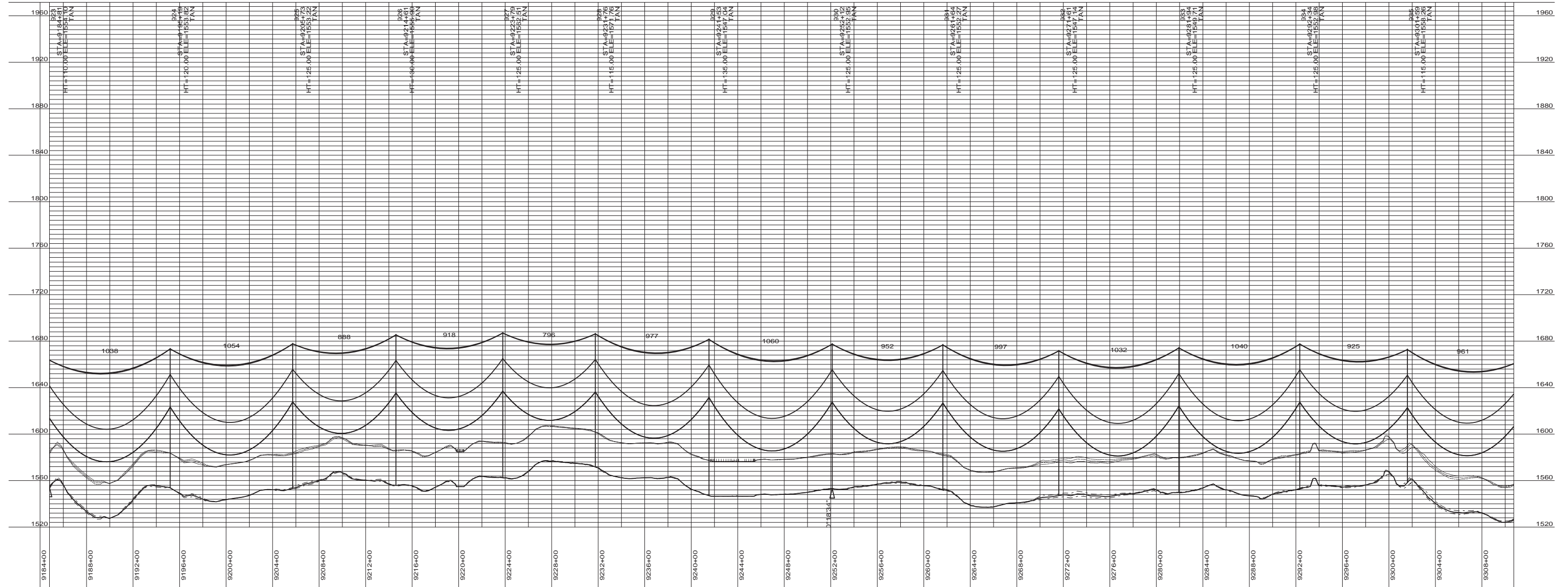
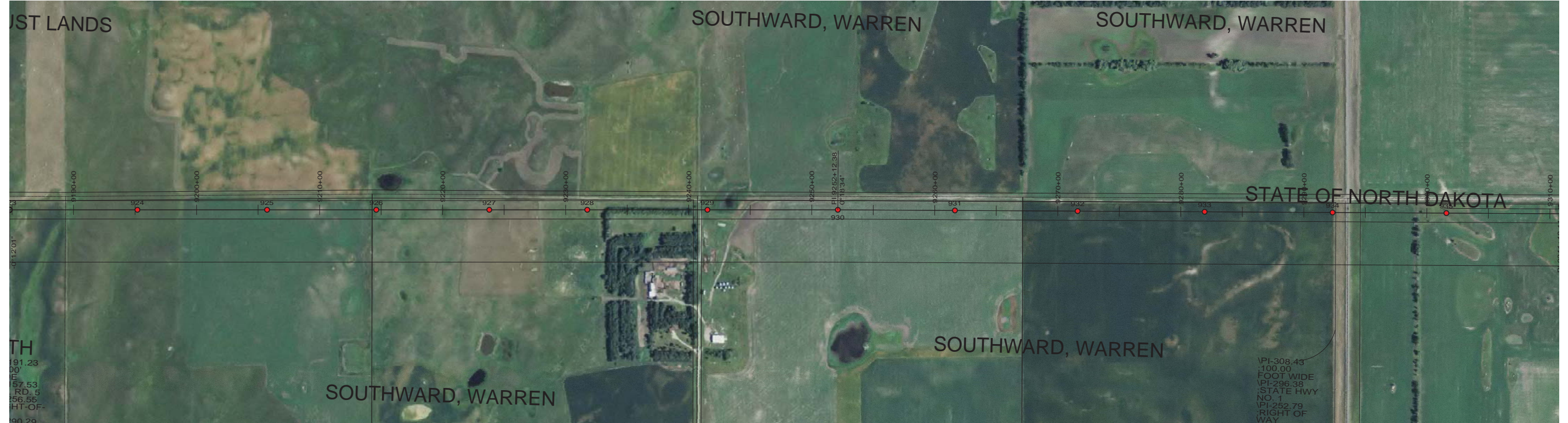


Preliminary Plan and Profile

File 3, Pages 85 to 124

PRELIMINARY




DESIGN CONDITIONS:		CONDUCTOR _____	
SHIELD _____		20% RTS @ -20 DEGREES F, INITIAL	
20% RTS @ -20 DEGREES F, INITIAL		CLEARANCE LINE: XX'	
REV	DATE	APP	DFTR


Stanley Consultants INC.
 8000 S. CHESTER STREET
 SUITE 500
 CENTENNIAL, CO 80112
 A STANLEY GROUP COMPANY
 ENGINEERING, ENVIRONMENTAL AND
 CONSTRUCTION SERVICES - WORLDWIDE

DESIGNED	XXXXX
DRAWN	XXXXX
CHECKED	XXXXX
APPROVED	XXXXX
DATE	11/14/2011

Center to Grand Forks Project

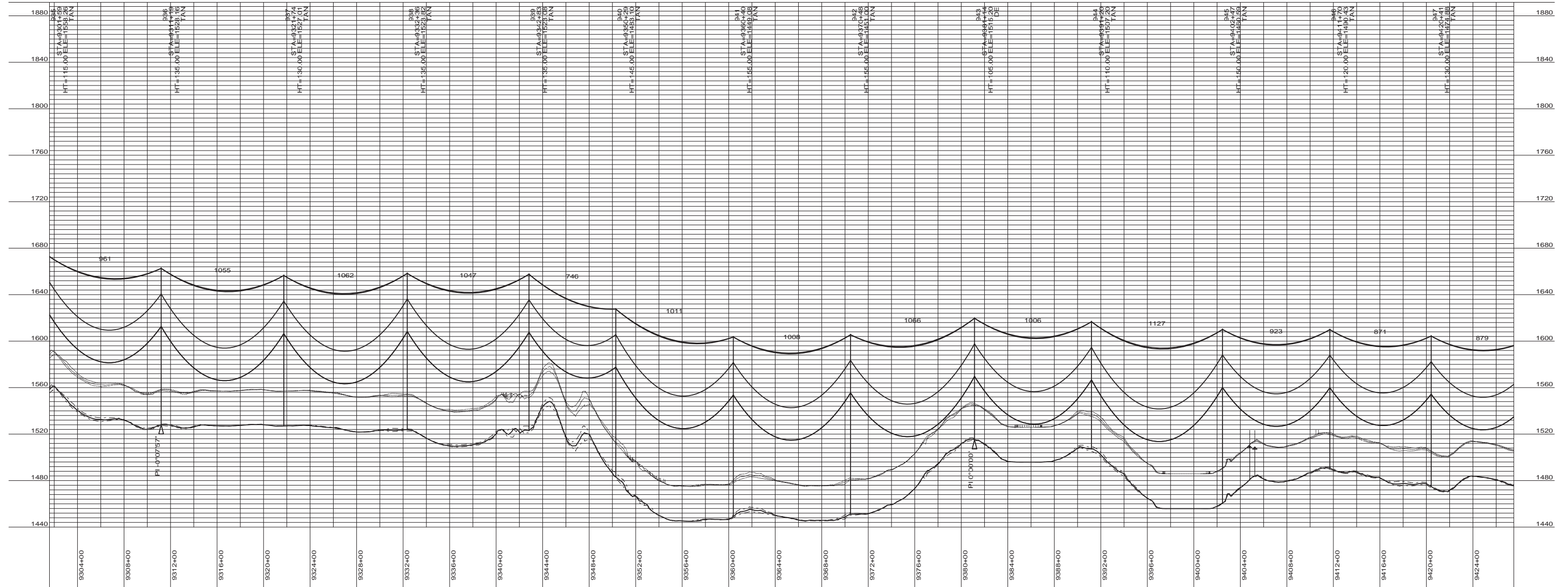
 MINNKOTA POWER COOPERATIVE, INC.

GRIGGS COUNTY
 400.0 FT. HORIZ. SCALE
 40.0 FT. VERT. SCALE

 55-PP-GR000-005

PRELIMINARY



PI-152.48
90' WIDE
PI-152.99
TWP. RD.
PI-256.64
RIGHT-OF-WAY
PI-302.79
PER
DOC.#
57784
VPI-292.79
BOOK 14
PG. 230



DESIGN CONDITIONS:
SHIELD _____
20% RTS @ -20 DEGREES F, INITIAL CLEARANCE LINE: XX'
CONDUCTOR _____
20% RTS @ -20 DEGREES F, INITIAL

REV	DATE	APP	DESCRIPTION	DFTR

8000 S. CHESTER STREET
SUITE 500
CENTENNIAL, CO 80112

A STANLEY GROUP COMPANY
ENGINEERING, ENVIRONMENTAL AND
CONSTRUCTION SERVICES - WORLDWIDE

DESIGNED	XXXXX
DRAWN	XXXXX
CHECKED	XXXXX
APPROVED	XXXXX
DATE	11/14/2011

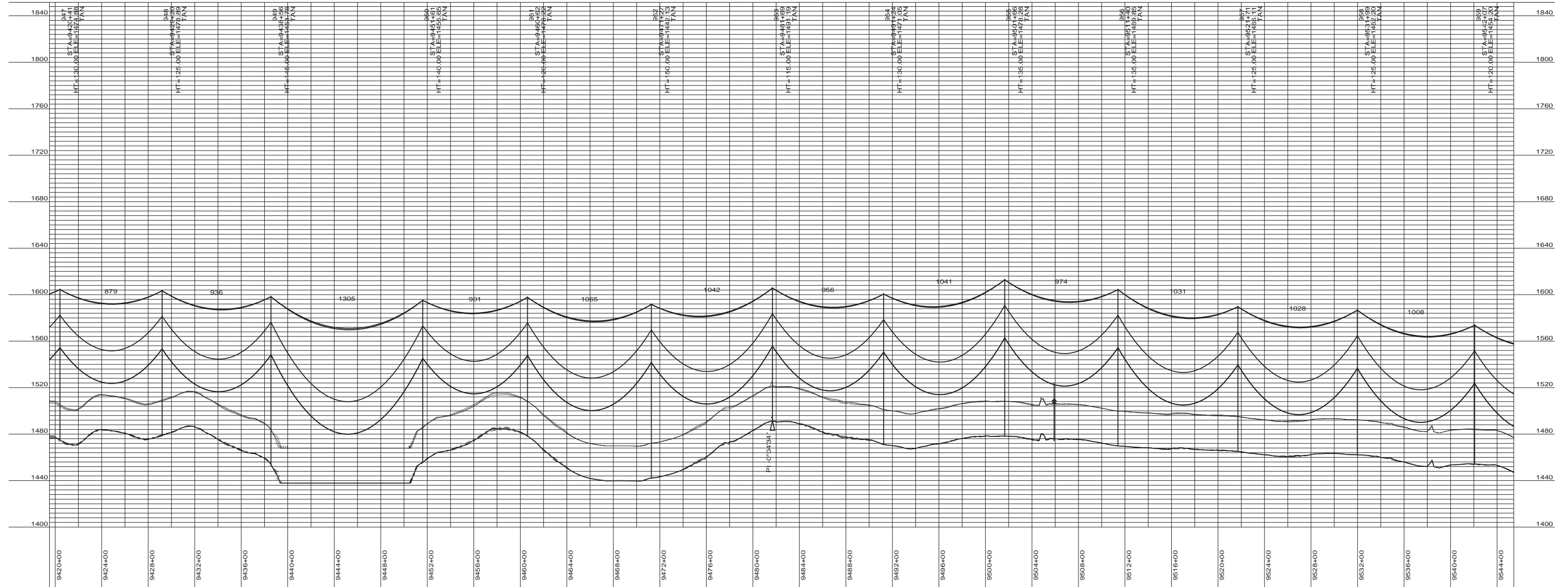
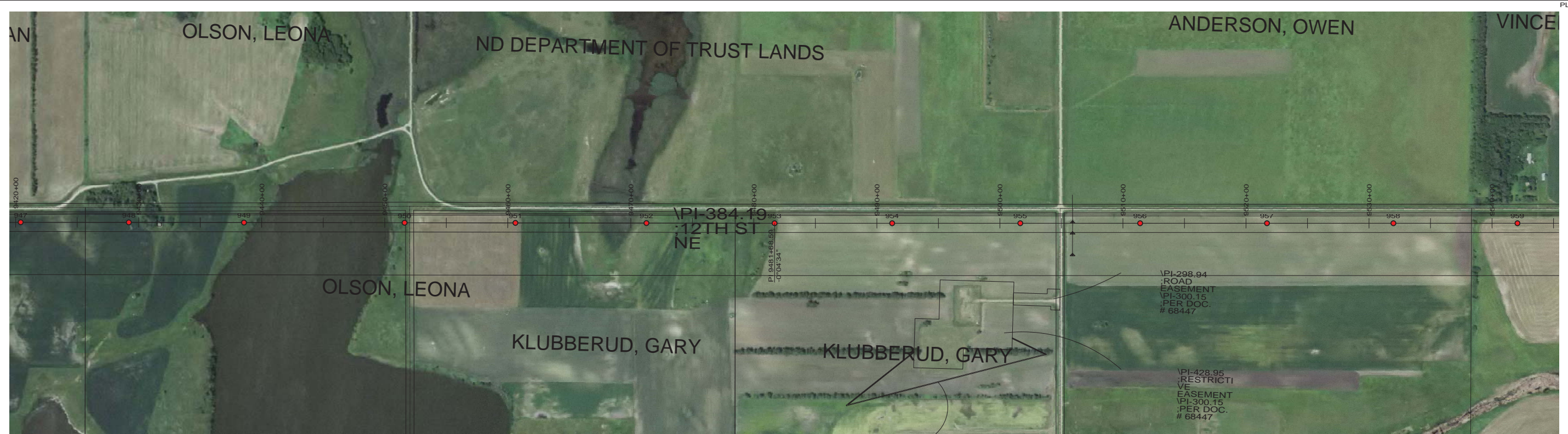
Center to Grand Forks Project

GRIGGS COUNTY

400.0 FT. HORIZ. SCALE
40.0 FT. VERT. SCALE

55-PP-GR000-006

PRELIMINARY



DESIGN CONDITIONS:
 SHIELD _____
 20% RTS @ -20 DEGREES F, INITIAL CLEARANCE LINE: XX'

CONDUCTOR _____
 20% RTS @ -20 DEGREES F, INITIAL

REV	DATE	APP	DESCRIPTION	DFTR



8000 S. CHESTER STREET
 SUITE 500
 CENTENNIAL, CO 80112

A STANLEY GROUP COMPANY
 ENGINEERING, ENVIRONMENTAL AND
 CONSTRUCTION SERVICES - WORLDWIDE


DESIGNED	XXXXX
DRAWN	XXXXX
CHECKED	XXXXX
APPROVED	XXXXX
DATE	11/14/2011

Center to Grand Forks Project



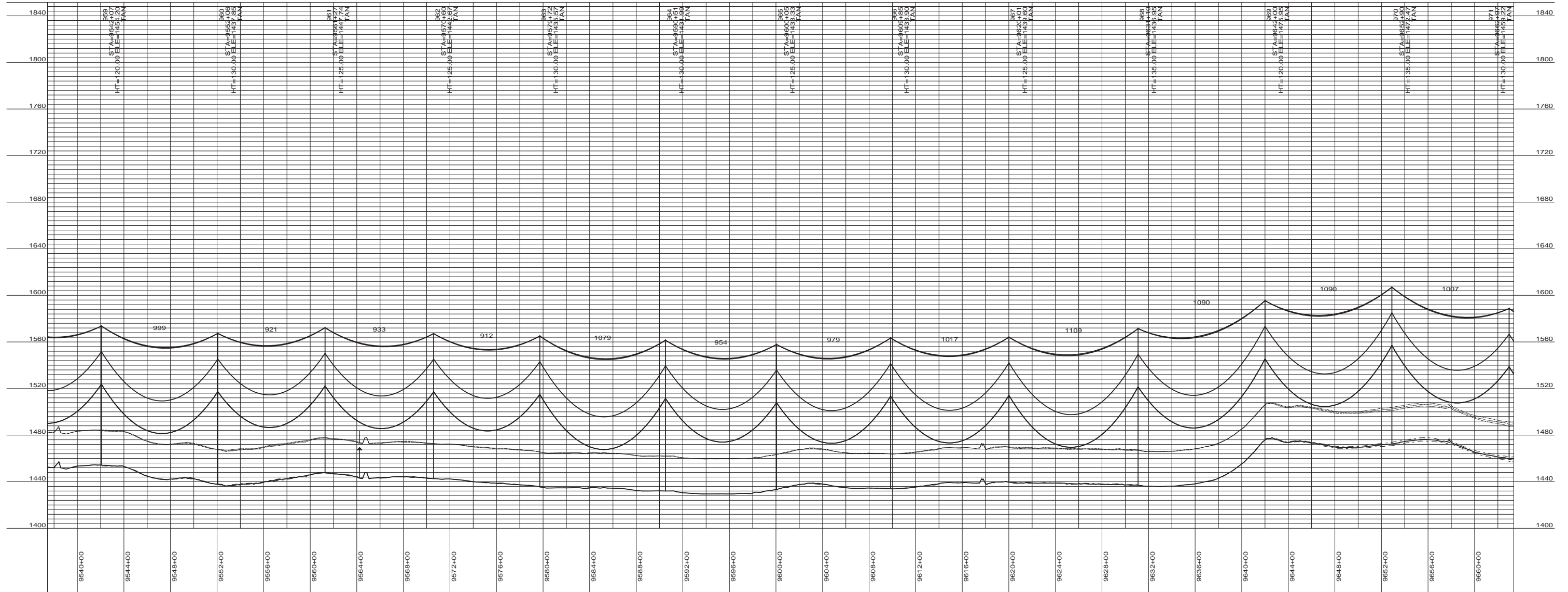
GRIGGS COUNTY

400.0 FT. HORIZ. SCALE
 40.0 FT. VERT. SCALE



55-PP-GR000-007

PRELIMINARY



DESIGN CONDITIONS:
 SHIELD _____
 20% RTS @ -20 DEGREES F, INITIAL CLEARANCE LINE: XX'

CONDUCTOR _____
 20% RTS @ -20 DEGREES F, INITIAL

REV	DATE	APP	DESCRIPTION	DFTR

8000 S. CHESTER STREET
 SUITE 500
 CENTENNIAL, CO 80112

A STANLEY GROUP COMPANY
 ENGINEERING, ENVIRONMENTAL AND
 CONSTRUCTION SERVICES - WORLDWIDE

DESIGNED XXXXX
 DRAWN XXXXX
 CHECKED XXXXX
 APPROVED XXXXX
 DATE 11/14/2011

Center to Grand Forks Project

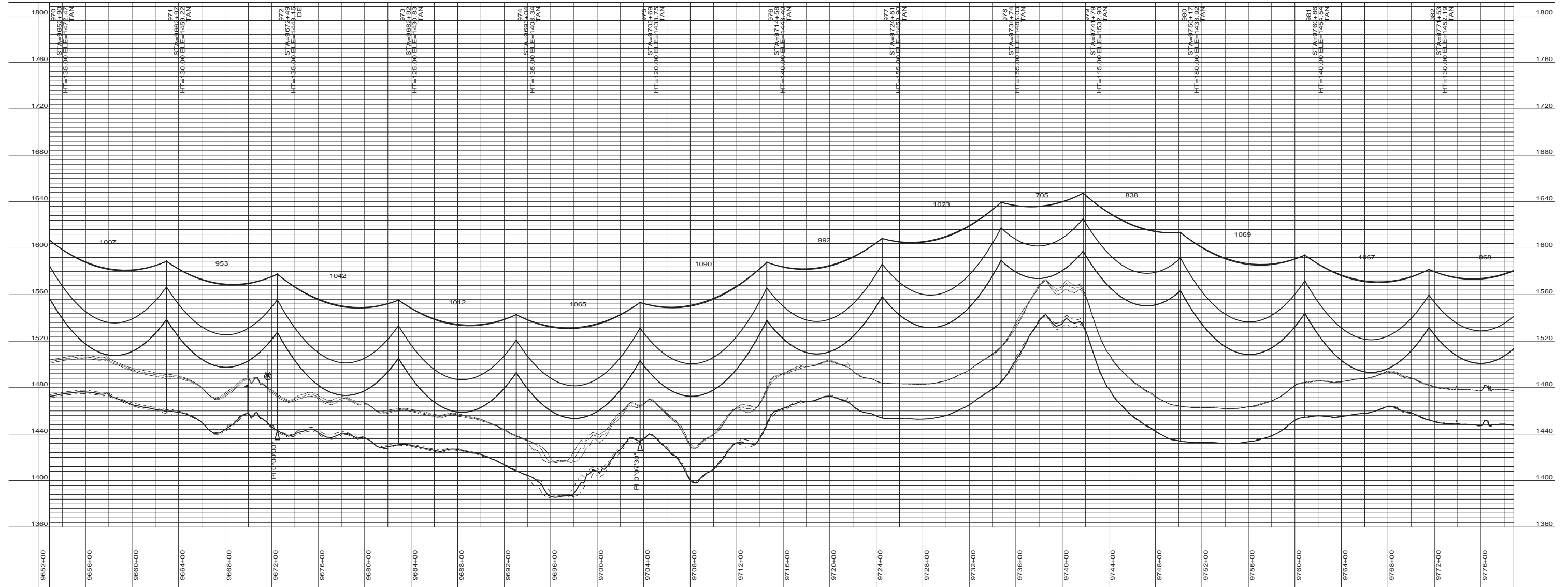
COOPERATIVE, INC.

GRIGGS COUNTY

400.0 FT. HORIZ. SCALE
 40.0 FT. VERT. SCALE

55-PP-GR000-008

PRELIMINARY



DESIGN CONDITIONS:
 SHIELD _____
 20% RTS @ -20 DEGREES F, INITIAL CLEARANCE LINE: XX'
 CONDUCTOR _____
 20% RTS @ -20 DEGREES F, INITIAL

REV	DATE	APP	DESCRIPTION	DFTR



8000 S. CHESTER STREET
 SUITE 500
 CENTENNIAL, CO 80112

A STANLEY GROUP COMPANY
 ENGINEERING, ENVIRONMENTAL AND
 CONSTRUCTION SERVICES - WORLDWIDE


DESIGNED	XXXXX
DRAWN	XXXXX
CHECKED	XXXXX
APPROVED	XXXXX
DATE	11/14/2011

Center to Grand Forks Project



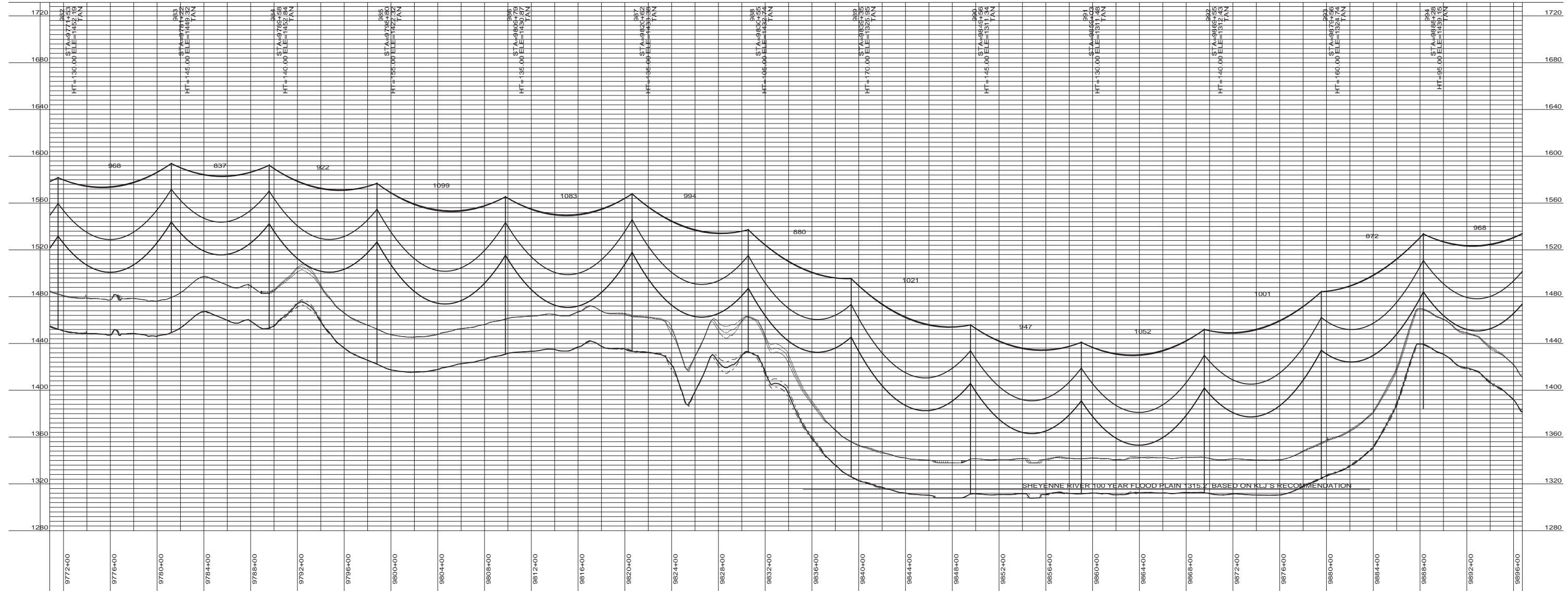
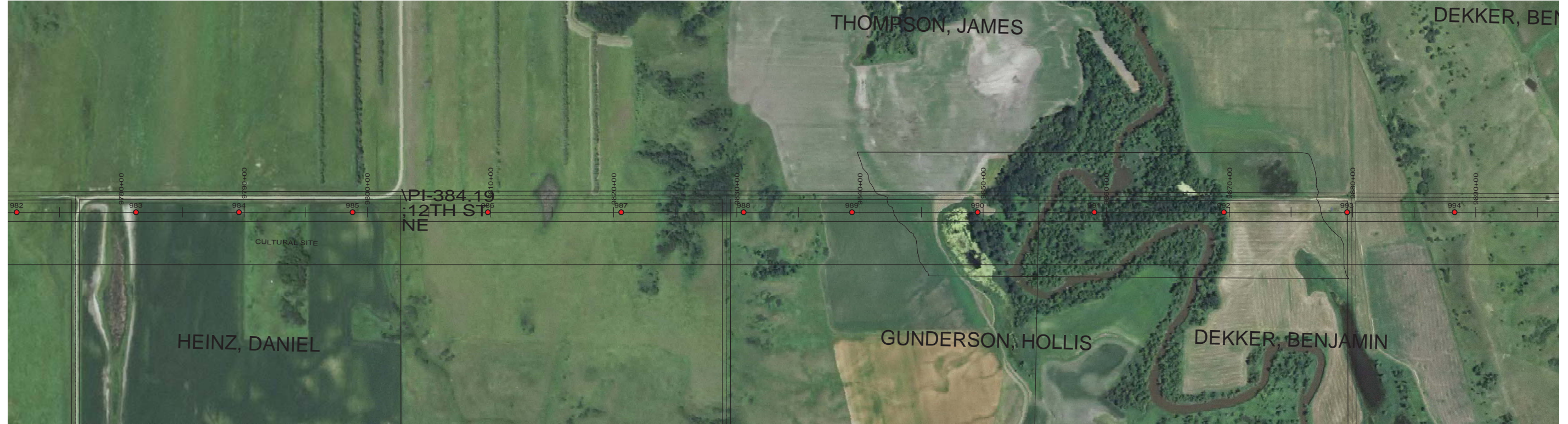
GRIGGS COUNTY

400.0 FT. HORIZ. SCALE
 40.0 FT. VERT. SCALE



55-PP-GR000-009

PRELIMINARY



DESIGN CONDITIONS:
 SHIELD _____
 20% RTS @ -20 DEGREES F, INITIAL CLEARANCE LINE: XX'
 CONDUCTOR _____
 20% RTS @ -20 DEGREES F, INITIAL

REV	DATE	APP	DESCRIPTION	DFTR

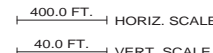



Stanley Consultants INC.
 8000 S. CHESTER STREET
 SUITE 500
 CENTENNIAL, CO 80112
 A STANLEY GROUP COMPANY
 ENGINEERING, ENVIRONMENTAL AND
 CONSTRUCTION SERVICES - WORLDWIDE

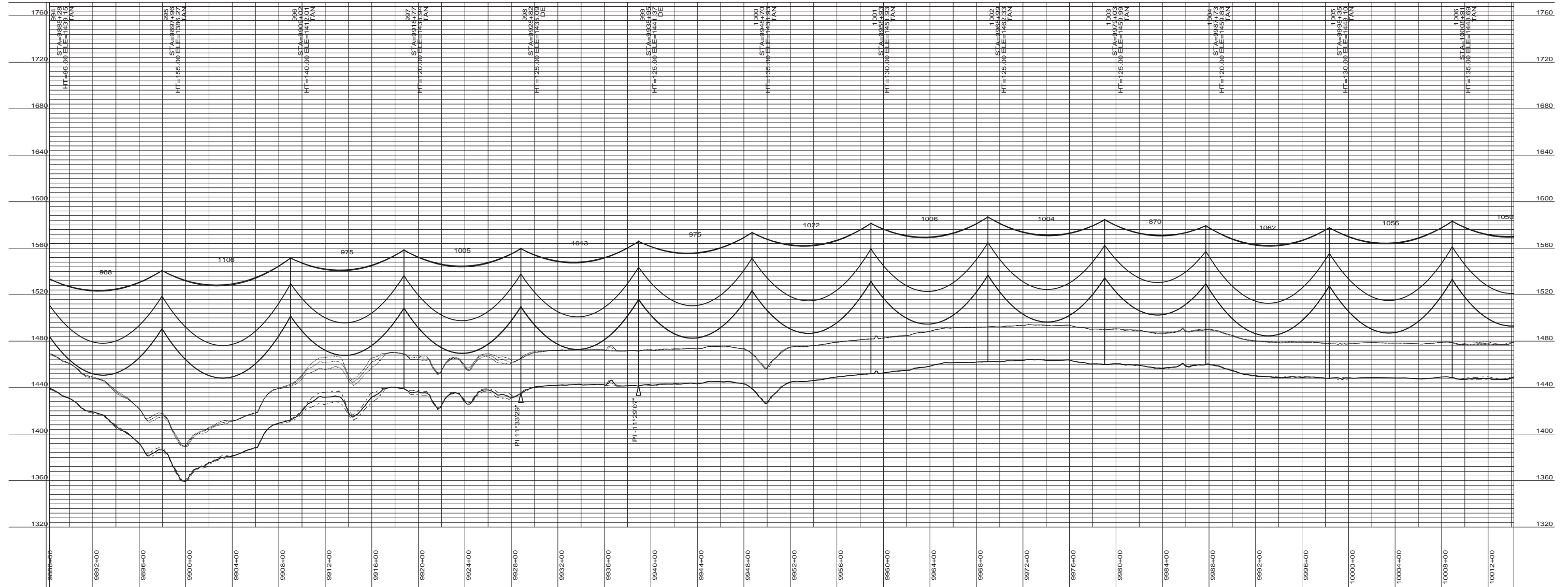
DESIGNED	XXXXX
DRAWN	XXXXX
CHECKED	XXXXX
APPROVED	XXXXX
DATE	11/14/2011

Center to Grand Forks Project

 COOPERATIVE, INC.

GRIGGS COUNTY


 55-PP-GR000-010

PRELIMINARY



DESIGN CONDITIONS:
 SHIELD _____
 20% RTS @ -20 DEGREES F, INITIAL CLEARANCE LINE: XX'

CONDUCTOR _____
 20% RTS @ -20 DEGREES F, INITIAL

REV	DATE	APP	DESCRIPTION	DFTR

8000 S. CHESTER STREET
 SUITE 500
 CENTENNIAL, CO 80112

A STANLEY GROUP COMPANY
 ENGINEERING, ENVIRONMENTAL AND
 CONSTRUCTION SERVICES - WORLDWIDE

DESIGNED _____
 DRAWN _____
 CHECKED _____
 APPROVED _____
 DATE 11/14/2011

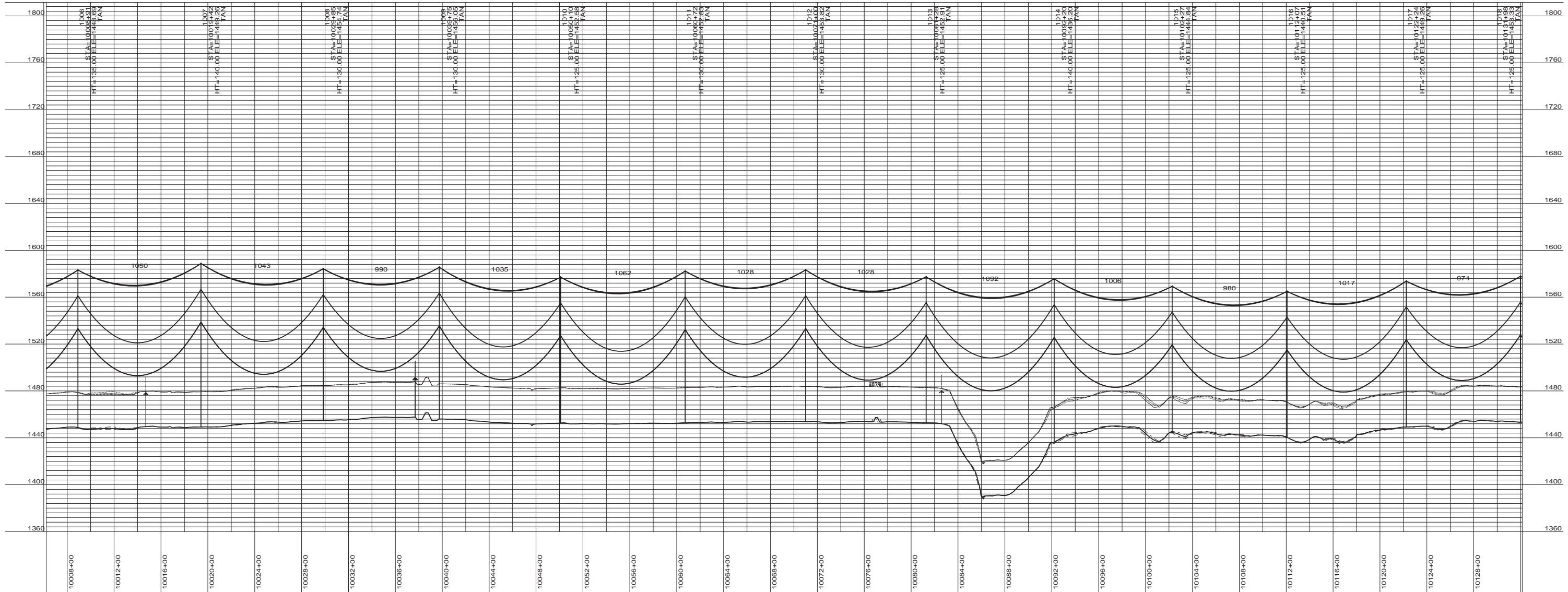
Center to Grand Forks Project

GRIGGS COUNTY

400.0 FT. HORIZ. SCALE
 40.0 FT. VERT. SCALE

55-PP-GR000-011

PRELIMINARY



DESIGN CONDITIONS:
 SHIELD _____
 20% RTS @ -20 DEGREES F, INITIAL CLEARANCE LINE: XX'
 CONDUCTOR _____
 20% RTS @ -20 DEGREES F, INITIAL

REV	DATE	APP	DESCRIPTION	DFTR

8000 S. CHESTER STREET
 SUITE 500
 CENTENNIAL, CO 80112

A STANLEY GROUP COMPANY
 ENGINEERING, ENVIRONMENTAL AND
 CONSTRUCTION SERVICES - WORLDWIDE

DESIGNED _____
 DRAWN _____
 CHECKED _____
 APPROVED _____
 DATE 11/14/2011

Center to Grand Forks Project

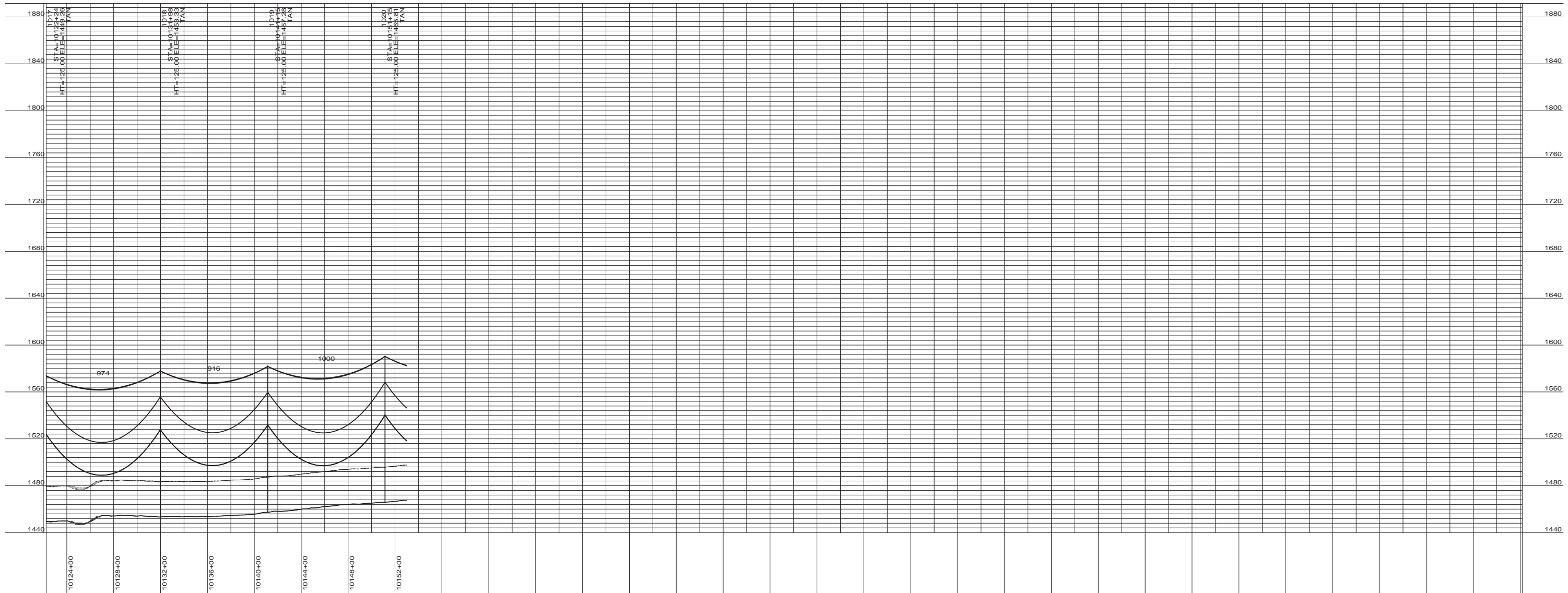
COOPERATIVE, INC.

GRIGGS COUNTY

400.0 FT. HORIZ. SCALE
 40.0 FT. VERT. SCALE

55-PP-GR000-012

PRELIMINARY



DESIGN CONDITIONS:
 SHIELD _____
 20% RTS @ -20 DEGREES F, INITIAL CLEARANCE LINE: XX'

CONDUCTOR _____
 20% RTS @ -20 DEGREES F, INITIAL

REV	DATE	APP	DESCRIPTION	DFTR



Stanley Consultants INC.
 8000 S. CHESTER STREET
 SUITE 500
 CENTENNIAL, CO 80112

A STANLEY GROUP COMPANY
 ENGINEERING, ENVIRONMENTAL AND
 CONSTRUCTION SERVICES - WORLDWIDE

DESIGNED	XXXXX
DRAWN	XXXXX
CHECKED	XXXXX
APPROVED	XXXXX
DATE	11/14/2011


Center to Grand Forks Project



Minnkota Power
 COOPERATIVE, INC.

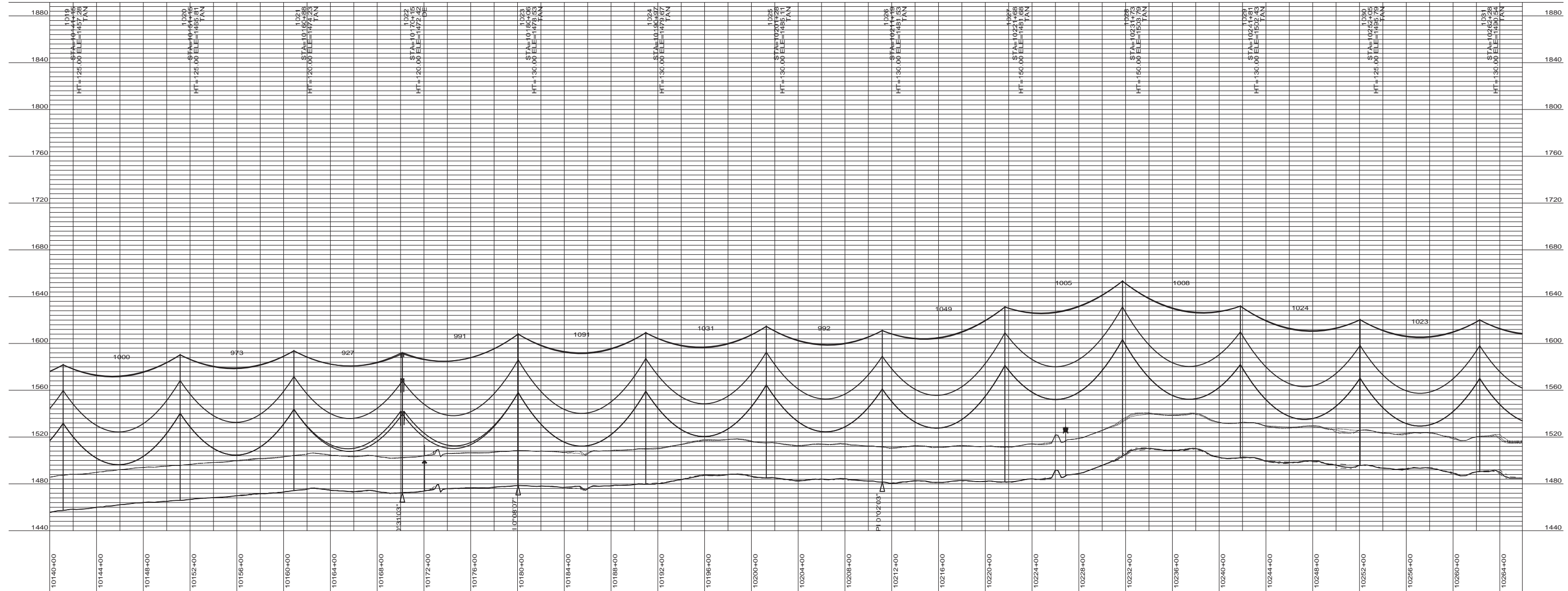
GRIGGS COUNTY

400.0 FT. HORIZ. SCALE
 40.0 FT. VERT. SCALE



55-PP-GR000-013

PRELIMINARY



DESIGN CONDITIONS:
 SHIELD _____
 20% RTS @ -20 DEGREES F, INITIAL CLEARANCE LINE: XX'
 CONDUCTOR _____
 20% RTS @ -20 DEGREES F, INITIAL

REV	DATE	APP	DESCRIPTION	DFTR



Stanley Consultants INC
 A STANLEY GROUP COMPANY
 ENGINEERING, ENVIRONMENTAL AND
 CONSTRUCTION SERVICES - WORLDWIDE

8000 S. CHESTER STREET
 SUITE 500
 CENTENNIAL, CO 80112

DESIGNED XXXXX
 DRAWN XXXXX
 CHECKED XXXXX
 APPROVED XXXXX
 DATE 11/14/2011


Center to Grand Forks Project



Minnkota Power
 COOPERATIVE, INC.

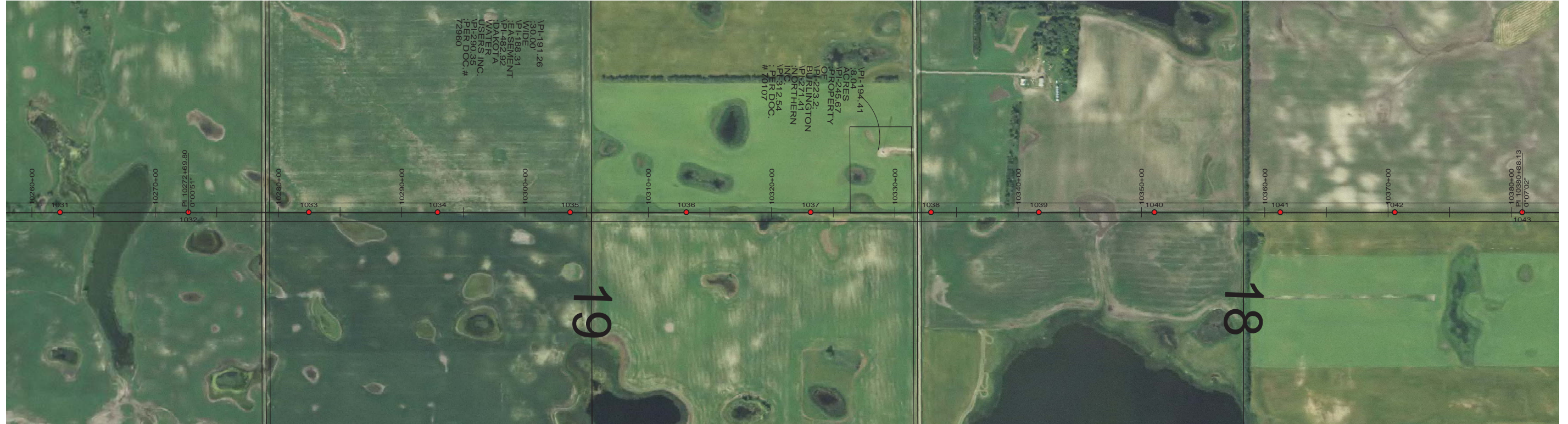
STEELE COUNTY

400.0 FT. HORIZ. SCALE
 40.0 FT. VERT. SCALE



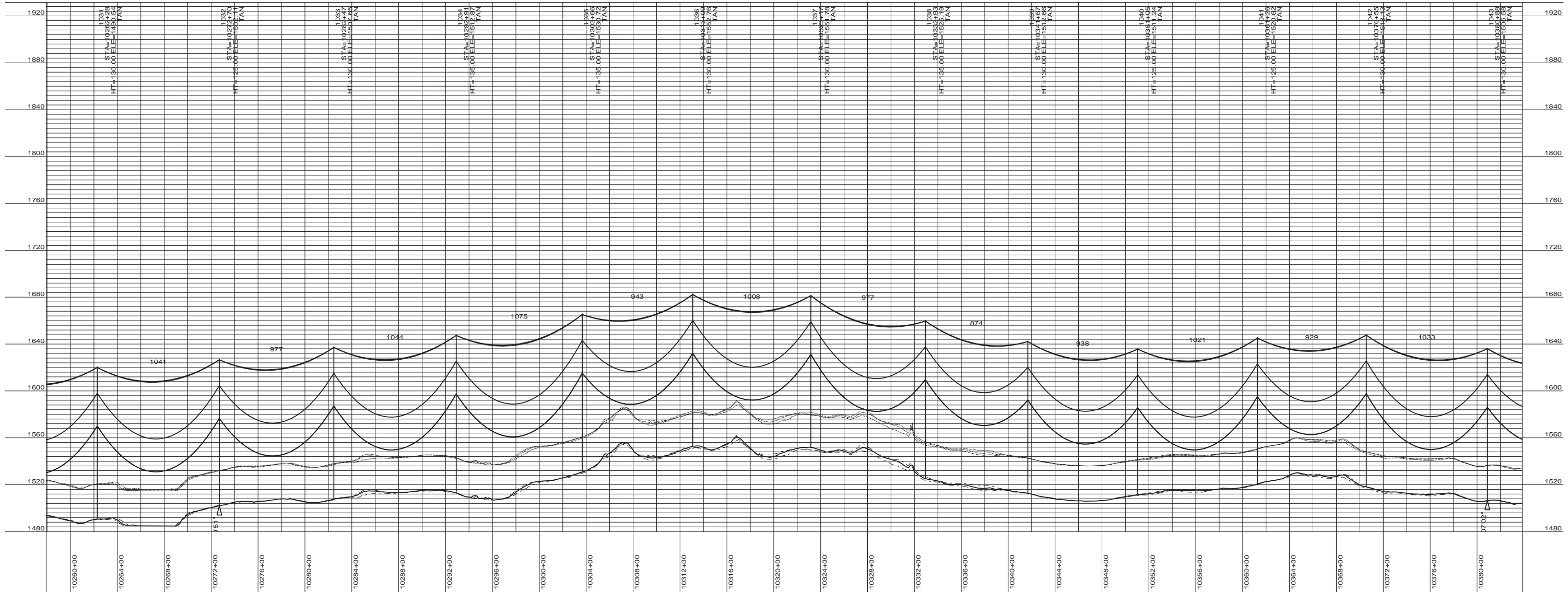
55-PP-ST000-001

PRELIMINARY



VI-191.26
 WIDE
 VI-188.31
 EASEMENT
 NO. 1482.92
 WATER
 USERS, INC.
 VI-290.35
 PER DOC. #
 72960

VI-194.41
 LAKES
 FOR THE
 PROPERTY
 OF
 BURLINGTON
 NORTHHERN
 INC.
 VI-312.54
 PER DOC.
 # 20107



DESIGN CONDITIONS:
 SHIELD _____
 20% RTS @ -20 DEGREES F, INITIAL CLEARANCE LINE: XX'
 CONDUCTOR _____
 20% RTS @ -20 DEGREES F, INITIAL

REV	DATE	APP	DESCRIPTION	DFTR




Stanley Consultants INC
 A STANLEY GROUP COMPANY
 ENGINEERING, ENVIRONMENTAL AND
 CONSTRUCTION SERVICES - WORLDWIDE

8000 S. CHESTER STREET
 SUITE 500
 CENTENNIAL, CO 80112

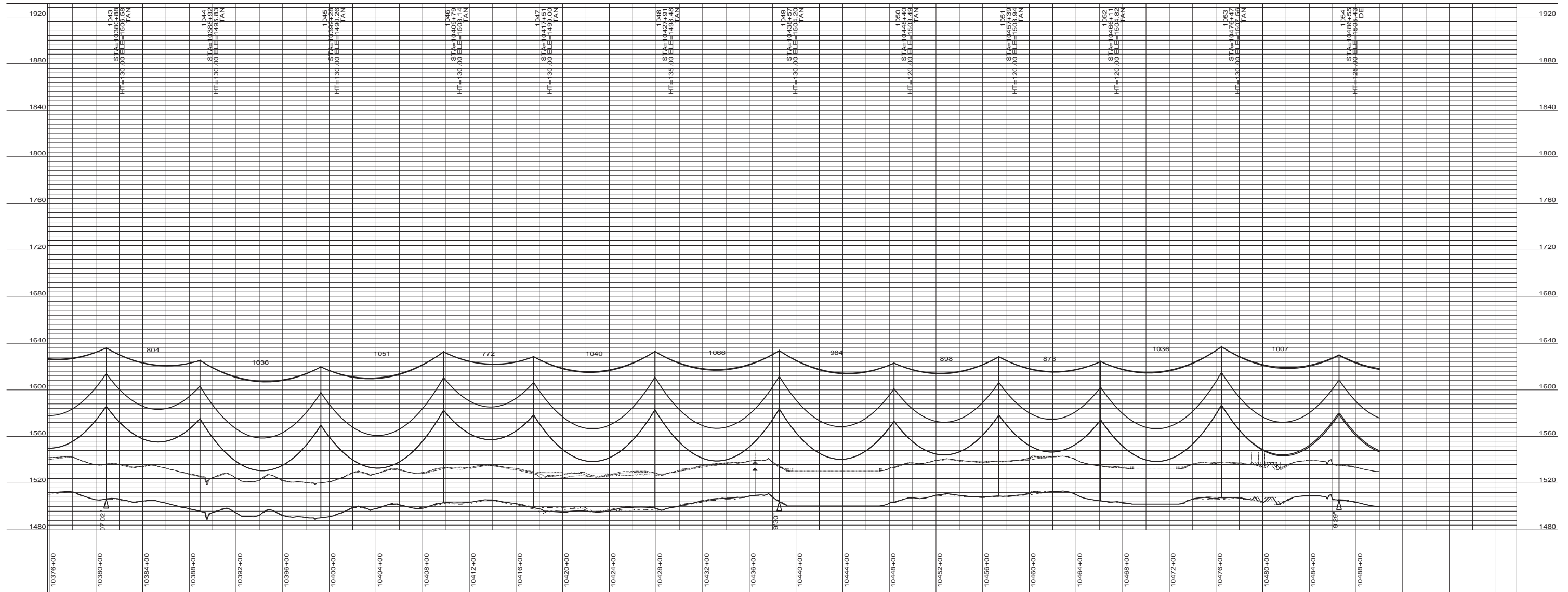
DESIGNED	XXXXX
DRAWN	XXXXX
CHECKED	XXXXX
APPROVED	XXXXX
DATE	11/14/2011

Center to Grand Forks Project

 COOPERATIVE, INC.

STEELE COUNTY
 400.0 FT. HORIZ. SCALE
 40.0 FT. VERT. SCALE

 55-PP-ST000-002

PRELIMINARY



DESIGN CONDITIONS:
 SHIELD _____
 20% RTS @ -20 DEGREES F, INITIAL CLEARANCE LINE: XX'
 CONDUCTOR _____
 20% RTS @ -20 DEGREES F, INITIAL

REV	DATE	APP	DESCRIPTION	DFTR

8000 S. CHESTER STREET
 SUITE 500
 CENTENNIAL, CO 80112

A STANLEY GROUP COMPANY
 ENGINEERING, ENVIRONMENTAL AND
 CONSTRUCTION SERVICES - WORLDWIDE

DESIGNED _____
 DRAWN _____
 CHECKED _____
 APPROVED _____
 DATE 11/14/2011

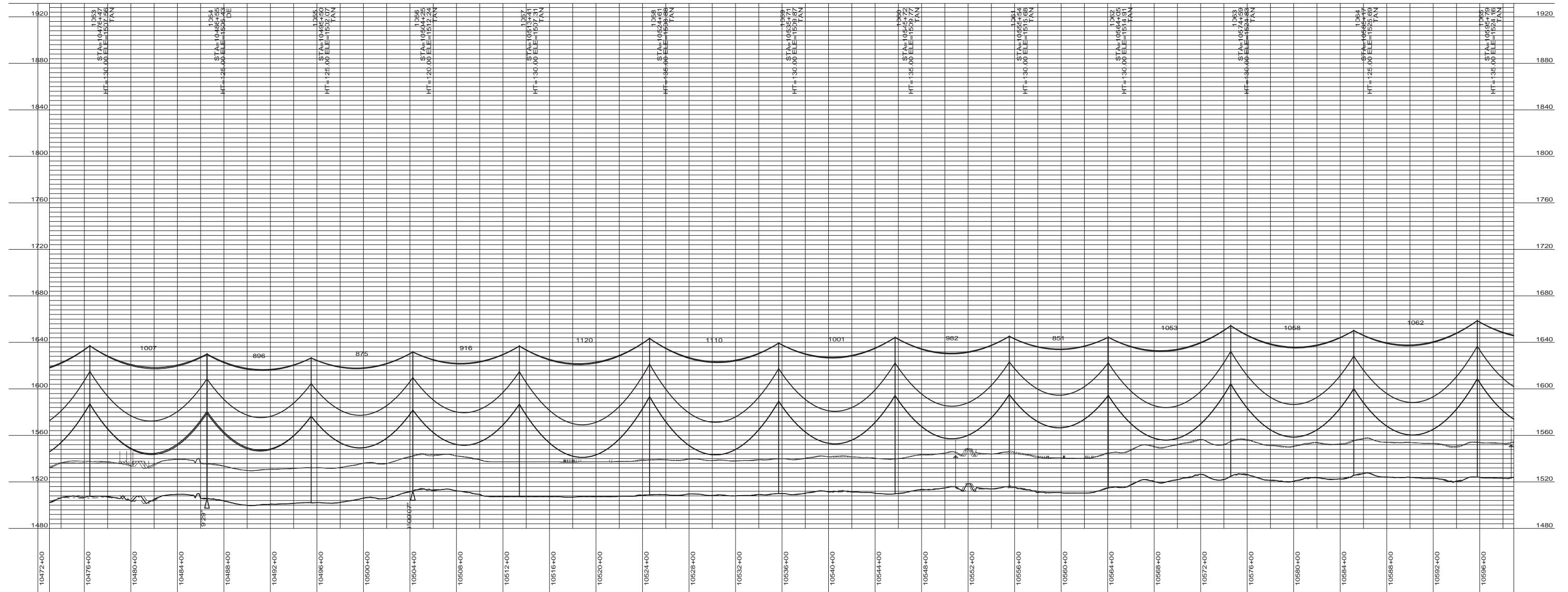
Center to Grand Forks Project

STEELE COUNTY

400.0 FT. HORIZ. SCALE
 40.0 FT. VERT. SCALE

55-PP-ST000-003

PRELIMINARY



DESIGN CONDITIONS:
 SHIELD _____
 20% RTS @ -20 DEGREES F, INITIAL CLEARANCE LINE: XX'

CONDUCTOR _____
 20% RTS @ -20 DEGREES F, INITIAL

REV	DATE	APP	DESCRIPTION	DFTR



8000 S. CHESTER STREET
 SUITE 500
 CENTENNIAL, CO 80112

A STANLEY GROUP COMPANY
 ENGINEERING, ENVIRONMENTAL AND
 CONSTRUCTION SERVICES - WORLDWIDE


DESIGNED XXXXX
 DRAWN XXXXX
 CHECKED XXXXX
 APPROVED XXXXX
 DATE 11/14/2011

Center to Grand Forks Project



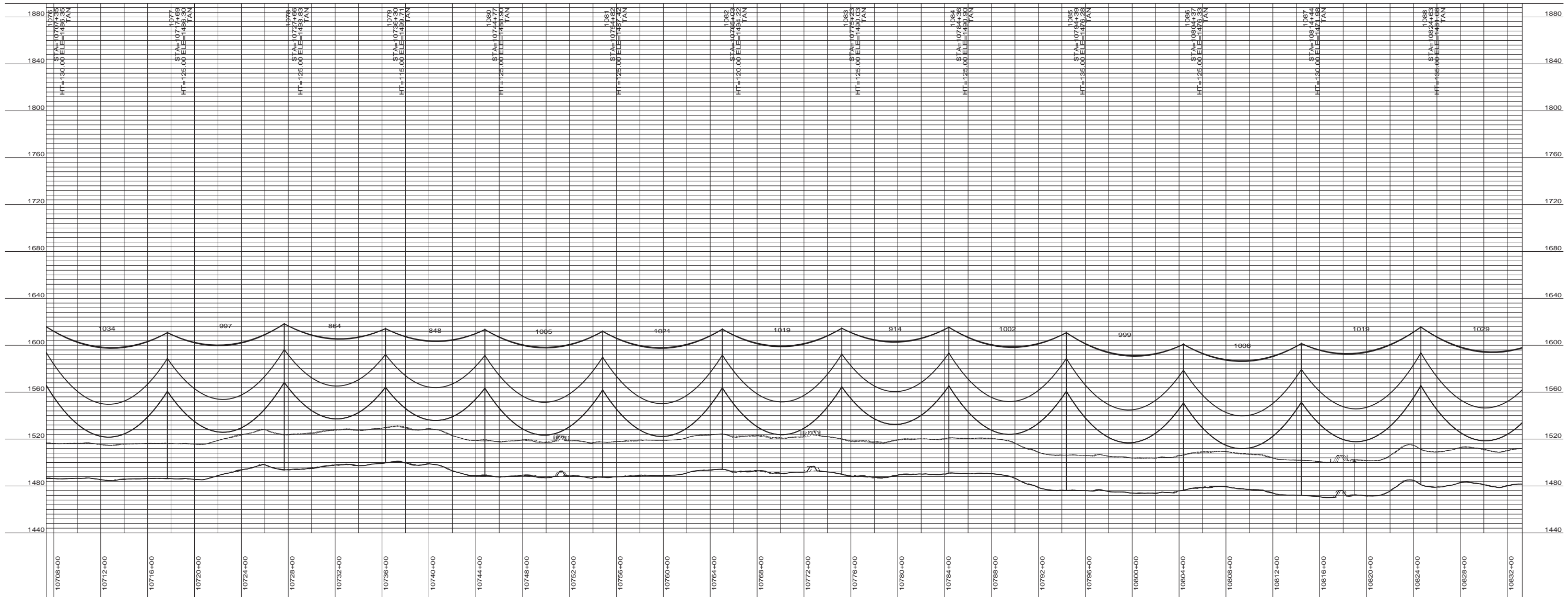
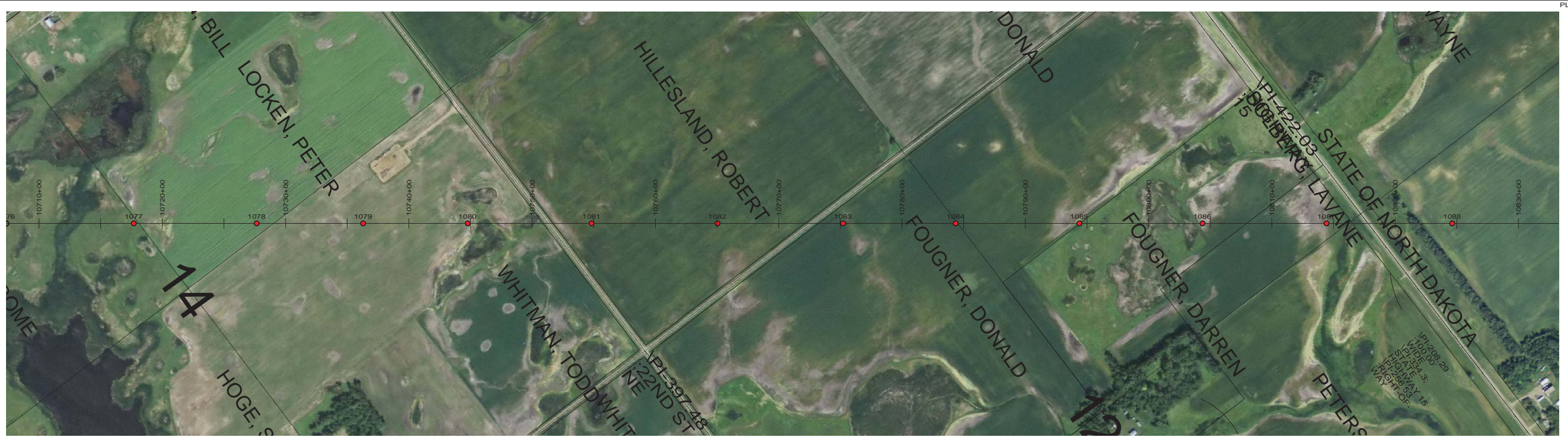
NELSON COUNTY

400.0 FT. HORIZ. SCALE
 40.0 FT. VERT. SCALE



55-PP-NL000-001

PRELIMINARY



DESIGN CONDITIONS:
 SHIELD _____
 20% RTS @ -20 DEGREES F, INITIAL
 CLEARANCE LINE: XX'

CONDUCTOR _____
 20% RTS @ -20 DEGREES F, INITIAL

REV	DATE	APP	DESCRIPTION	DFTR



Stanley Consultants INC.
 A STANLEY GROUP COMPANY
 ENGINEERING, ENVIRONMENTAL AND
 CONSTRUCTION SERVICES - WORLDWIDE

8000 S. CHESTER STREET
 SUITE 500
 CENTENNIAL, CO 80112

DESIGNED XXXXX
 DRAWN XXXXX
 CHECKED XXXXX
 APPROVED XXXXX
 DATE 11/14/2011


Center to Grand Forks Project



Minnkota Power
 COOPERATIVE, INC.

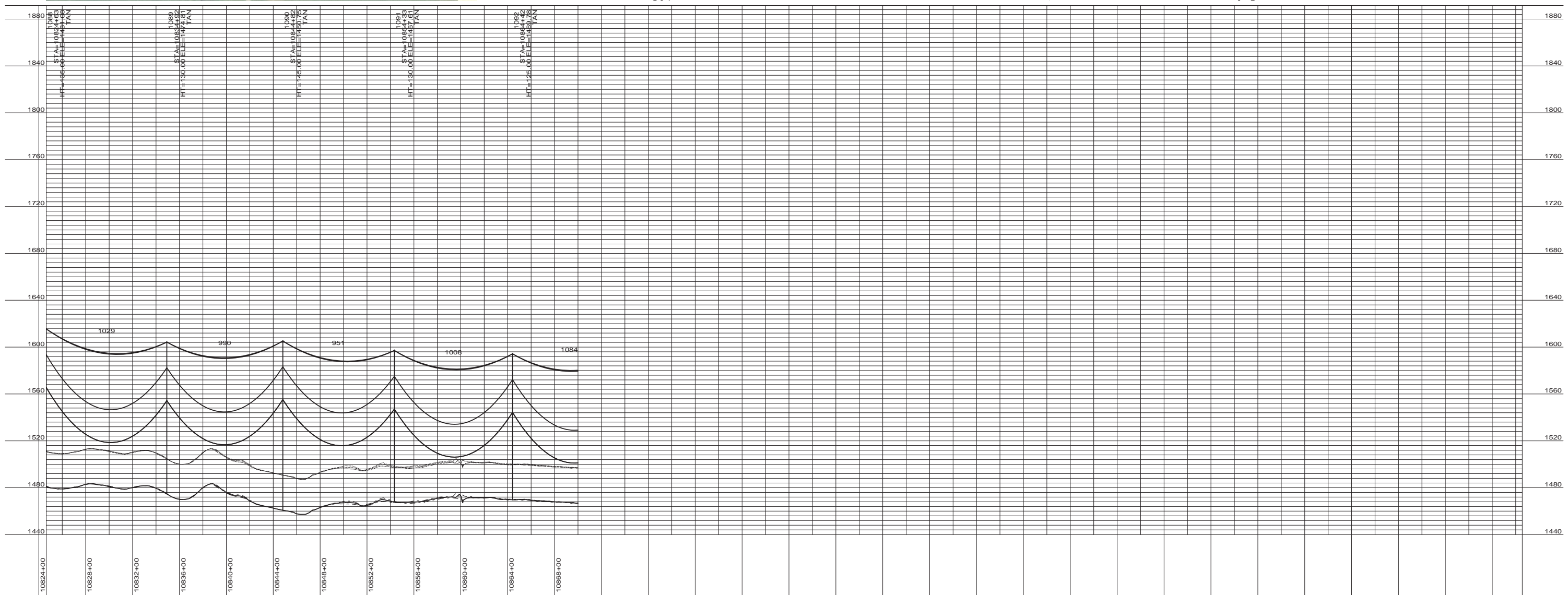
NELSON COUNTY

400.0 FT. ———— HORIZ. SCALE
 40.0 FT. ———— VERT. SCALE



55-PP-NL000-003

PRELIMINARY



DESIGN CONDITIONS:
 SHIELD _____
 20% RTS @ -20 DEGREES F, INITIAL
 CLEARANCE LINE: XX'

CONDUCTOR _____
 20% RTS @ -20 DEGREES F, INITIAL

REV	DATE	APP	DESCRIPTION	DFTR



8000 S. CHESTER STREET
 SUITE 500
 CENTENNIAL, CO 80112

A STANLEY GROUP COMPANY
 ENGINEERING, ENVIRONMENTAL AND
 CONSTRUCTION SERVICES - WORLDWIDE


DESIGNED XXXXX
 DRAWN XXXXX
 CHECKED XXXXX
 APPROVED XXXXX
 DATE 11/14/2011

Center to Grand Forks Project



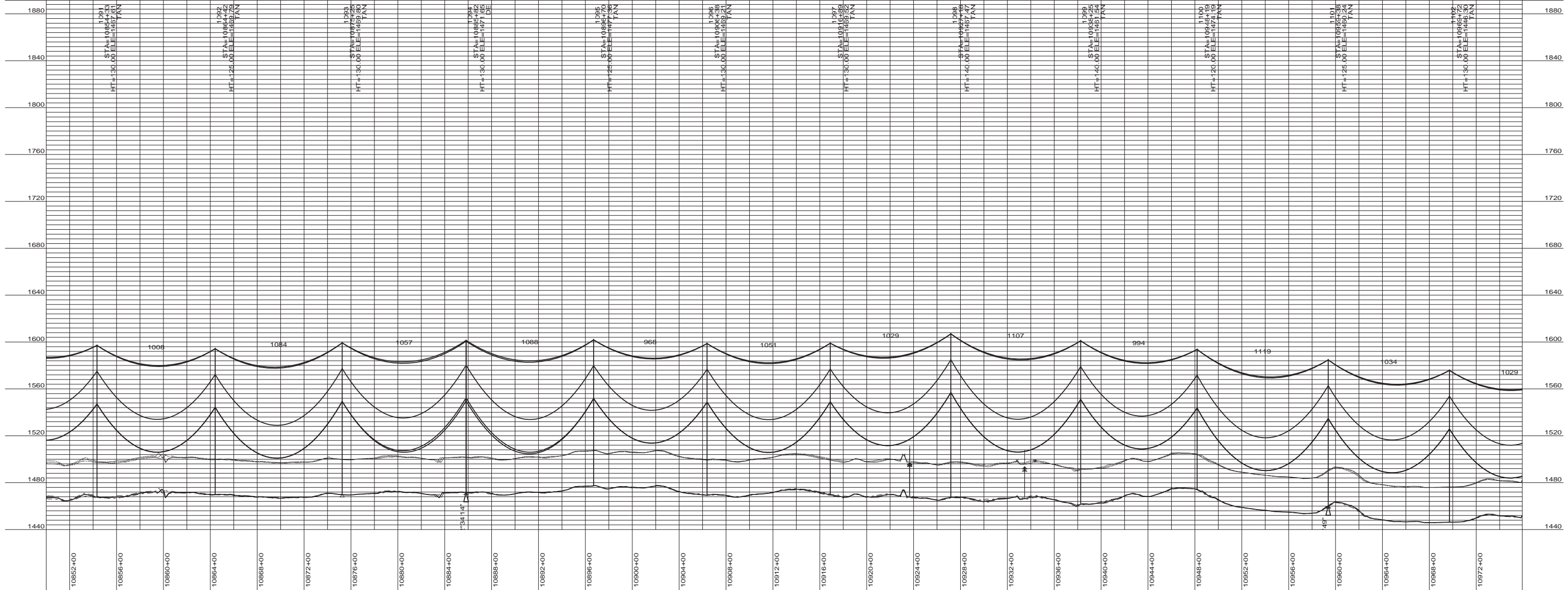
NELSON COUNTY

400.0 FT. HORIZ. SCALE
 40.0 FT. VERT. SCALE



55-PP-NL000-004

PRELIMINARY



DESIGN CONDITIONS:
 SHIELD _____
 20% RTS @ -20 DEGREES F, INITIAL CLEARANCE LINE: XX'
 CONDUCTOR _____
 20% RTS @ -20 DEGREES F, INITIAL

REV	DATE	APP	DESCRIPTION	DFTR

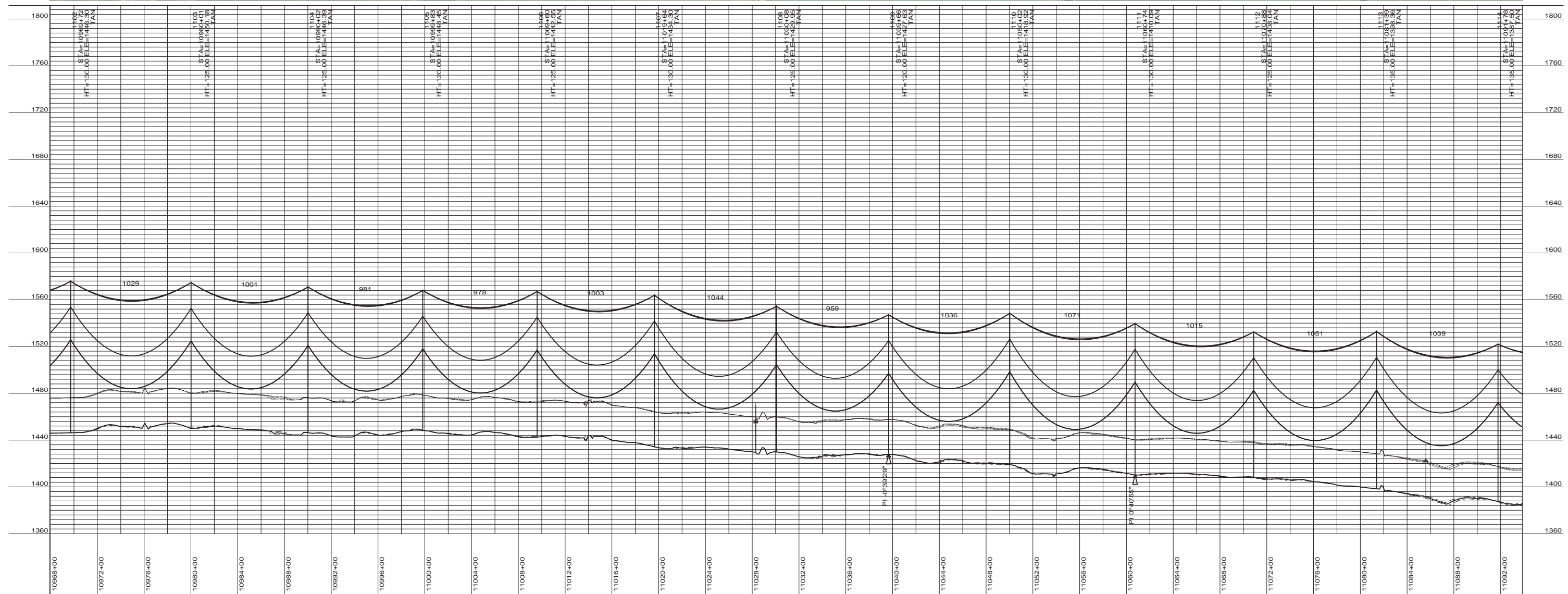
Stanley Consultants INC.
 8000 S. CHESTER STREET
 SUITE 500
 CENTENNIAL, CO 80112
 A STANLEY GROUP COMPANY
 ENGINEERING, ENVIRONMENTAL AND
 CONSTRUCTION SERVICES - WORLDWIDE

DESIGNED _____
 DRAWN _____
 CHECKED _____
 APPROVED _____
 DATE 11/14/2011

Center to Grand Forks Project
Minnkota Power
 COOPERATIVE, INC.

GRAND FORKS COUNTY
 400.0 FT. HORIZ. SCALE
 40.0 FT. VERT. SCALE
 55-PP-GF000-001

PRELIMINARY



DESIGN CONDITIONS:
 SHIELD _____
 20% RTS @ -20 DEGREES F, INITIAL CLEARANCE LINE: XX'
 CONDUCTOR _____
 20% RTS @ -20 DEGREES F, INITIAL

REV	DATE	APP	DESCRIPTION	DFTR

8000 S. CHESTER STREET
 SUITE 500
 CENTENNIAL, CO 80112

A STANLEY GROUP COMPANY
 ENGINEERING, ENVIRONMENTAL AND
 CONSTRUCTION SERVICES - WORLDWIDE

DESIGNED	XXXXX
DRAWN	XXXXX
CHECKED	XXXXX
APPROVED	XXXXX
DATE	11/14/2011

Center to Grand Forks Project

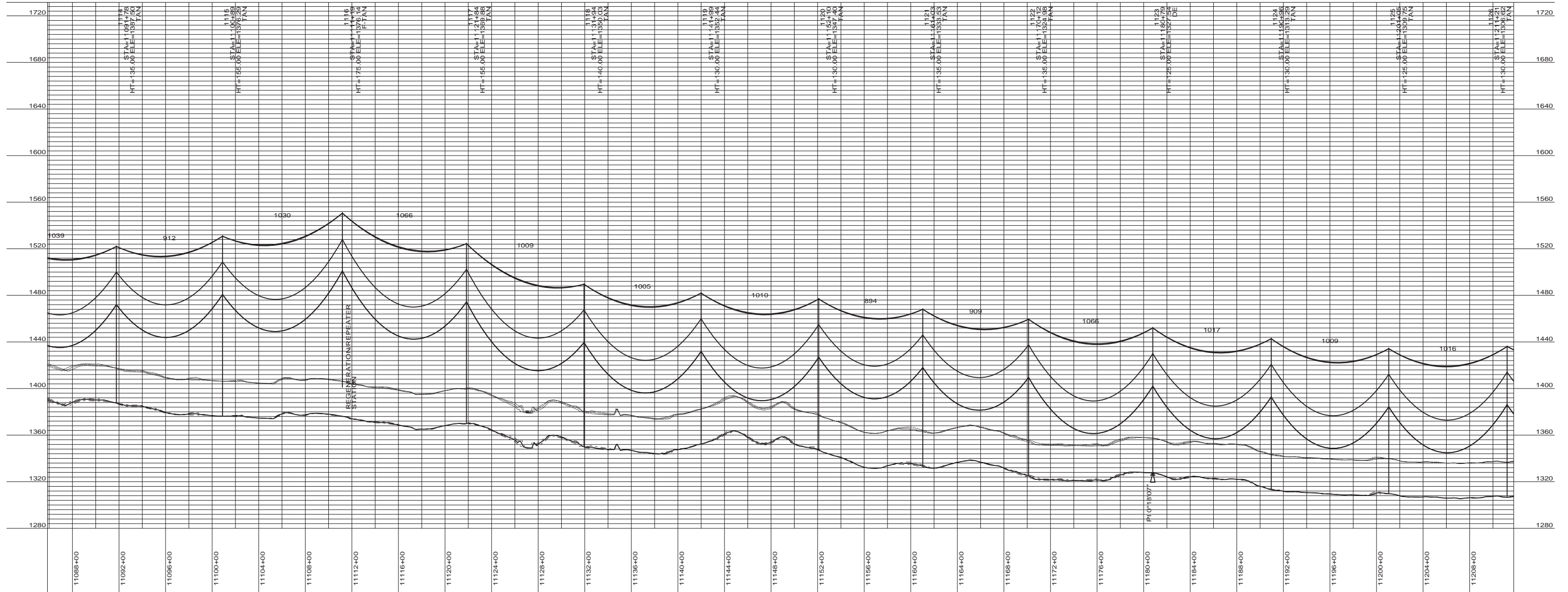
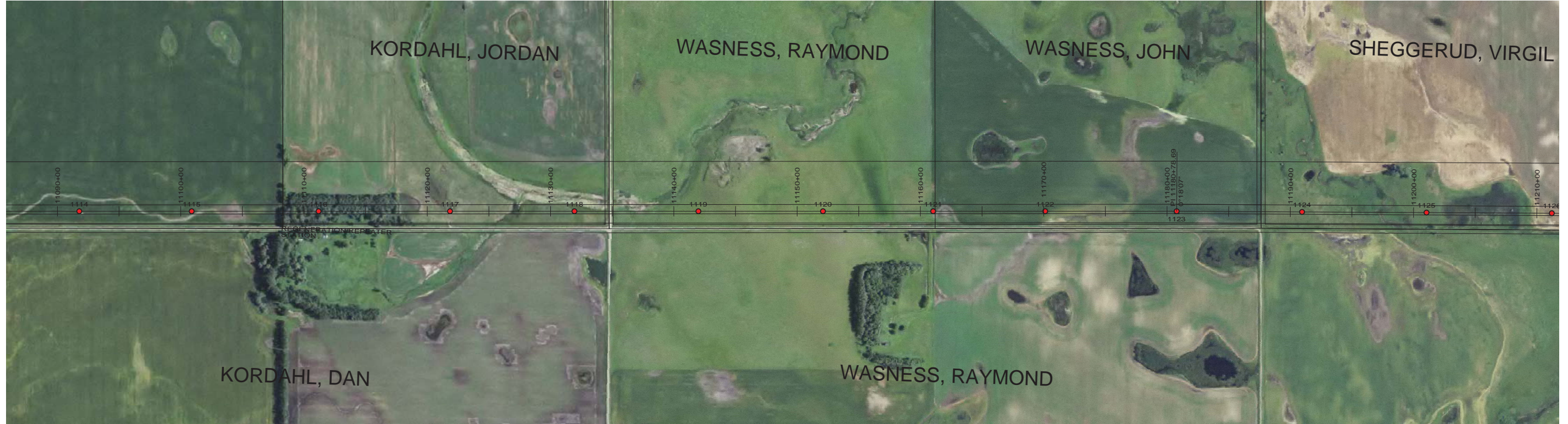
COOPERATIVE, INC.

GRAND FORKS COUNTY

400.0 FT. HORIZ. SCALE
 40.0 FT. VERT. SCALE

55-PP-GF000-002

PRELIMINARY



DESIGN CONDITIONS:
 SHIELD _____
 20% RTS @ -20 DEGREES F, INITIAL CLEARANCE LINE: XX'

CONDUCTOR _____
 20% RTS @ -20 DEGREES F, INITIAL

REV	DATE	APP	DESCRIPTION	DFTR



8000 S. CHESTER STREET
 SUITE 500
 CENTENNIAL, CO 80112

A STANLEY GROUP COMPANY
 ENGINEERING, ENVIRONMENTAL AND
 CONSTRUCTION SERVICES - WORLDWIDE


DESIGNED	XXXXX
DRAWN	XXXXX
CHECKED	XXXXX
APPROVED	XXXXX
DATE	11/14/2011

Center to Grand Forks Project



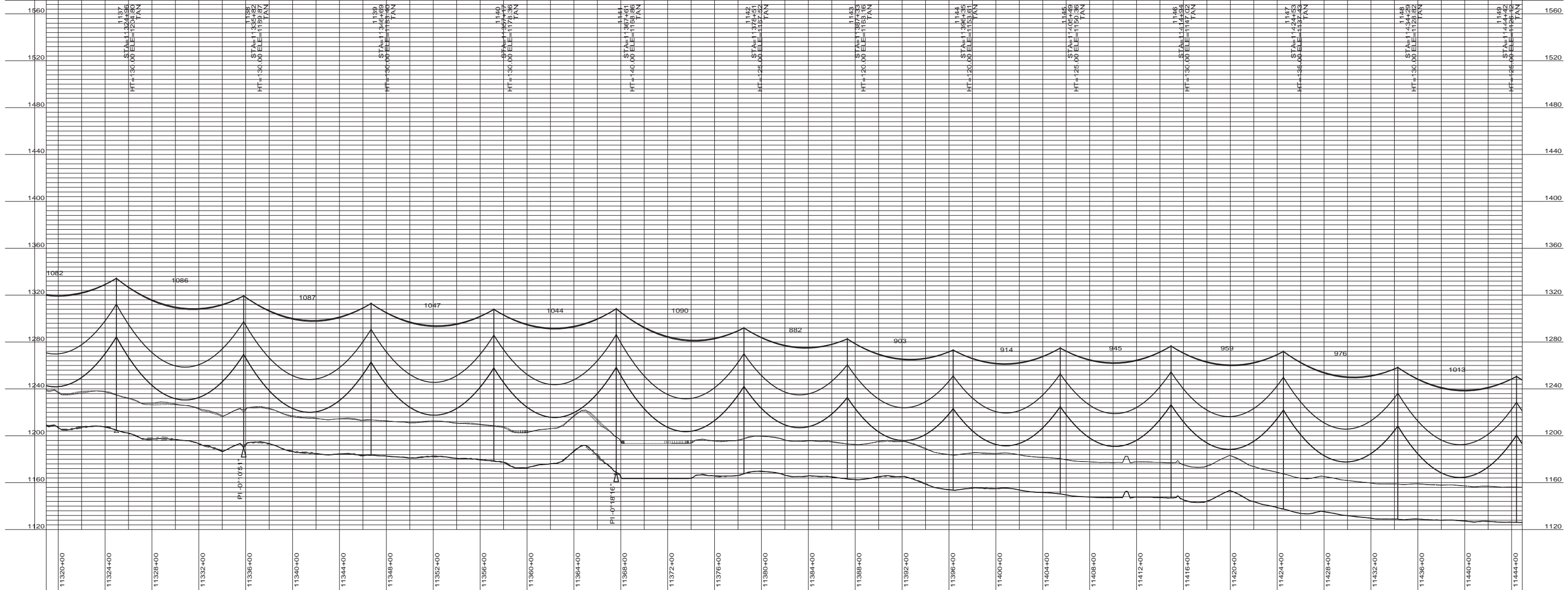
GRAND FORKS COUNTY

400.0 FT. HORIZ. SCALE
 40.0 FT. VERT. SCALE



55-PP-GF000-003

PRELIMINARY



DESIGN CONDITIONS:
 SHIELD _____
 20% RTS @ -20 DEGREES F, INITIAL CLEARANCE LINE: XX'
 CONDUCTOR _____
 20% RTS @ -20 DEGREES F, INITIAL

Stanley Consultants INC.
 8000 S. CHESTER STREET
 SUITE 500
 CENTENNIAL, CO 80112
 A STANLEY GROUP COMPANY
 ENGINEERING, ENVIRONMENTAL AND
 CONSTRUCTION SERVICES - WORLDWIDE

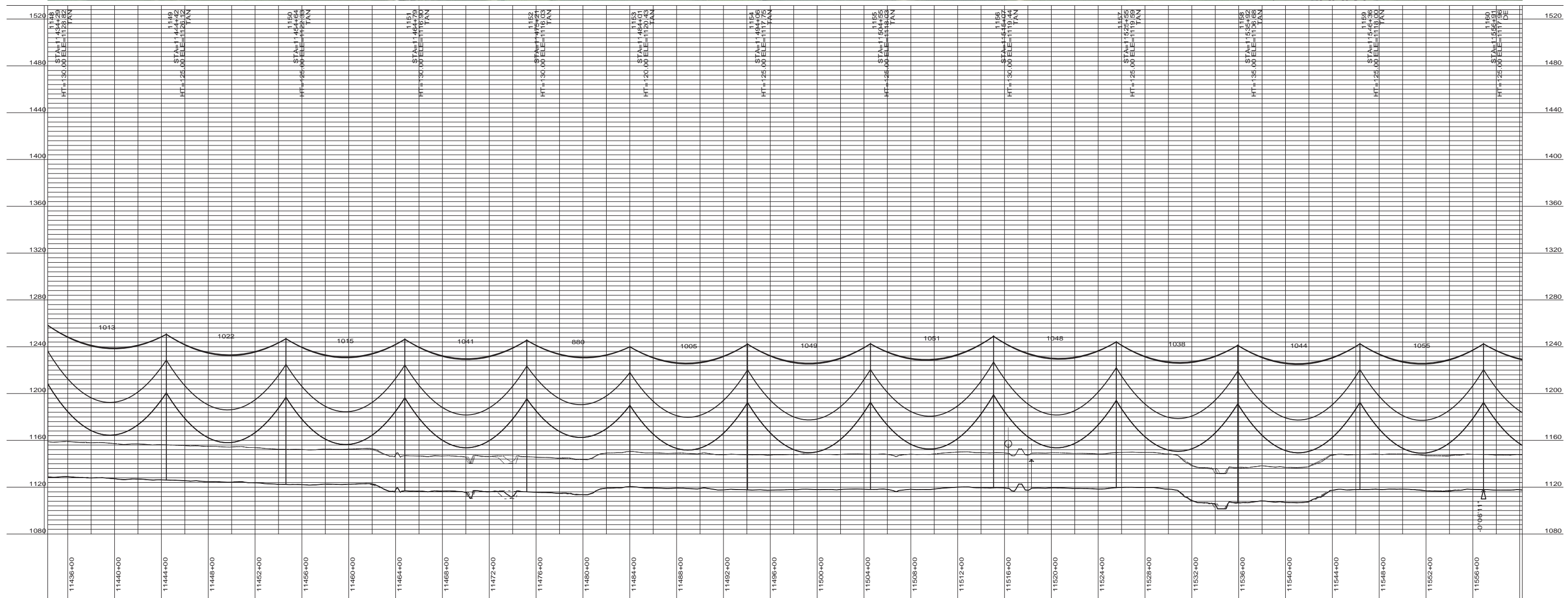
DESIGNED XXXXX
 DRAWN XXXXX
 CHECKED XXXXX
 APPROVED XXXXX
 DATE 11/14/2011

Center to Grand Forks Project
Minnkota Power
 COOPERATIVE, INC.

GRAND FORKS COUNTY
 400.0 FT. HORIZ. SCALE
 40.0 FT. VERT. SCALE
 55-PP-GF000-005

REV	DATE	APP	DESCRIPTION	DFTR

PRELIMINARY



DESIGN CONDITIONS:
 SHIELD _____
 20% RTS @ -20 DEGREES F, INITIAL CLEARANCE LINE: XX'
 CONDUCTOR _____
 20% RTS @ -20 DEGREES F, INITIAL

REV	DATE	APP	DESCRIPTION	DFTR

8000 S. CHESTER STREET
 SUITE 500
 CENTENNIAL, CO 80112

A STANLEY GROUP COMPANY
 ENGINEERING, ENVIRONMENTAL AND
 CONSTRUCTION SERVICES - WORLDWIDE

DESIGNED	XXXXX
DRAWN	XXXXX
CHECKED	XXXXX
APPROVED	XXXXX
DATE	11/14/2011

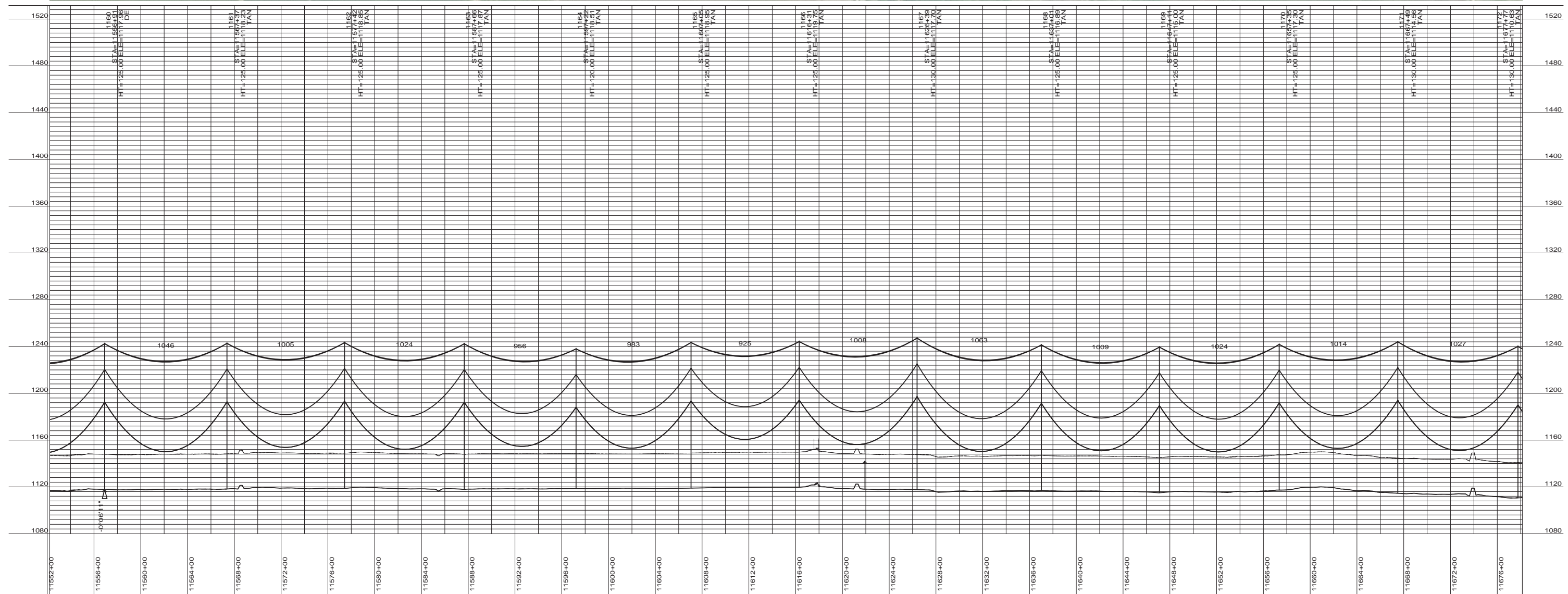
Center to Grand Forks Project

GRAND FORKS COUNTY

400.0 FT. HORIZ. SCALE
 40.0 FT. VERT. SCALE

55-PP-GF000-006

PRELIMINARY



DESIGN CONDITIONS:
 SHIELD _____
 20% RTS @ -20 DEGREES F, INITIAL CLEARANCE LINE: XX'
 CONDUCTOR _____
 20% RTS @ -20 DEGREES F, INITIAL

REV	DATE	APP	DESCRIPTION	DFTR

8000 S. CHESTER STREET
 SUITE 500
 CENTENNIAL, CO 80112

A STANLEY GROUP COMPANY
 ENGINEERING, ENVIRONMENTAL AND
 CONSTRUCTION SERVICES - WORLDWIDE

DESIGNED	XXXXX
DRAWN	XXXXX
CHECKED	XXXXX
APPROVED	XXXXX
DATE	11/14/2011

Center to Grand Forks Project

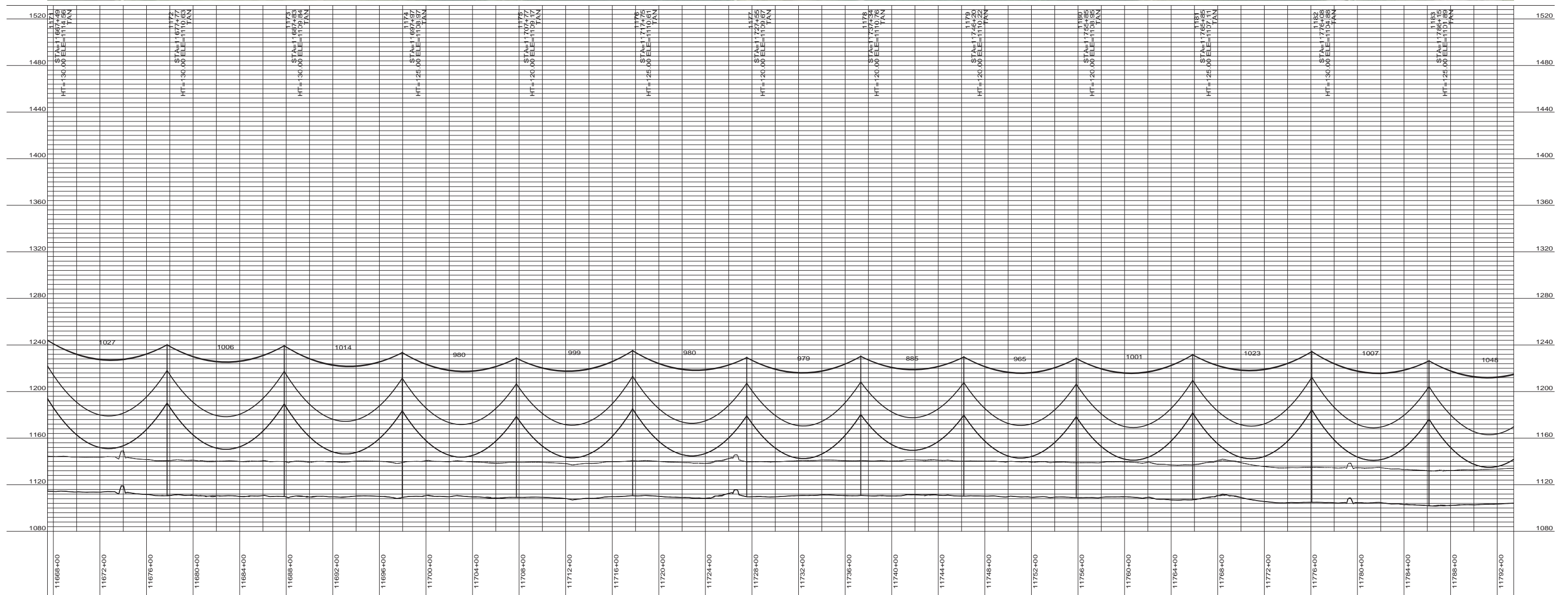
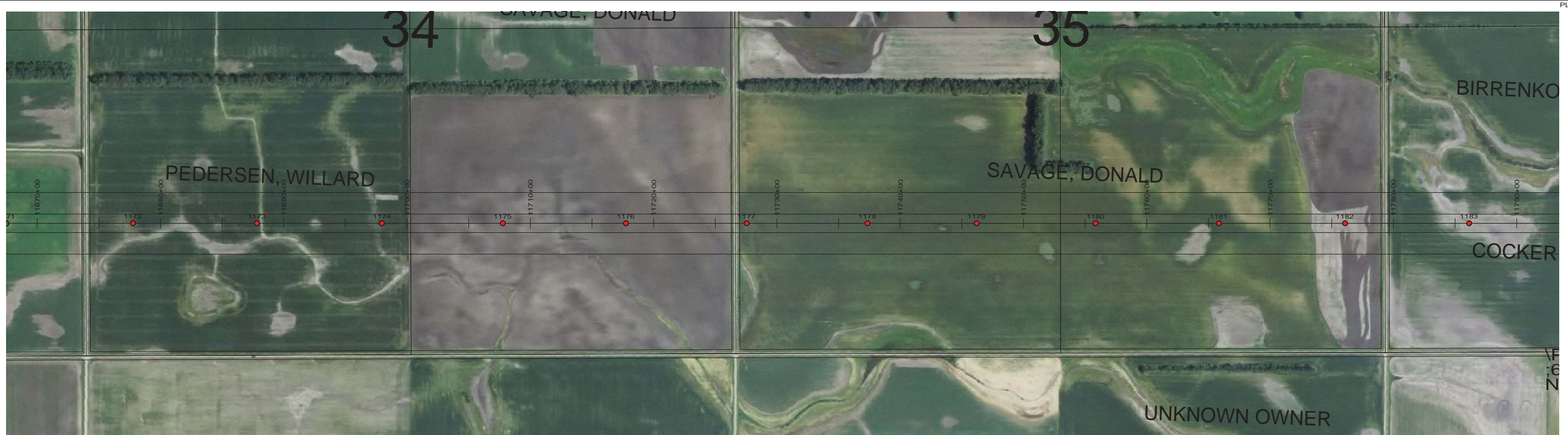
COOPERATIVE, INC.

GRAND FORKS COUNTY

400.0 FT. HORIZ. SCALE
 40.0 FT. VERT. SCALE

55-PP-GF000-007

PRELIMINARY



DESIGN CONDITIONS:
 SHIELD _____
 20% RTS @ -20 DEGREES F, INITIAL CLEARANCE LINE: XX'

CONDUCTOR _____
 20% RTS @ -20 DEGREES F, INITIAL

REV	DATE	APP	DESCRIPTION	DFTR



Stanley Consultants INC

8000 S. CHESTER STREET
 SUITE 500
 CENTENNIAL, CO 80112

A STANLEY GROUP COMPANY
 ENGINEERING, ENVIRONMENTAL AND
 CONSTRUCTION SERVICES - WORLDWIDE

DESIGNED	XXXXX
DRAWN	XXXXX
CHECKED	XXXXX
APPROVED	XXXXX
DATE	11/14/2011


Center to Grand Forks Project



COOPERATIVE, INC.

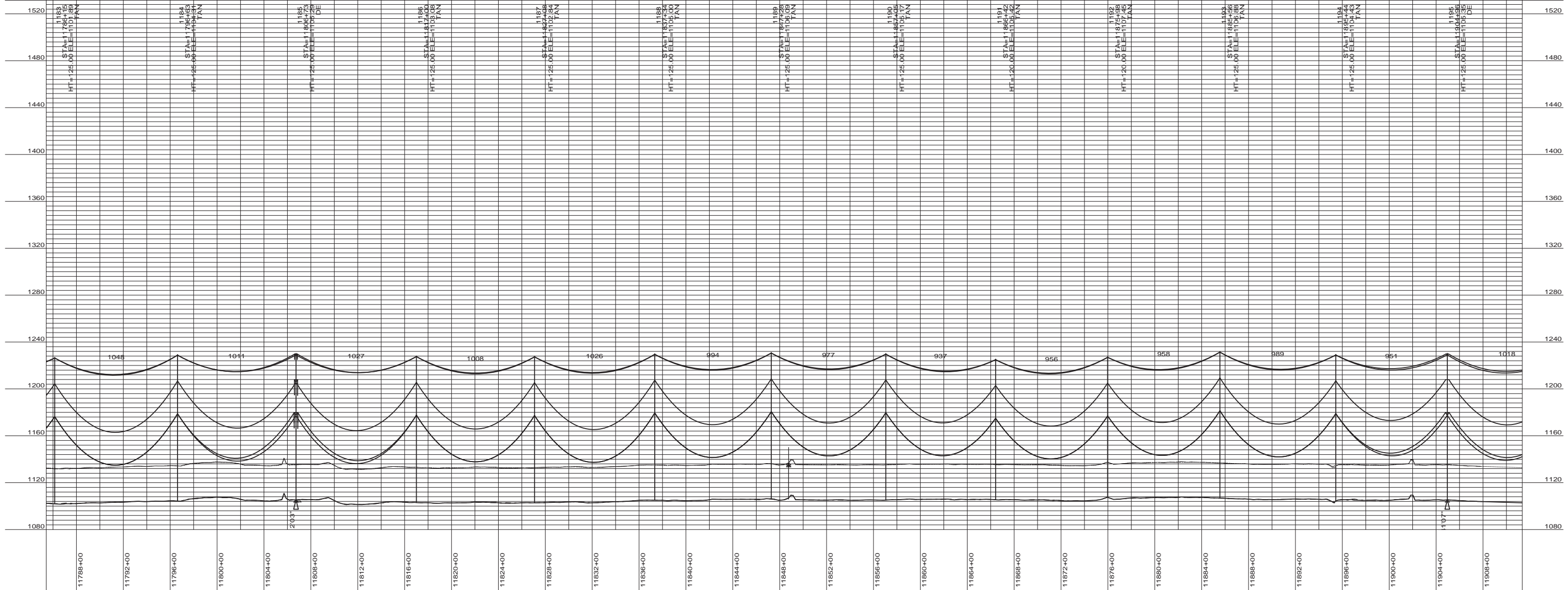
GRAND FORKS COUNTY

400.0 FT. HORIZ. SCALE
 40.0 FT. VERT. SCALE



55-PP-GF000-008

PRELIMINARY



DESIGN CONDITIONS:
 SHIELD _____
 20% RTS @ -20 DEGREES F, INITIAL CLEARANCE LINE: XX'
 CONDUCTOR _____
 20% RTS @ -20 DEGREES F, INITIAL

REV	DATE	APP	DESCRIPTION	DFTR



Stanley Consultants INC
 A STANLEY GROUP COMPANY
 ENGINEERING, ENVIRONMENTAL AND
 CONSTRUCTION SERVICES - WORLDWIDE

8000 S. CHESTER STREET
 SUITE 500
 CENTENNIAL, CO 80112


DESIGNED	XXXXX
DRAWN	XXXXX
CHECKED	XXXXX
APPROVED	XXXXX
DATE	11/14/2011

Center to Grand Forks Project



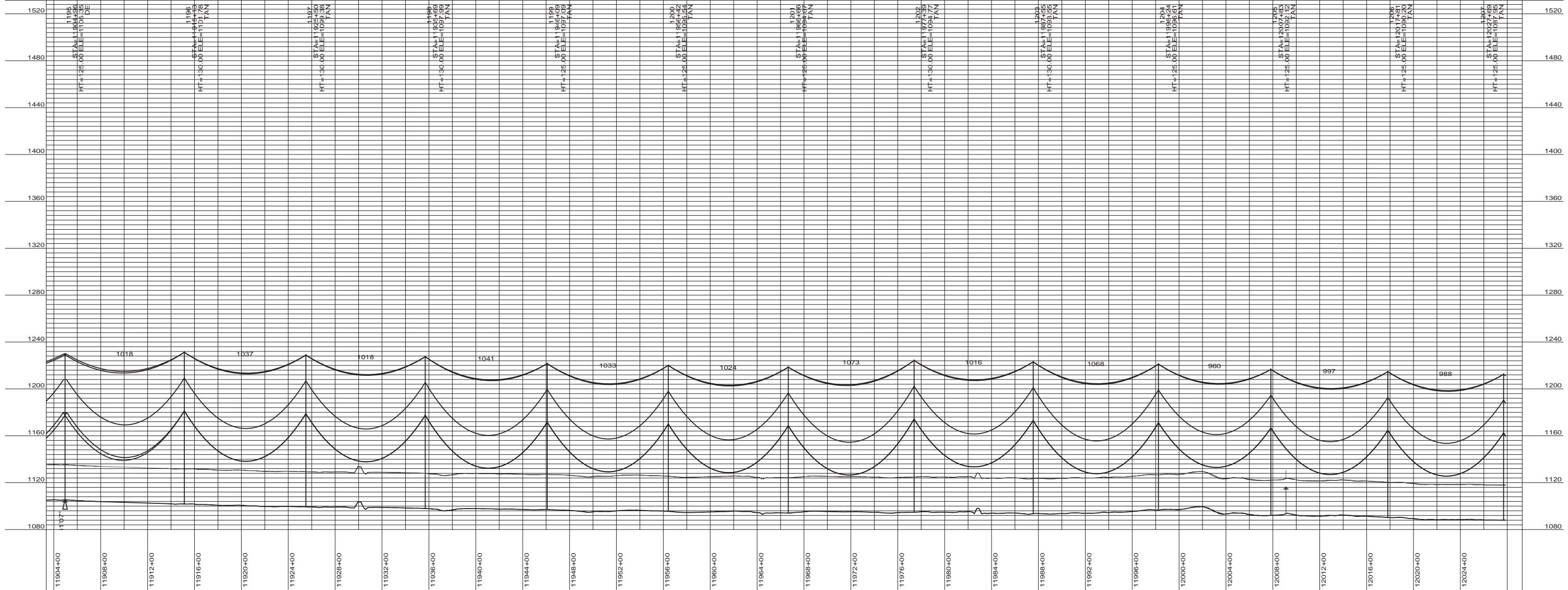
GRAND FORKS COUNTY

400.0 FT. HORIZ. SCALE
 40.0 FT. VERT. SCALE



55-PP-GF000-009

PRELIMINARY



DESIGN CONDITIONS:
 SHIELD _____
 20% RTS @ -20 DEGREES F, INITIAL CLEARANCE LINE: XX'
 CONDUCTOR _____
 20% RTS @ -20 DEGREES F, INITIAL

REV	DATE	APP	DESCRIPTION	DFTR



Stanley Consultants INC
 8000 S. CHESTER STREET
 SUITE 500
 CENTENNIAL, CO 80112

A STANLEY GROUP COMPANY
 ENGINEERING, ENVIRONMENTAL AND
 CONSTRUCTION SERVICES - WORLDWIDE

DESIGNED	XXXXX
DRAWN	XXXXX
CHECKED	XXXXX
APPROVED	XXXXX
DATE	11/14/2011


Center to Grand Forks Project



Minnkota Power
 COOPERATIVE, INC.

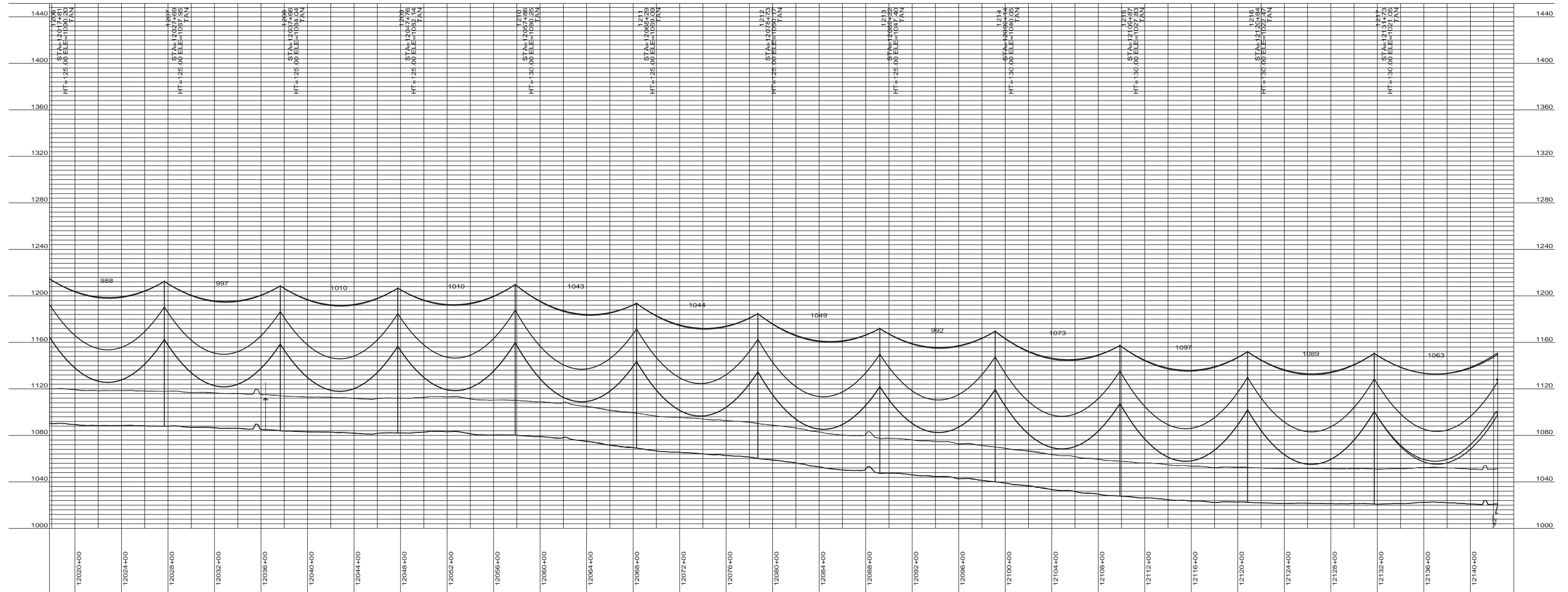
GRAND FORKS COUNTY

400.0 FT. HORIZ. SCALE
 40.0 FT. VERT. SCALE



55-PP-GF000-010

PRELIMINARY



DESIGN CONDITIONS:
 SHIELD _____
 20% RTS @ -20 DEGREES F, INITIAL
 CLEARANCE LINE: XX'

CONDUCTOR _____
 20% RTS @ -20 DEGREES F, INITIAL

REV	DATE	APP	DESCRIPTION	DFTR



Stanley Consultants INC

8000 S. CHESTER STREET
 SUITE 500
 CENTENNIAL, CO 80112

A STANLEY GROUP COMPANY
 ENGINEERING, ENVIRONMENTAL AND
 CONSTRUCTION SERVICES - WORLDWIDE

DESIGNED	XXXXX
DRAWN	XXXXX
CHECKED	XXXXX
APPROVED	XXXXX
DATE	11/14/2011


Center to Grand Forks Project



Minnkota Power
 COOPERATIVE, INC.

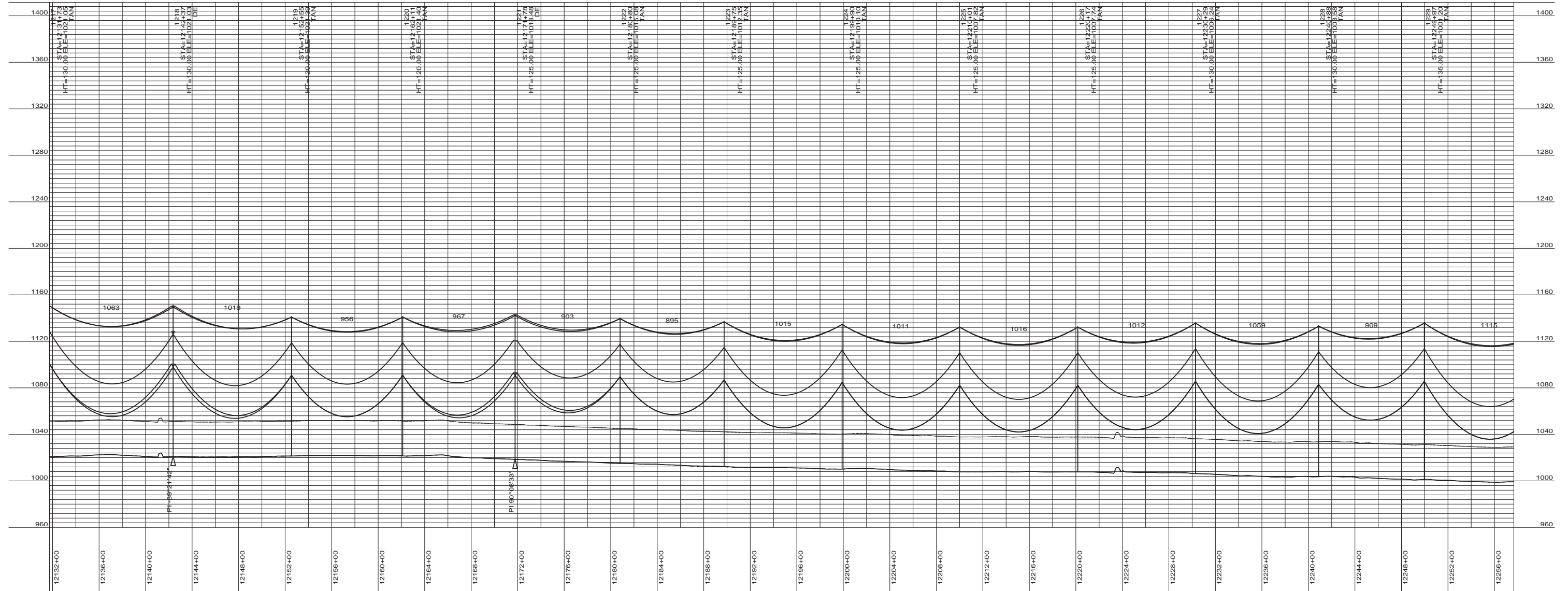
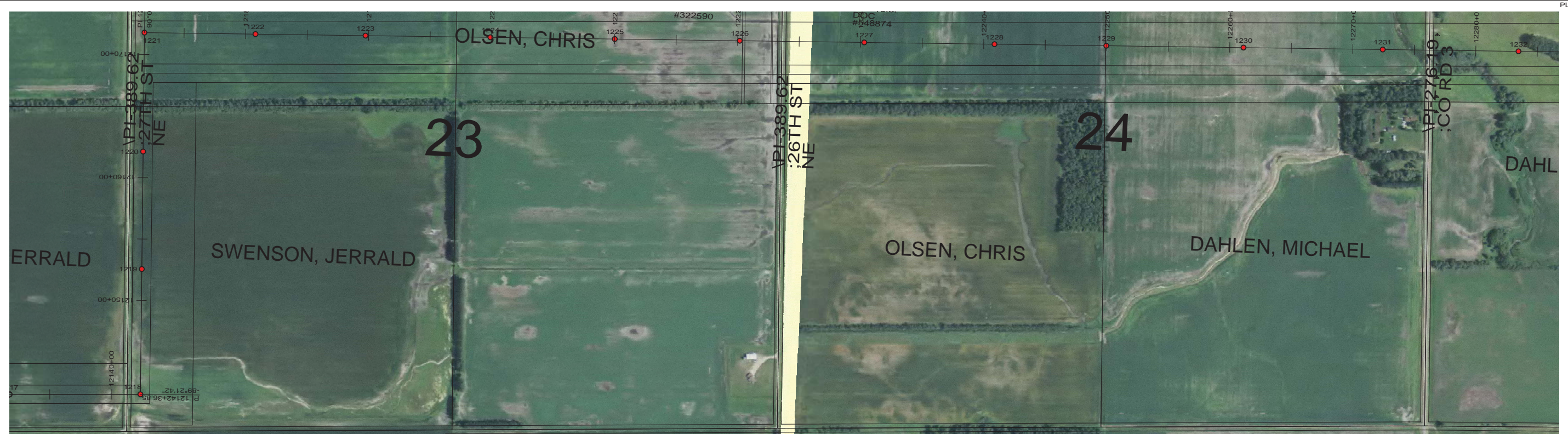
GRAND FORKS COUNTY

400.0 FT. HORIZ. SCALE
 40.0 FT. VERT. SCALE



55-PP-GF000-011

PRELIMINARY



DESIGN CONDITIONS:
 SHIELD _____
 20% RTS @ -20 DEGREES F, INITIAL CLEARANCE LINE: XX'
 CONDUCTOR _____
 20% RTS @ -20 DEGREES F, INITIAL

REV	DATE	APP	DESCRIPTION	DFTR



8000 S. CHESTER STREET
 SUITE 500
 CENTENNIAL, CO 80112

A STANLEY GROUP COMPANY
 ENGINEERING, ENVIRONMENTAL AND
 CONSTRUCTION SERVICES - WORLDWIDE


DESIGNED XXXXX
 DRAWN XXXXX
 CHECKED XXXXX
 APPROVED XXXXX
 DATE 11/14/2011

Center to Grand Forks Project



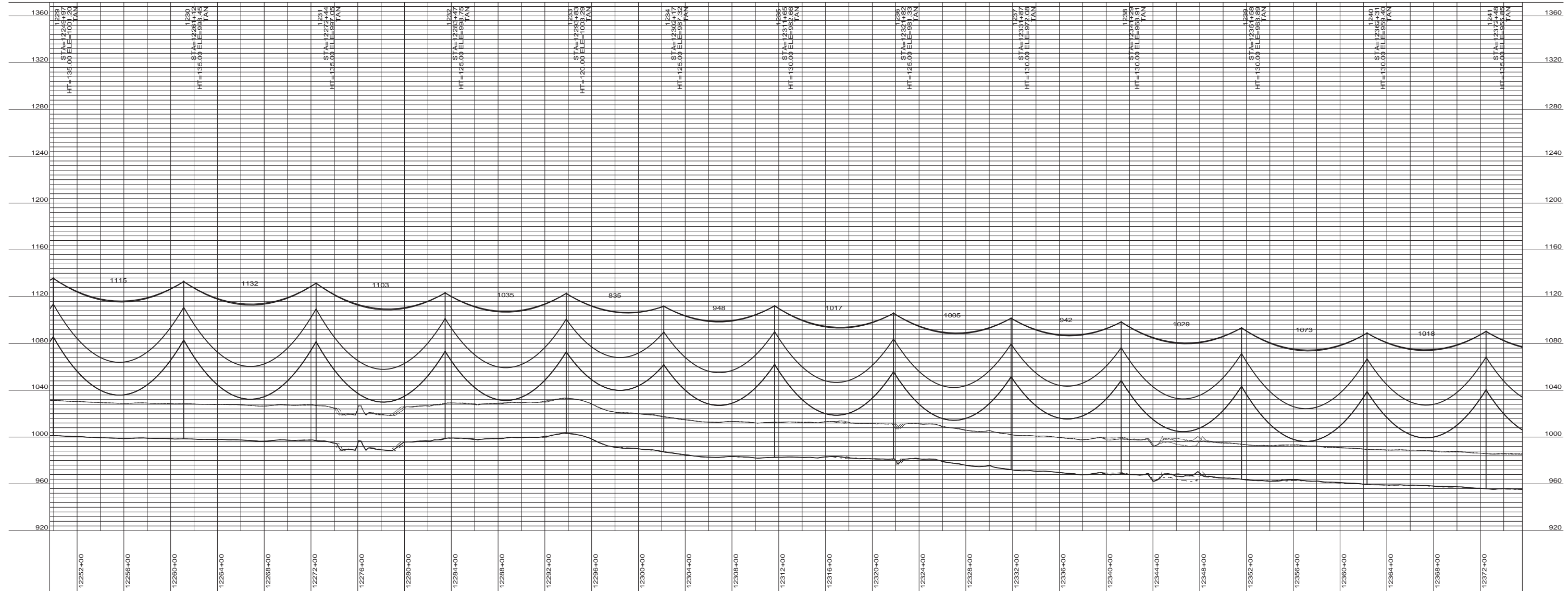
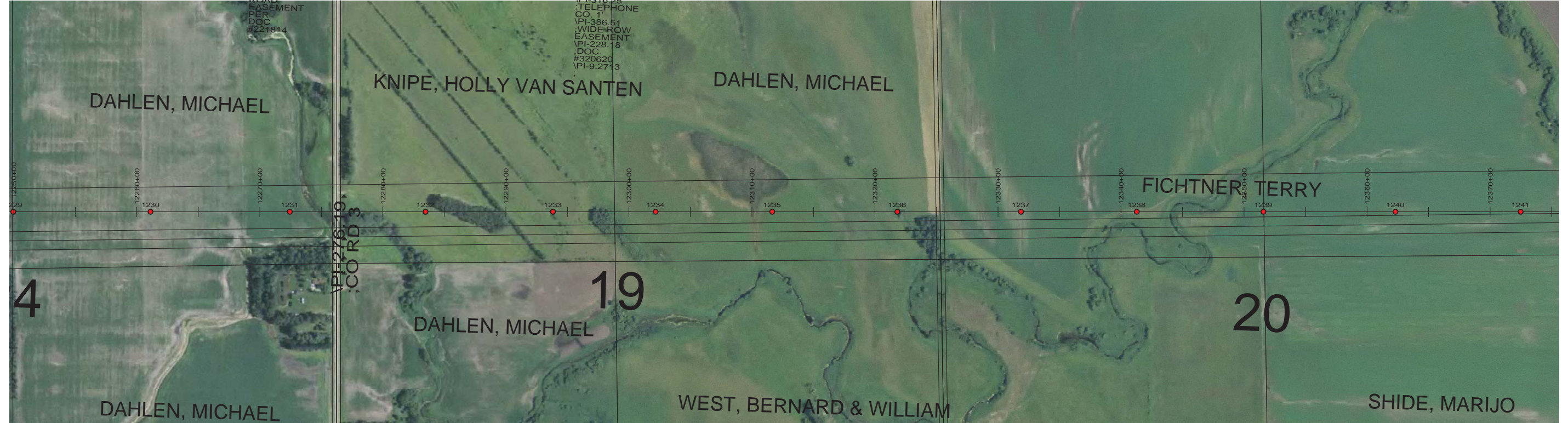
GRAND FORKS COUNTY

400.0 FT. HORIZ. SCALE
 40.0 FT. VERT. SCALE



55-PP-GF000-012

PRELIMINARY



DESIGN CONDITIONS:
 SHIELD _____
 20% RTS @ -20 DEGREES F, INITIAL CLEARANCE LINE: XX'

CONDUCTOR _____
 20% RTS @ -20 DEGREES F, INITIAL

REV	DATE	APP	DESCRIPTION	DFTR

8000 S. CHESTER STREET
 SUITE 500
 CENTENNIAL, CO 80112

A STANLEY GROUP COMPANY
 ENGINEERING, ENVIRONMENTAL AND
 CONSTRUCTION SERVICES - WORLDWIDE

DESIGNED _____
 DRAWN _____
 CHECKED _____
 APPROVED _____
 DATE 11/14/2011

Center to Grand Forks Project

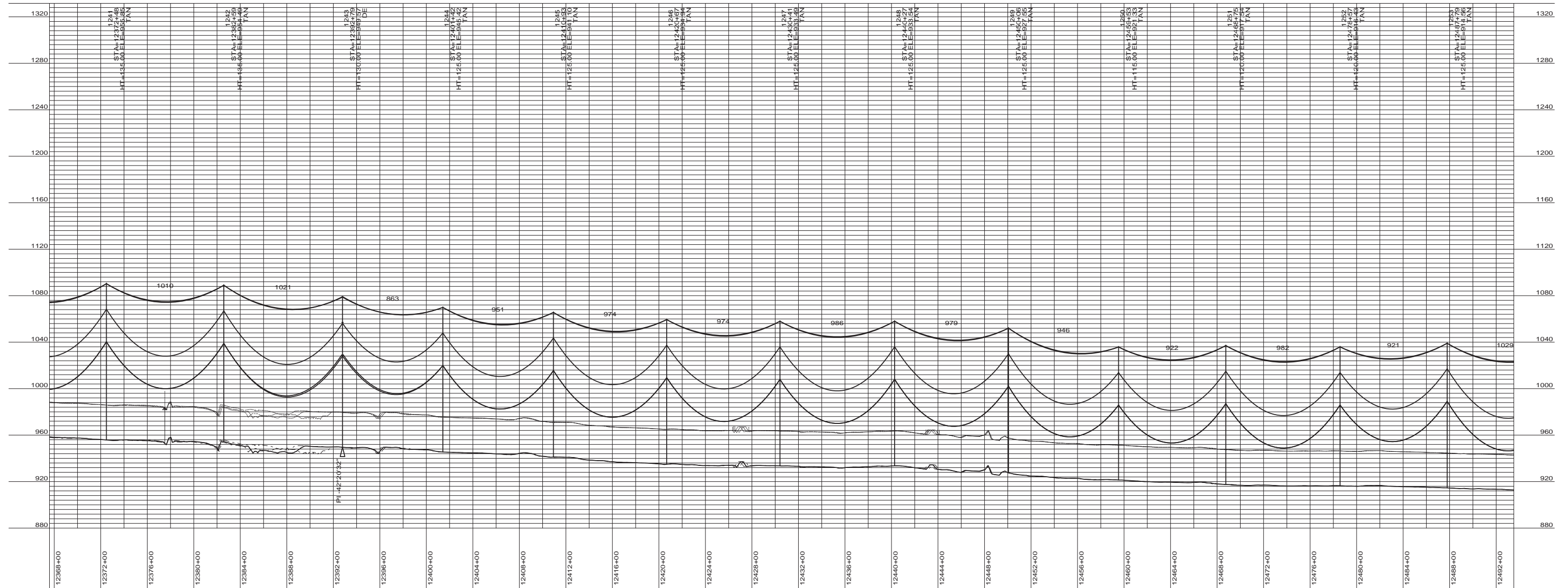
COOPERATIVE, INC.

GRAND FORKS COUNTY

400.0 FT. HORIZ. SCALE
 40.0 FT. VERT. SCALE

55-PP-GF000-013

PRELIMINARY



DESIGN CONDITIONS:
 SHIELD _____
 20% RTS @ -20 DEGREES F, INITIAL CLEARANCE LINE: XX'
 CONDUCTOR _____
 20% RTS @ -20 DEGREES F, INITIAL

REV	DATE	APP	DESCRIPTION	DFTR

Stanley Consultants INC.
 8000 S. CHESTER STREET
 SUITE 500
 CENTENNIAL, CO 80112

A STANLEY GROUP COMPANY
 ENGINEERING, ENVIRONMENTAL AND
 CONSTRUCTION SERVICES - WORLDWIDE

DESIGNED _____
 DRAWN _____
 CHECKED _____
 APPROVED _____
 DATE 11/14/2011

Center to Grand Forks Project

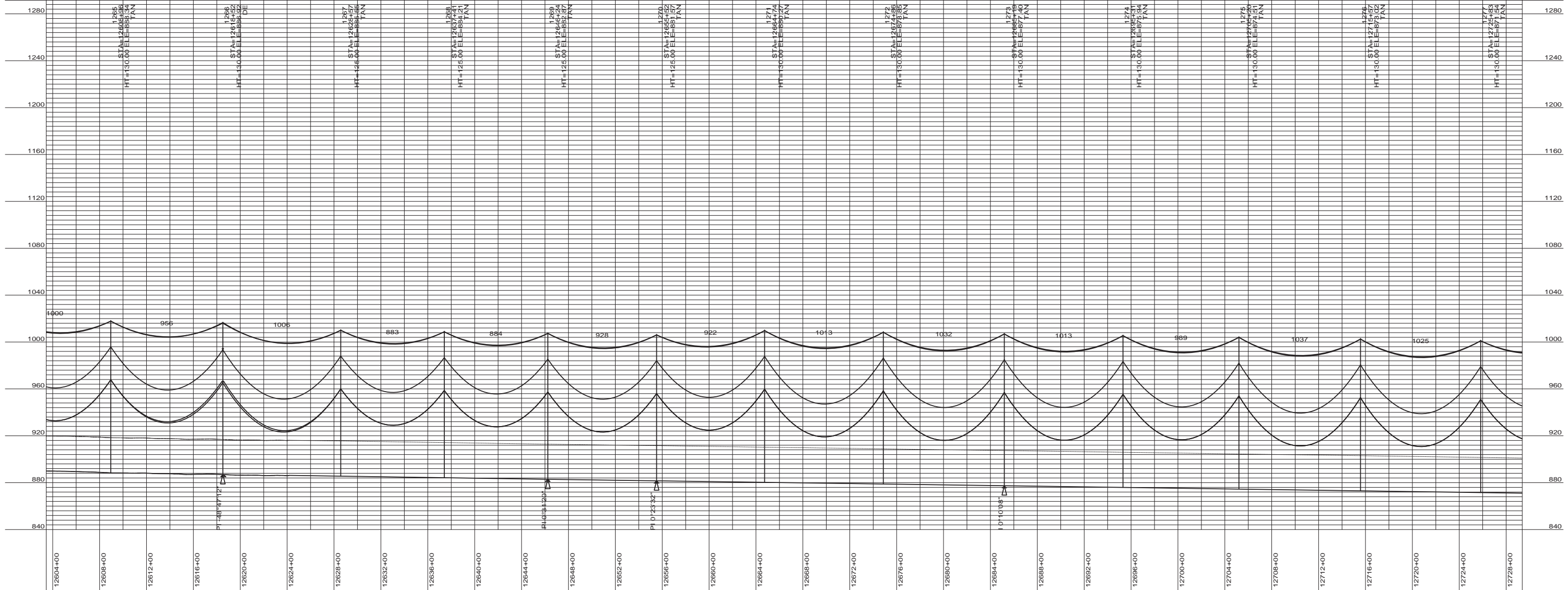
Minnkota Power
 COOPERATIVE, INC.

GRAND FORKS COUNTY

400.0 FT. HORIZ. SCALE
 40.0 FT. VERT. SCALE

55-PP-GF000-014

PRELIMINARY



DESIGN CONDITIONS:
 SHIELD _____
 20% RTS @ -20 DEGREES F, INITIAL CLEARANCE LINE: XX'
 CONDUCTOR _____
 20% RTS @ -20 DEGREES F, INITIAL

REV	DATE	APP	DESCRIPTION	DFTR

8000 S. CHESTER STREET
 SUITE 500
 CENTENNIAL, CO 80112

A STANLEY GROUP COMPANY
 ENGINEERING, ENVIRONMENTAL AND
 CONSTRUCTION SERVICES - WORLDWIDE

DESIGNED _____
 DRAWN _____
 CHECKED _____
 APPROVED _____
 DATE 11/14/2011

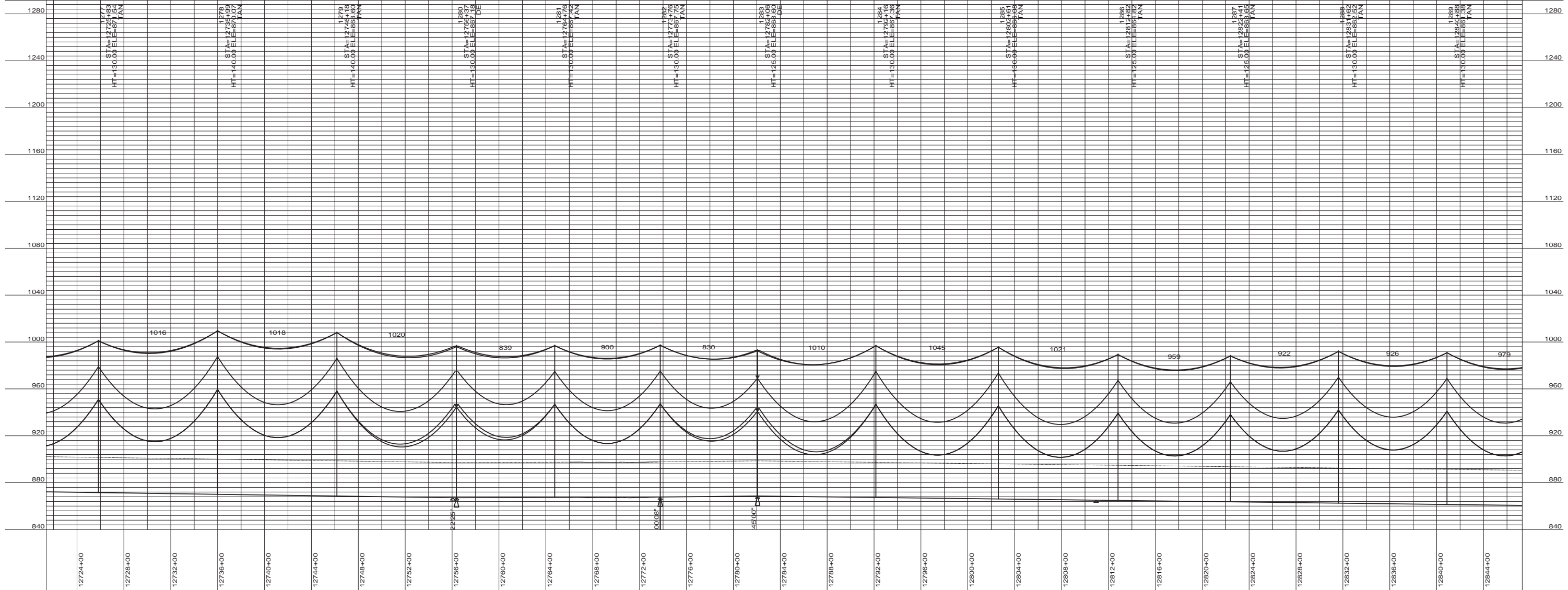
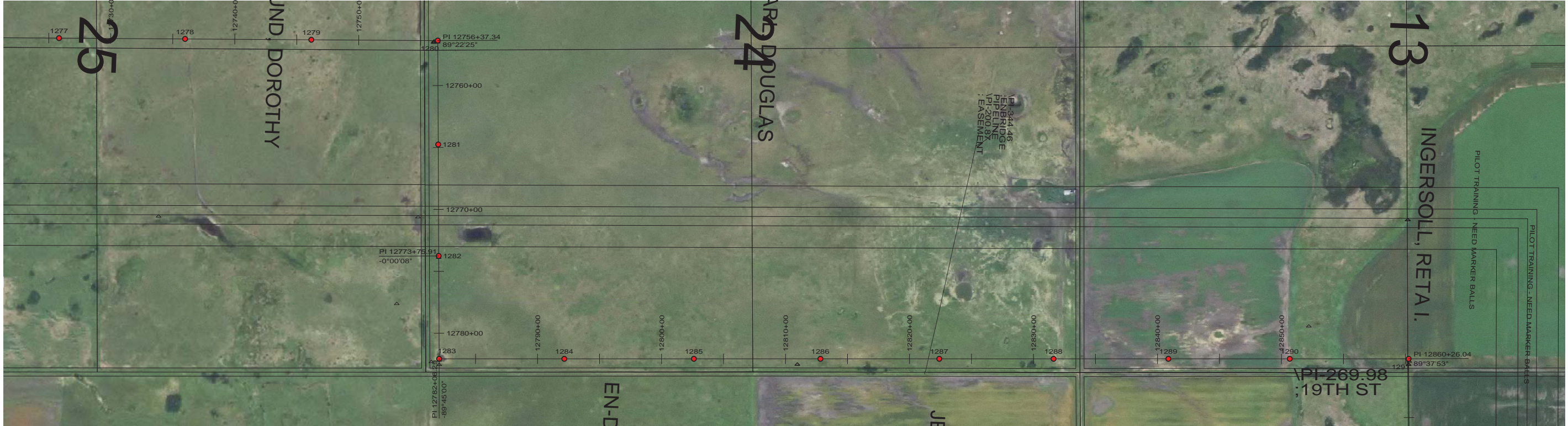
Center to Grand Forks Project

GRAND FORKS COUNTY

400.0 FT. HORIZ. SCALE
 40.0 FT. VERT. SCALE

55-PP-GF00-016

PRELIMINARY



DESIGN CONDITIONS:
 SHIELD _____
 20% RTS @ -20 DEGREES F, INITIAL CLEARANCE LINE: XX'
 CONDUCTOR _____
 20% RTS @ -20 DEGREES F, INITIAL

Stanley Consultants INC.
 8000 S. CHESTER STREET
 SUITE 500
 CENTENNIAL, CO 80112
 A STANLEY GROUP COMPANY
 ENGINEERING, ENVIRONMENTAL AND
 CONSTRUCTION SERVICES - WORLDWIDE

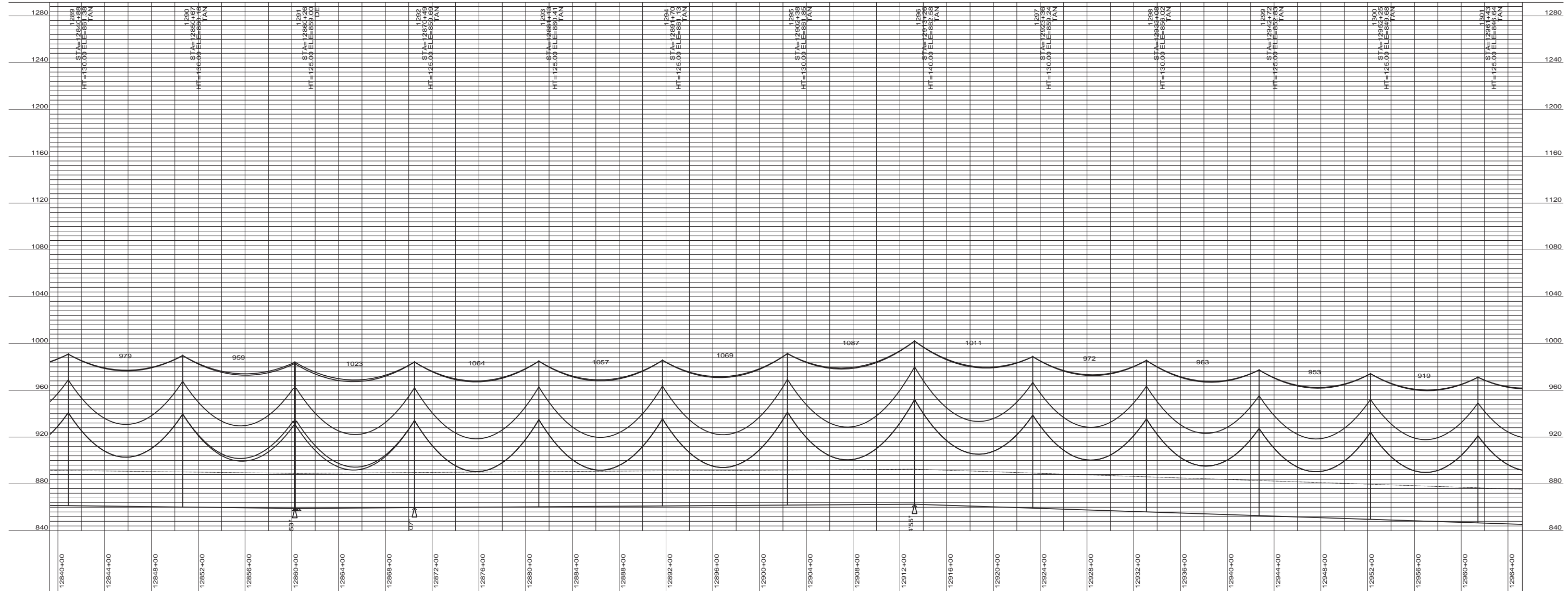
DESIGNED _____
 DRAWN _____
 CHECKED _____
 APPROVED _____
 DATE 11/14/2011

Center to Grand Forks Project
Minnkota Power
 COOPERATIVE, INC.

GRAND FORKS COUNTY
 400.0 FT. HORIZ. SCALE
 40.0 FT. VERT. SCALE
 55-PP-GF000-017

REV	DATE	APP	DESCRIPTION	DFTR

PRELIMINARY



DESIGN CONDITIONS:
 SHIELD _____
 20% RTS @ -20 DEGREES F, INITIAL CLEARANCE LINE: XX'
 CONDUCTOR _____
 20% RTS @ -20 DEGREES F, INITIAL

REV	DATE	APP	DESCRIPTION	DFTR



Stanley Consultants INC
 8000 S. CHESTER STREET
 SUITE 500
 CENTENNIAL, CO 80112

A STANLEY GROUP COMPANY
 ENGINEERING, ENVIRONMENTAL AND
 CONSTRUCTION SERVICES - WORLDWIDE

DESIGNED XXXXX
 DRAWN XXXXX
 CHECKED XXXXX
 APPROVED XXXXX
 DATE 11/14/2011


Center to Grand Forks Project



COOPERATIVE, INC.

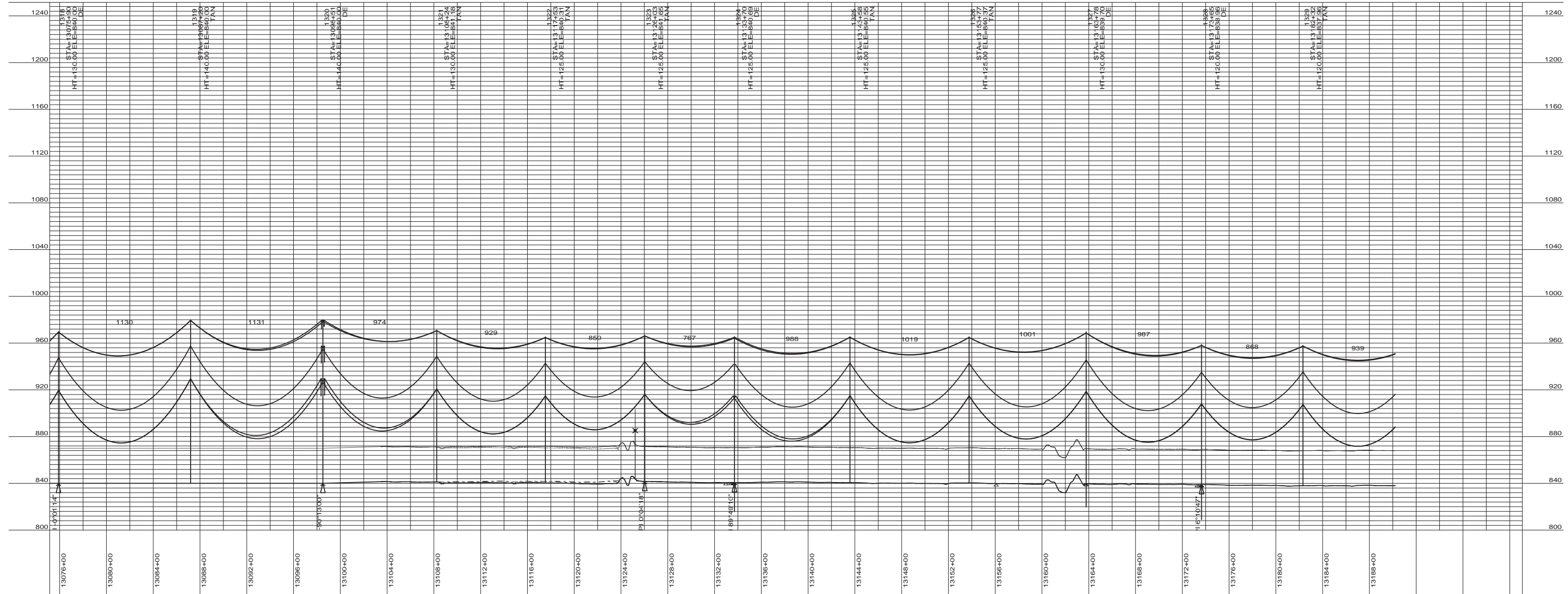
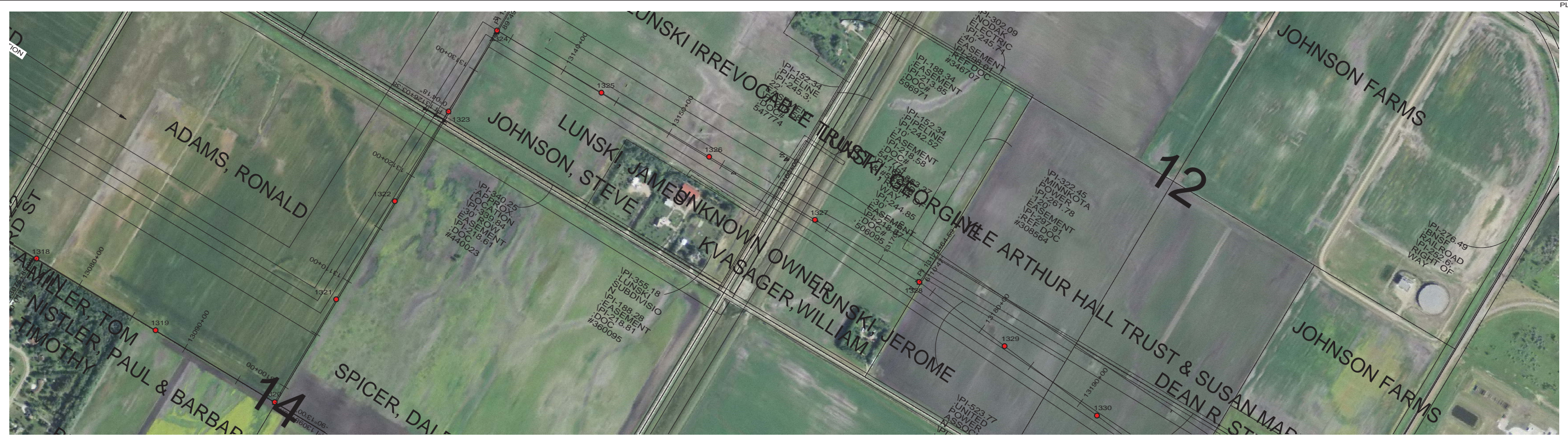
GRAND FORKS COUNTY

400.0 FT. HORIZ. SCALE
 40.0 FT. VERT. SCALE



55-PP-GF000-018

PRELIMINARY



DESIGN CONDITIONS:
 SHIELD _____
 20% RTS @ -20 DEGREES F, INITIAL CLEARANCE LINE: XX'

CONDUCTOR _____
 20% RTS @ -20 DEGREES F, INITIAL

REV	DATE	APP	DESCRIPTION	DFTR

8000 S. CHESTER STREET
 SUITE 500
 CENTENNIAL, CO 80112

A STANLEY GROUP COMPANY
 ENGINEERING, ENVIRONMENTAL AND
 CONSTRUCTION SERVICES - WORLDWIDE

DESIGNED _____
 DRAWN _____
 CHECKED _____
 APPROVED _____
 DATE 11/14/2011

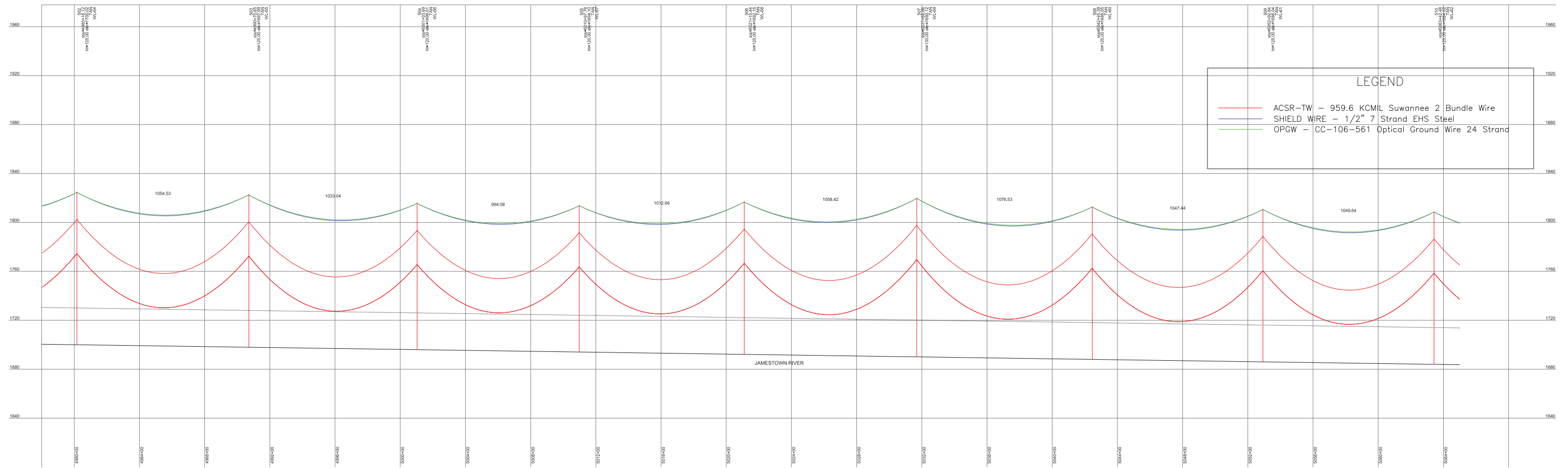
Center to Grand Forks Project

GRAND FORKS COUNTY

400.0 FT. HORIZ. SCALE
 40.0 FT. VERT. SCALE

55-PP-GF000-020

PRELIMINARY



DESIGN CONDITIONS:
 SHIELD 20% RTS @ -20 DEGREES F, INITIAL CLEARANCE LINE: XX'
 CONDUCTOR 20% RTS @ -20 DEGREES F, INITIAL CLEARANCE LINE: XX'

REV	DATE	APP	DESCRIPTION	DFTR

8000 S. CHESTER STREET
 SUITE 500
 CENTENNIAL, CO 80112

A Stanley Group Company
 Engineering, Environmental and
 Construction Services - Worldwide

DESIGNED	XXXXX
DRAWN	XXXXX
CHECKED	XXXXX
APPROVED	XXXXX
APPROVED	
DATE	07/14/10

Center to Grand Forks Project

COOPERATIVE, INC.

Wells County

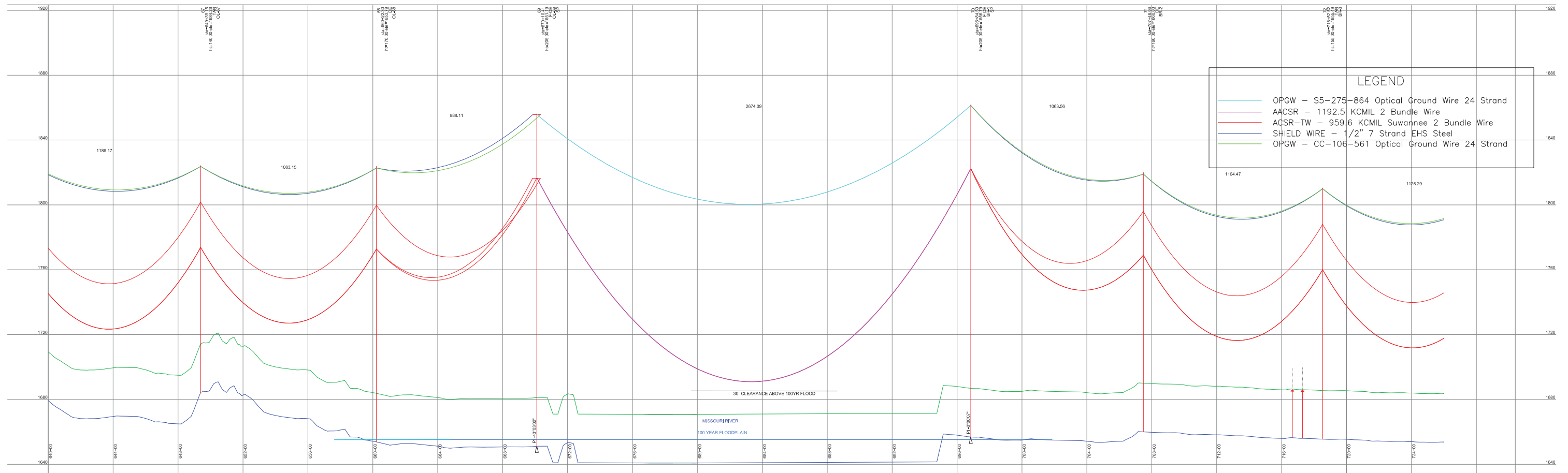
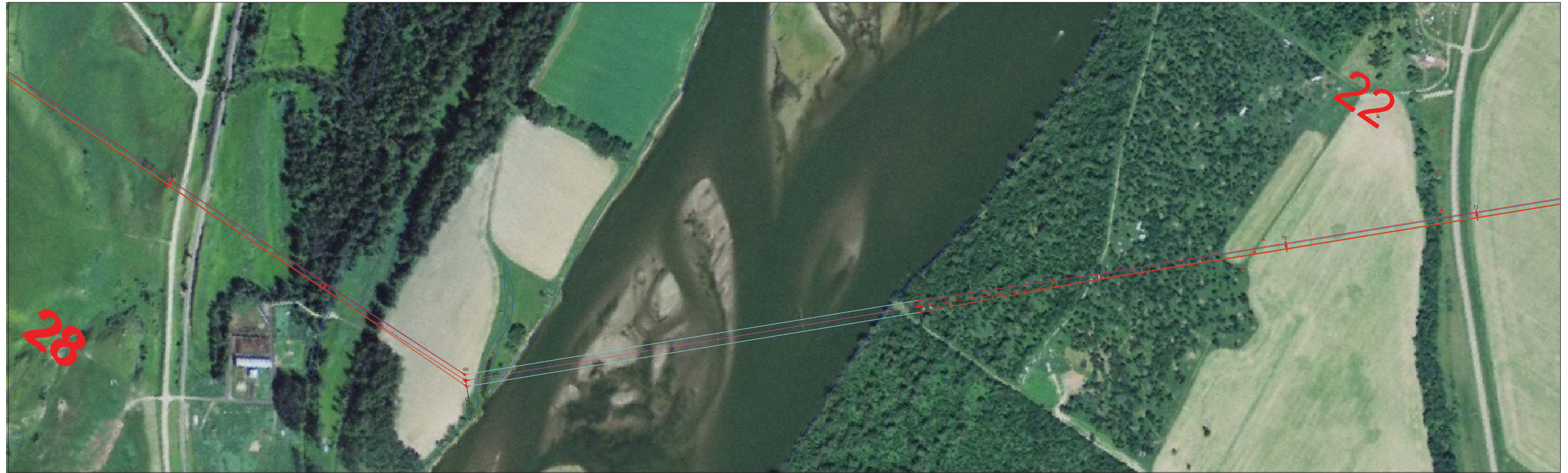
300.0 ft. Horiz. Scale

40.0 ft. Vert. Scale

N

55-PP-WL000-001

PRELIMINARY



DESIGN CONDITIONS:
SHIELD 20% RTS @ -20 DEGREES F, INITIAL CLEARANCE LINE: XX'

CONDUCTOR 20% RTS @ -20 DEGREES F, INITIAL

REV	DATE	APP	DESCRIPTION	DFTR

Stanley Consultants INC.
8000 S. CHESTER STREET
SUITE 500
CENTENNIAL, CO 80112

A Stanley Group Company
Engineering, Environmental and
Construction Services - Worldwide

DESIGNED: XXXXX
DRAWN: XXXXX
CHECKED: XXXXX
APPROVED: XXXXX
APPROVED: XXXXX
DATE: 07/14/10

Center to Grand Forks Project

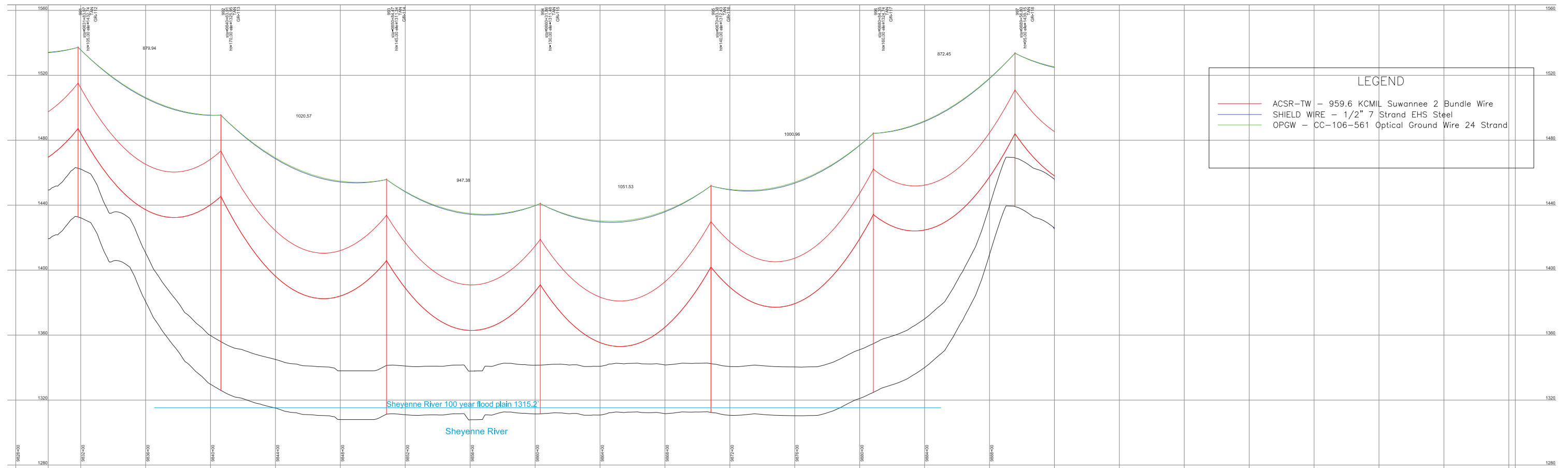
Minnkota Power
COOPERATIVE, INC.

Oliver-Burleigh County

300.0 ft. Horiz. Scale
30.0 ft. Vert. Scale

55-PP-OL000-001

PRELIMINARY



LEGEND

- ACSR-TW - 959.6 KCMIL Suwannee 2 Bundle Wire
- SHIELD WIRE - 1/2" 7 Strand EHS Steel
- OPGW - CC-106-561 Optical Ground Wire 24 Strand

DESIGN CONDITIONS:
 SHIELD 20% RTS @ -20 DEGREES F, INITIAL CLEARANCE LINE: 'XX'
 CONDUCTOR 20% RTS @ -20 DEGREES F, INITIAL CLEARANCE LINE: 'XX'

REV	DATE	APP	DESCRIPTION	DFTR



Stanley Consultants INC.
 A Stanley Group Company
 Engineering, Environmental and Construction Services - Worldwide

8000 S. CHESTER STREET
 SUITE 500
 CENTENNIAL, CO 80112

DESIGNED XXXXX
 DRAWN XXXXX
 CHECKED XXXXX
 APPROVED XXXXX
 APPROVED XXXXX
 DATE 07/14/10


Center to Grand Forks Project



Minnkota Power
 COOPERATIVE, INC.

Griggs County

300.0 ft. Horiz. Scale
 30.0 ft. Vert. Scale



55-PP-GR000-001