PLS-CADD DRAWING

BIG STONE SOUTH - ELLENDALE 345 KV TRANSMISSION LINE

STR 590 - BIG STONE SOUTH SUB (SOUTH DAKOTA)

20190301
ISSUED FOR RECORD

POWER ENGINEERS

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

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

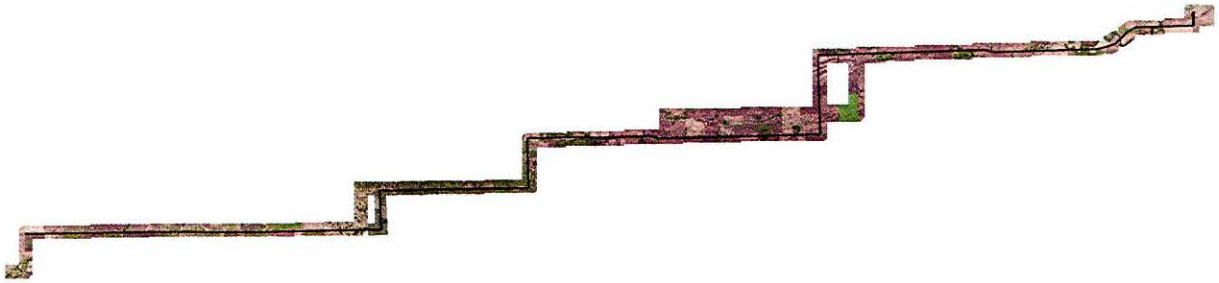
DESIGN DATA
CONDUCTOR: (2X) 477 KCMIL 26/7 TP HAWK ACSR
SHIELD WIRE: 1-3/8" 7 STRAND EHS STEEL
OPGW: 1-DN0-10523

COORDINATE SYSTEM: UTM ZONE 14N, US FT

BSS+E
Big Stone South to Ellendale

BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

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



20190301
ISSUED FOR
RECORD

POWER ENGINEERS

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

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

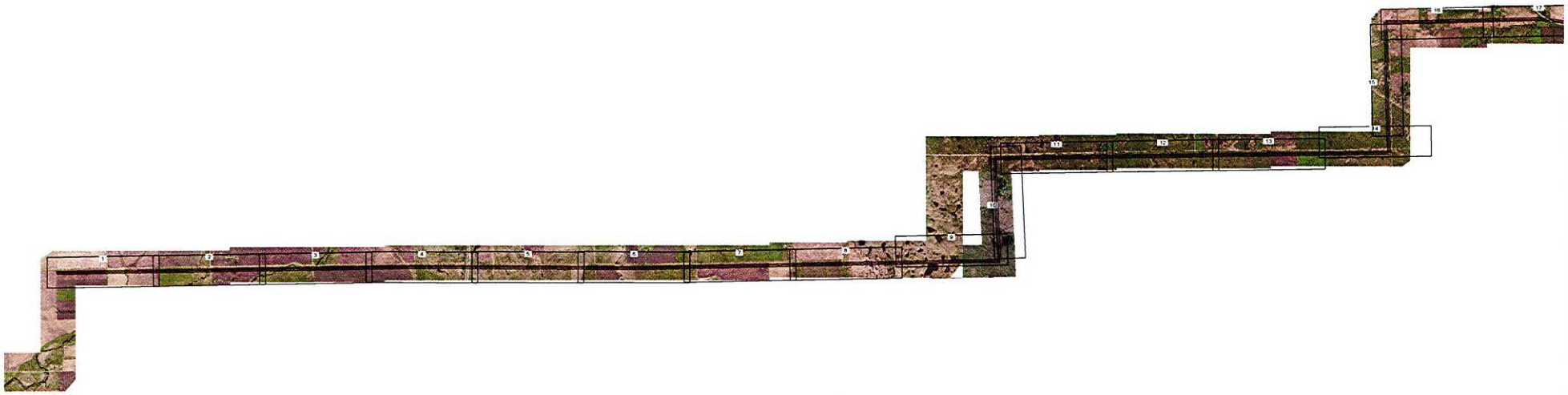
BSS+E
Big Stone South to Ellendale

BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

DWG. NO.
BSSE-PP-104-2

REVISION: 3

136508



20190301
ISSUED FOR RECORD

POWER ENGINEERS

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

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

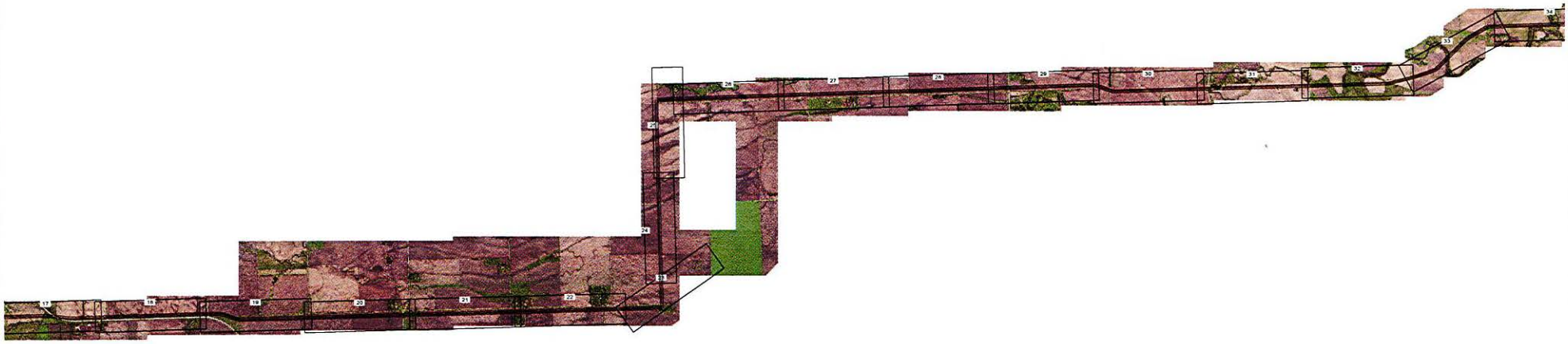
COORDINATE SYSTEM: UTM ZONE 14N, US FT

BSS+E
Big Stone South to Ellendale

BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

NORTH

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



20190301
ISSUED FOR RECORD

POWER ENGINEERS

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

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

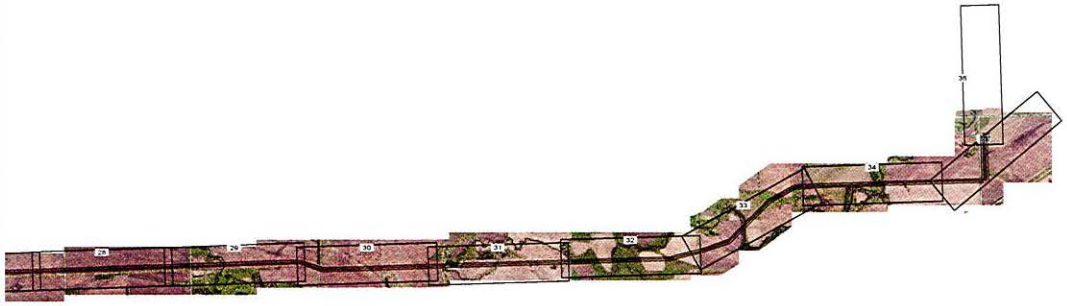
COORDINATE SYSTEM: UTM ZONE 14N, US FT

BSS+E
Big Stone South to Ellendale

BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

NORTH

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



20190301
ISSUED FOR RECORD

POWER ENGINEERS

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

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

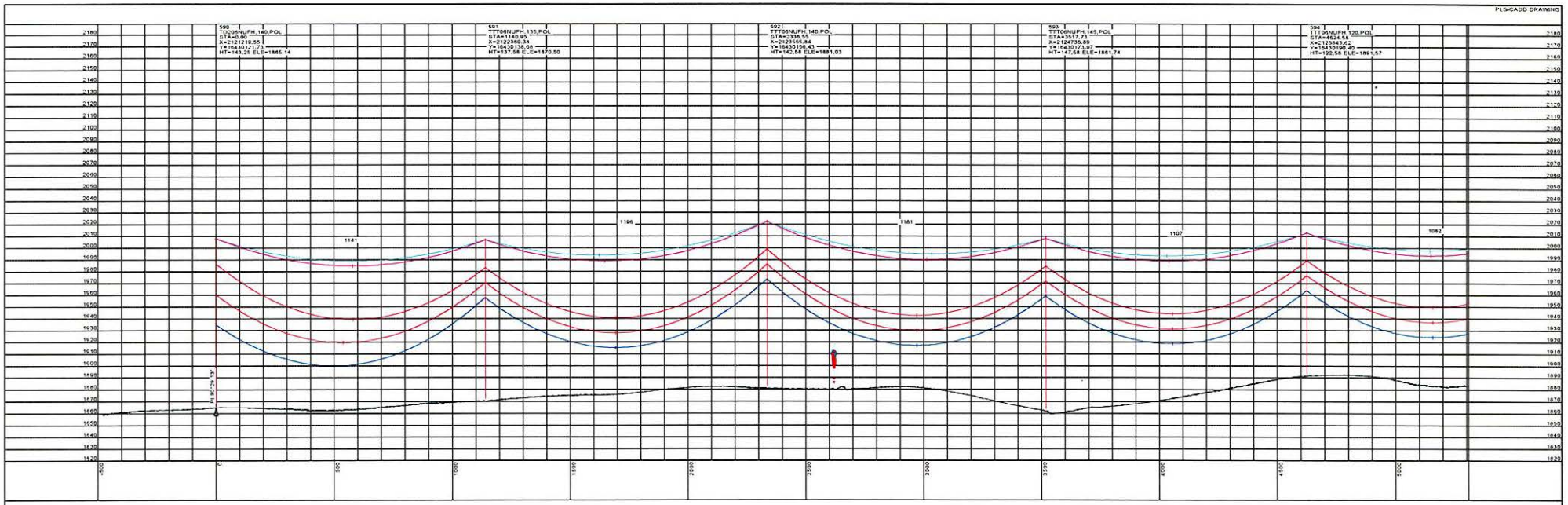
BSS+E
Big Stone South to Ellendale

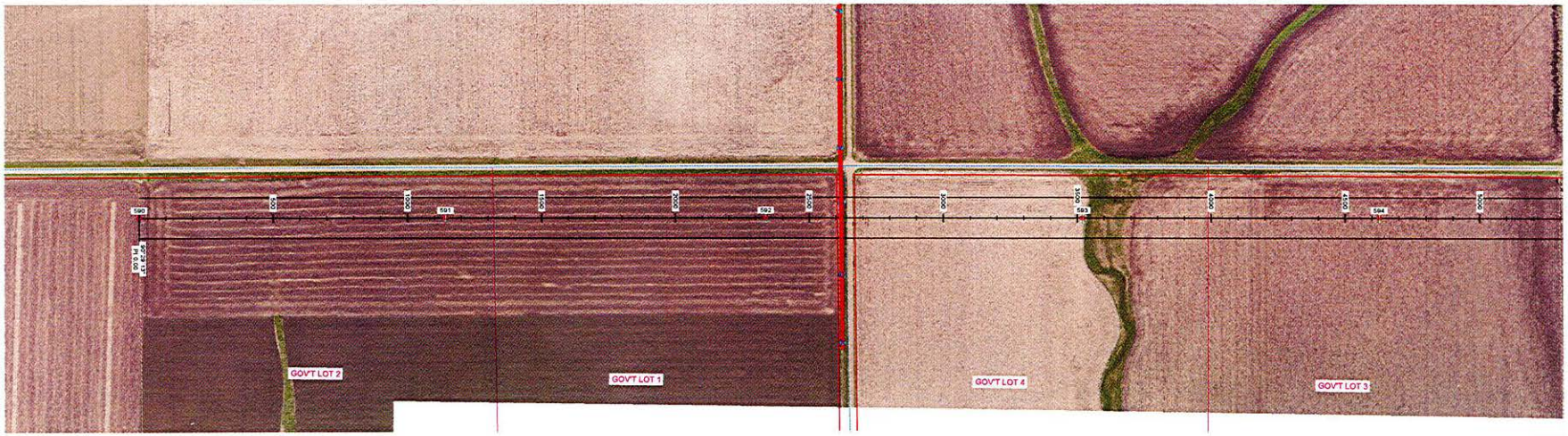
BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

NORTH

DWG. NO.
BSSE-PP-104-5
REVISION: 3
136508

PLS-CADD DRAWING





STRS: 590 - 594

20190301
ISSUED FOR RECORD

POWER ENGINEERS

REVISIONS					
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REV	DESCRIPTION	DWN	DGN	CHK	DATE

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

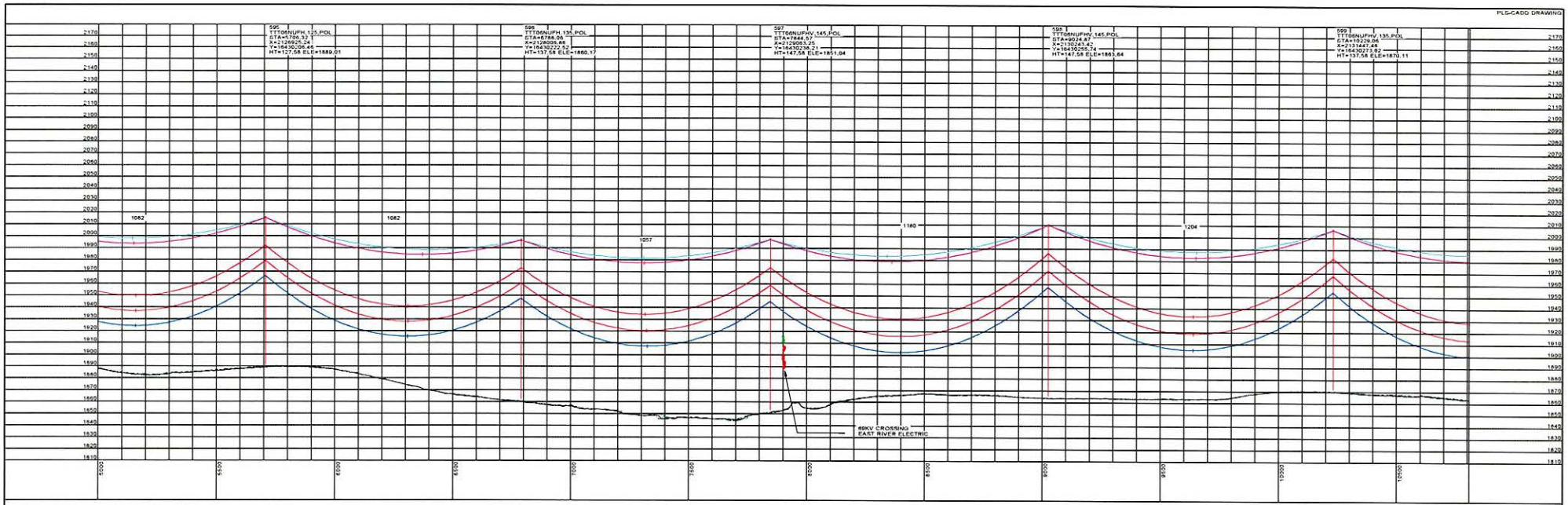
COORDINATE SYSTEM: UTM ZONE 14N, US FT

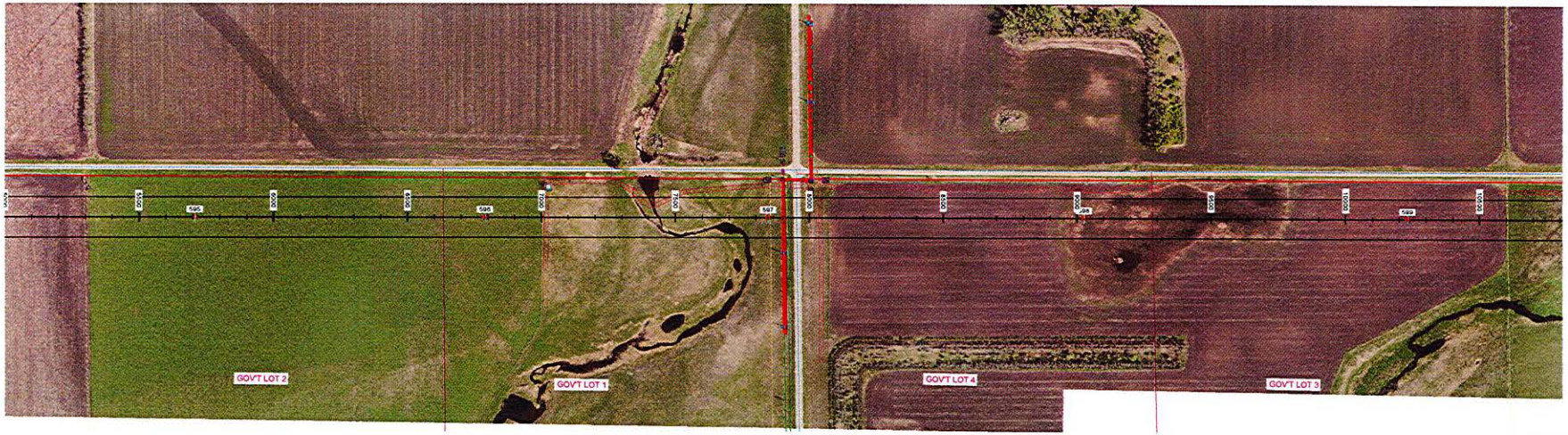
BSS+E
Big Stone South to Ellendale

BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

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

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





STRS: 595 - 599

20190301
ISSUED FOR
RECORD

POWER ENGINEERS

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

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

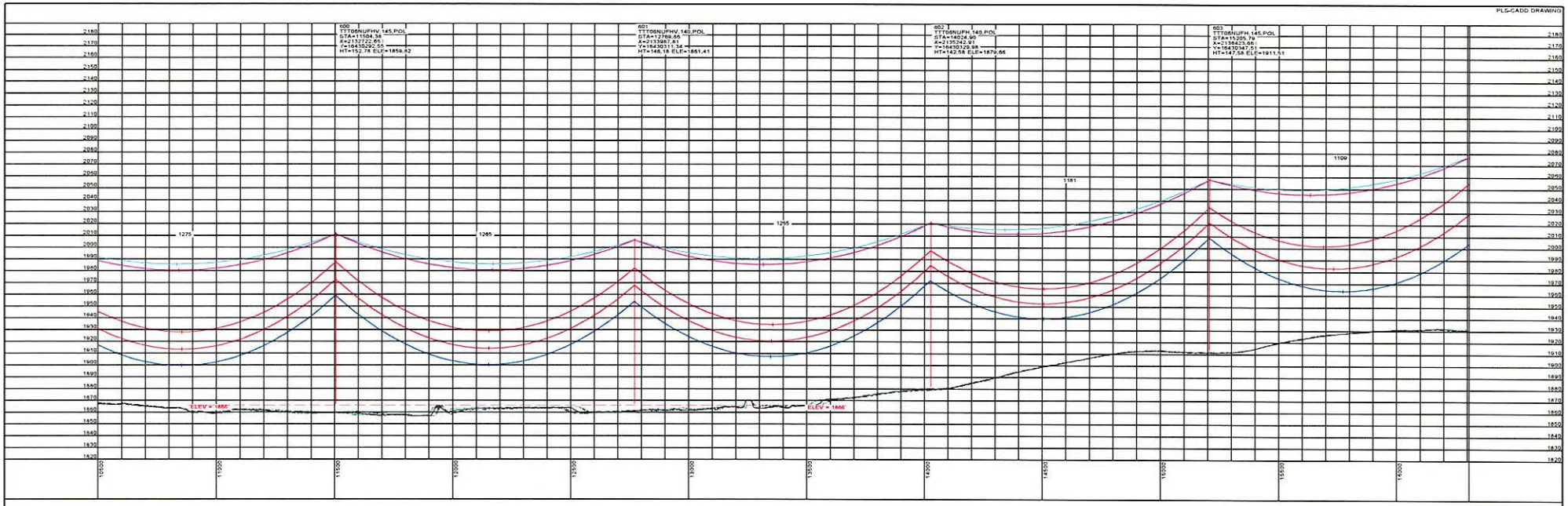
COORDINATE SYSTEM: UTM ZONE 14N, US FT

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-104-7
REVISION: 3
136508



STRS: 600 - 603

20190301
ISSUED FOR
RECORD

POWER ENGINEERS

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

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

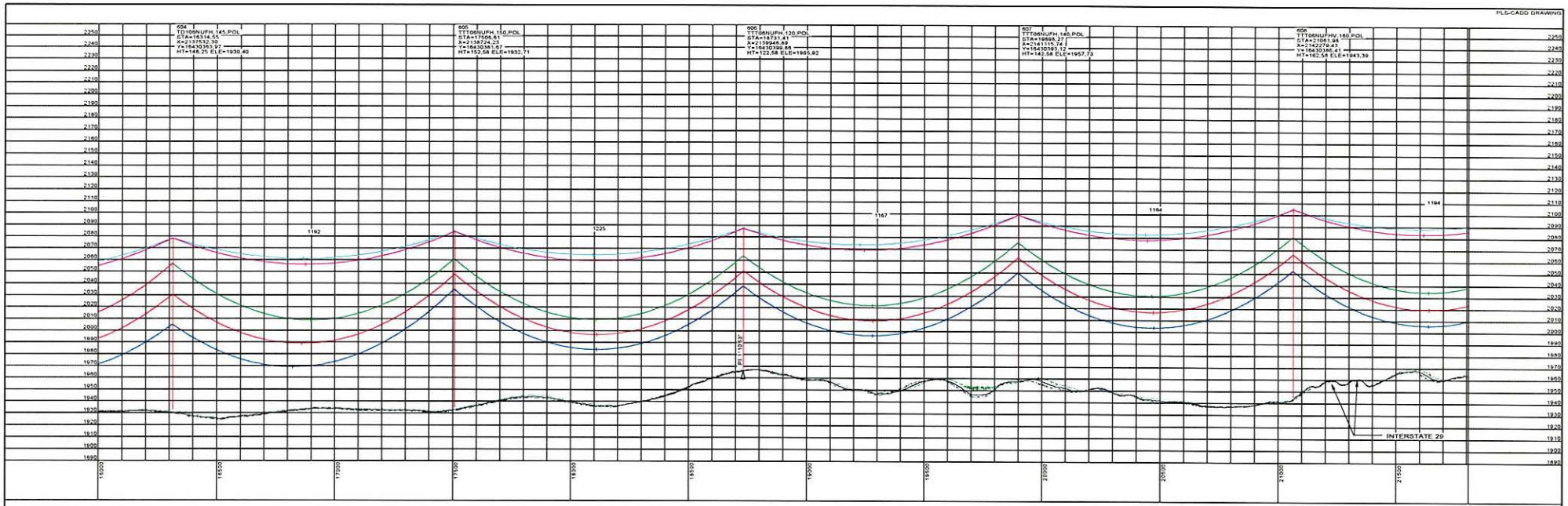
COORDINATE SYSTEM: UTM ZONE 14N, US FT

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-104-8
REVISION: 3
136508



STRS: 604 - 608

20190301
ISSUED FOR RECORD

POWER ENGINEERS

REVISIONS					
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REV	DESCRIPTION	DWN	DGN	CHK	DATE

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

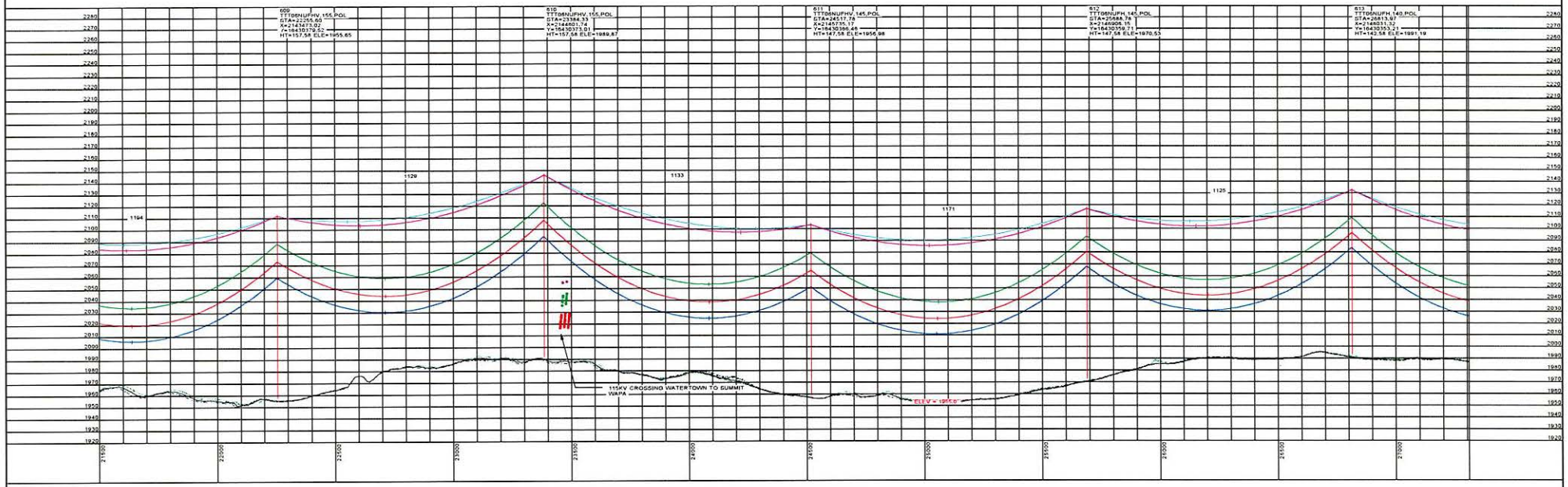
BSS+E
Big Stone South to Ellendale

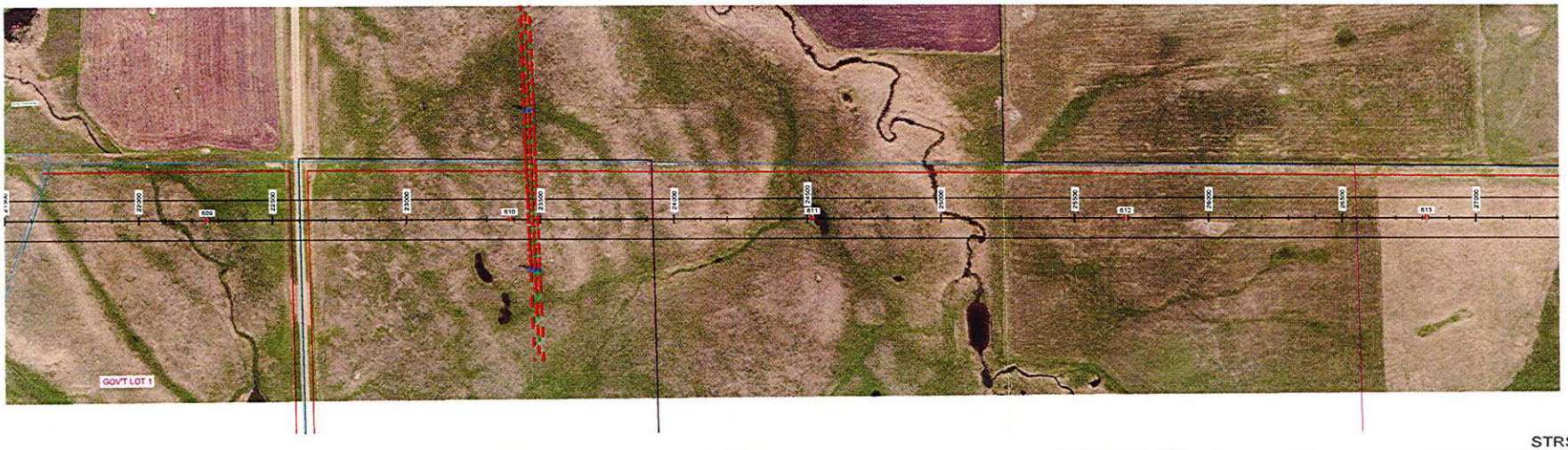
BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

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

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

PLS-CADD DRAWING





STRS: 609 - 613

20190301
ISSUED FOR RECORD

POWER ENGINEERS

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

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

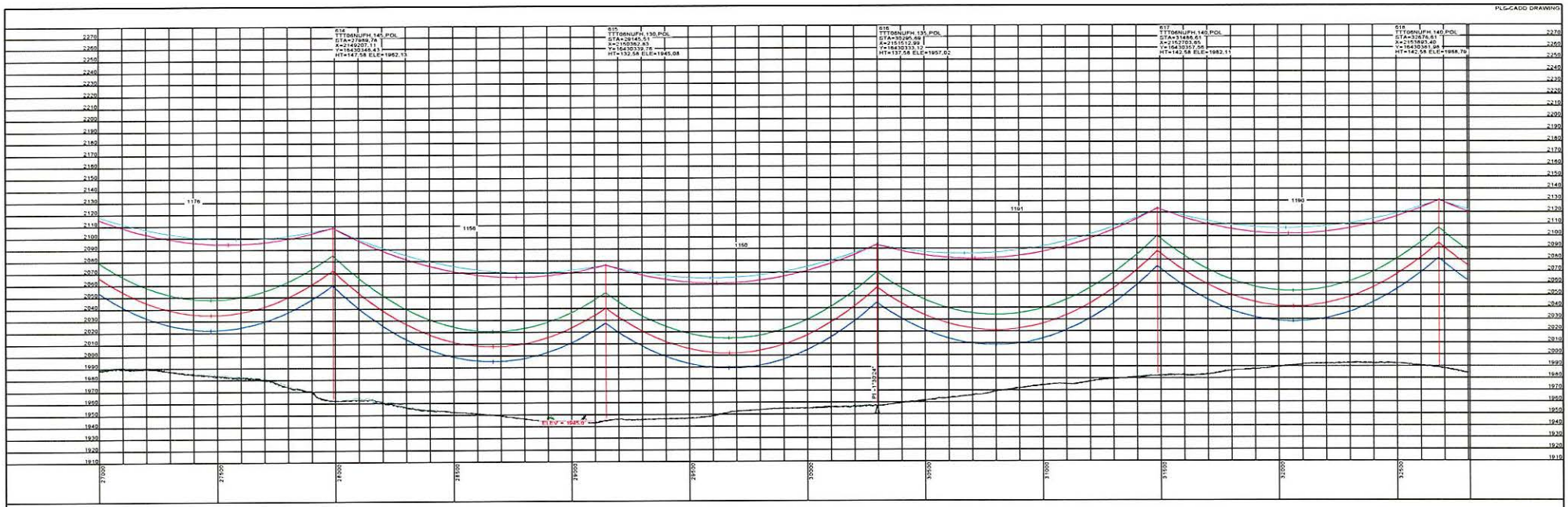
BSS+E
Big Stone South to Ellendale

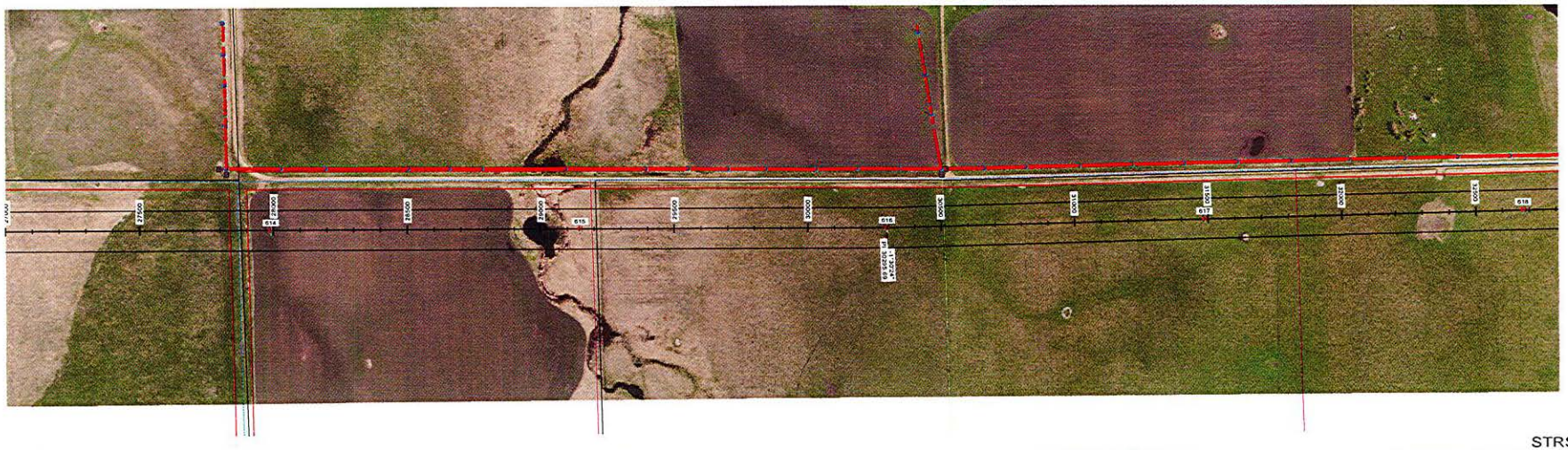
BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

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

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

PLS-CADD DRAWING





STRS: 614 - 618

20190301
ISSUED FOR
RECORD

POWER ENGINEERS

REVISIONS					
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REV	DESCRIPTION	DWN	DGN	CHK	DATE

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

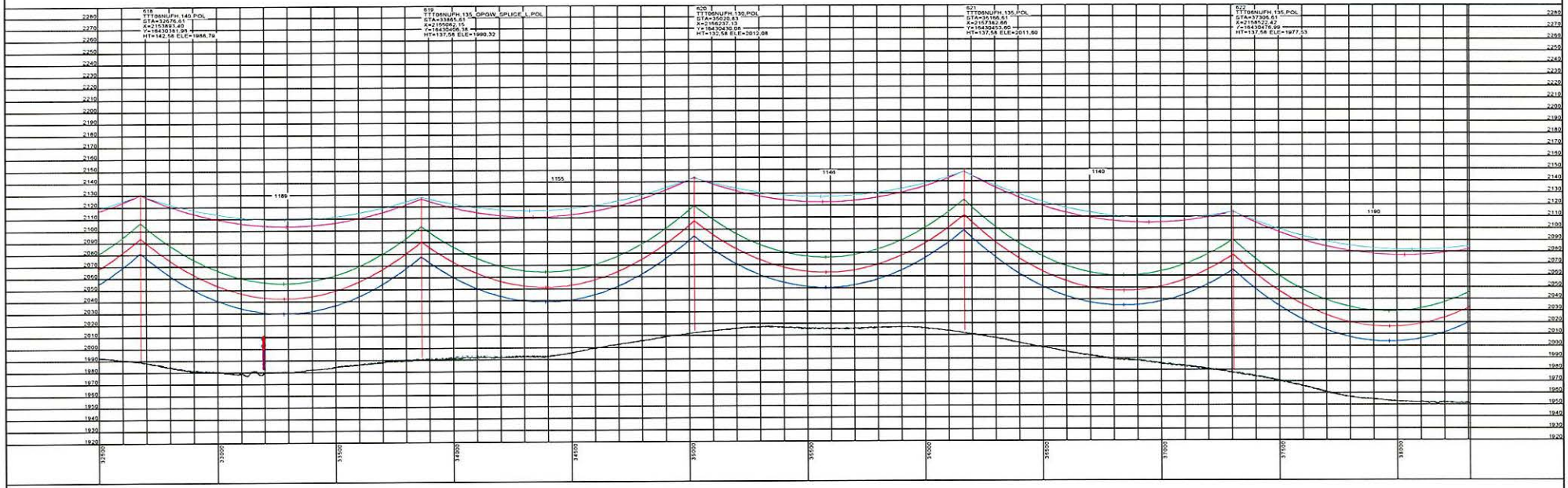
BSS+E
Big Stone South to Ellendale

BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

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

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

PLS-CADD DRAWING



STRS: 618 - 622

20190301
ISSUED FOR RECORD

POWER ENGINEERS

REVISIONS					
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REV	DESCRIPTION	DWN	DGN	CHK	DATE

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

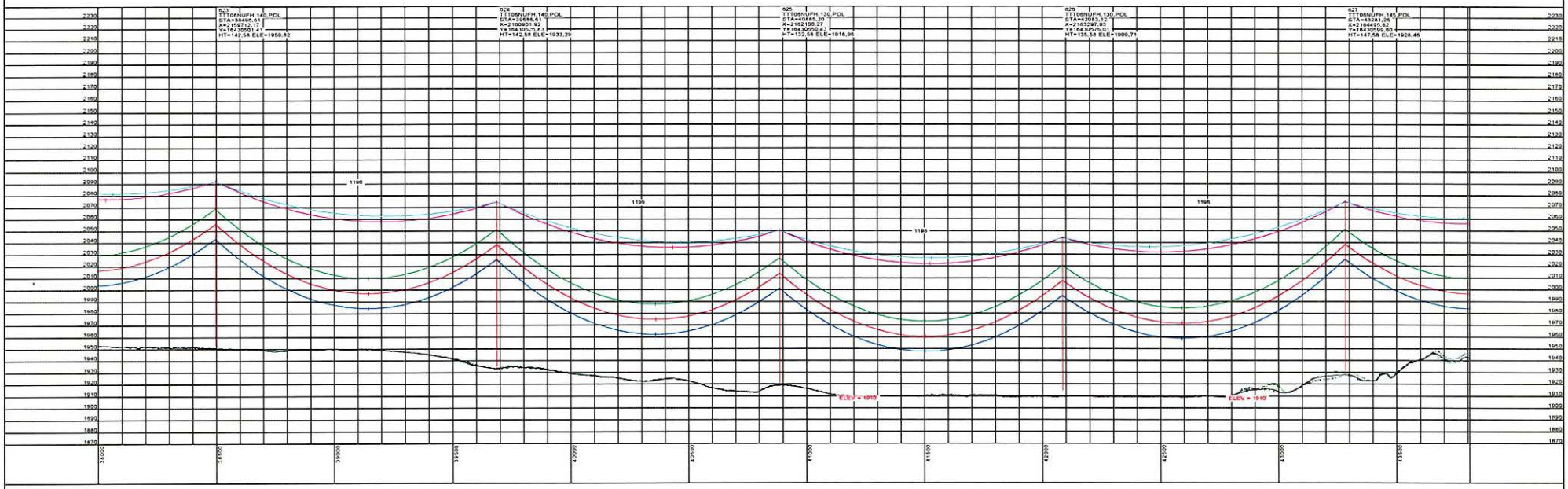
BSS+E
Big Stone South to Ellendale

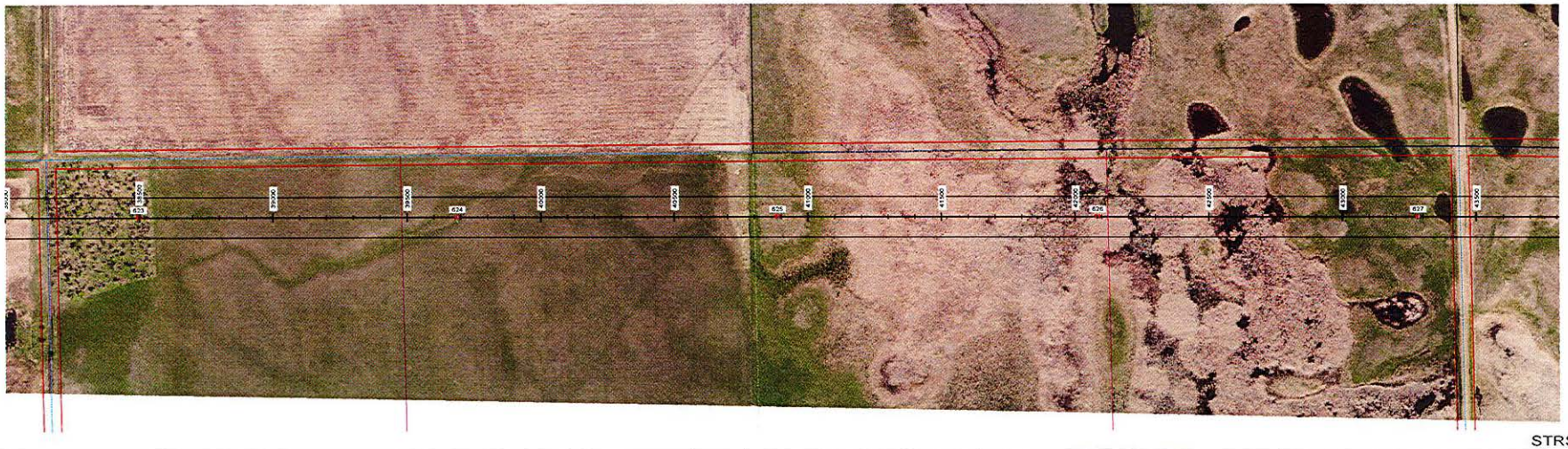
BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

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

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

PLS-CADD DRAWING





STRS: 623 - 627

20190301
ISSUED FOR
RECORD

POWER ENGINEERS

REVISIONS					
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REV	DESCRIPTION	DWN	DGN	CHK	DATE

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

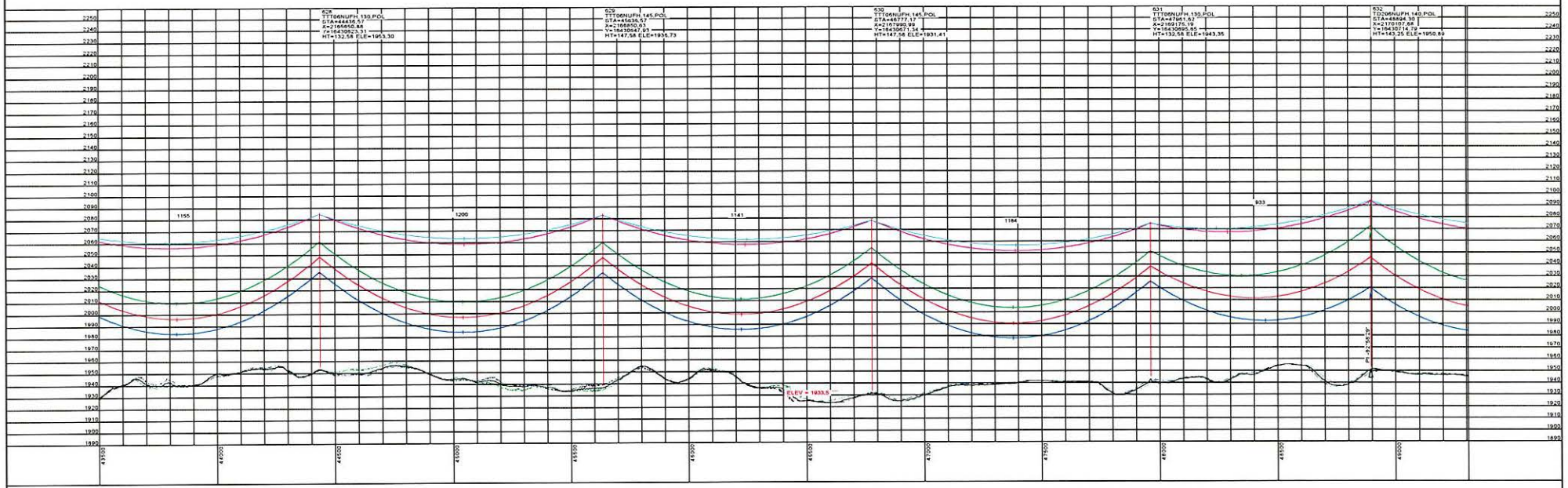
BSS+E
Big Stone South to Ellendale

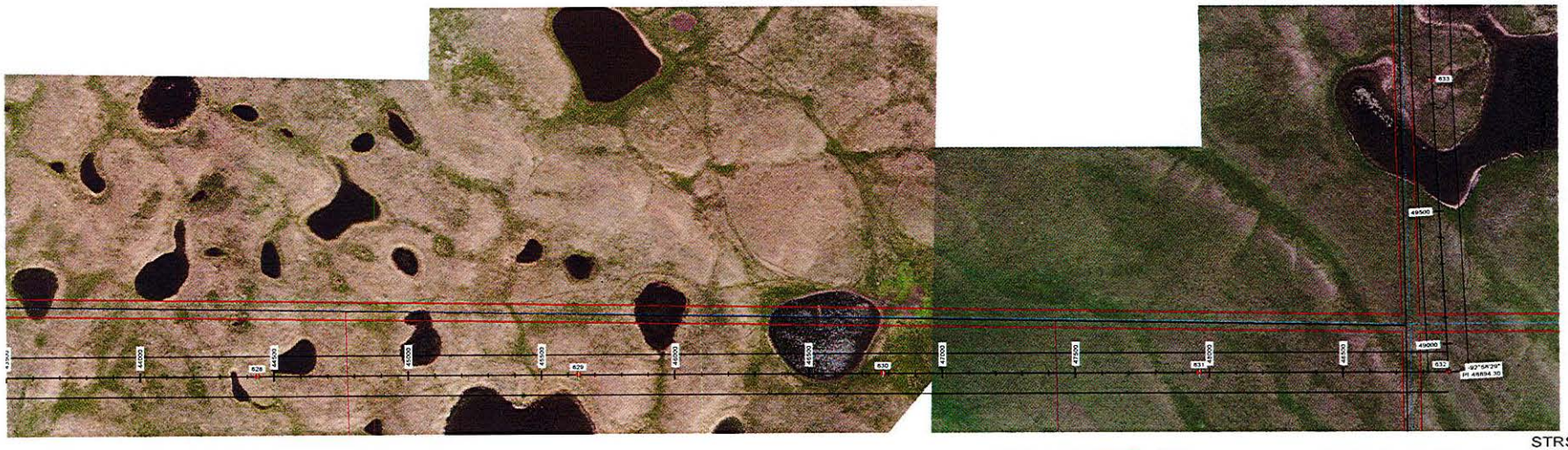
BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

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

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

PLS-CADD DRAWING





STRS: 628 - 632

20190301
ISSUED FOR
RECORD

POWER ENGINEERS

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

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

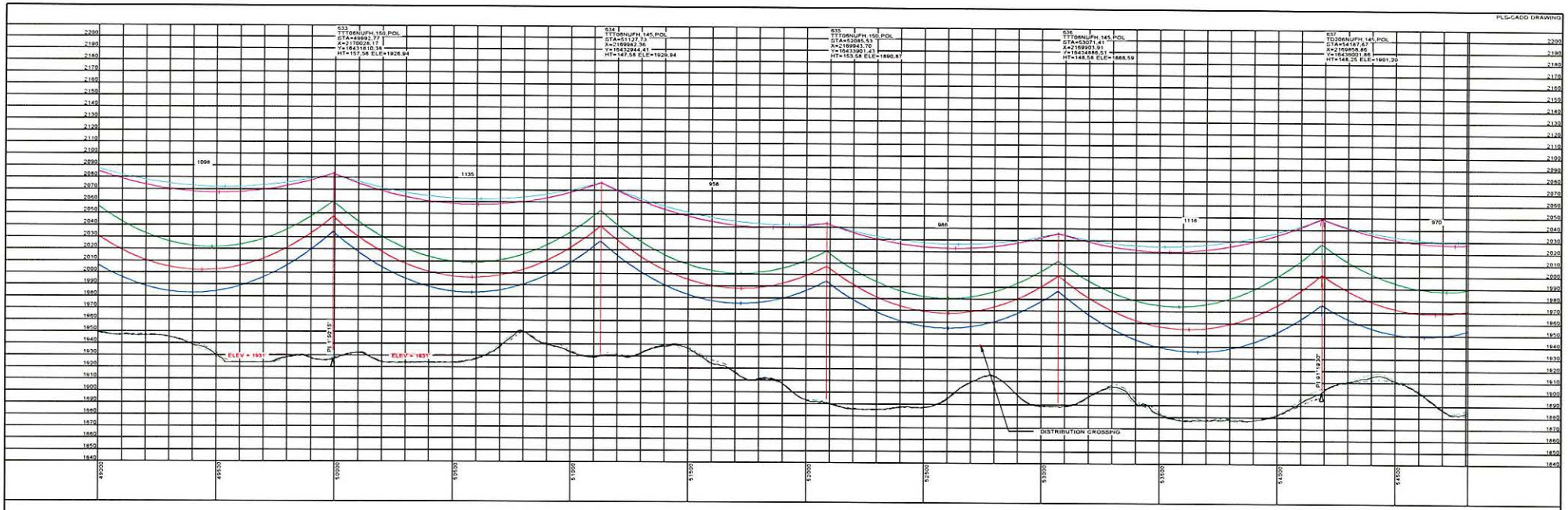
COORDINATE SYSTEM: UTM ZONE 14N, US FT

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-104-14
REVISION: 3
136508



STRS: 633 - 637

20190301
ISSUED FOR
RECORD

POWER ENGINEERS

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

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

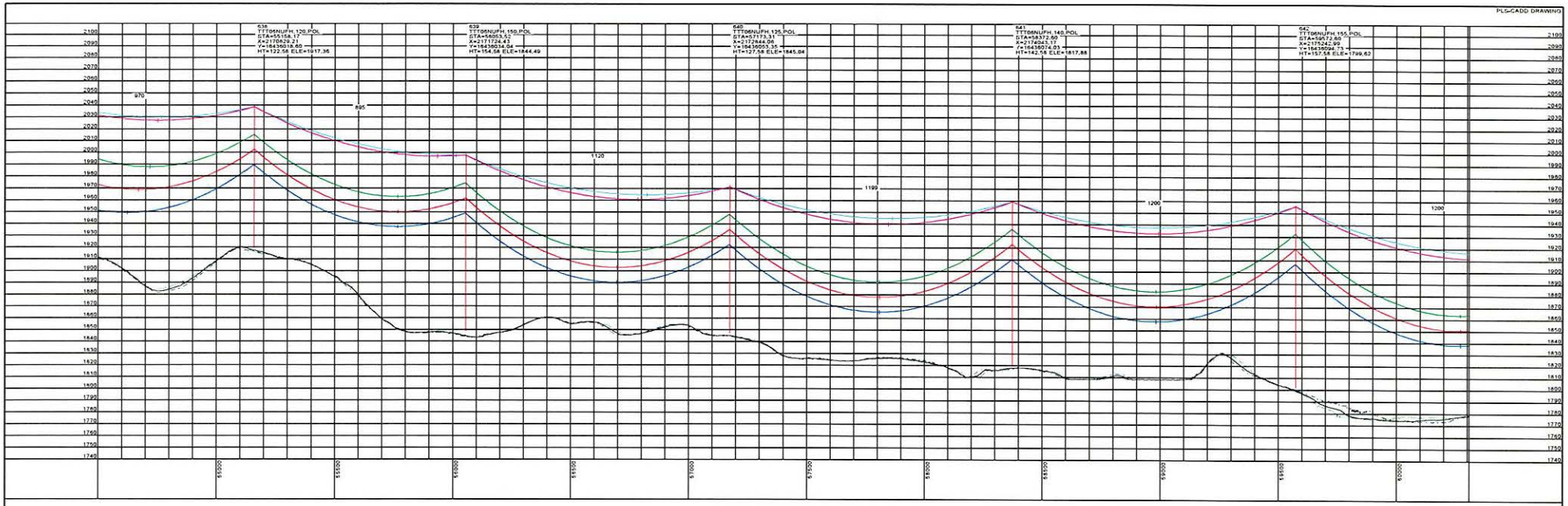
COORDINATE SYSTEM: UTM ZONE 14N, US FT

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-104-15
REVISION: 3
136508



STRS: 638 - 642

20190301
ISSUED FOR
RECORD

POWER ENGINEERS

REVISIONS					
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REV	DESCRIPTION	DWN	DGN	CHK	DATE

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

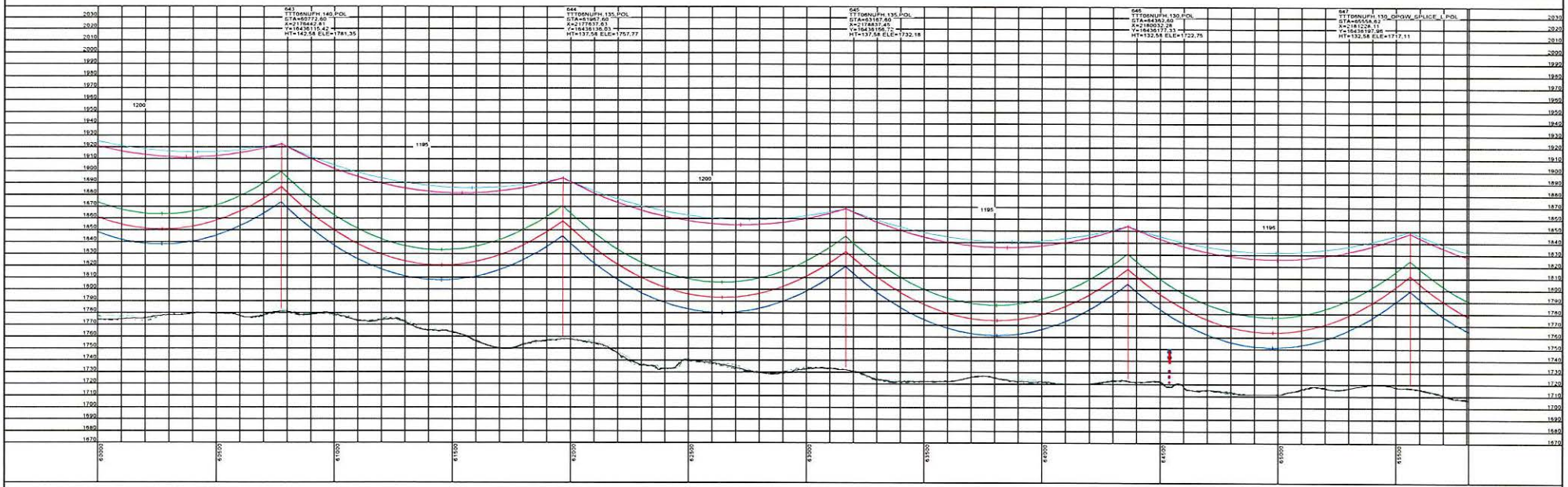
BSS+E
Big Stone South to Ellendale

BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

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

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

PLS-CADD DRAWING



STRS: 643 - 647

20190301
ISSUED FOR
RECORD

POWER ENGINEERS

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

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

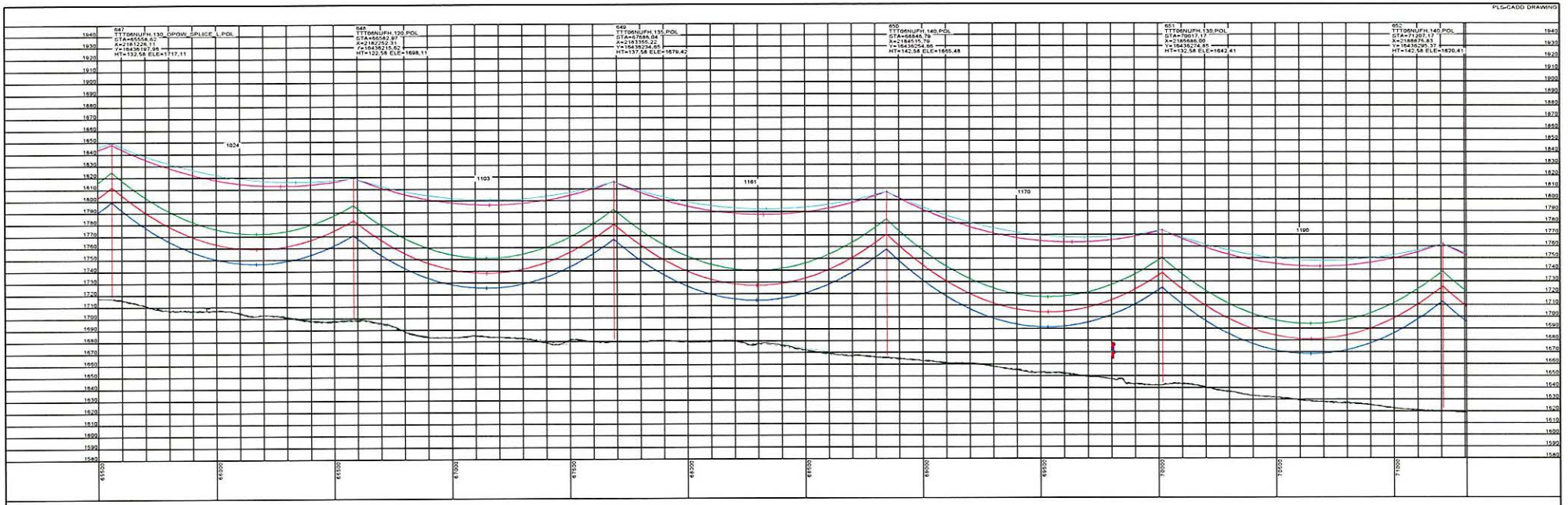
COORDINATE SYSTEM: UTM ZONE 14N, US FT

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-104-17
REVISION: 3
136508



STRS: 647 - 652

20190301
ISSUED FOR
RECORD

POWER ENGINEERS

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

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

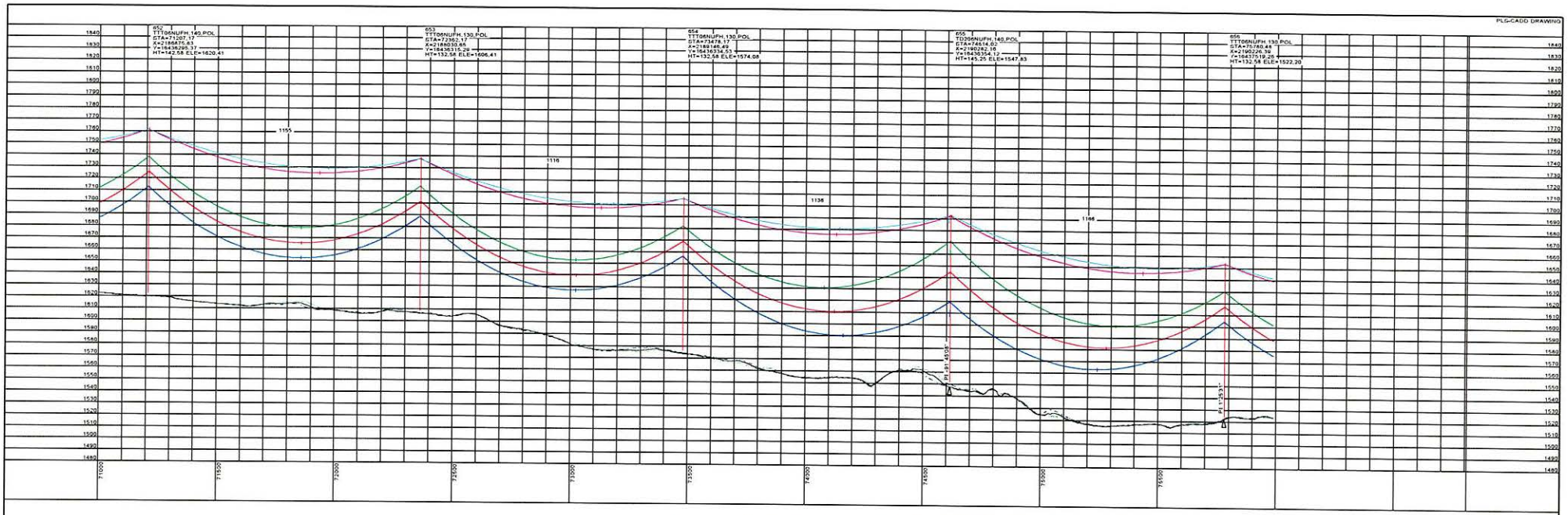
COORDINATE SYSTEM: UTM ZONE 14N, US FT

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-104-18
REVISION: 3
136508



STRS: 652 - 656

20190301
ISSUED FOR
RECORD

POWER ENGINEERS

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

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

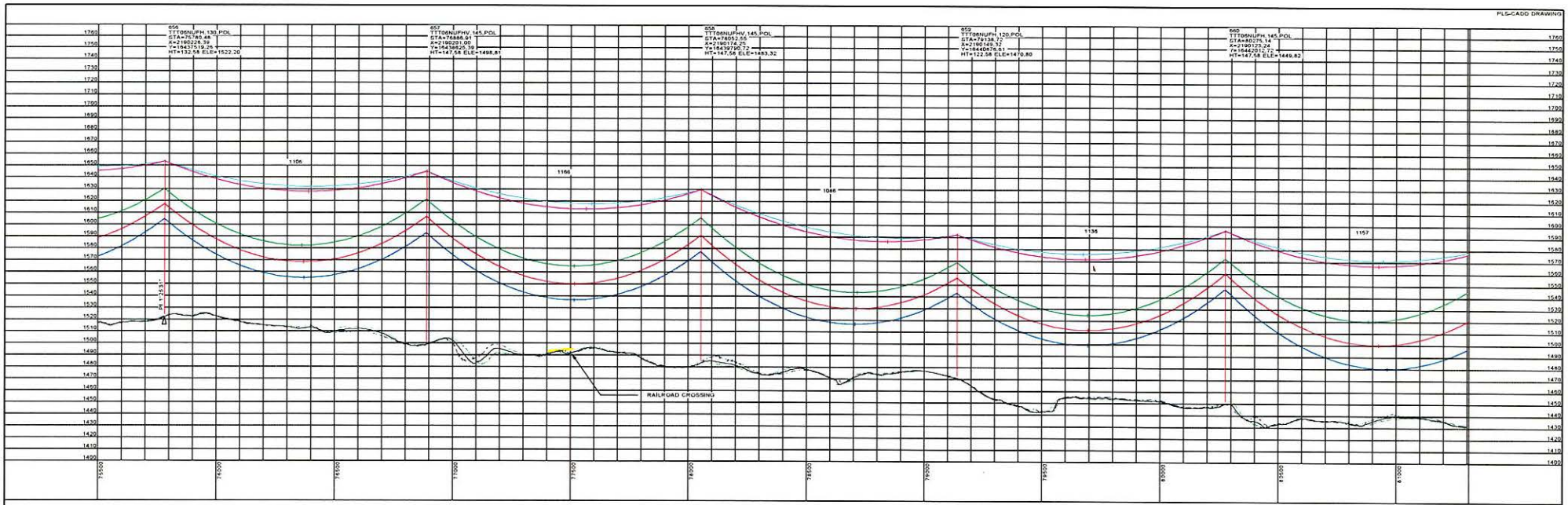
COORDINATE SYSTEM: UTM ZONE 14N, US FT

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-104-19
REVISION: 3
136508



STRS: 656 - 660

20190301
ISSUED FOR RECORD

POWER ENGINEERS

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

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

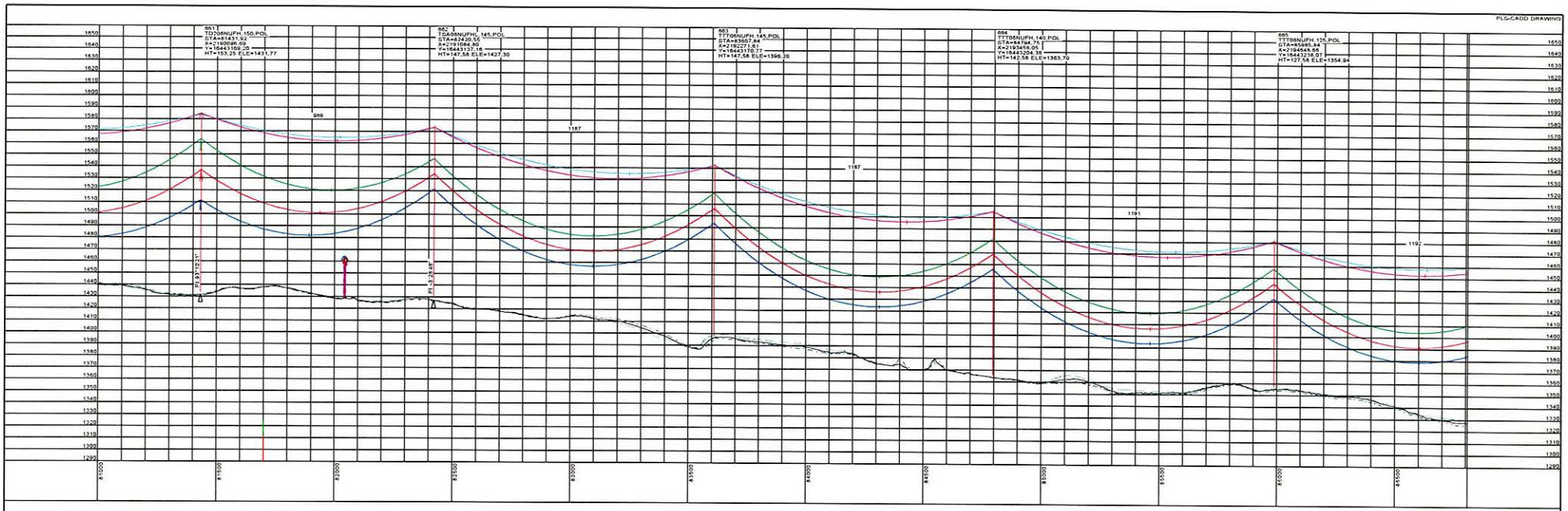
COORDINATE SYSTEM: UTM ZONE 14N, US FT

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-104-20
REVISION: 3
136508



STRS: 661 - 665

20190301
ISSUED FOR
RECORD

POWER ENGINEERS

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

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

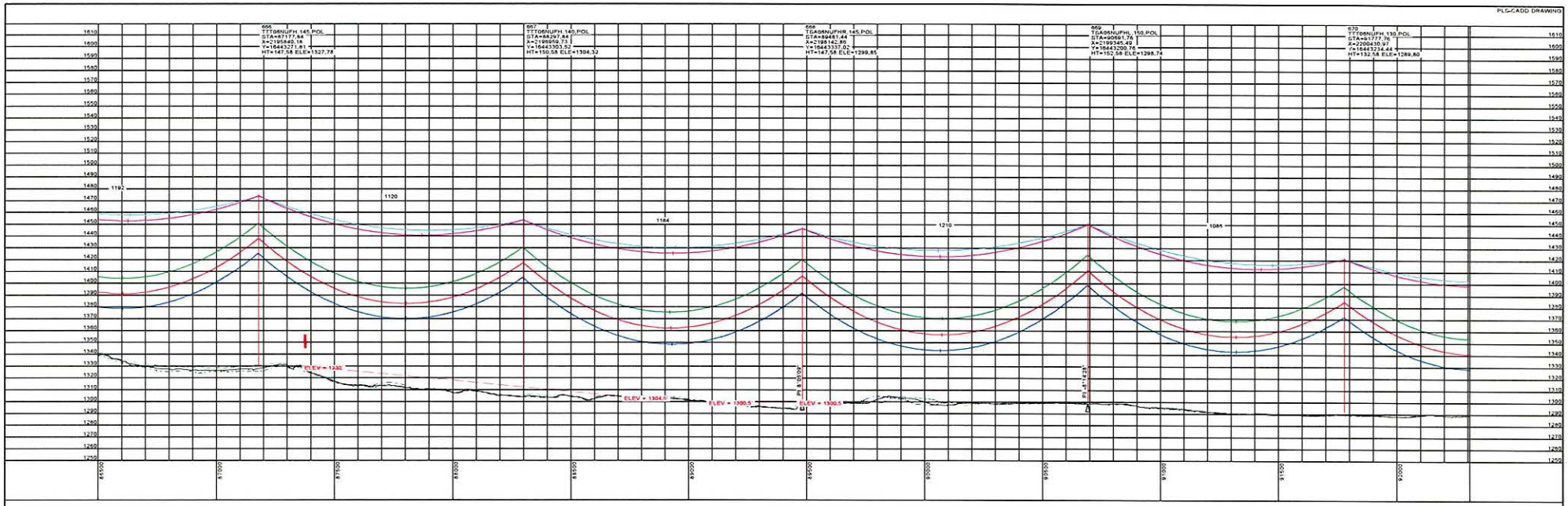
COORDINATE SYSTEM: UTM ZONE 14N, US FT

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-104-21
REVISION: 3
136508



STRS: 666 - 670

20190301
ISSUED FOR
RECORD

POWER ENGINEERS

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

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

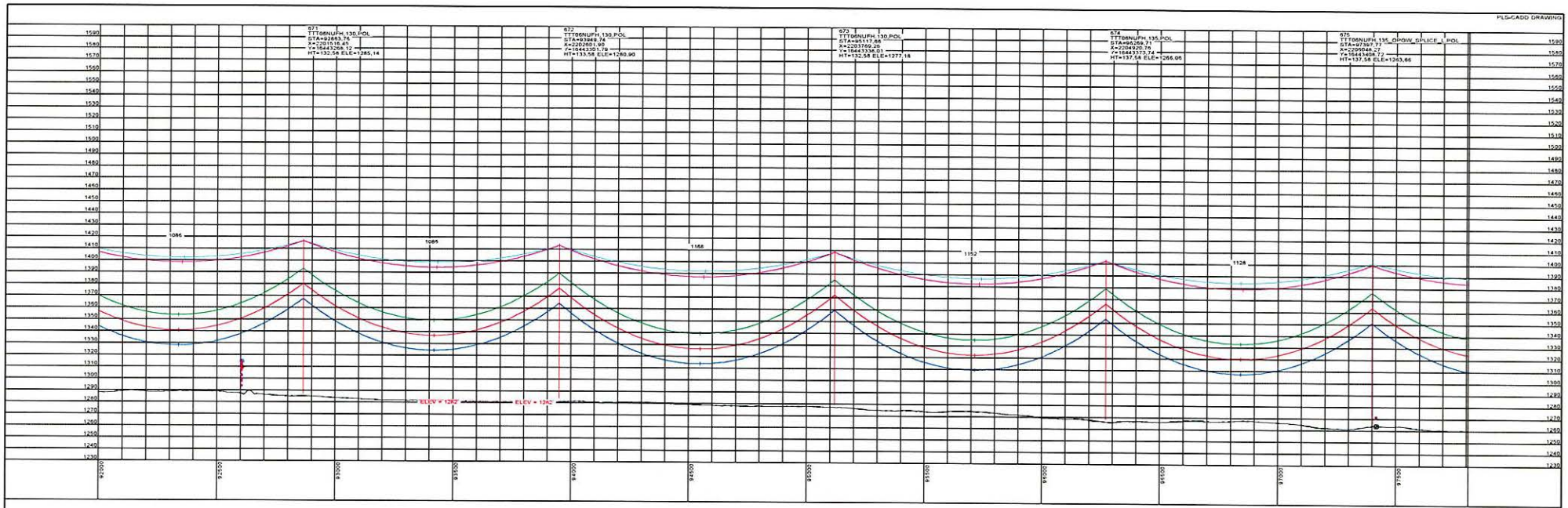
COORDINATE SYSTEM: UTM ZONE 14N, US FT

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-104-22
REVISION: 3
136508



STRS: 671 - 675

20190301
ISSUED FOR RECORD

POWER ENGINEERS

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

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

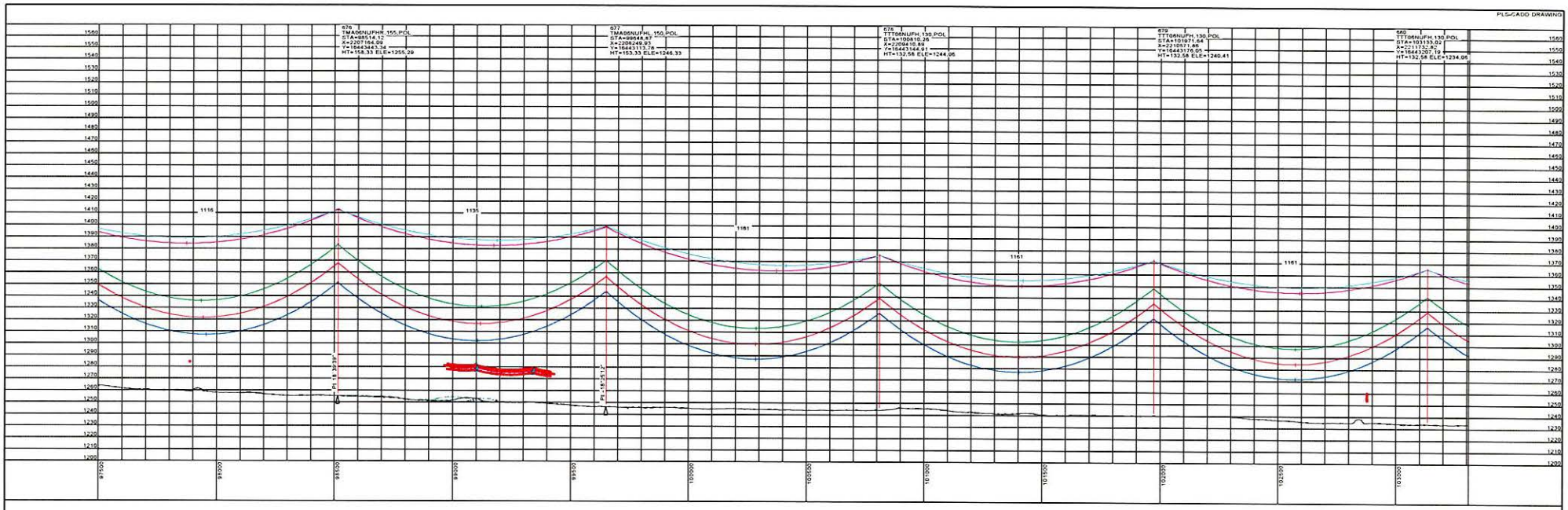
COORDINATE SYSTEM: UTM ZONE 14N, US FT

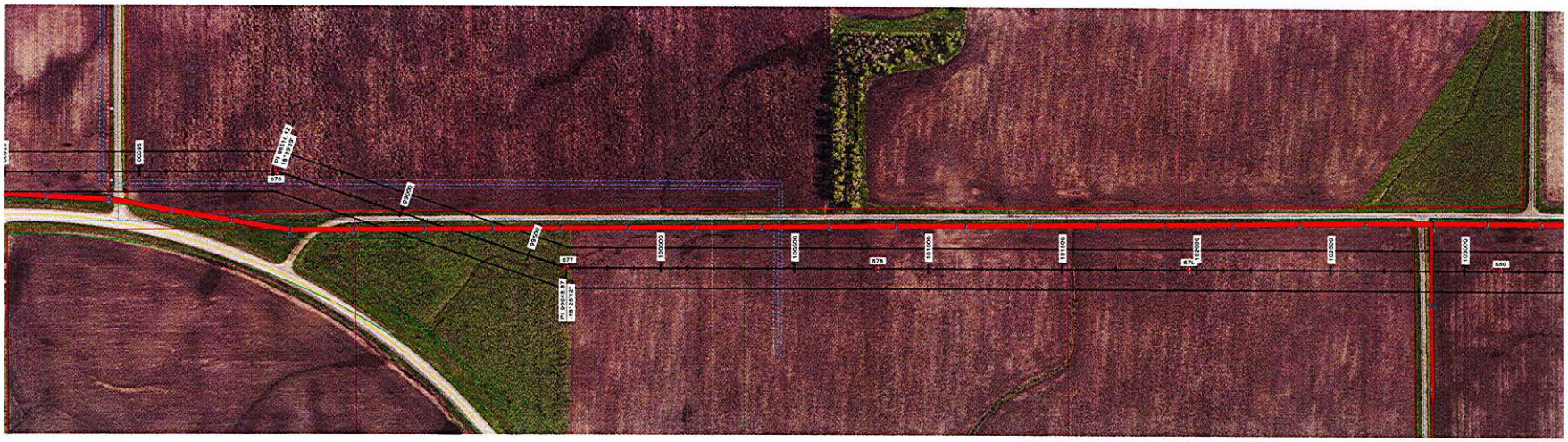
BSS+E
Big Stone South to Ellendale

BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

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

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





STRS: 676 - 680

20190301
ISSUED FOR
RECORD

POWER ENGINEERS

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

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

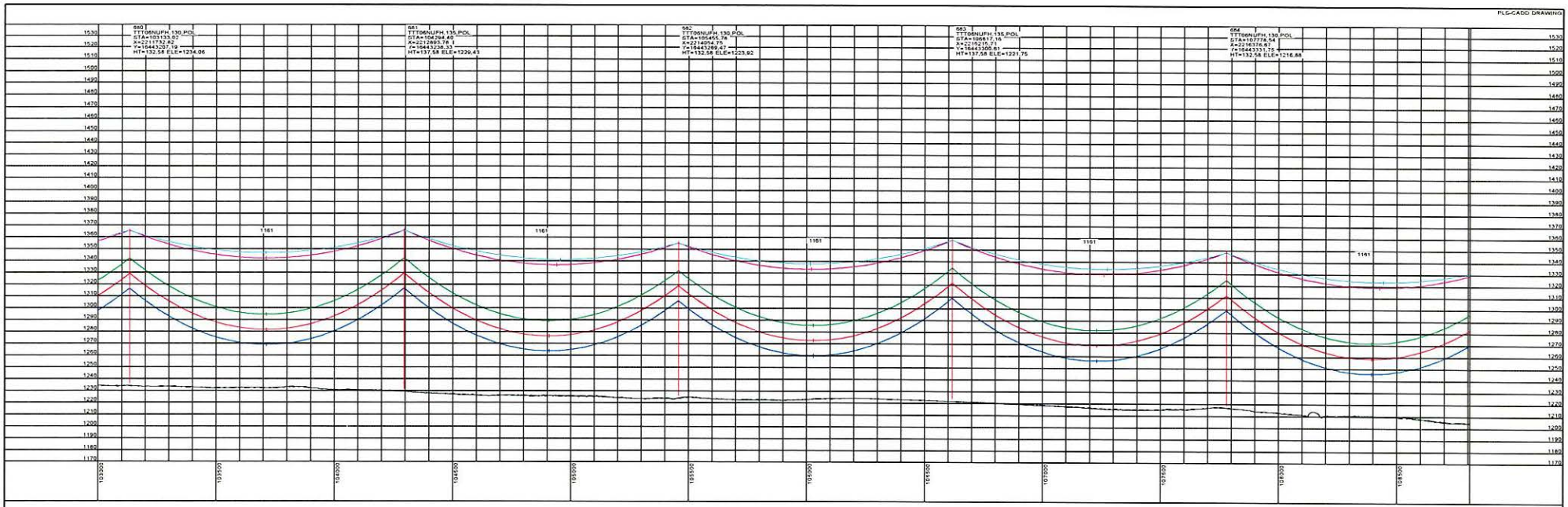
BSS+E
Big Stone South to Ellendale

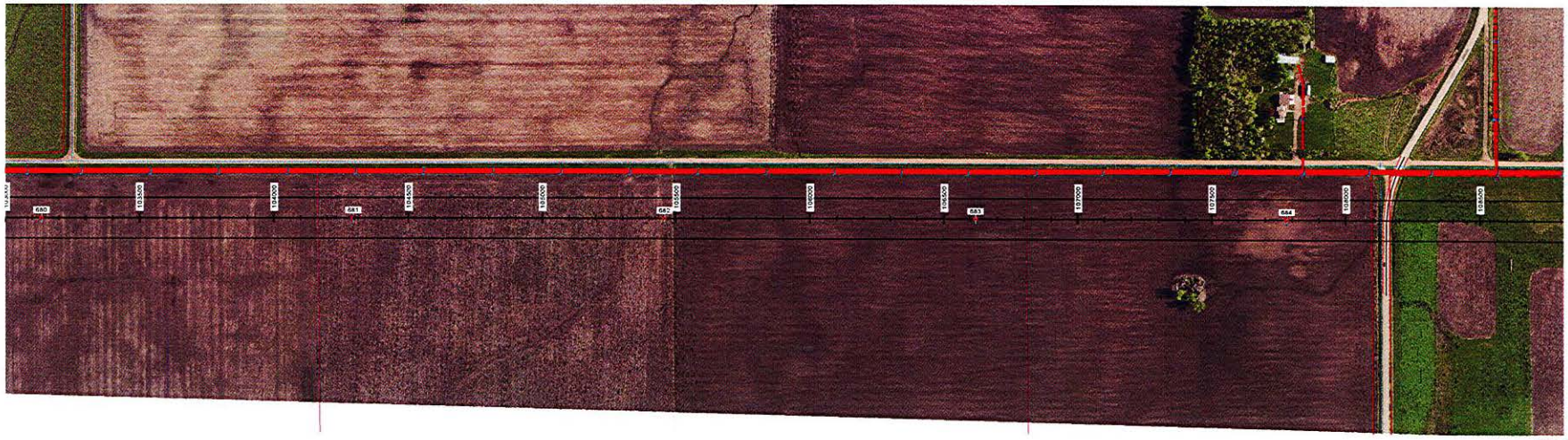
BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

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

DWG. NO.
BSSE-PP-104-24
REVISION: 3
136508

PLS-CADD DRAWING





STRS: 680 - 684

20190301
ISSUED FOR
RECORD

POWER ENGINEERS

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

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

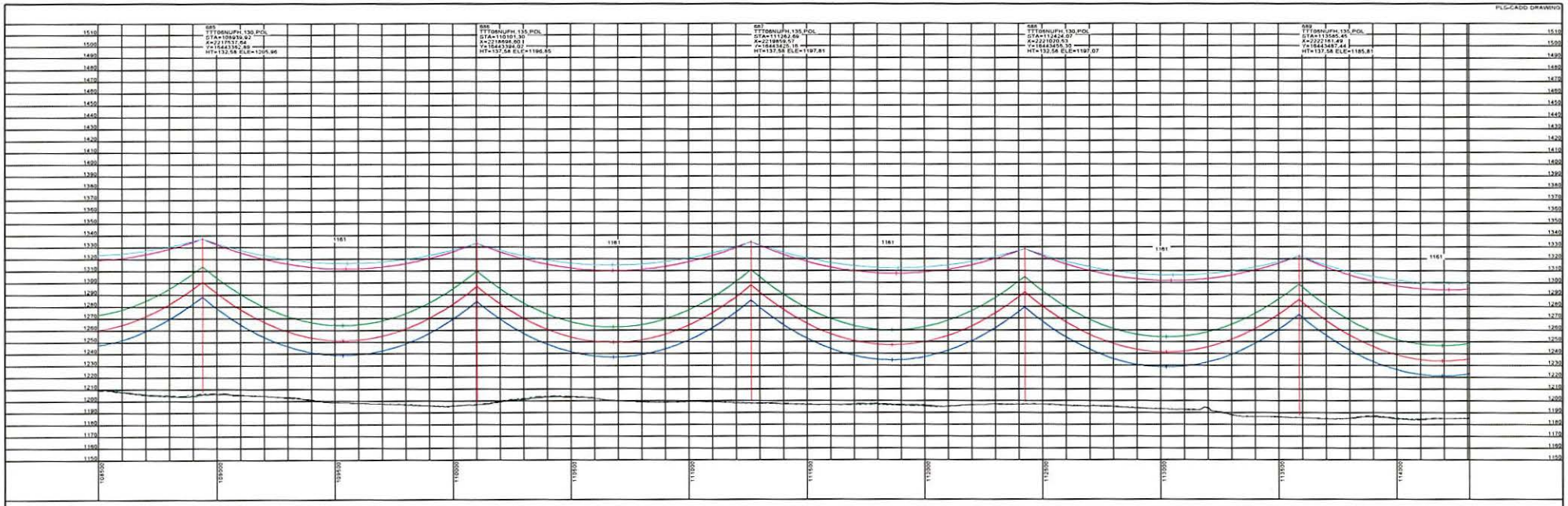
COORDINATE SYSTEM: UTM ZONE 14N, US FT

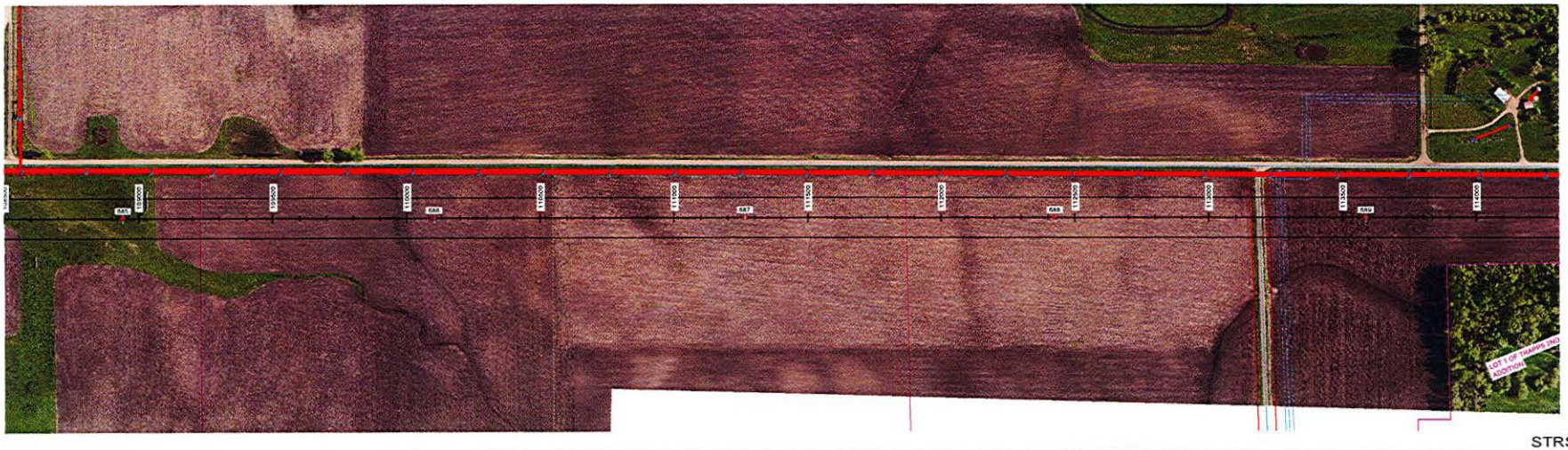
BSS+E
Big Stone South to Ellendale

BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

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

DWG. NO.
BSSE-PP-104-25
REVISION: 3
136508





STRS: 685 - 689

20190301
ISSUED FOR RECORD

POWER ENGINEERS

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

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

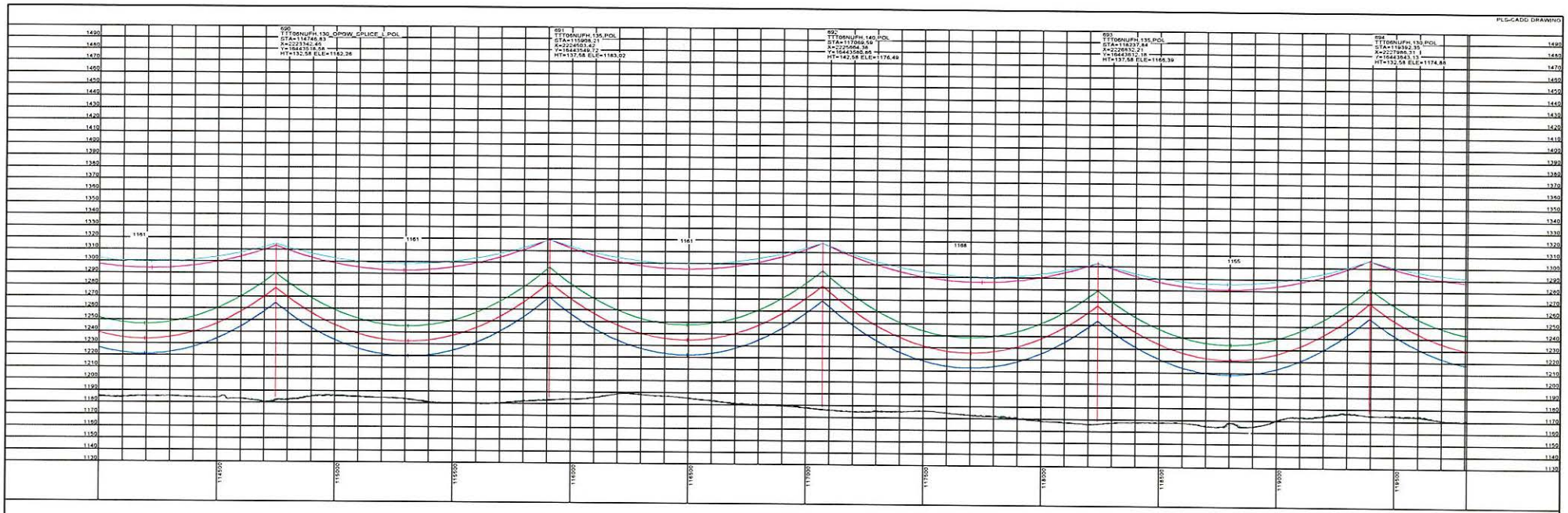
COORDINATE SYSTEM: UTM ZONE 14N, US FT

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-104-26
REVISION: 3
136508



STRS: 690 - 694

20190301
ISSUED FOR RECORD

POWER ENGINEERS

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

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

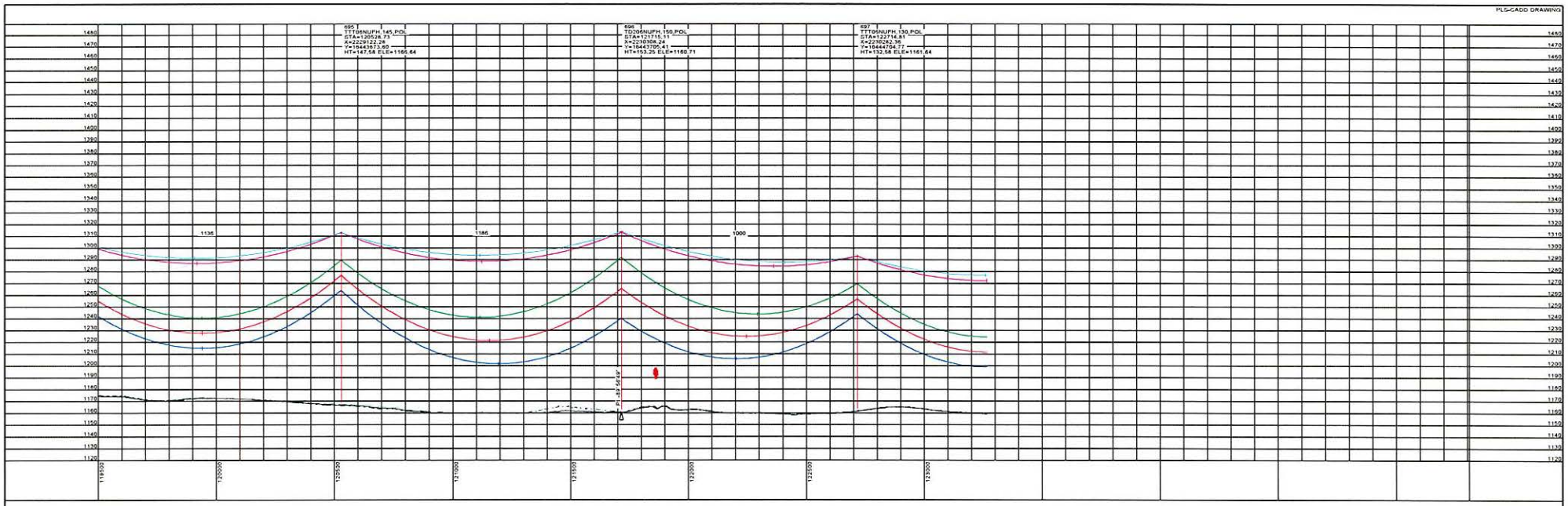
BSS+E
Big Stone South to Ellendale

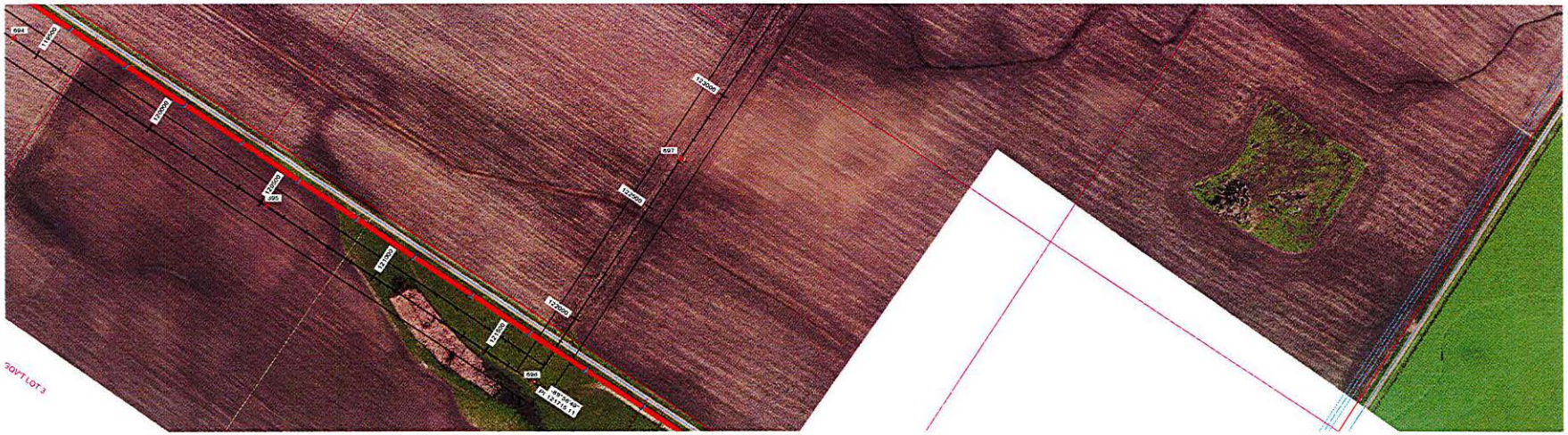
BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

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

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

PLS-CADD DRAWING





STRS: 695 - 697

20190301
ISSUED FOR RECORD

POWER ENGINEERS

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

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

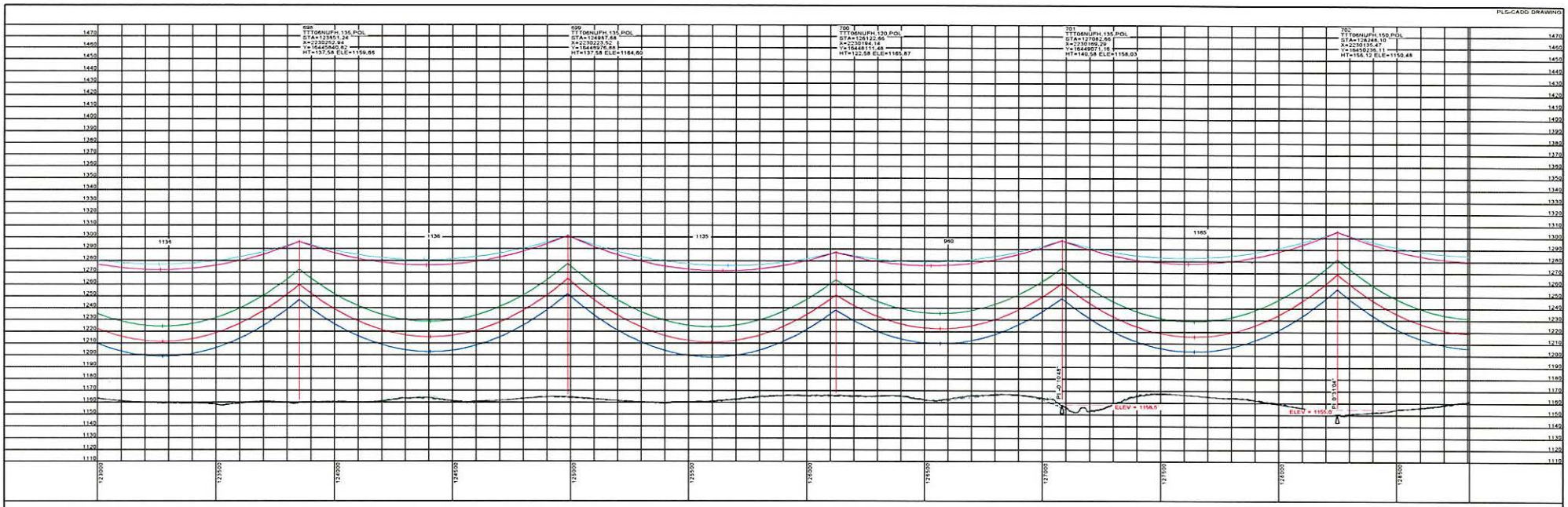
COORDINATE SYSTEM: UTM ZONE 14N, US FT

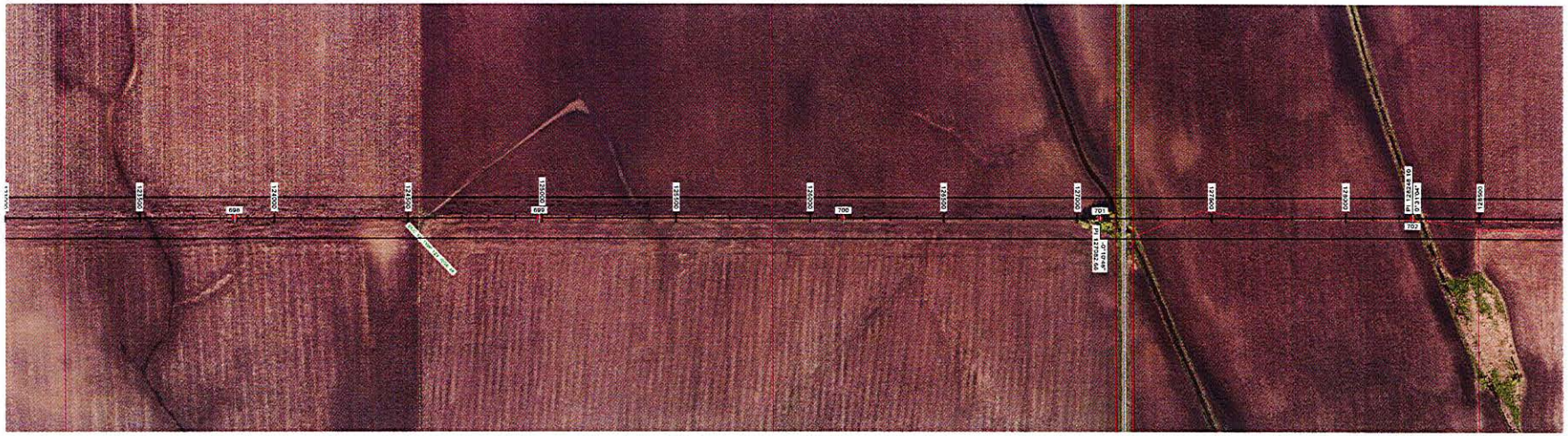
BSS+E
Big Stone South to Ellendale

BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

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

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





STRS: 698 - 702

20190301
ISSUED FOR
RECORD

POWER ENGINEERS

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

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

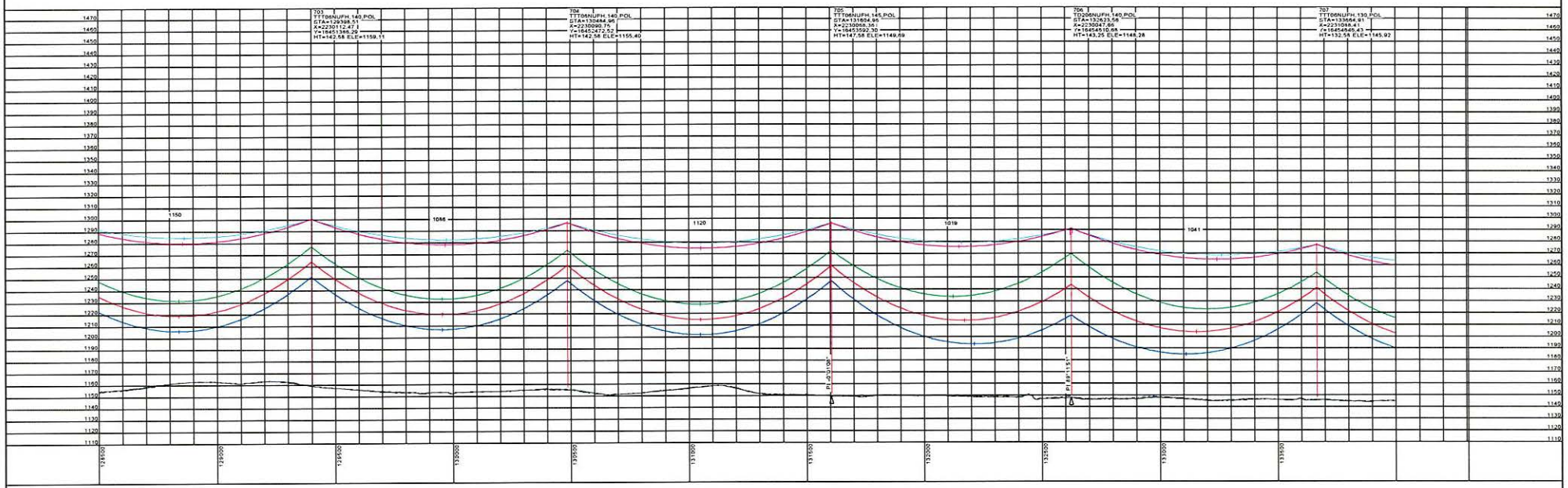
BSS+E
Big Stone South to Ellendale

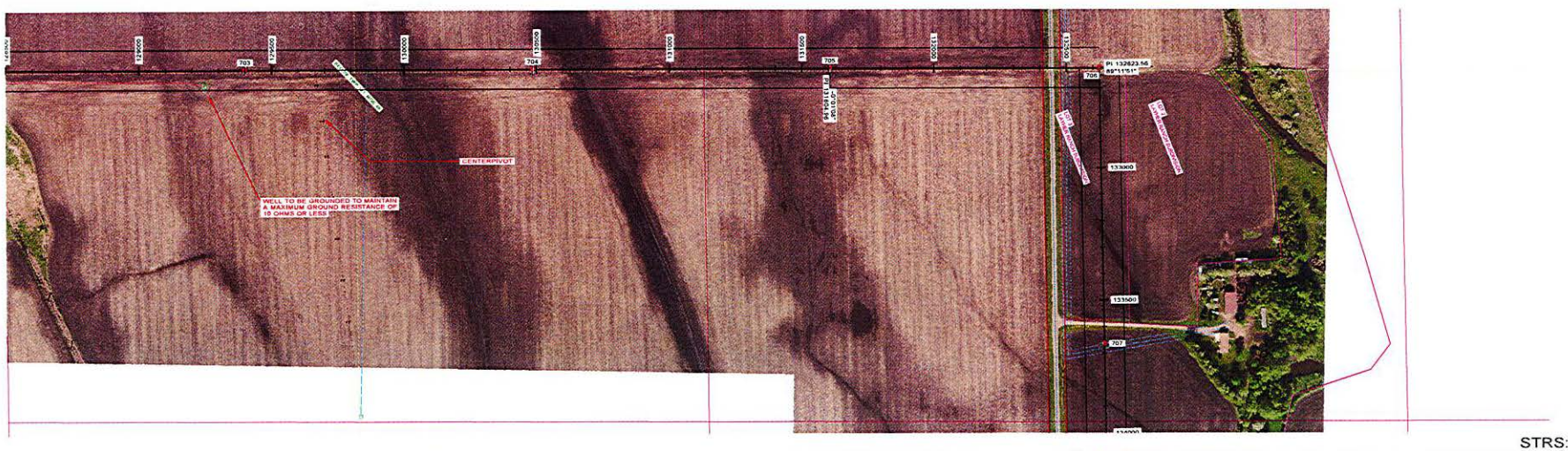
BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

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

DWG. NO.
BSSE-PP-104-29
REVISION: 3
136508

PLS-CADD DRAWING





STRS: 703 - 707

20190301
ISSUED FOR RECORD

POWER ENGINEERS

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

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

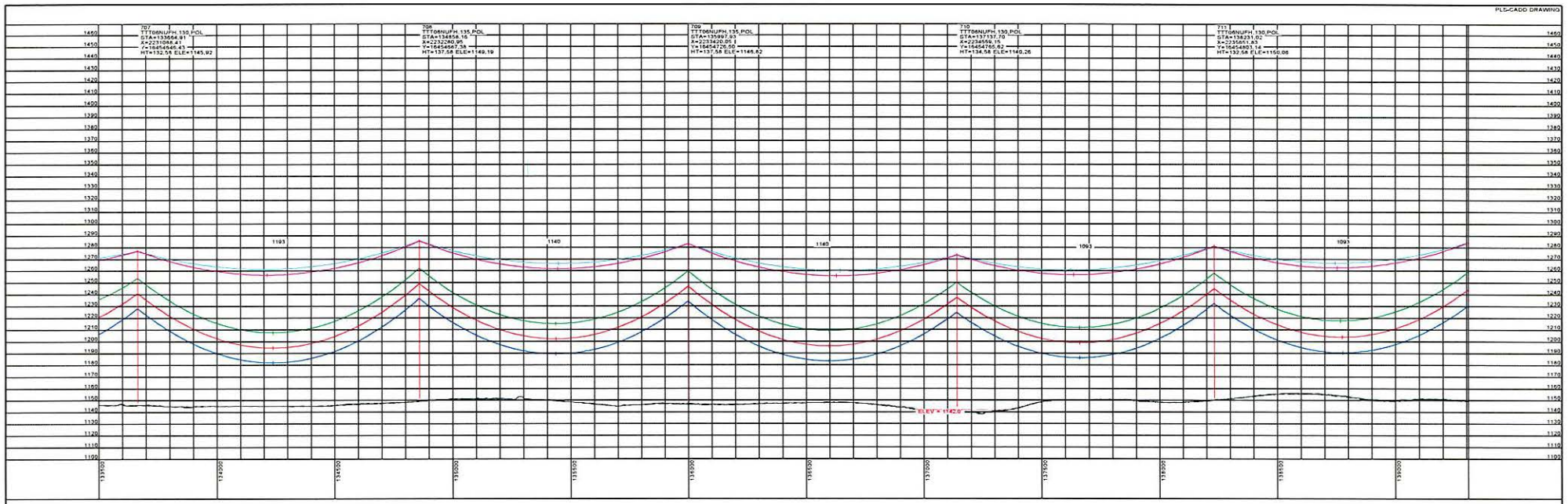
COORDINATE SYSTEM: UTM ZONE 14N, US FT

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-104-30
REVISION: 3
136508



STRS: 707 - 711

20190301
ISSUED FOR RECORD

POWER ENGINEERS

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

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

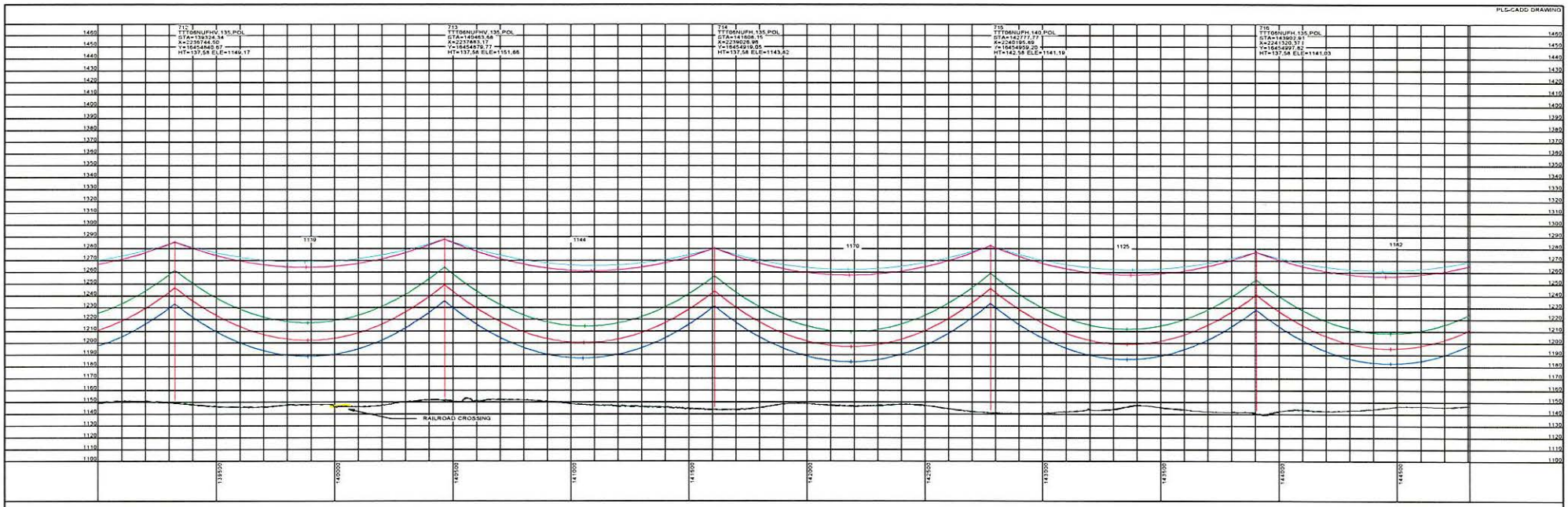
BSS+E
Big Stone South to Ellendale

BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

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

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

PLS-CADD DRAWING



STRS: 712 - 716

20190301
ISSUED FOR RECORD

POWER ENGINEERS

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

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

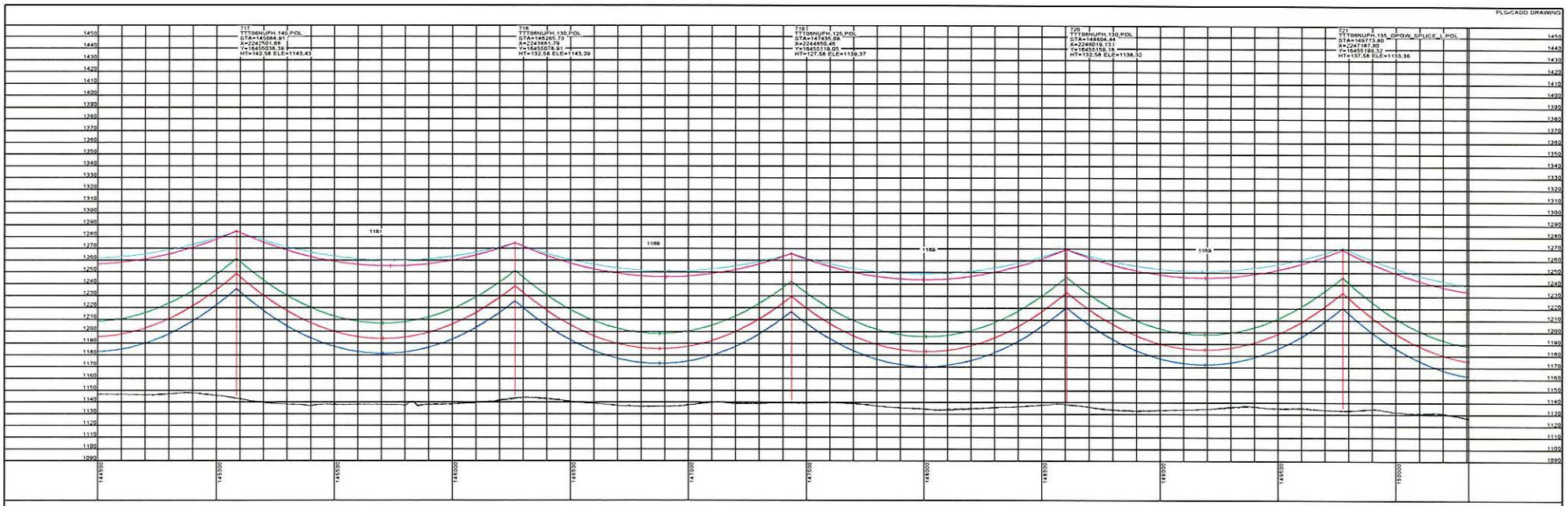
COORDINATE SYSTEM: UTM ZONE 14N, US FT

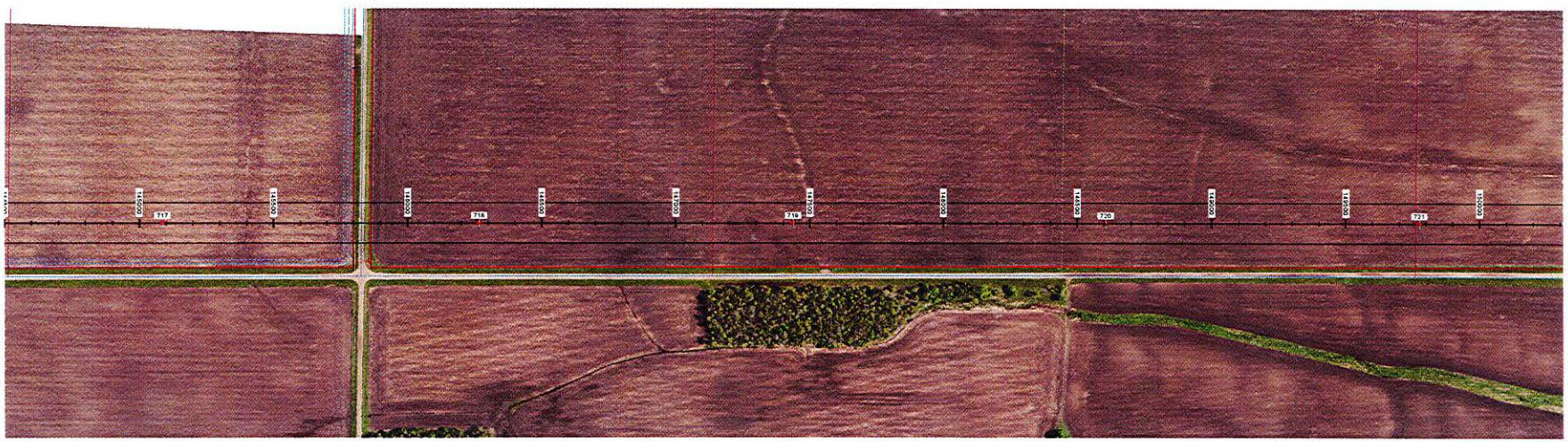
BSS+E
Big Stone South to Ellendale

BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

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

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





STRS: 717 - 721

20190301
ISSUED FOR RECORD

POWER ENGINEERS

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

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

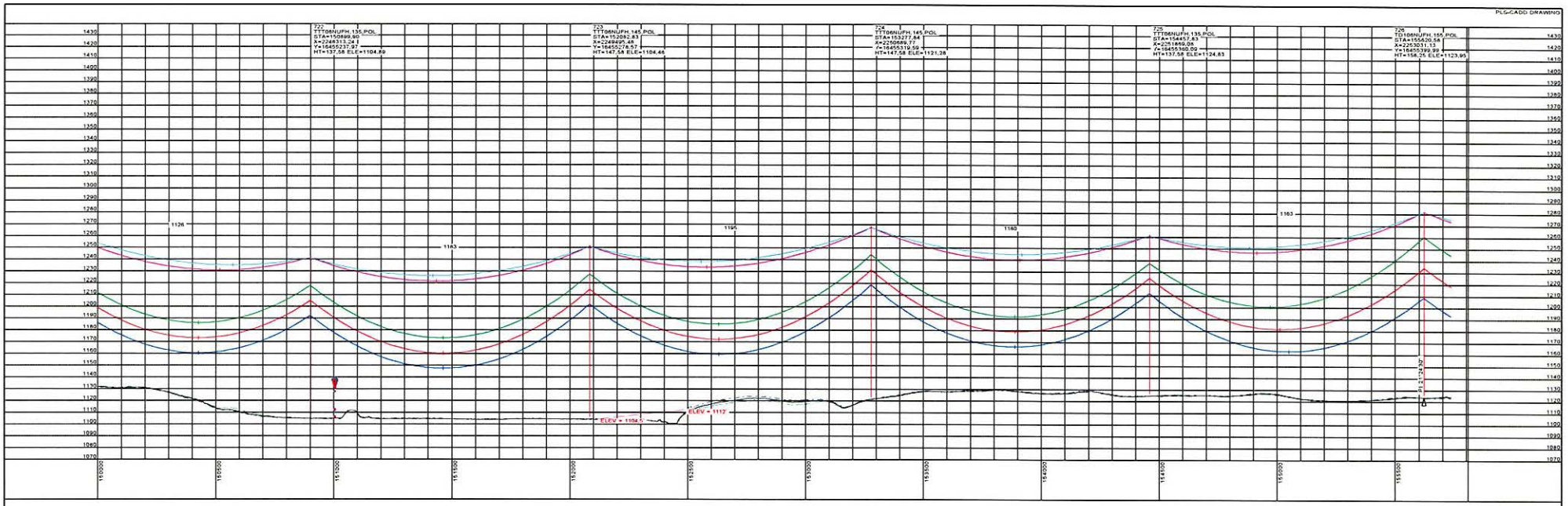
COORDINATE SYSTEM: UTM ZONE 14N, US FT

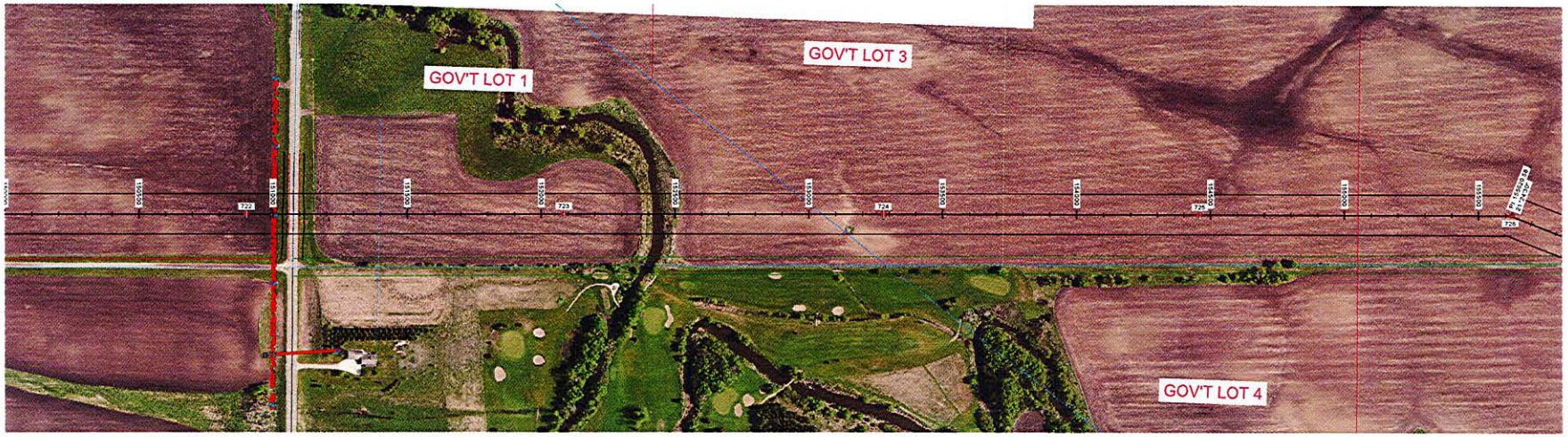
BSS+E
Big Stone South to Ellendale

BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

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

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





STRS: 722 - 726

20190301
ISSUED FOR RECORD

POWER ENGINEERS

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

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

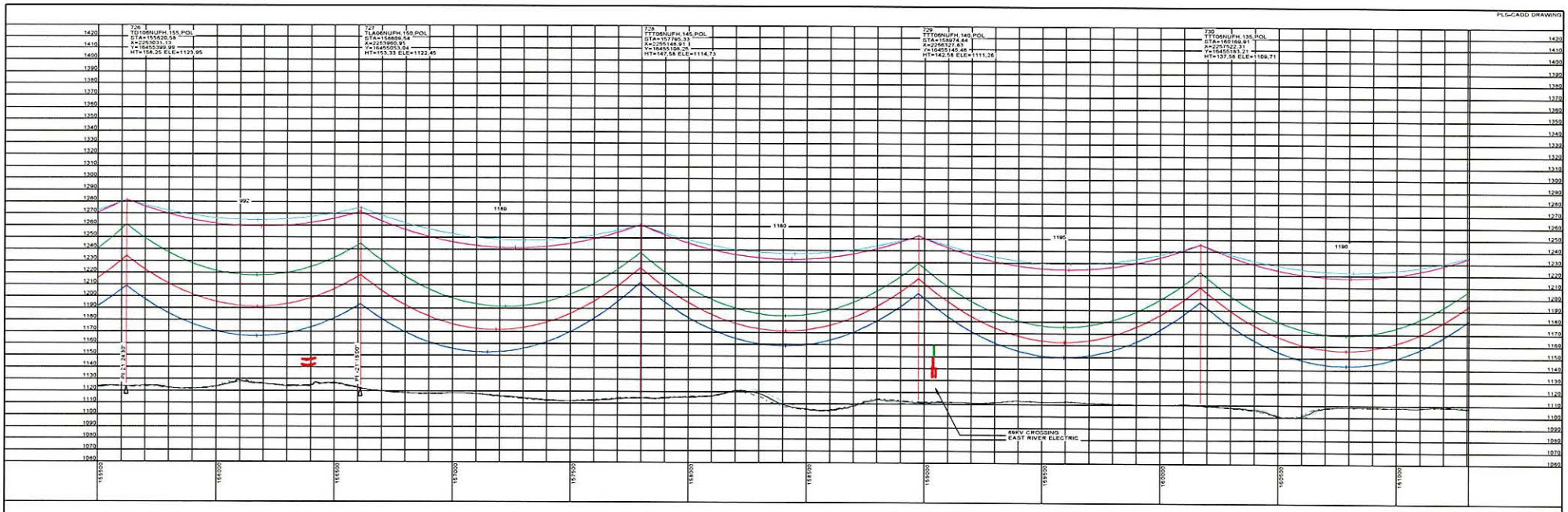
COORDINATE SYSTEM: UTM ZONE 14N, US FT

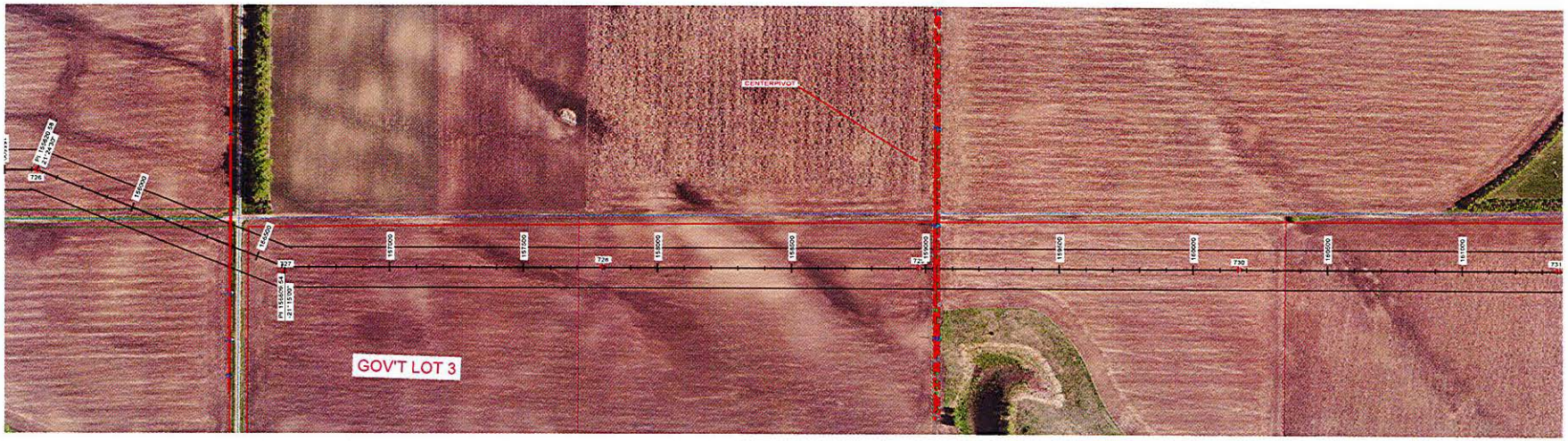
BSS+E
Big Stone South to Ellendale

BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

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

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





STRS: 726 - 730

20190301
ISSUED FOR RECORD

POWER ENGINEERS

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

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

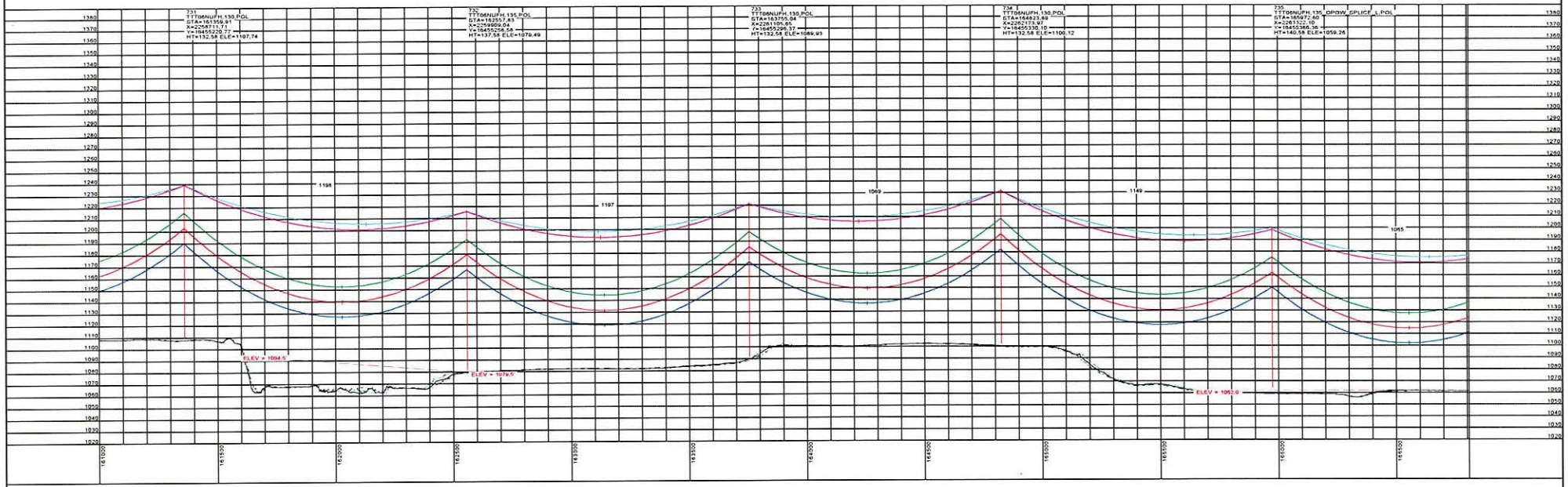
BSS+E
Big Stone South to Ellendale

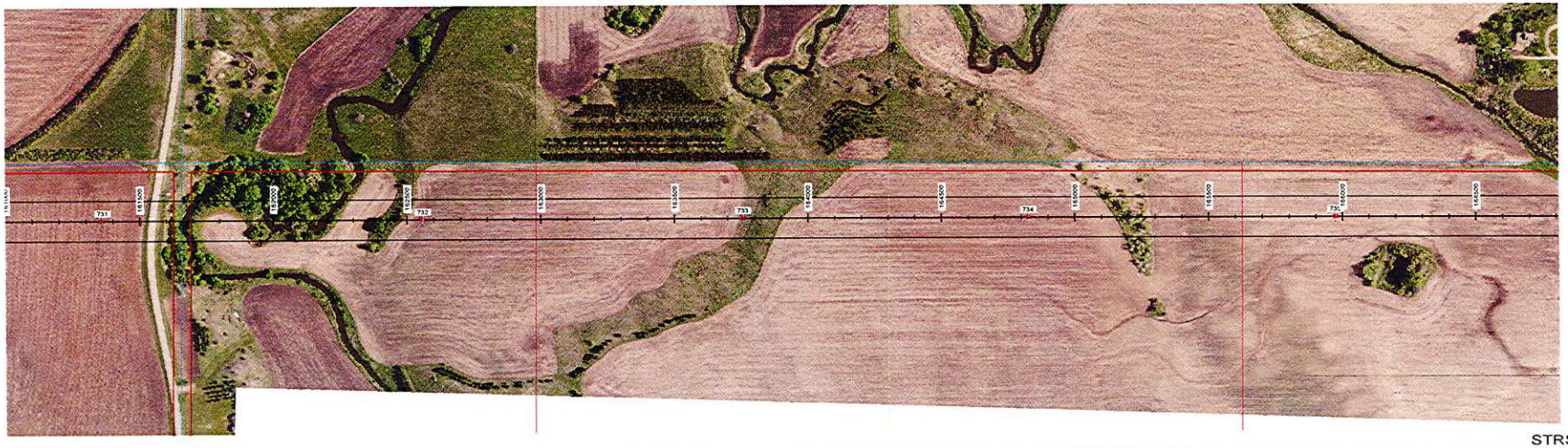
BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

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

DWG. NO.
BSSE-PP-104-35
REVISION: 3
136508

PLS-CADD DRAWING





STRS: 731 - 735

20190301
ISSUED FOR
RECORD

POWER ENGINEERS

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

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

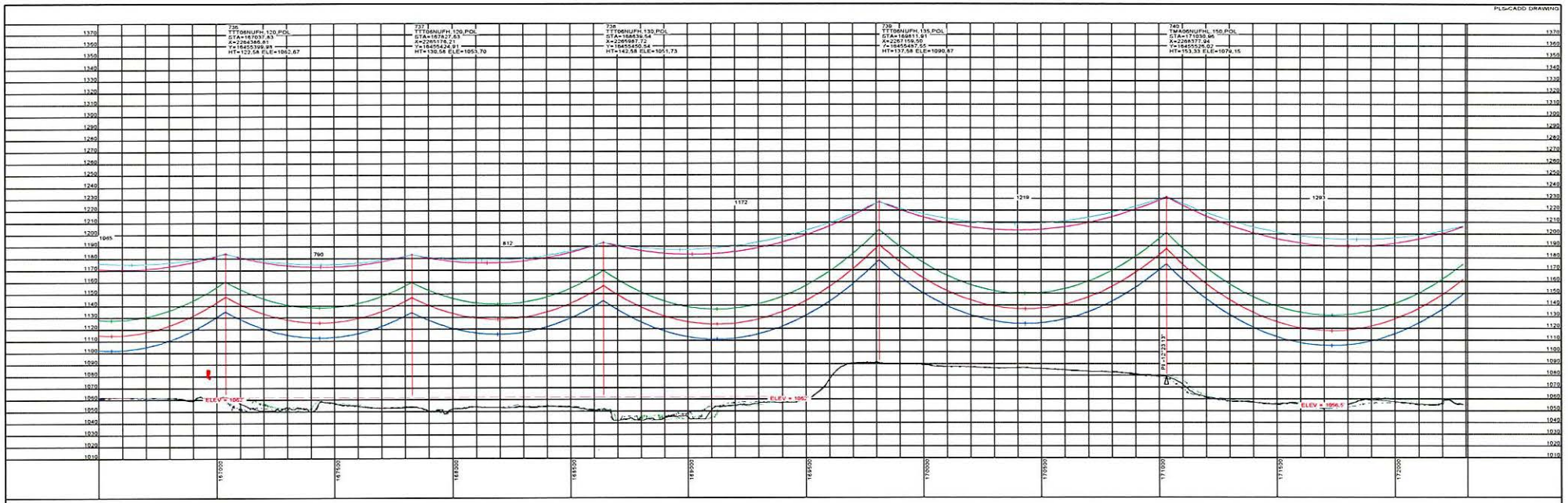
COORDINATE SYSTEM: UTM ZONE 14N, US FT

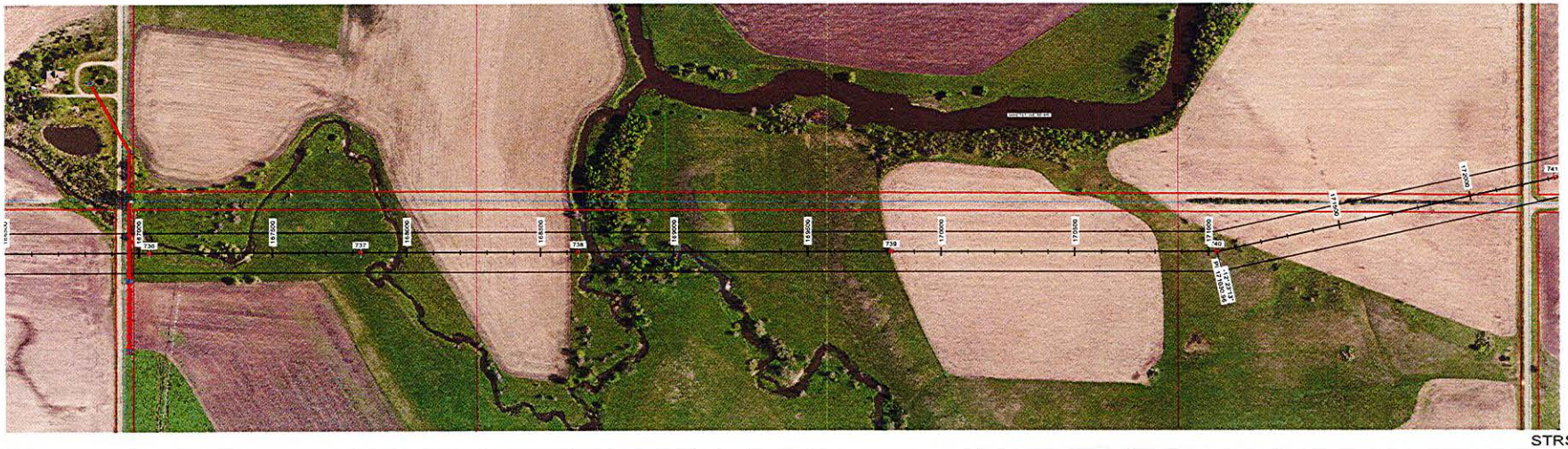
BSS+E
Big Stone South to Ellendale

BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

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

DWG. NO.
BSSE-PP-104-36
REVISION: 3
136508





STRS: 736 - 740

20190301
ISSUED FOR
RECORD

POWER ENGINEERS

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

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

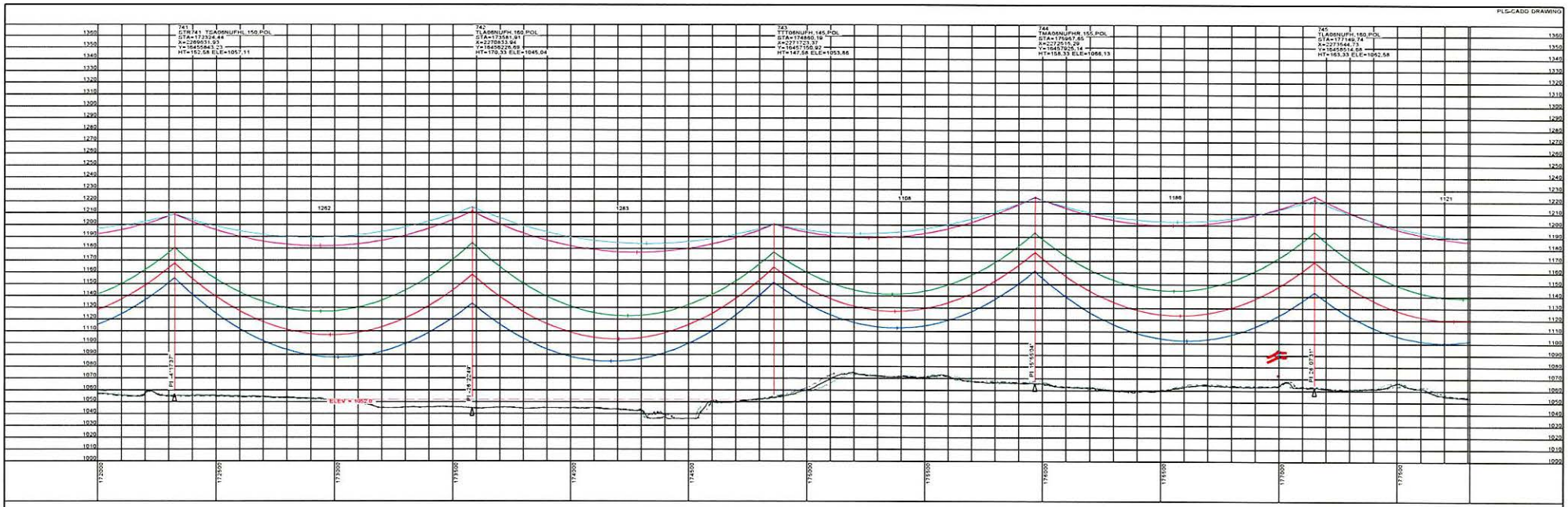
COORDINATE SYSTEM: UTM ZONE 14N, US FT

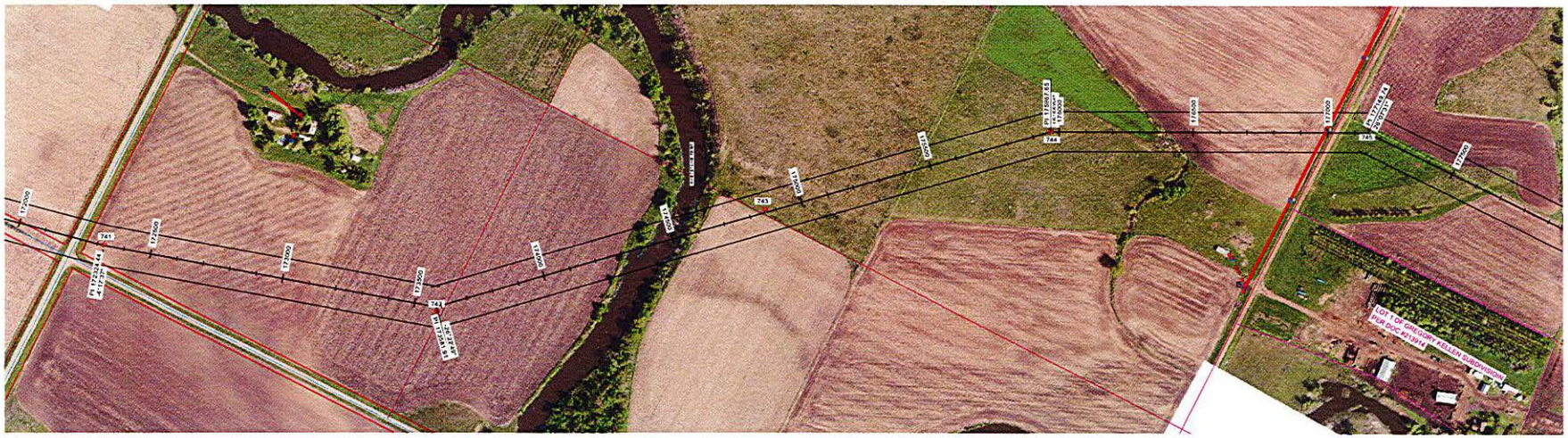
BSS+E
Big Stone South to Ellendale

BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

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

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





STRS: 741 - 745

20190301
ISSUED FOR
RECORD

POWER ENGINEERS

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

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

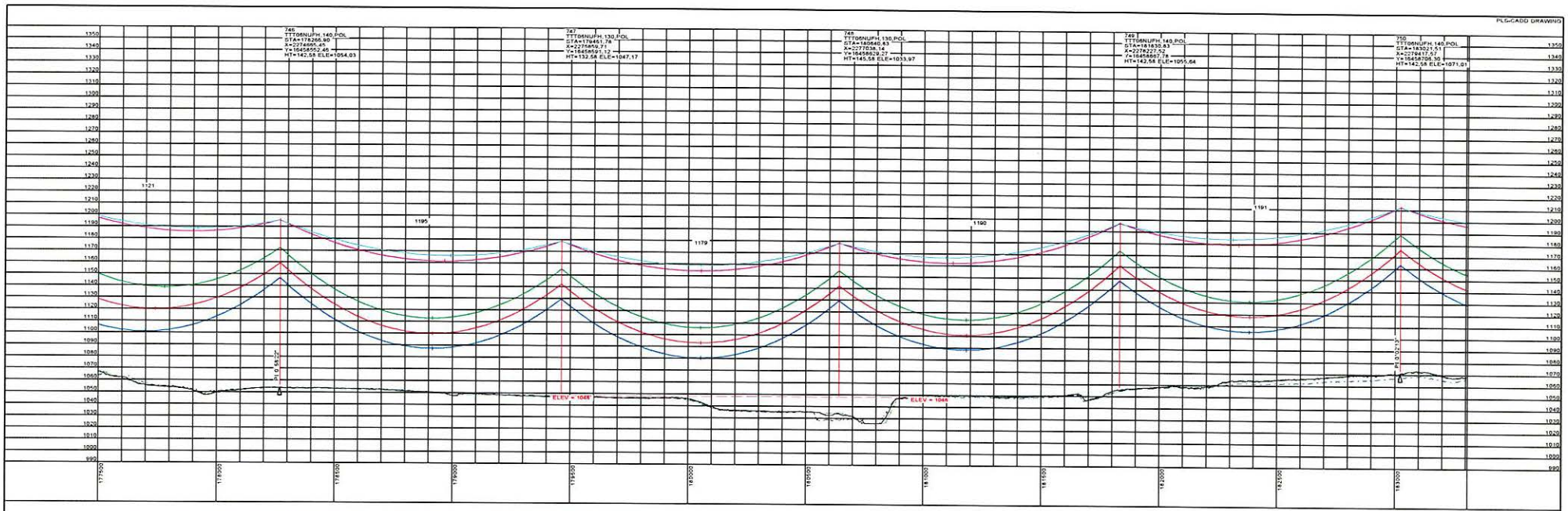
COORDINATE SYSTEM: UTM ZONE 14N, US FT

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-104-38
REVISION: 3
136508



STRS: 746 - 750

20190301
ISSUED FOR
RECORD

POWER ENGINEERS

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

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

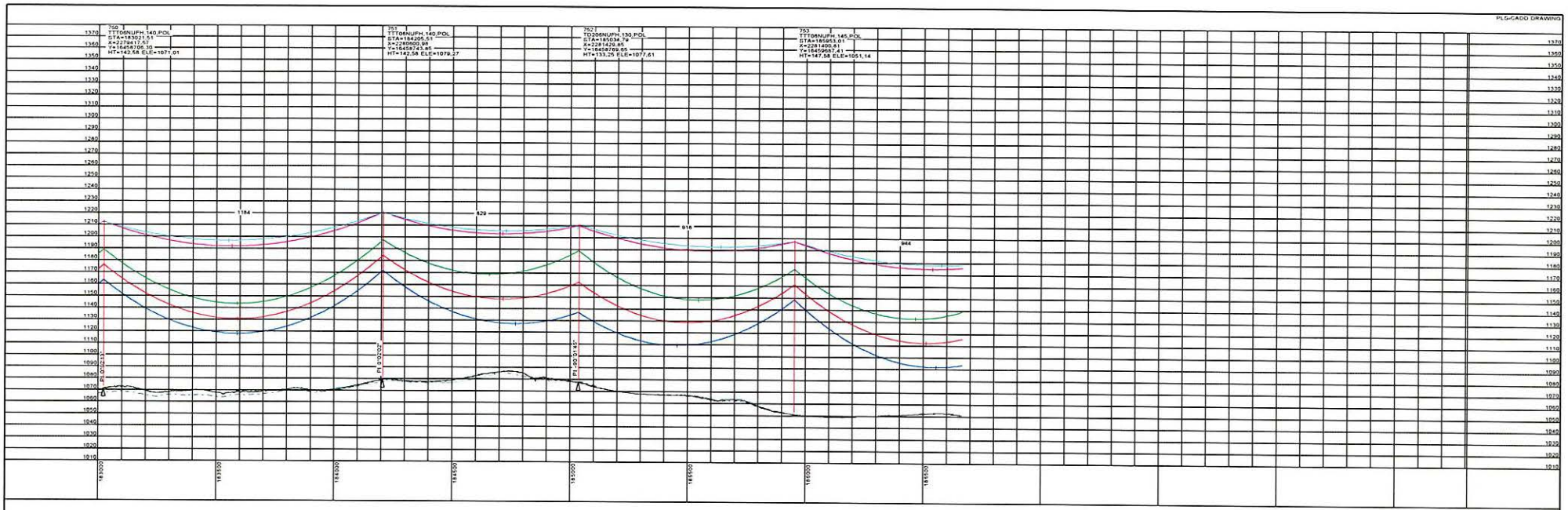
COORDINATE SYSTEM: UTM ZONE 14N, US FT

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-104-39
REVISION: 3
136508



STRS: 750 - 753

20190301
ISSUED FOR RECORD

POWER ENGINEERS

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

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

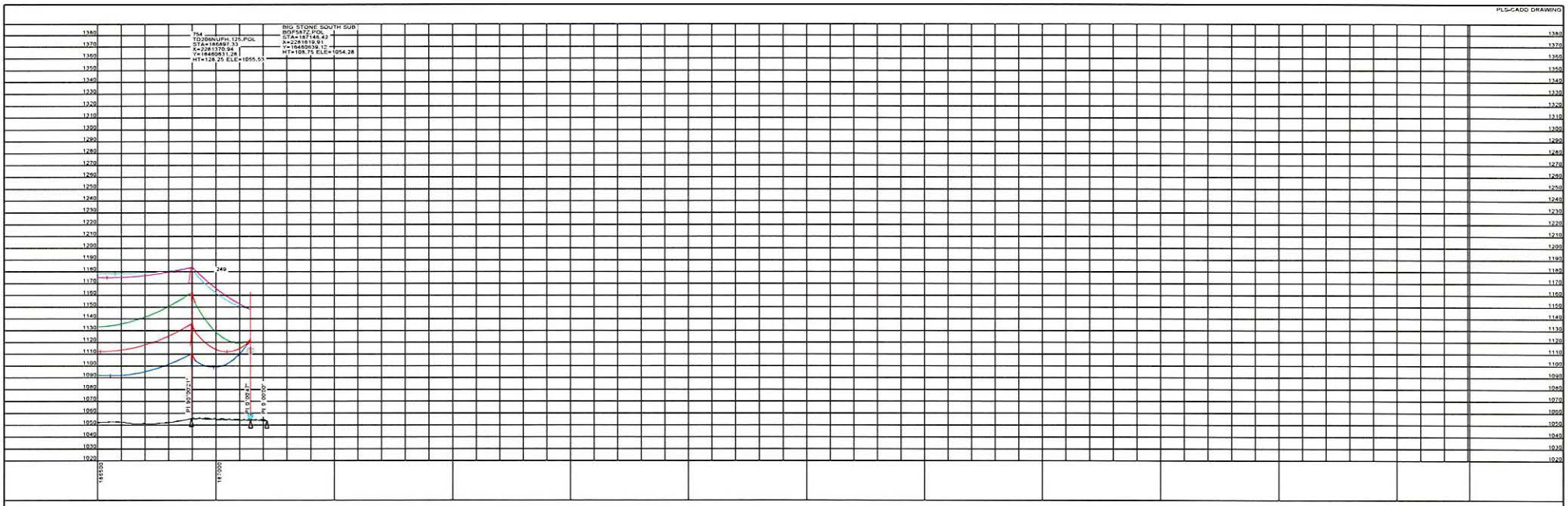
BSS+E
Big Stone South to Ellendale

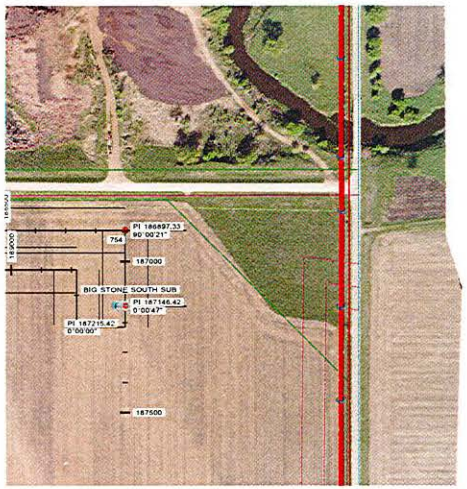
BIG STONE SOUTH - ELLENDALE
345 KV TRANSMISSION LINE

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

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

PLS-CADD DRAWING





STRS: 754 - BIG STONE SOUTH SUB

20190301
ISSUED FOR
RECORD

POWER ENGINEERS

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

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

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