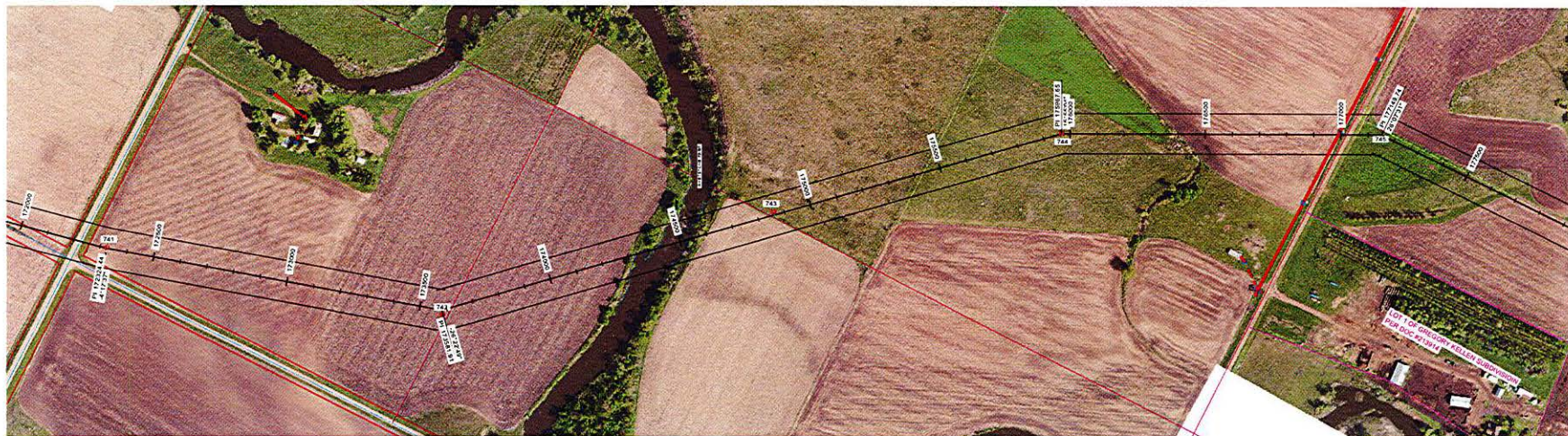
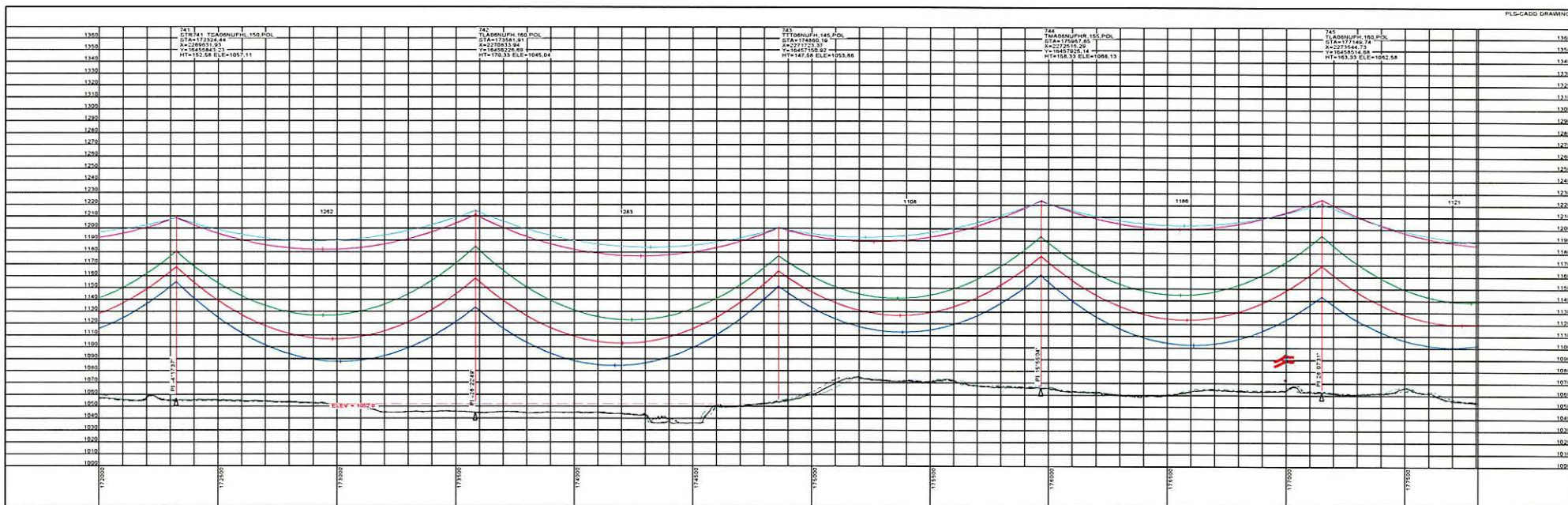
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SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL	
OPGW: 1-DN0-10523	
COORDINATE SYSTEM: UTM ZONE 14N, US FT	



BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE



DWG. NO.
BSSE-PP-104-37
REVISION: 3
136508



STRS: 741 - 745

20190301
ISSUED FOR
RECORD



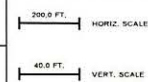
REVISIONS				
REV	DESCRIPTION	OWN	CHK	DATE
3	ISSUED FOR RECORD	JOB	JPW	03/01/19

APPROVALS		DATE
DRAWN BY: GMD		09/23/16
DESIGN BY: GMD		09/23/16
CHECKED BY: JPW		09/23/16
APPROVED BY: DJF		09/23/16

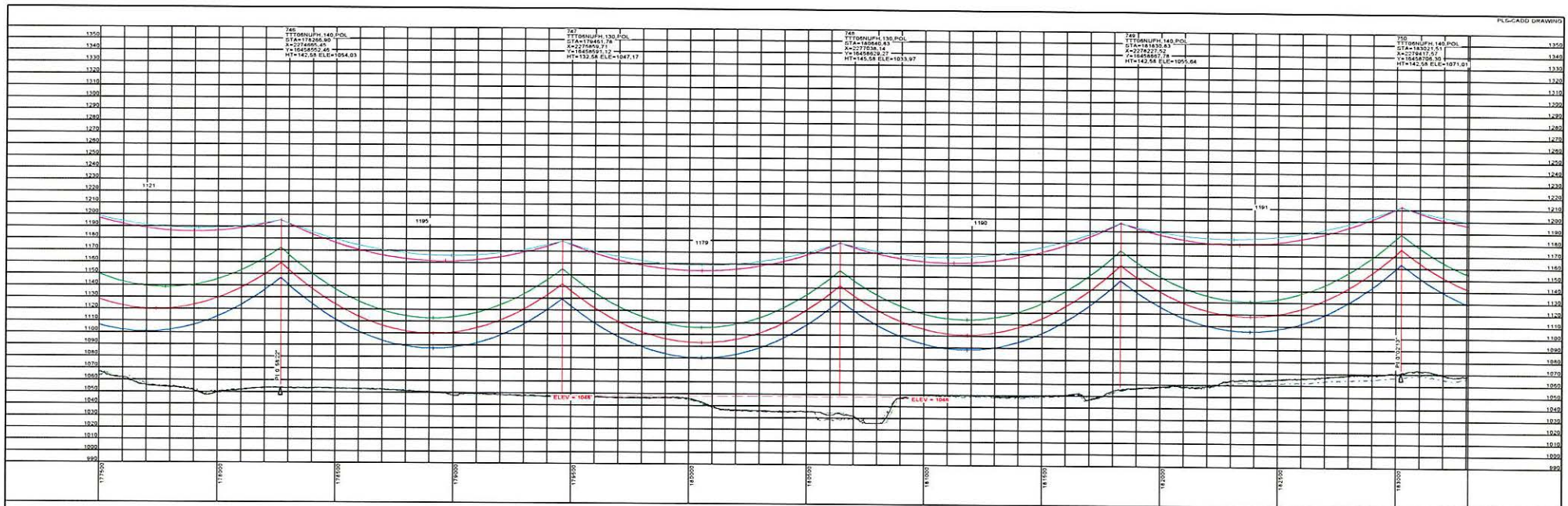
DESIGN DATA	
CONDUCTOR: (2X) 477 KCMIL 26/7 TP HAWK ACSR	
SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL	
OPGW: 1-DN0-10523	
COORDINATE SYSTEM: UTM ZONE 14N, US FT	



BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE



DWG. NO.
BSSE-PP-104-38
REVISION: 3
136508



20190301
ISSUED FOR
RECORD



REVISIONS				
REV	DESCRIPTION	DWN	DGN	CHK
3	ISSUED FOR RECORD	JDB	JDB	JPW
				03/01/19

APPROVALS		DATE
DRAWN BY: GMD		09/23/16
DESIGN BY: GMD		09/23/16
CHECKED BY: JPW		09/23/16
APPROVED BY: DJF		09/23/16

DESIGN DATA	
CONDUCTOR: 3X 477 KCMIL 26/7 TP HAWK ACSR	
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OPGW: 1-DN0-10523	
COORDINATE SYSTEM: UTM ZONE 14N, US FT	

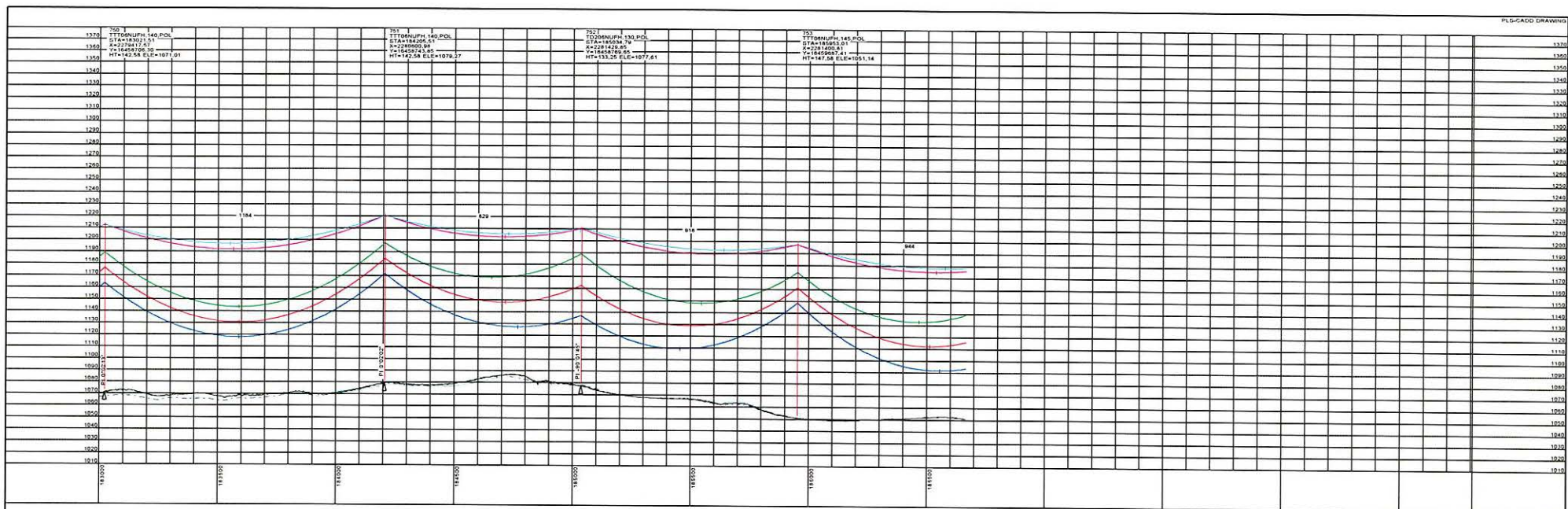


BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE



STRS: 746 - 750

DWG. NO.
BSSE-PP-104-39
REVISION: 3
136508



20190301
ISSUED FOR
RECORD



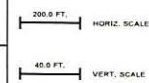
REVISIONS				
NO.	DESCRIPTION	DATE	BY	CHK
3	ISSUED FOR RECORD	03/01/19	JPW	JPW

APPROVALS		DATE
DRAWN BY: GMD		09/23/16
DESIGN BY: GMD		09/23/16
CHECKED BY: JPW		09/23/16
APPROVED BY: DJF		09/23/16

DESIGN DATA	
CONDUCTOR: (2X) 477 KCMIL 26/7 TP HAWK ACSR	
SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL	
OPGW: 1-DN0-10523	
COORDINATE SYSTEM: UTM ZONE 14N, US FT	

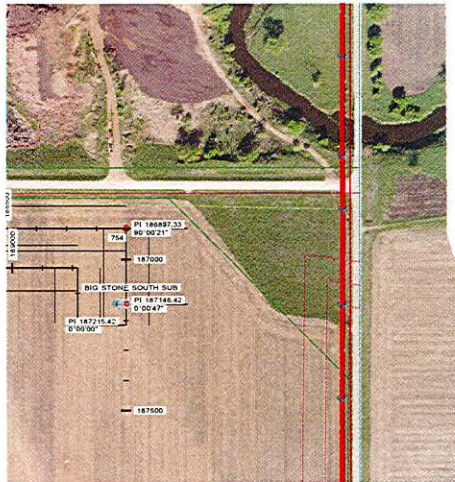
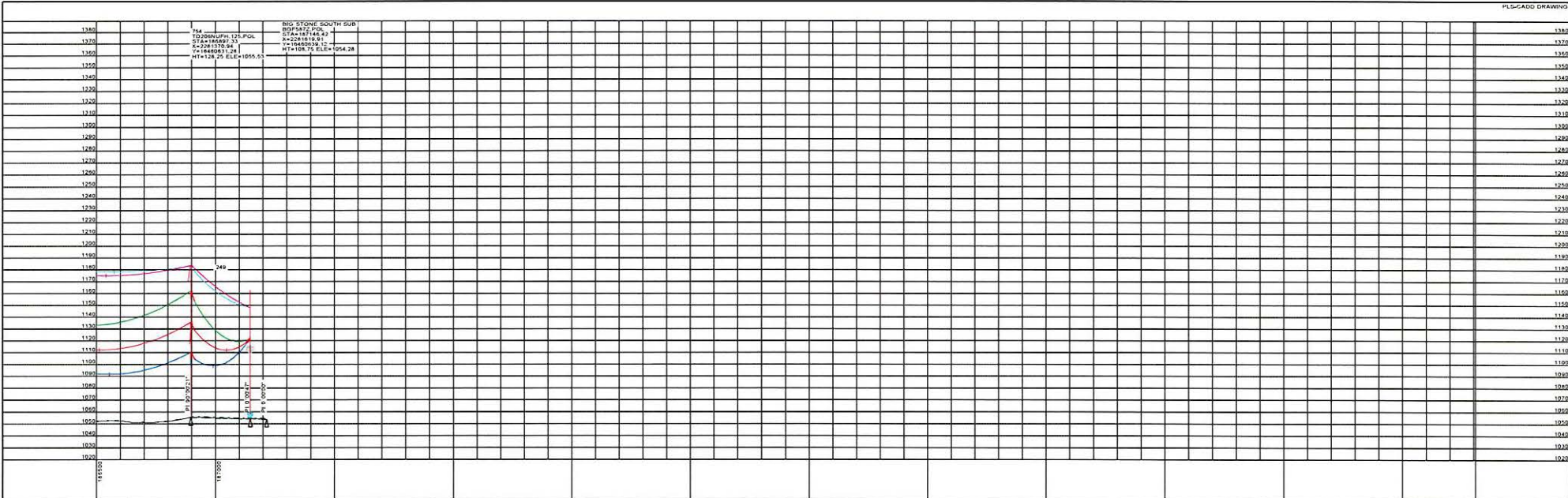


BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE



STRS: 750 - 753

DWG. NO.
BSSE-PP-104-40
REVISION: 3
136508



STRS: 754 - BIG STONE SOUTH SUB

20190301
ISSUED FOR
RECORD

POWER
ENGINEERS

REVISIONS					APPROVALS		DATE	DESIGN DATA
							CONDUCTOR: (2X) 477 KCMIL 267 TP HAWK ACSR	
							SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL	
							OPGW: 1-DND-10523	
3	ISSUED FOR RECORD	JDB	JDB	JPW	03/01/19	CHECKED BY: JPW	09/23/16	
REV	DESCRIPTION	DWN	DGN	CHK	DATE	APPROVED BY: DJF	09/23/16	

BSS+E
Big Stone South to Ellendale

BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

200.0 FT.
HORIZ. SCALE

40.0 FT.
VERT. SCALE

NORTH

DWG. NO.
BSSE-PP-104-41

REVISION: 3

136508