

DESIGN DATA				
Traffic	Average Daily			
Current 2020	Pass: 170	Trucks: 10	Total: 180	
Forecast 2040	Pass: 190	Trucks: 15	Total: 205	
Clear Zone Distance: 26'		Design Speed: 65 mph		
Minimum Sight Dist. for Stopping: 645'		Bridges:		
Sight Dist. for No Passing Zone: 1100'				
Pavement Design Life (years)				
Design Accumulated One-way		ESALs:		

JOB #

STANDING ROCK SIOUX TRIBE

SIOUX COUNTY, NORTH DAKOTA

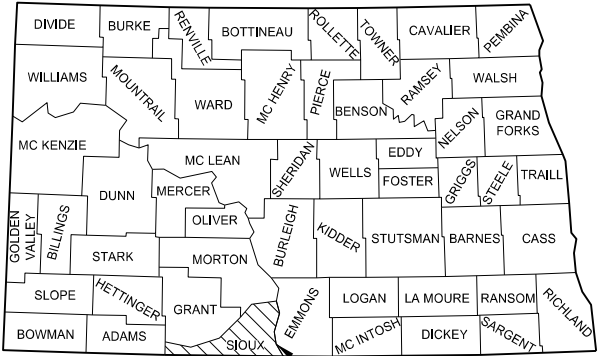
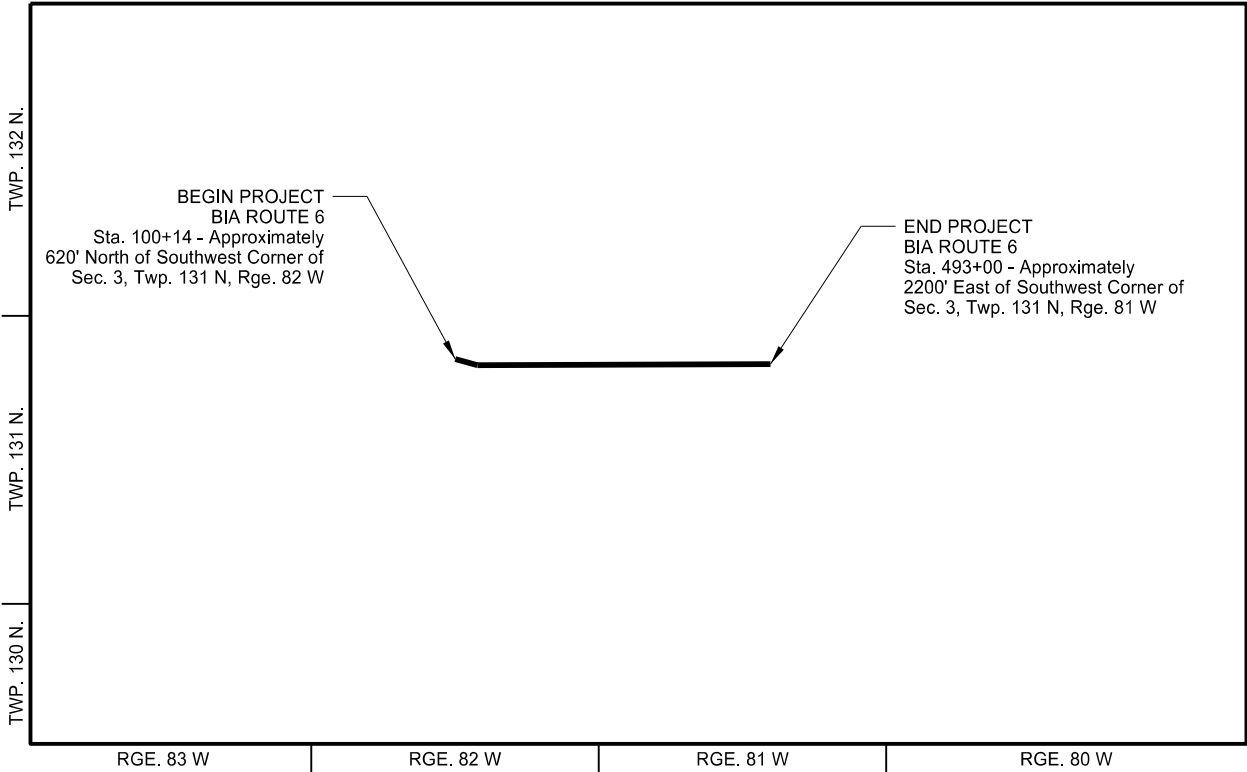
BIA Project No. PCAS xxxxxx
KLJ Project No. 1811-02480

Sioux County
BIA 6
ND 6 to ND 1806
Pavement Reconstruction
Asphalt Pavement Reconstruction, Grading, Striping & Incidentals

	STATE	PROJECT NO.	PCN	SECTION NO.	SHEET NO.
	ND	project number	PCN	1	1

GOVERNING SPECIFICATIONS	Date Published and Adopted by the North Dakota Department of Transportation
Standard Specifications	10/1/2020
Supplemental Specifications	NONE

PROJECT NUMBER \ DESCRIPTION	NET MILES	GROSS MILES
PCAS xxxxxx	7.441	7.441



Project Location

STATE COUNTY MAP



STANDING ROCK SIOUX TRIBAL TRANSPORTATION PROGRAM		KLJ Engineering LLC
SUBMITTED FOR APPROVAL:		This document is preliminary and not for construction or implementation purposes.
_____ DIRECTOR, STANDING ROCK TRIBAL TRANS. PROGRAM		
_____ DATE		

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	PCAS	10	2

430 1000 CORED SAMPLE									
Roadway	Begin Station	End Station	Specification Section	A	B	C	D	Quantity (D x 2)	Unit
				Distance (Ft) /1000	Lanes	Lifts	Sublots (A x B x C)		
BIA Route 6	100+14	493+00	430.04 I.2.b(1), "General"	39	2	3	234	468	EA
TOTAL =								468	EA

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KLJ

BIA 6

Standing Rock Sioux Tribe

Sioux County, North Dakota

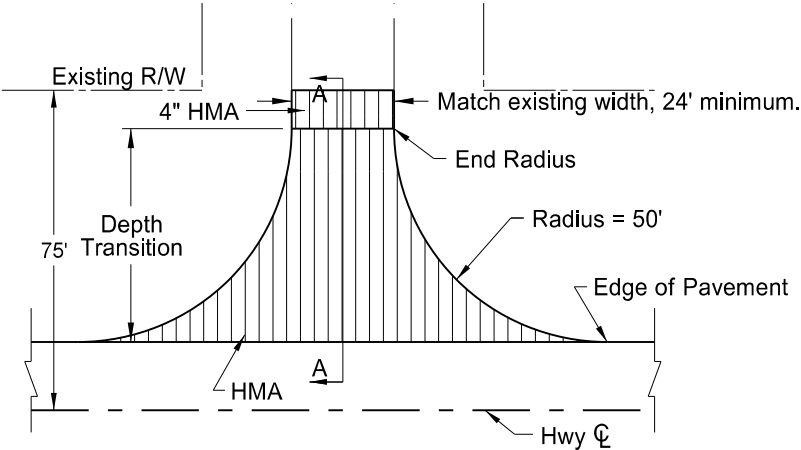
Basis of Estimate

Drawn By: KH

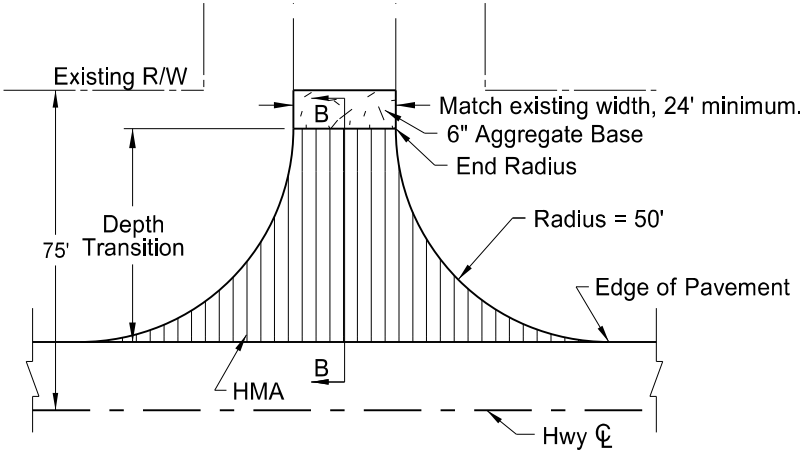
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Project No: 1811-02480

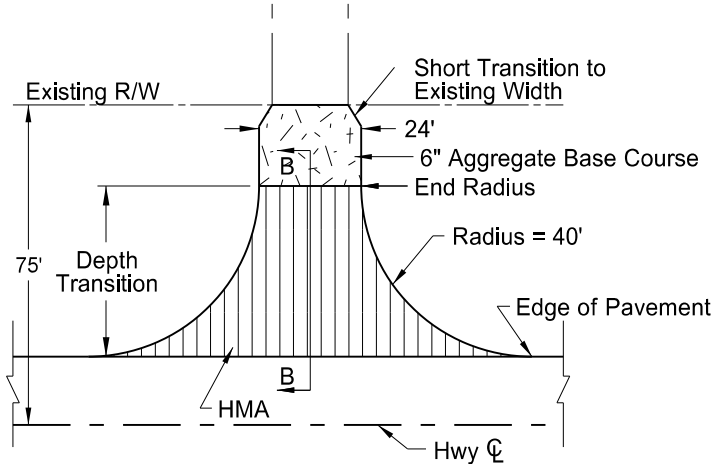
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	project number	20	2



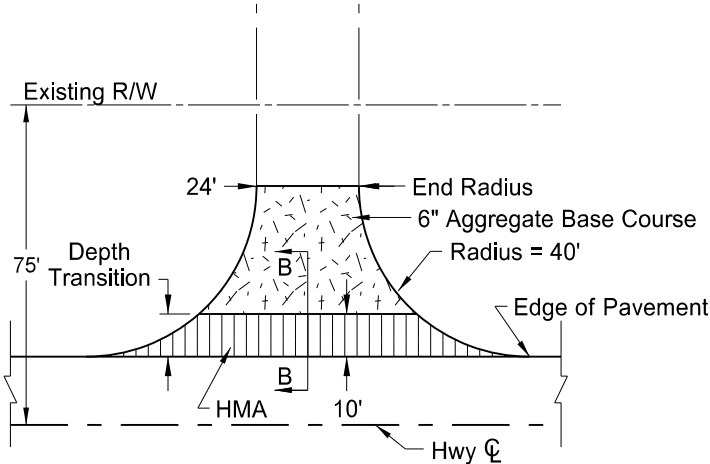
(1) Paved Section Line, County Road, or Street Approach



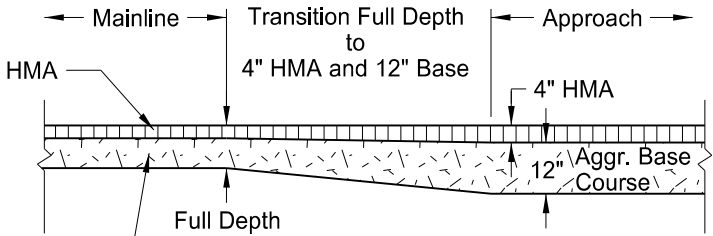
(2) Gravel Section Line, County Road, or Street Approach



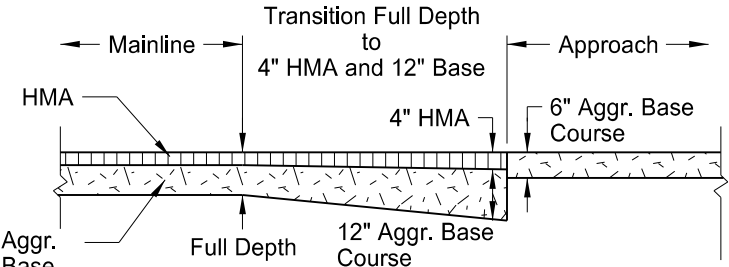
(3) Gravel Private Drive Approach



(4) Field Drive Approach



Section A-A
(not to scale)



Section B-B
(not to scale)

Notes:

1. Actual HMA paving and aggregate base course locations may vary in the field, as approved by the Engineer.
2. Quantity totals have been included in the bid items of the "Estimate of Quantities" of the plans.

BASIS OF ESTIMATE		(1)	(2)	(3)	(4)	TOTALS
ITEM	UNIT	Paved Section Line	Gravel Section Line	Gravel Private Drive	Field Drive	
Number of Locations	#	2	6	5	30	43
Aggregate Base Course CL 5	TON	726	283	211	127	8,015
Tack Coat	GAL	85.7	31.8	22.2	9.6	762
RAP - Superpave FAA 42	TON	191	71	49	21	1,683
PG 58S-34 Asphalt Cement	TON	11.5	4.2	2.9	1.3	102

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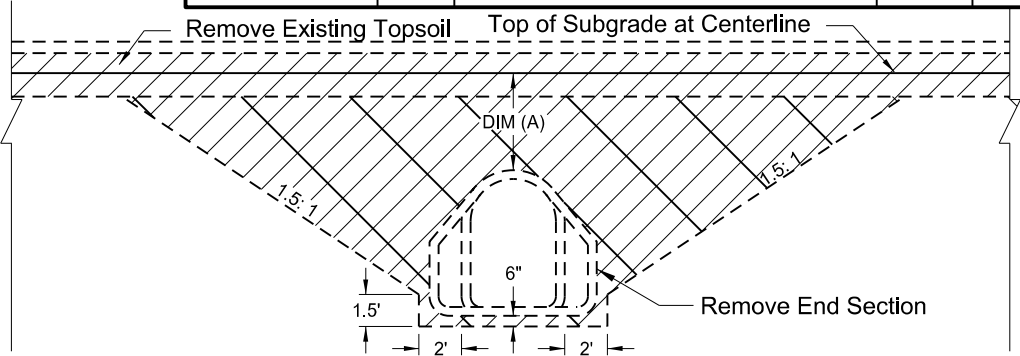


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Standing Rock Sioux Tribe
Sioux County, North Dakota

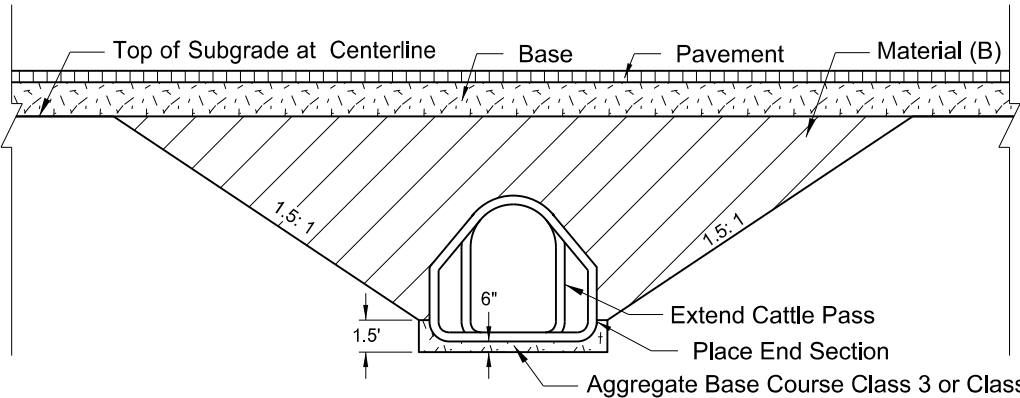
Approach Detail

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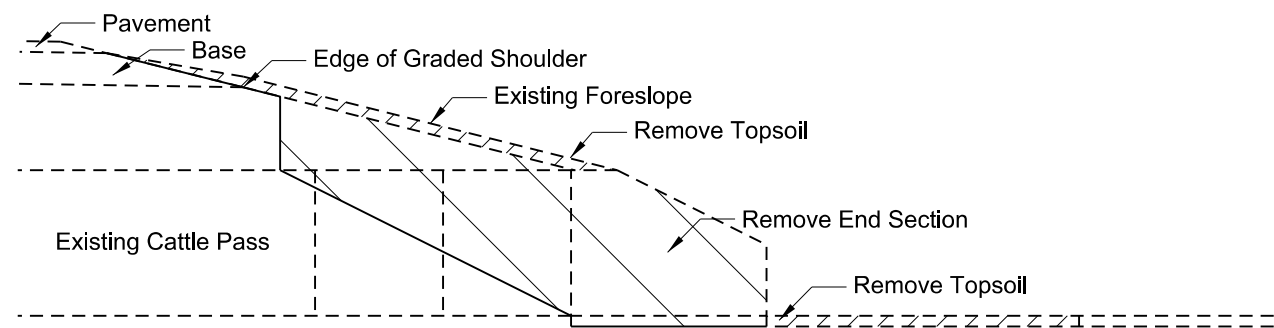
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	project number	20	4



REMOVAL DETAIL
Side View



BACKFILL DETAIL
Side View (Topsoil Not Shown)



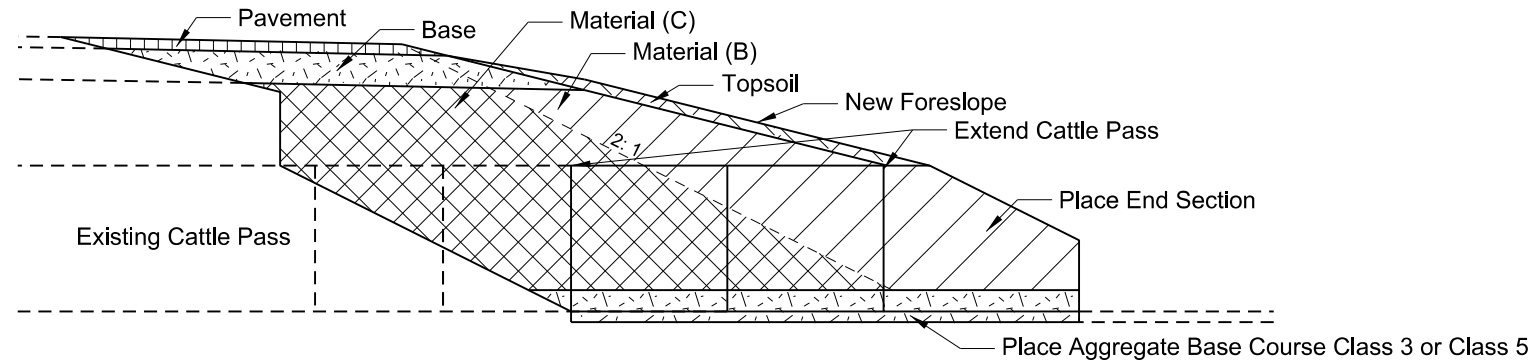
REMOVAL SECTION
Cross Section View

Pay Items

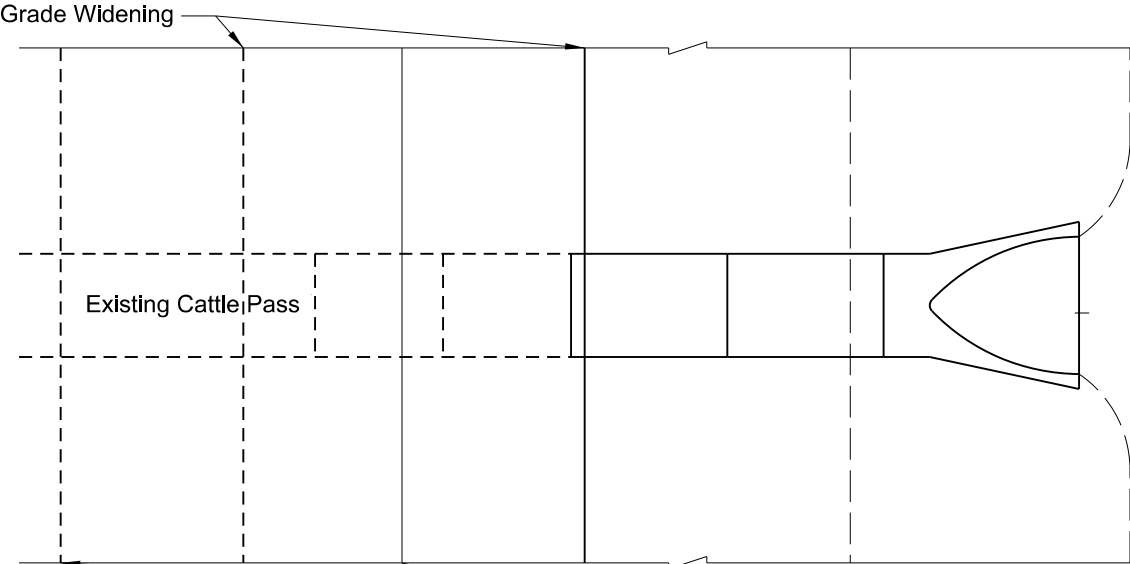
- 1) Cattle Pass Conc Intermed Section*
- 2) Remove and Relay Conc Cattle Pass (If Required)
- 3) Remove and Relay End Section or Remove End Section and Place New End Section
- 4) Borrow Excavation or Common Excavation
- 5) Topsoil
- 6) Seeding
- 7) Mulching

*Included in Cattle Pass Pay Item

- 1) Cattle Pass
- 2) Trench excavation
- 3) Aggregate Base Course Class 3 or Class 5



PROPOSED SECTION
Cross Section View



PROPOSED SECTION
Plan View

- NOTES:
- 1) Embankment may be either Borrow Excavation or Common Excavation
 - 2) Aggregate may be either Class 3 or Class 5 Aggregate Base Course.

Concrete Cattle Pass		
Dim (A)	Material (B)	Material (C)
< = 4 Feet	Embankment or Aggregate	Aggregate
> 4 Feet	Embankment	Embankment

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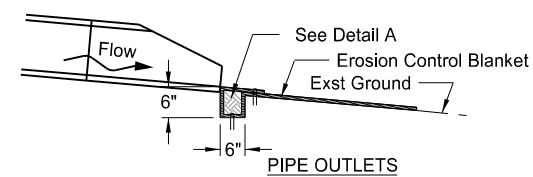
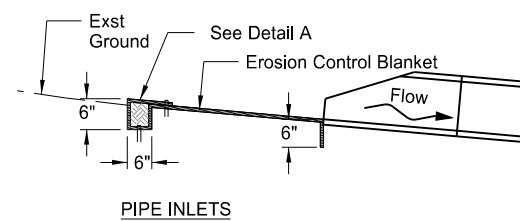
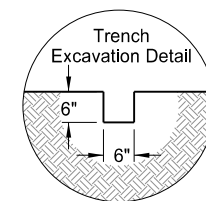
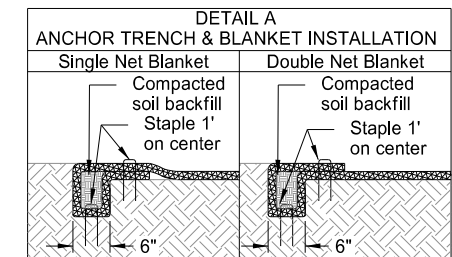
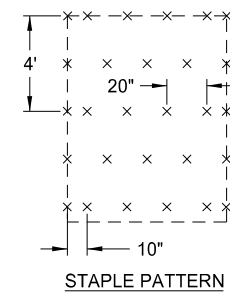
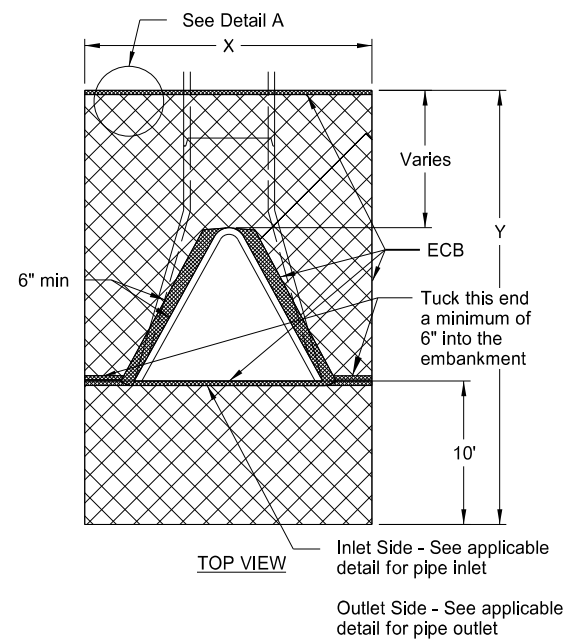
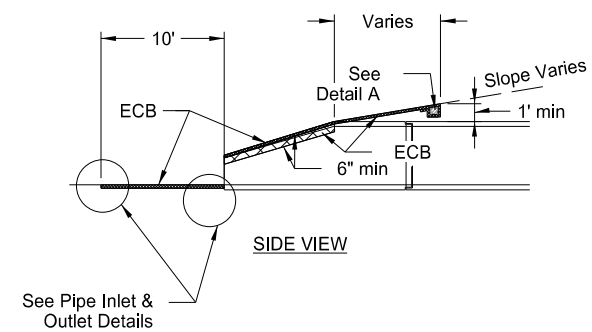
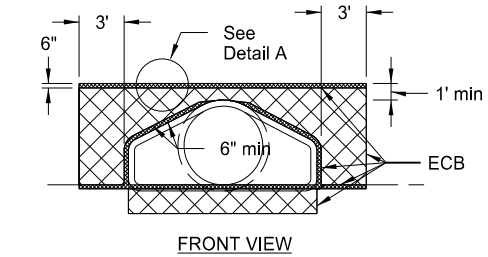
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Standing Rock Sioux Tribe
Sioux County, North Dakota

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**Cattle Pass Widening
Detail**

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	ND	project number	20	5



- Notes:
1. Quantities based on 4:1 inslopes for mainline culverts.
 2. Quantities based on 8:1 inslopes for approach culverts.
 3. Tuck the ECB a minimum of 6" into the embankment (against the flared end section) around the opening of the flared end section.

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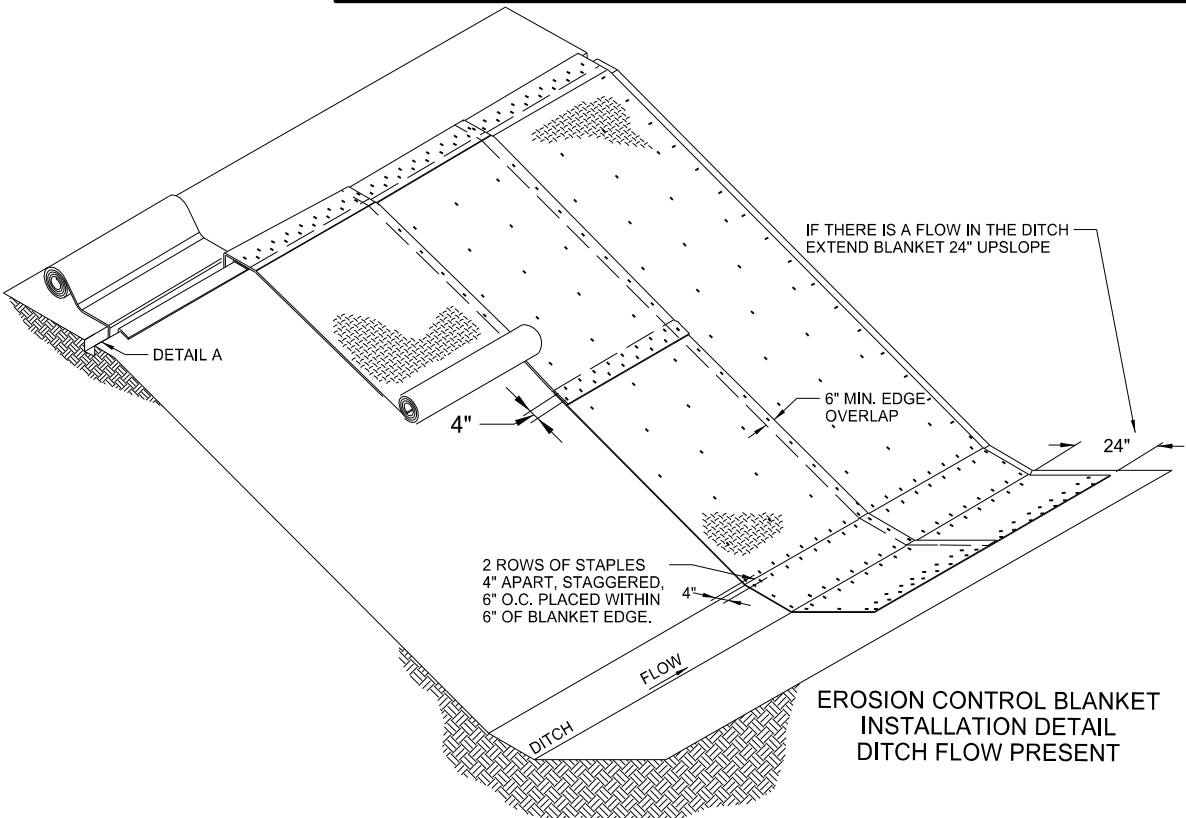
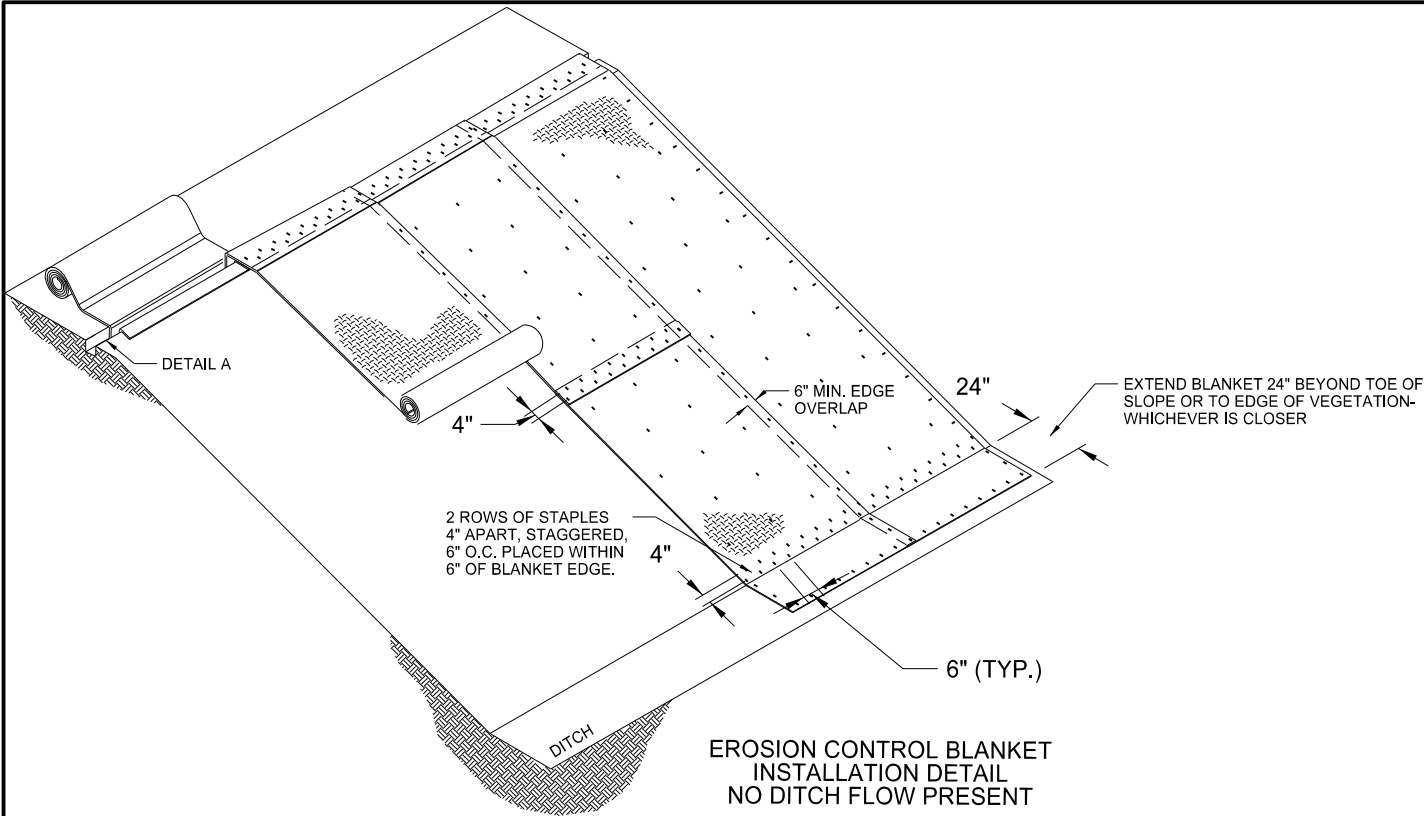


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Sioux County, North Dakota

Culvert End Protection
Detail

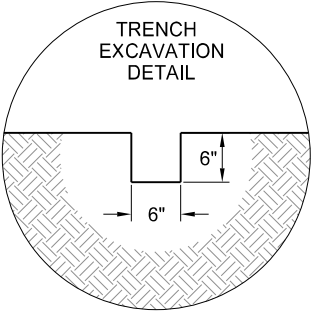
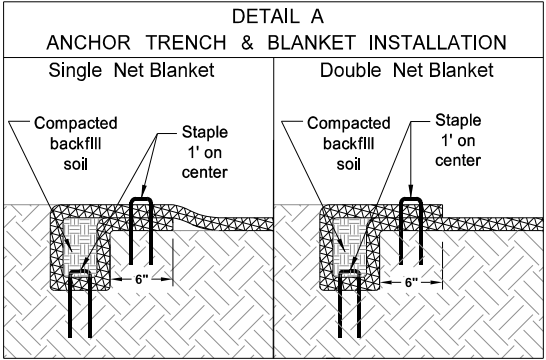
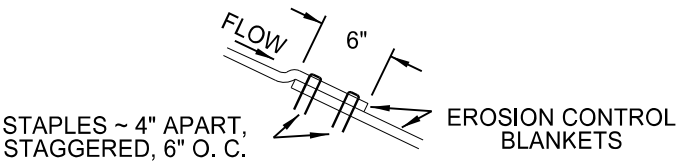
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PROJECT NO.: 1811-02480

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	project number	20	6

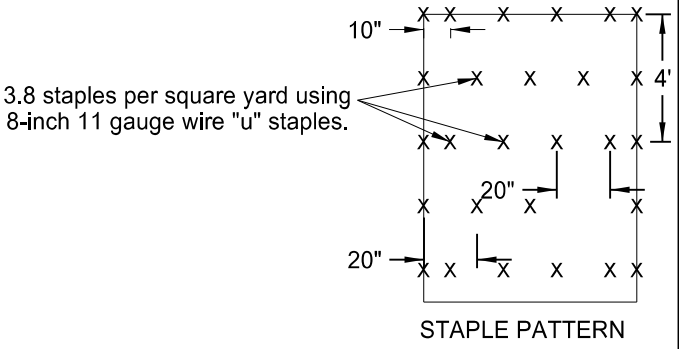
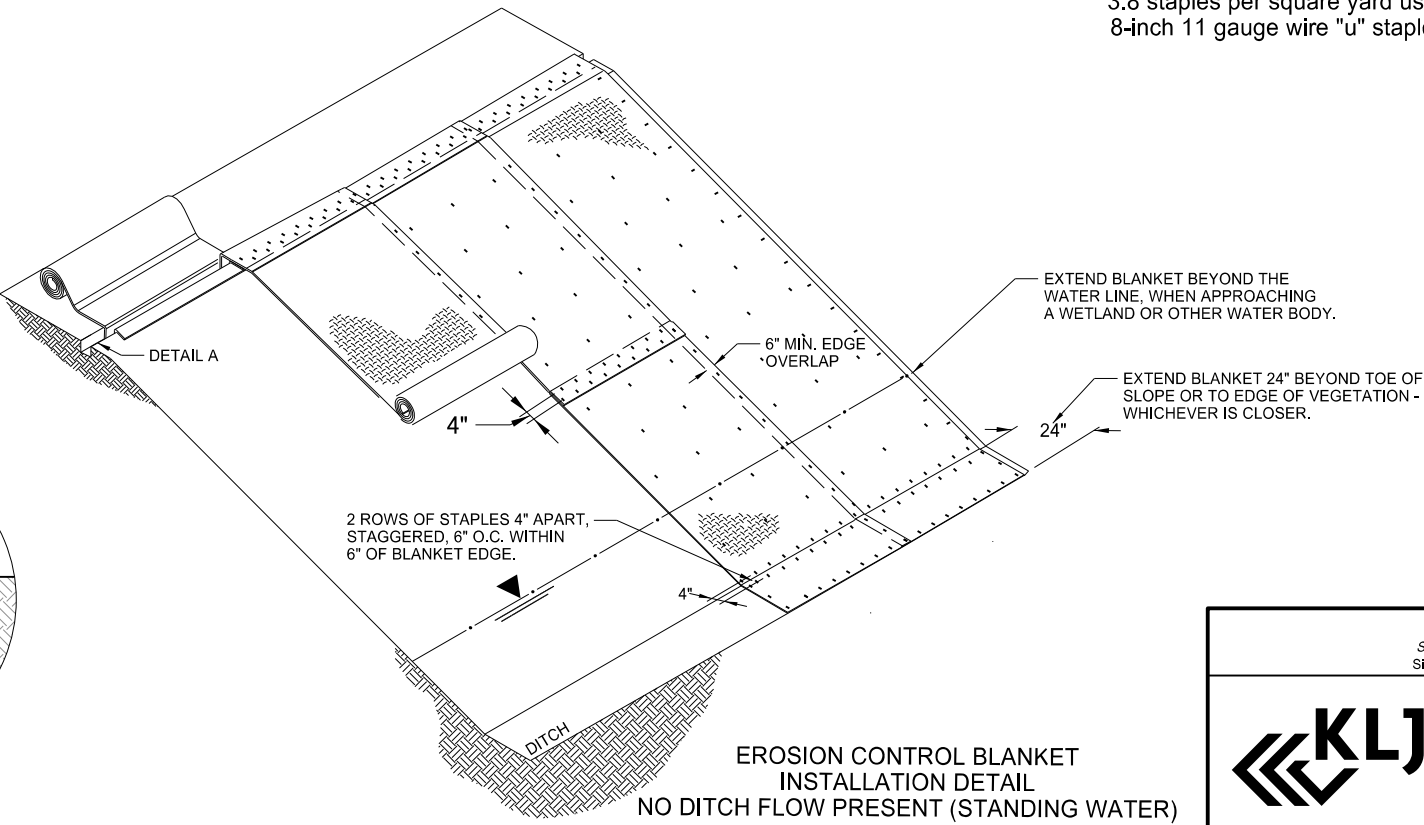


INSTALLATION STEPS:

1. Prepare smooth slope per spec. section 255
2. Amend soil and seed, as specified.
3. Dig anchor trench. Set aside native soil removed from trench.
4. Secure blanket in anchor trench, staking or stapling blanket as shown.
5. Replace native soil previously removed from trench.
6. Staple blanket as shown so there are no gaps between the blanket and the soil.
Staple while unrolling blanket to minimize walking on blanket.
7. Install splices a minimum 24 inches prior to toe of slope.



NOTE:
Install Single Net Blanket with netting on top of installed blanket.



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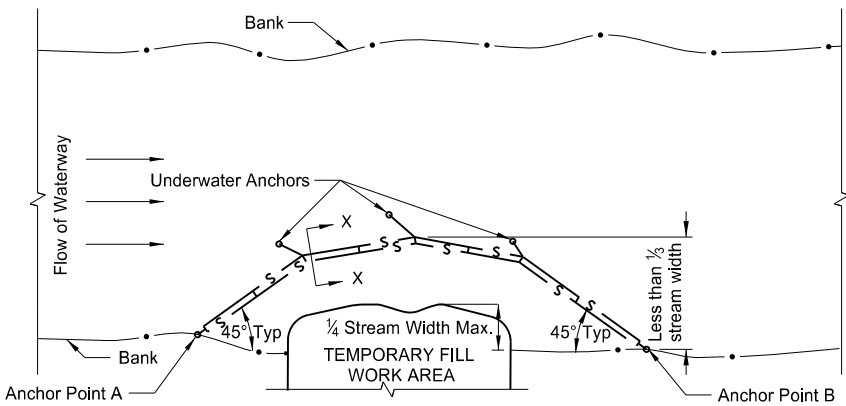
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Sioux County, North Dakota

**Erosion Control
On Slopes**

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PROJECT NO.: 1811-02480

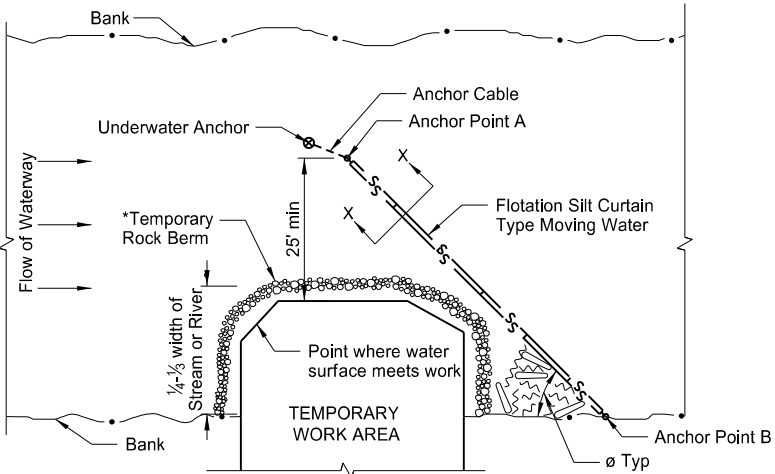
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	project number	20	7

TYPICAL INSTALLATIONS
May vary with conditions



PLAN VIEW
FLOTATION SILT CURTAIN - TYPE WORK AREA

DESIGN GUIDELINES:
When temporary work encroaches less than 1/4 of the width of stream.



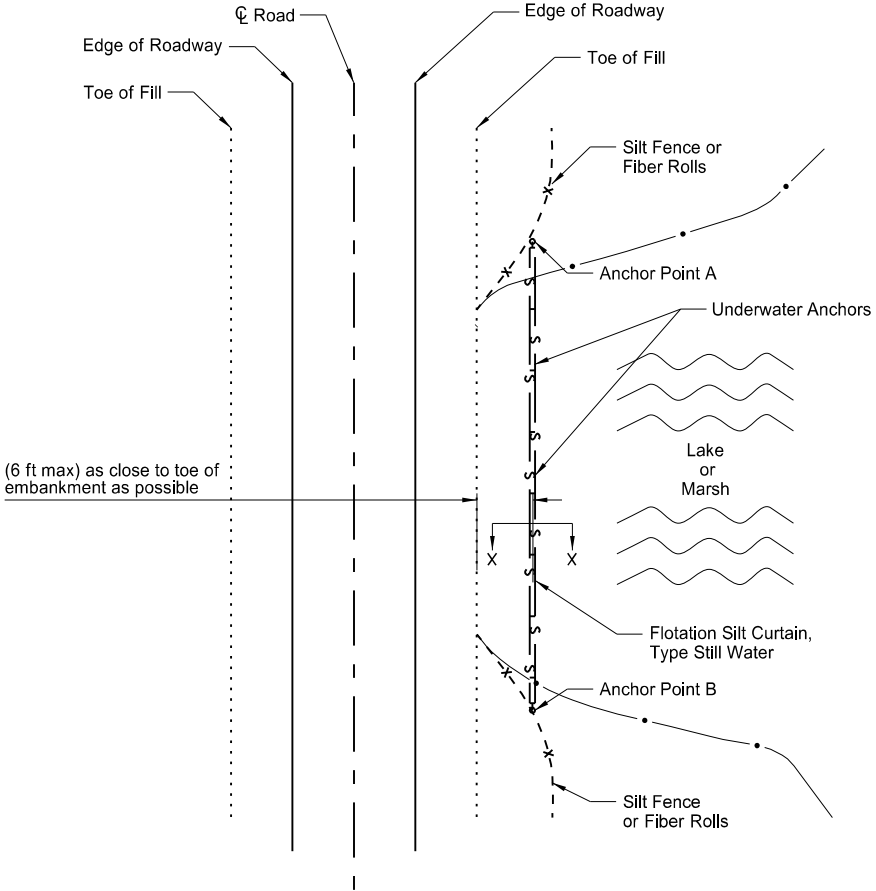
ø	WATER VELOCITY
45°	slow, less than 3 ft/sec
35°	moderate, 3 - 5 ft/sec

PLAN VIEW
FLOTATION SILT CURTAIN - TYPE MOVING WATER

DESIGN GUIDELINES:
When temporary work encroaches more than 1/4 but less than 1/3 width of the stream.

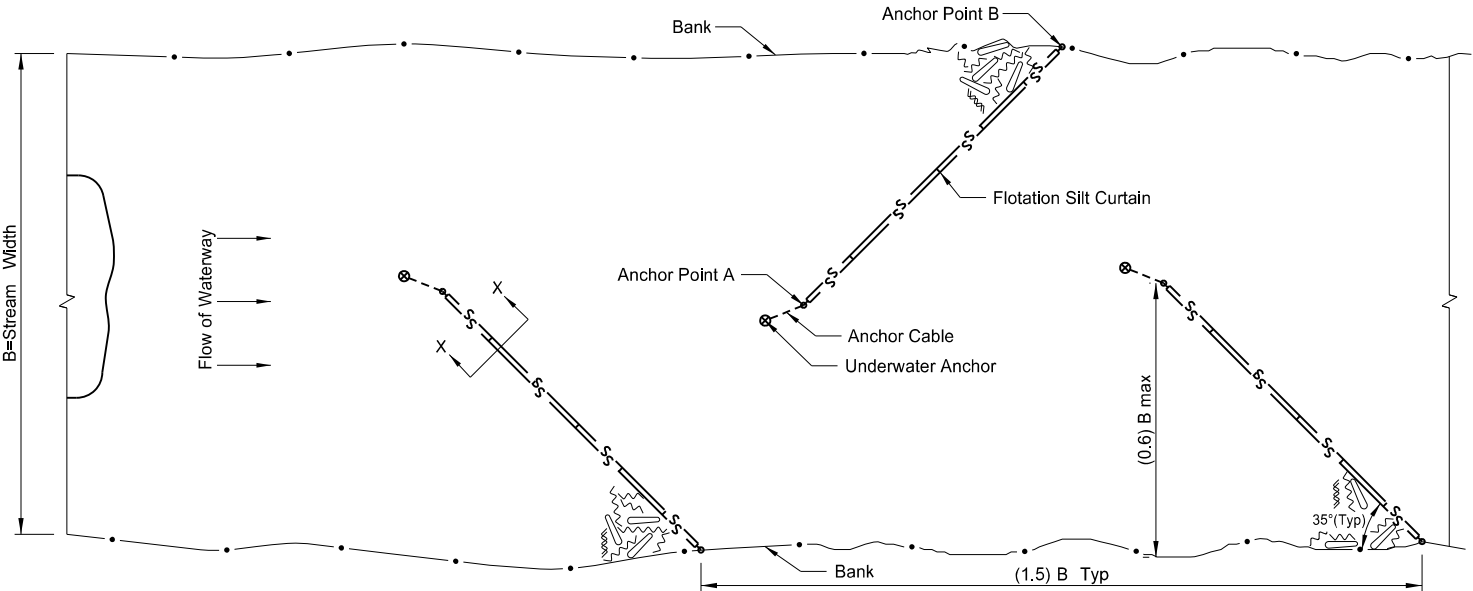
For narrow waterways, the curtain may be placed 1 foot above the bottom of waterway to allow water flow.

*In areas where the plans call for riprap at the bridge, provide a temporary rock berm. Include all costs for the temporary rock berm in price bid for the "Riprap".



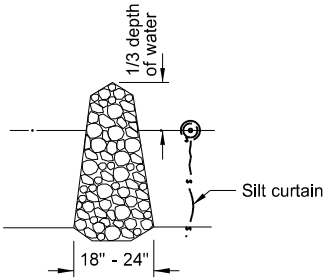
PLAN VIEW
FLOTATION SILT CURTAIN - TYPE STILL WATER

Extend silt curtain onto shore and anchor there also.

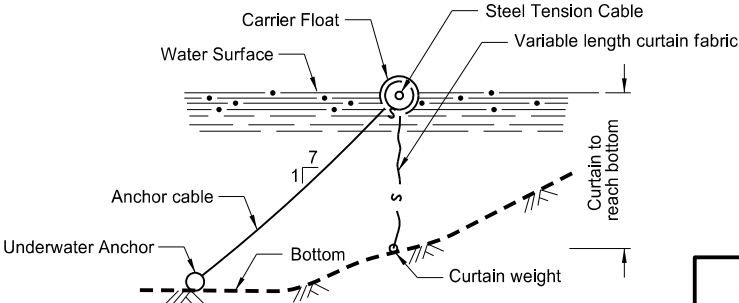


PLAN VIEW
FLOTATION SILT CURTAIN - TYPE HERRING BONE PATTERN

DESIGN GUIDELINES:
When temporary work encroaches more than 1/3 width of the stream
Or where stream width doesn't allow use of Type Moving Water



TEMPORARY ROCK BERM



SECTION X-X
FLOTATION SILT CURTAINS

Note:
Maximum water velocity for moving water = 5 ft/sec

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Sioux County, North Dakota

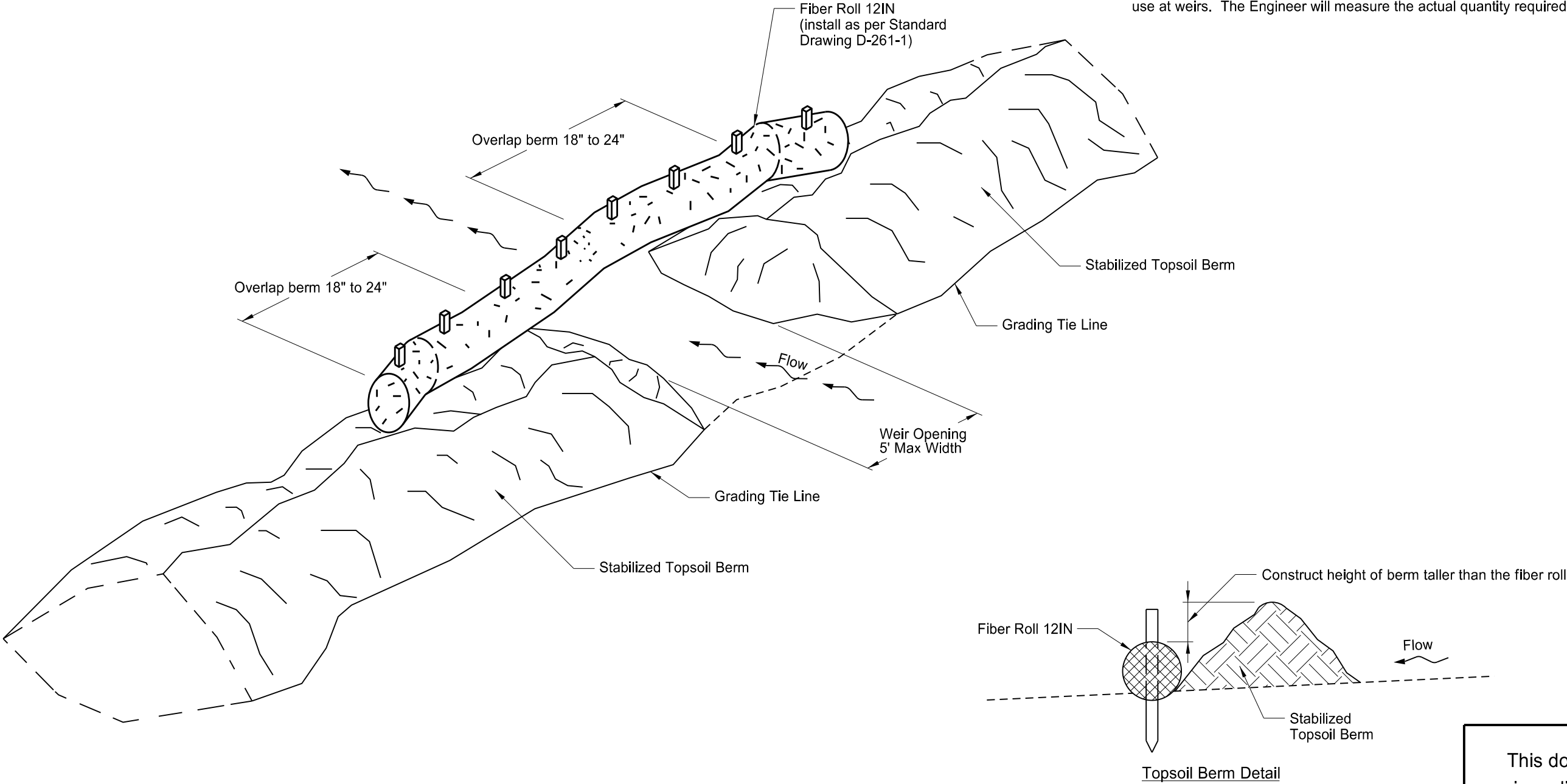


Silt Curtain
Detail

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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	project number	20	8

A quantity of 500 LF of Fiber Roll 12IN has been included in the quantities for use at weirs. The Engineer will measure the actual quantity required in the field.

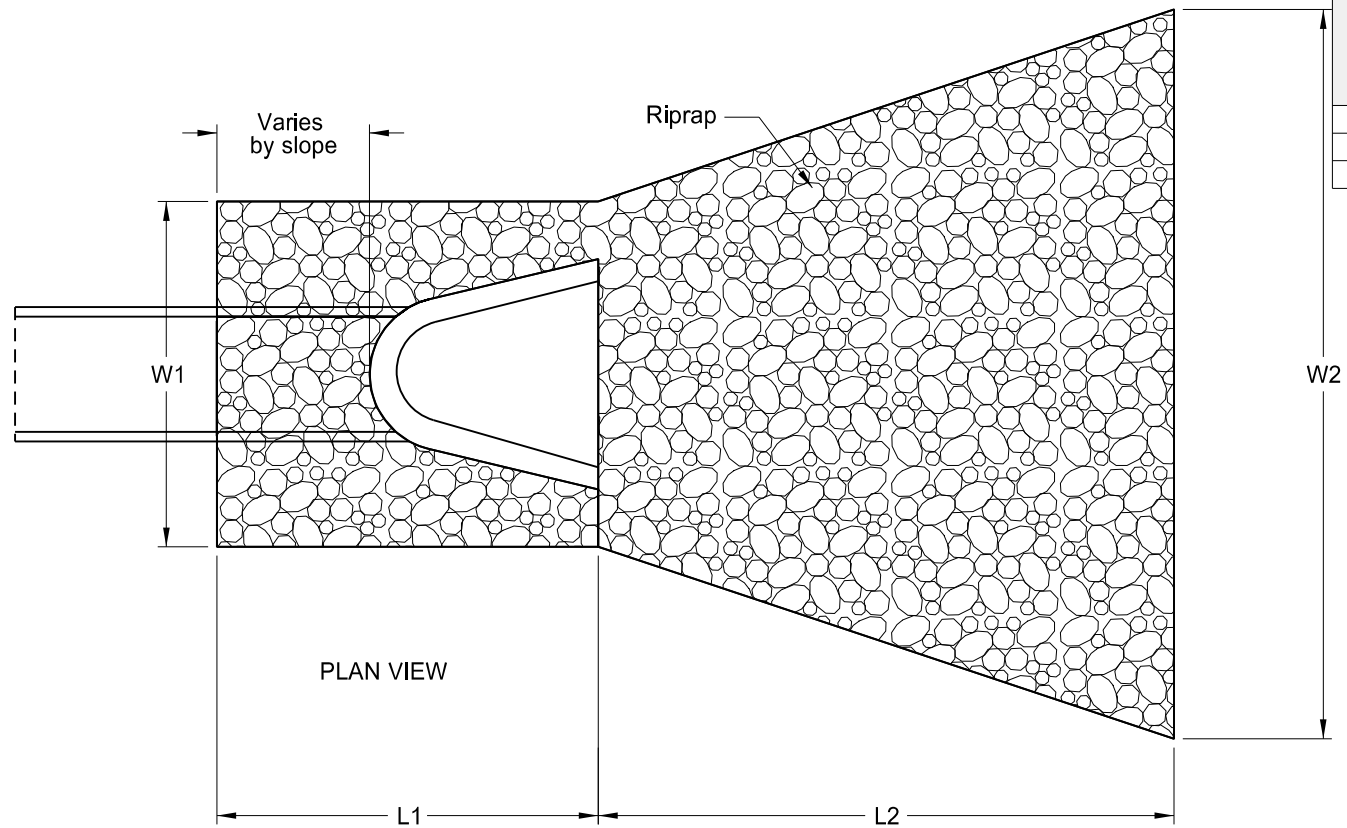


- Notes:
1. Windrow the existing topsoil from the foreslope to create a berm at the grading tie line.
 2. Stabilize berms in accordance with the Construction General Permit.
 3. Place weirs intermittently throughout the length of the berm to allow stormwater to drain through the berm.
 4. Avoid placing weirs adjacent to waterbodies.
 5. Install fiber rolls as the weirs are created in the topsoil berm.
 6. Include costs to create, stabilize, maintain, and dismantle the berm in the unit price bid for "Topsoil".
 7. Include costs for fiber rolls in the unit price bid for "Fiber Rolls 12IN".

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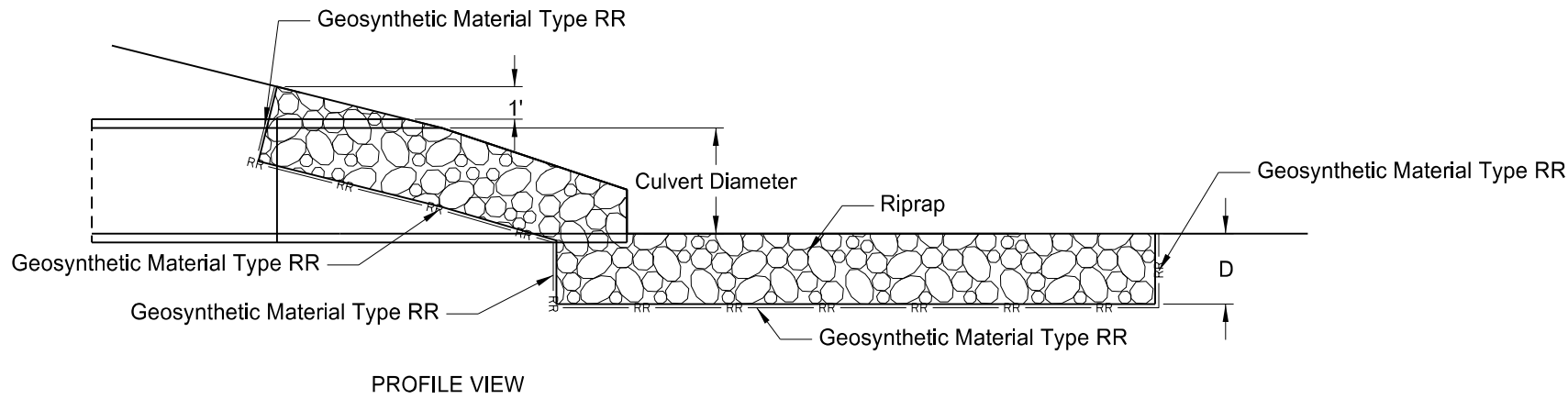
BIA 6 Standing Rock Sioux Tribe Sioux County, North Dakota		
KLJ		
Topsoil Berm Detail	DRWN BY DRAFTER	CHKD BY ENGINEER
	PROJECT NO. 1811-02480	

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	project number	20	9



RIPRAP AND GEOSYNTHETIC MATERIAL - TYPE RR PLACEMENT											
Station	Offset	Type	Culvert Diameter	L1	L2	W1	W2	D	Riprap Grade	Riprap (CY)	Geosynthetic Material Type RR (SY)
			(IN)	(FT)	(FT)	(FT)	(FT)	(IN)			
753+86	Rt	Mainline CL	48	9.0	14.9	29.0	38.9	36	III	85	124
903+58	Lt	Mainline CL	60	8.0	21.0	24.3	38.3	36	III	95	136
1030+63	Lt	Mainline CL	48	9.0	25.0	29.0	45.7	36	III	133	181

256 0200 RIPRAP GRADE I	TOTAL	0	-
256 0200 RIPRAP GRADE II	TOTAL	0	-
256 0300 RIPRAP GRADE III	TOTAL	313	-
709 0155 GEOSYNTHETIC MATERIAL TYPE RR	TOTAL	-	441



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Sioux County, North Dakota

Riprap Detail

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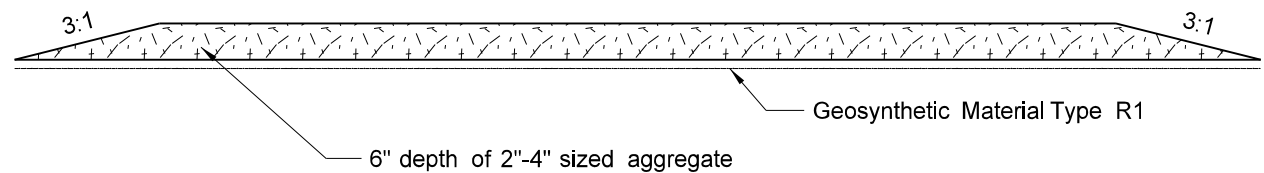
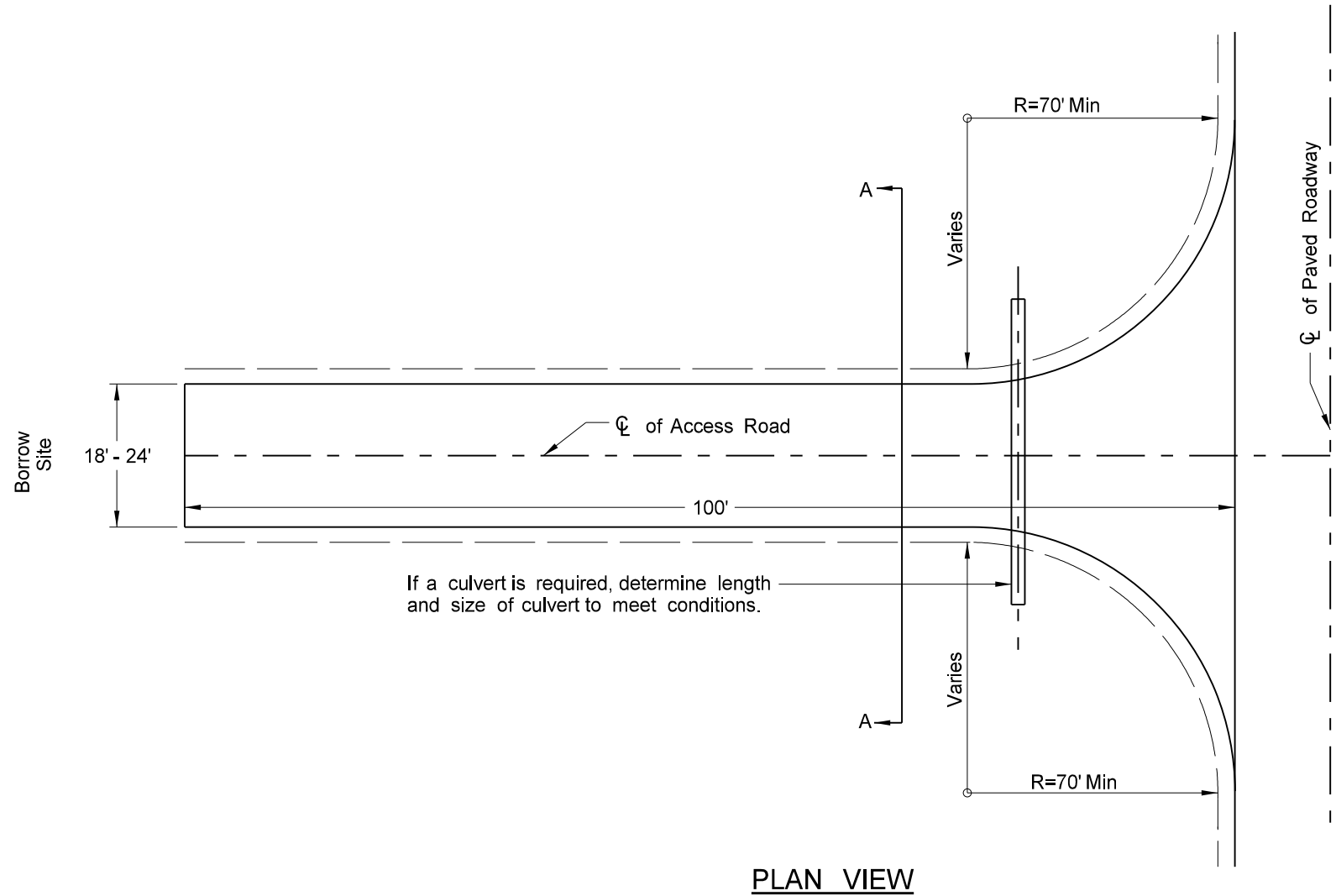
CHKD. BY

ENGINEER

PROJECT NO.

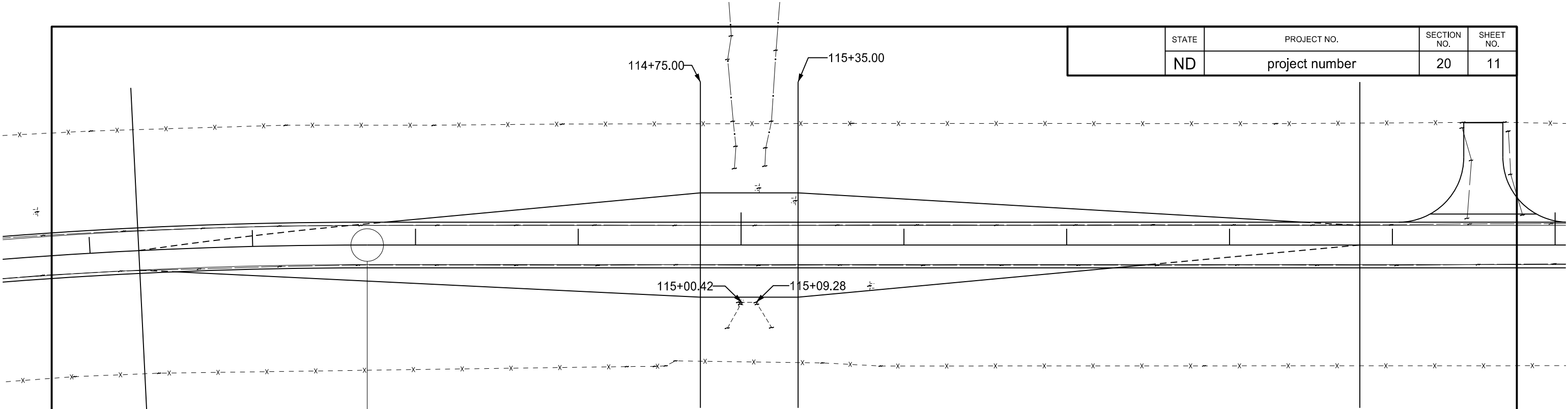
1811-02480

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	ND	project number	20	10



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BIA 6 Standing Rock Sioux Tribe Sioux County, North Dakota		
	DESCRIPTION_LINE_1 DESCRIPTION_LINE_2 DESCRIPTION_LINE_3 DESCRIPTION_LINE_4	
	DRAWN BY DRAFTER	PROJECT NO. 1811-02480



	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	project number	20	11

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BIA 6

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Sioux County, North Dakota

INslope Flattening
Detail

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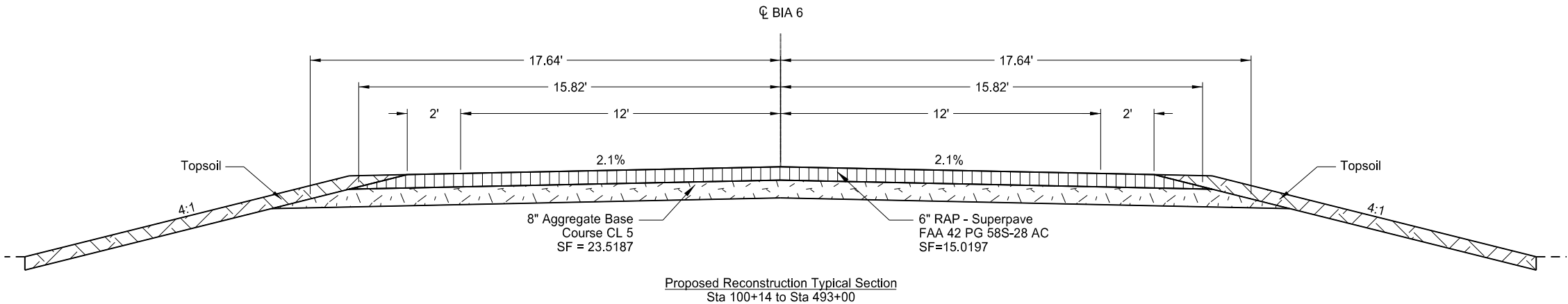
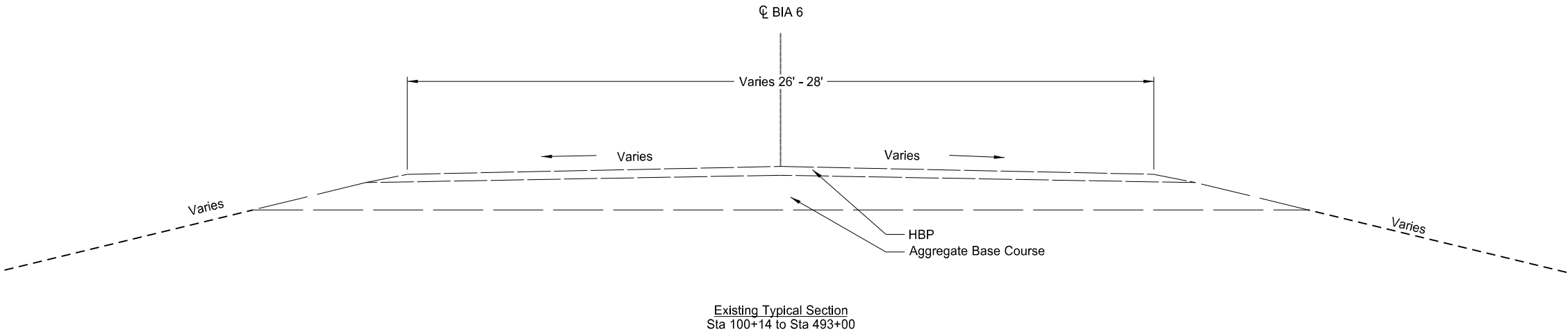
PROJECT NO.

1811-02480

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	ND	1811-02480	30	1



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Standing Rock Sioux Tribe

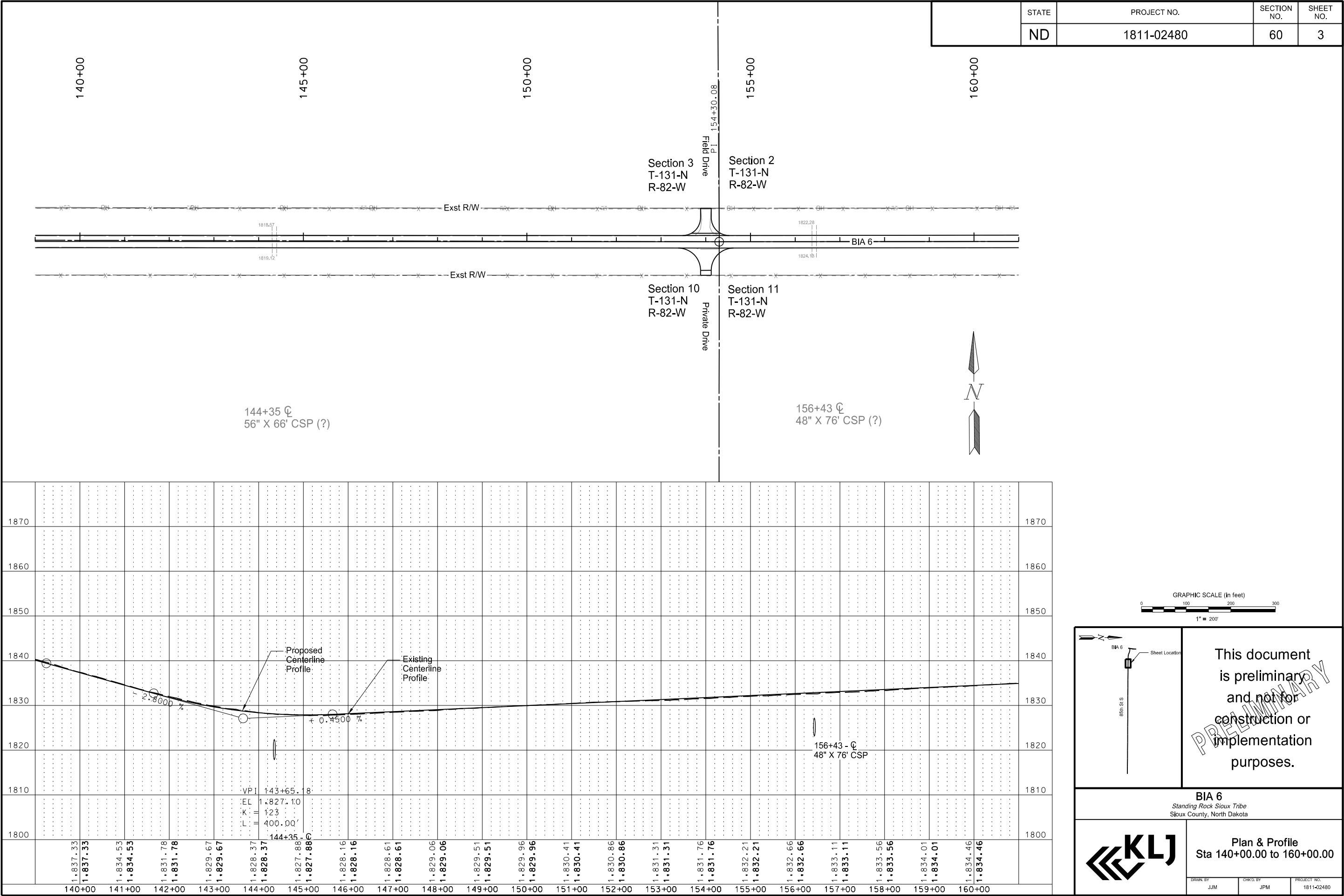
Sioux County, North Dakota

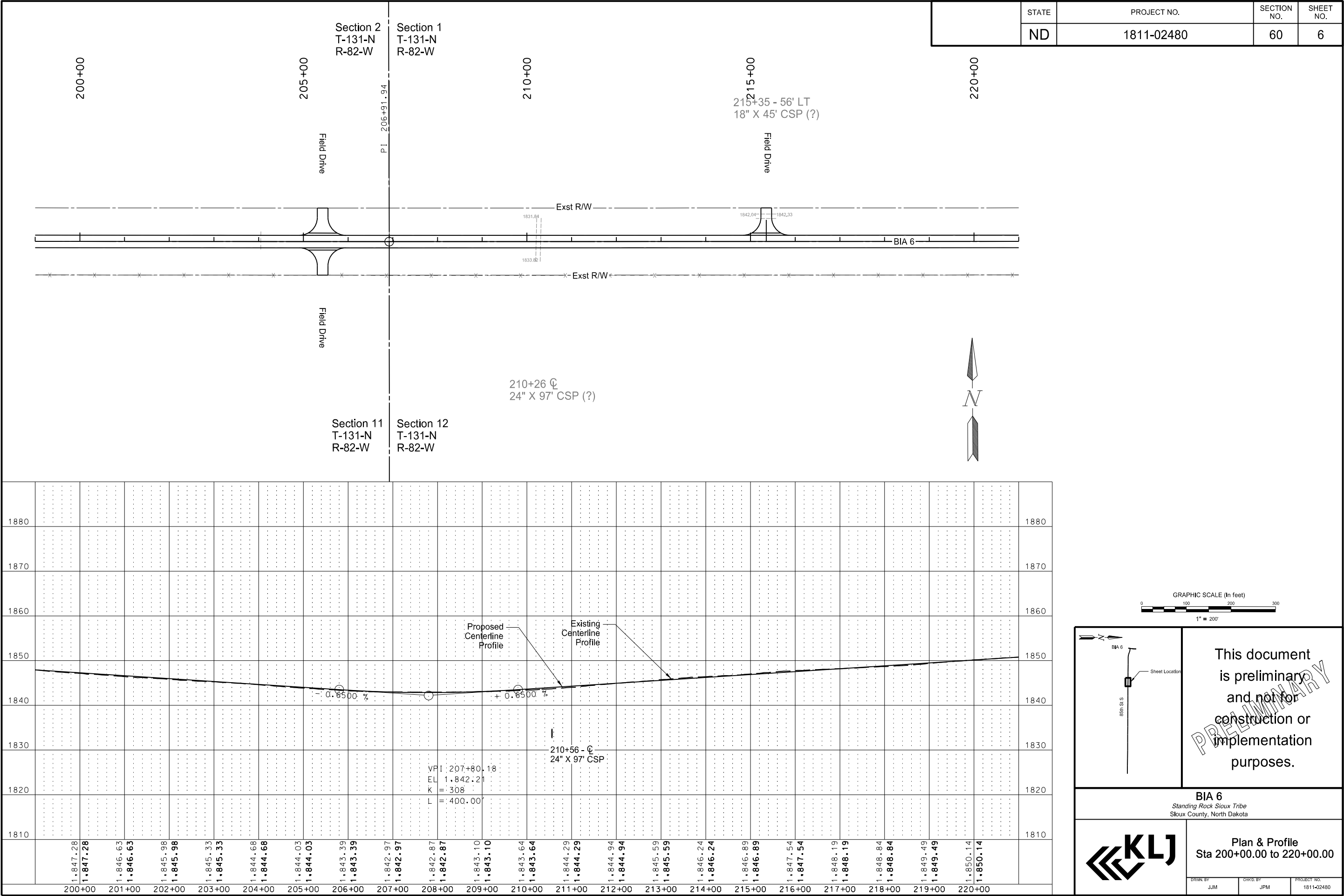
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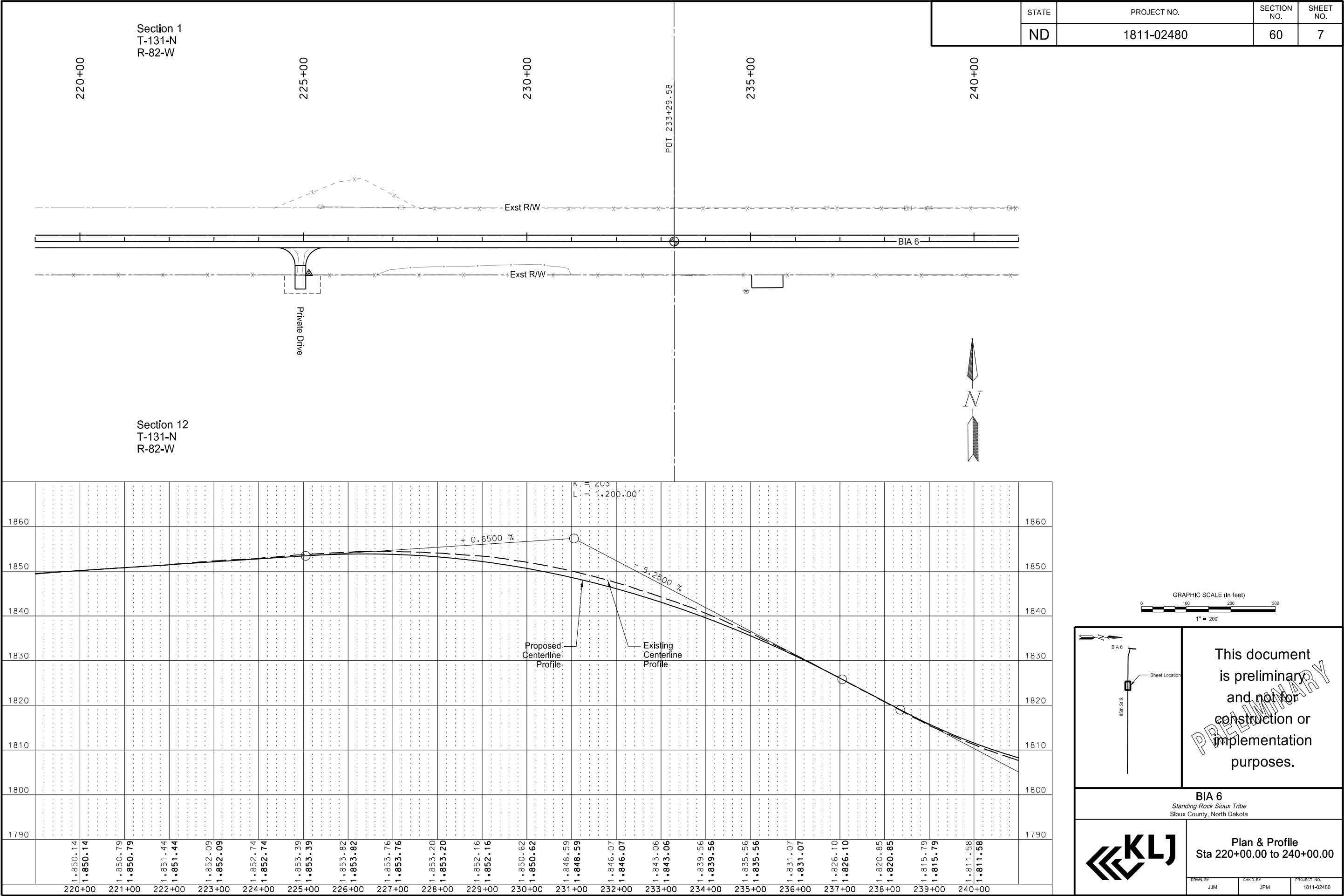
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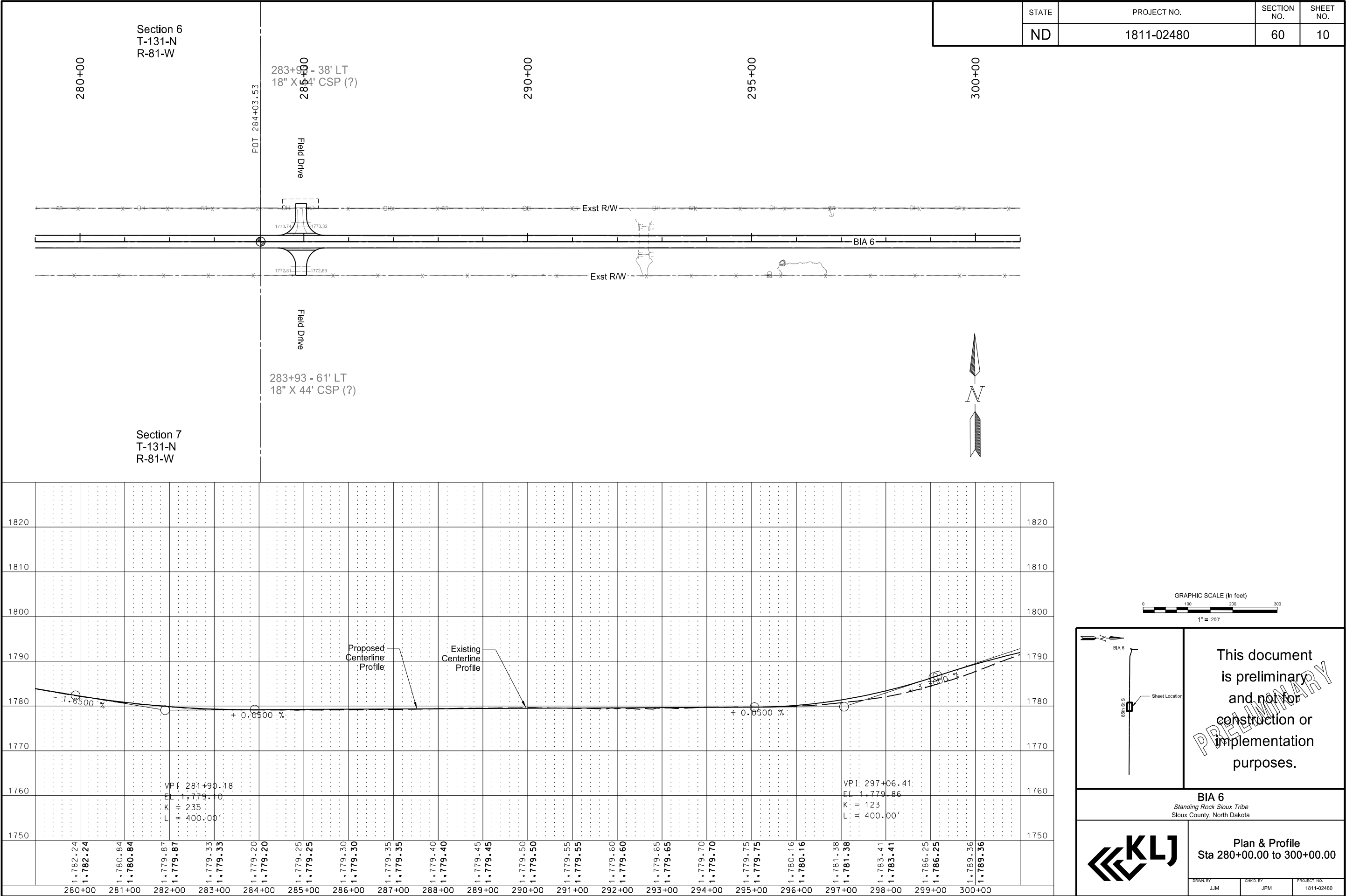
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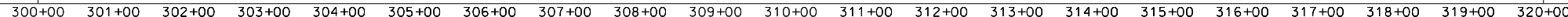
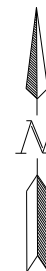
Project No: 1811-02480

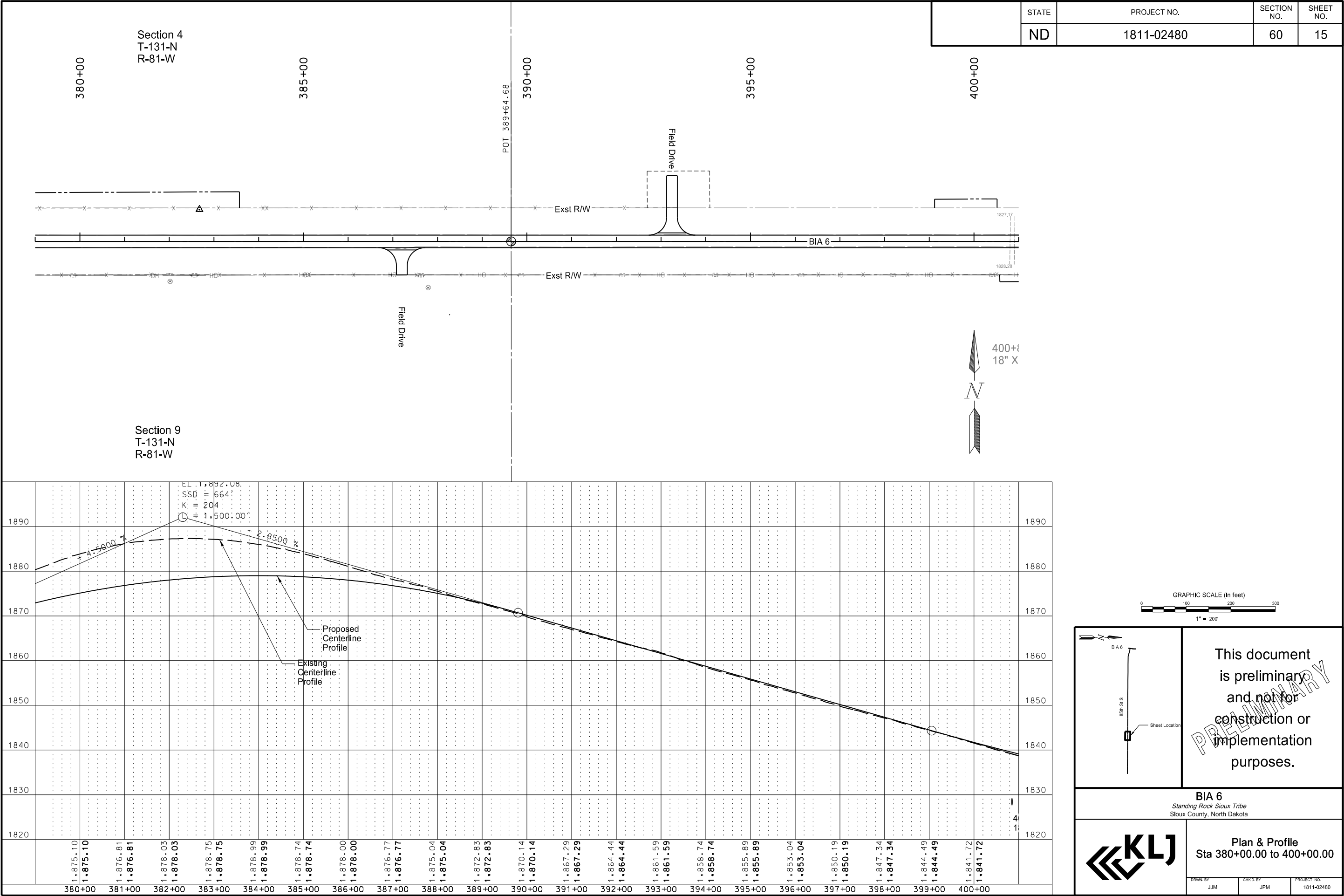


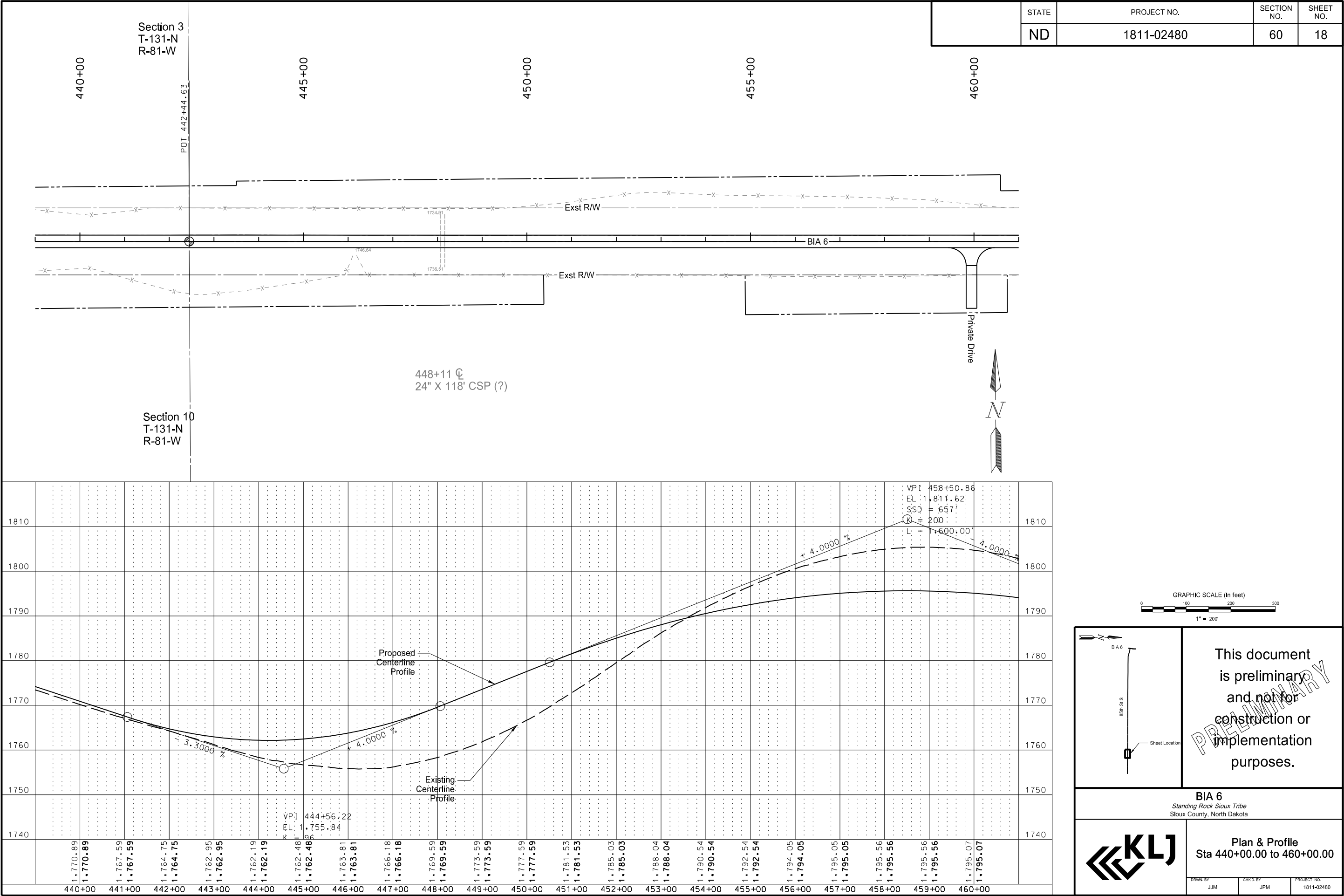


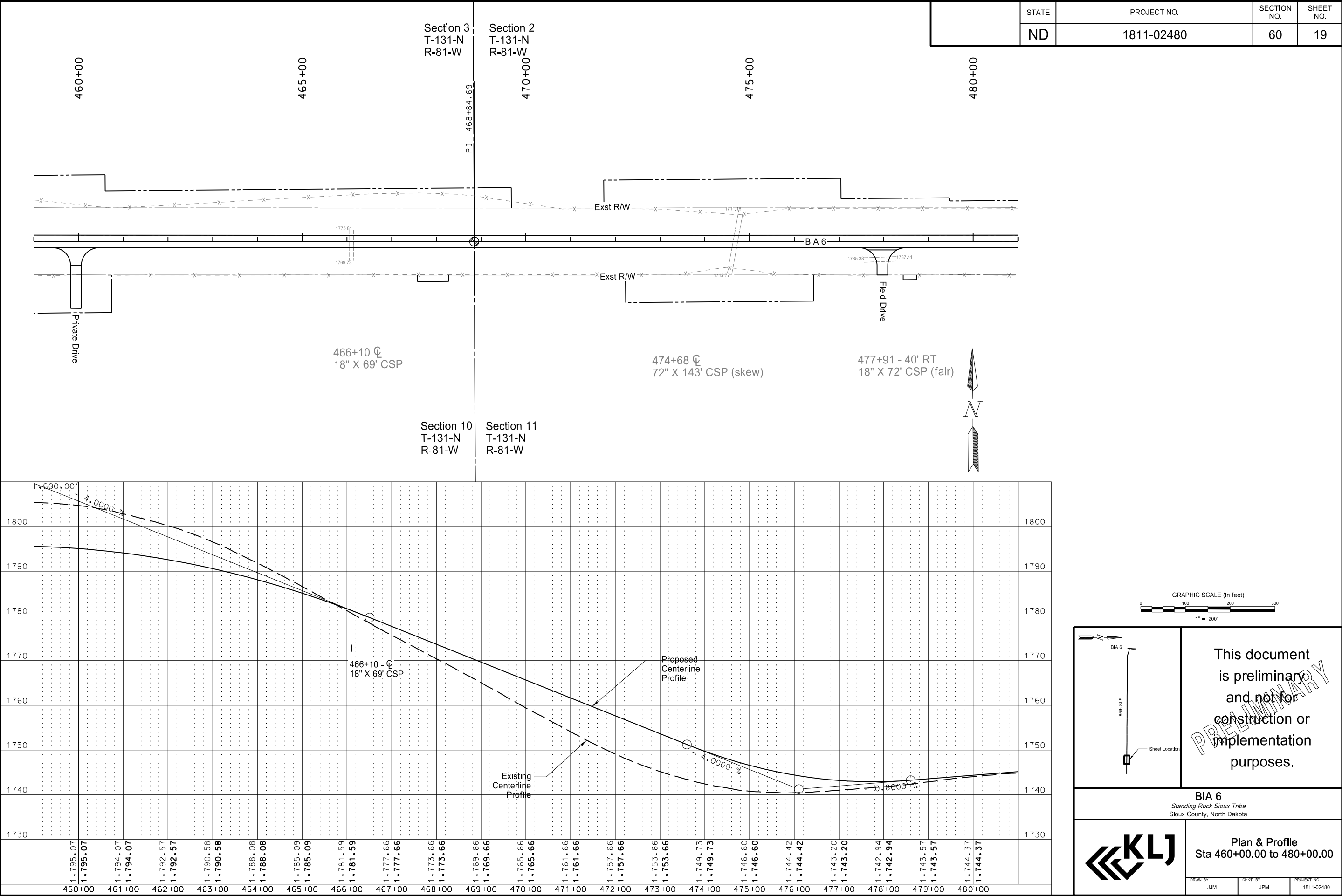


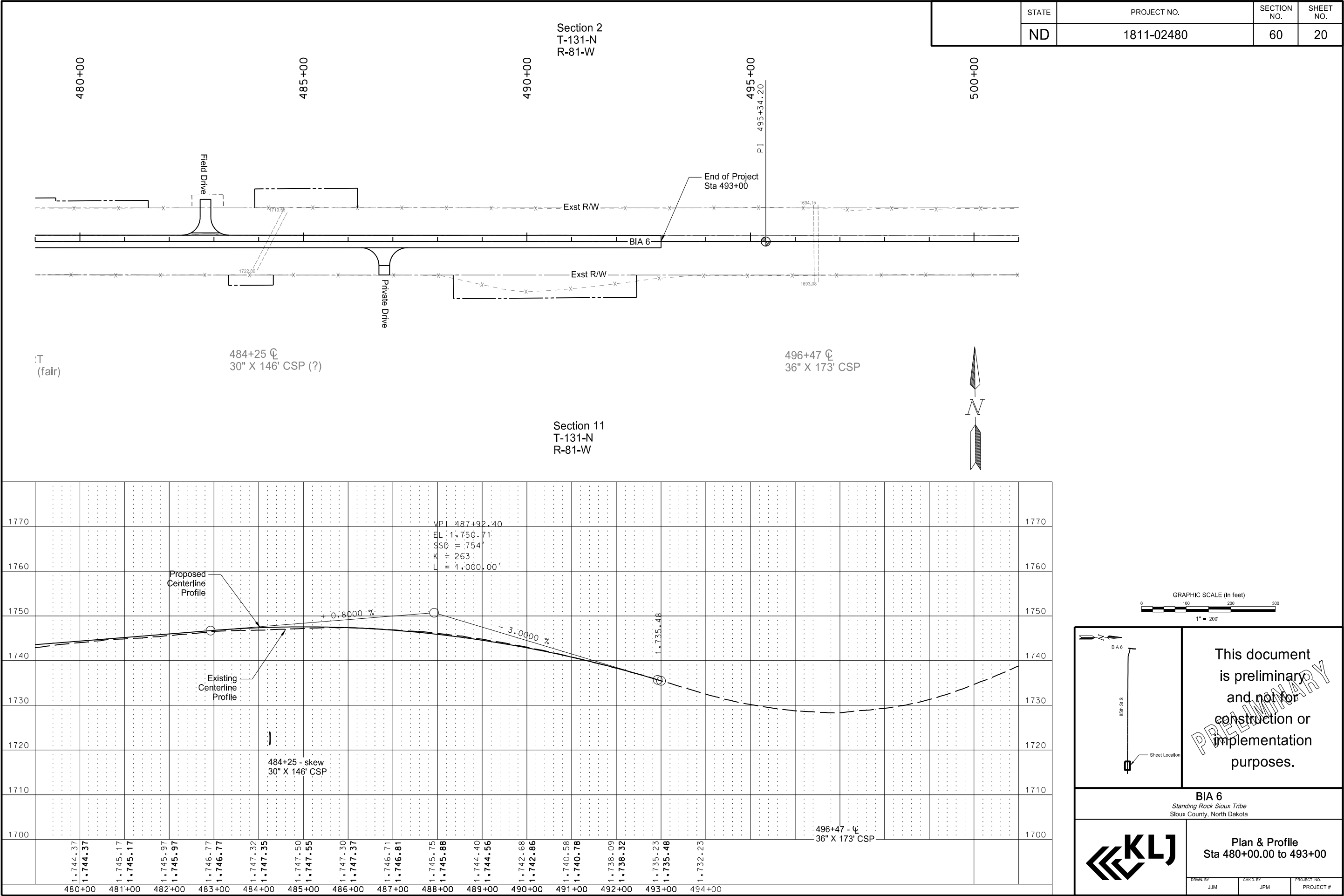


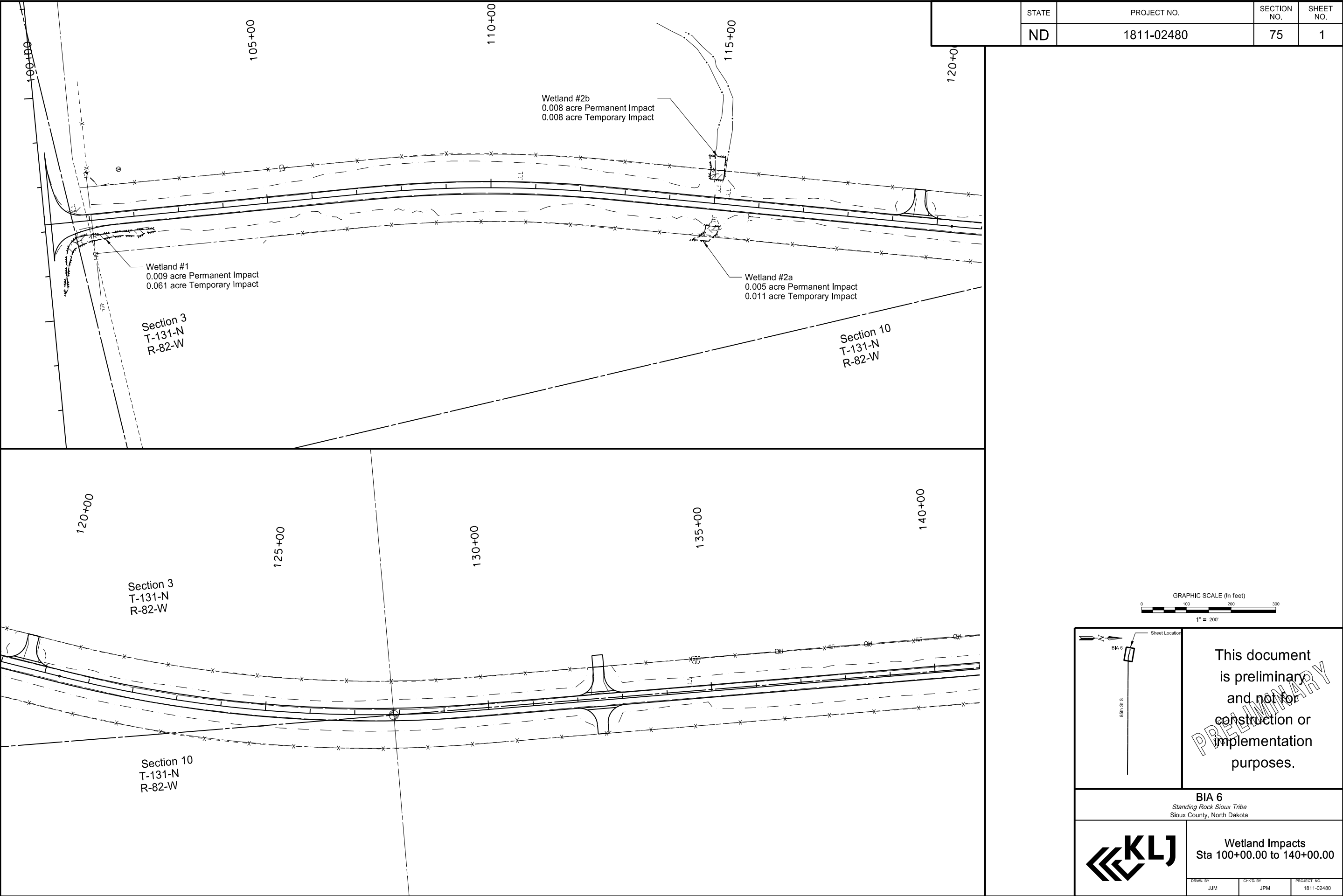
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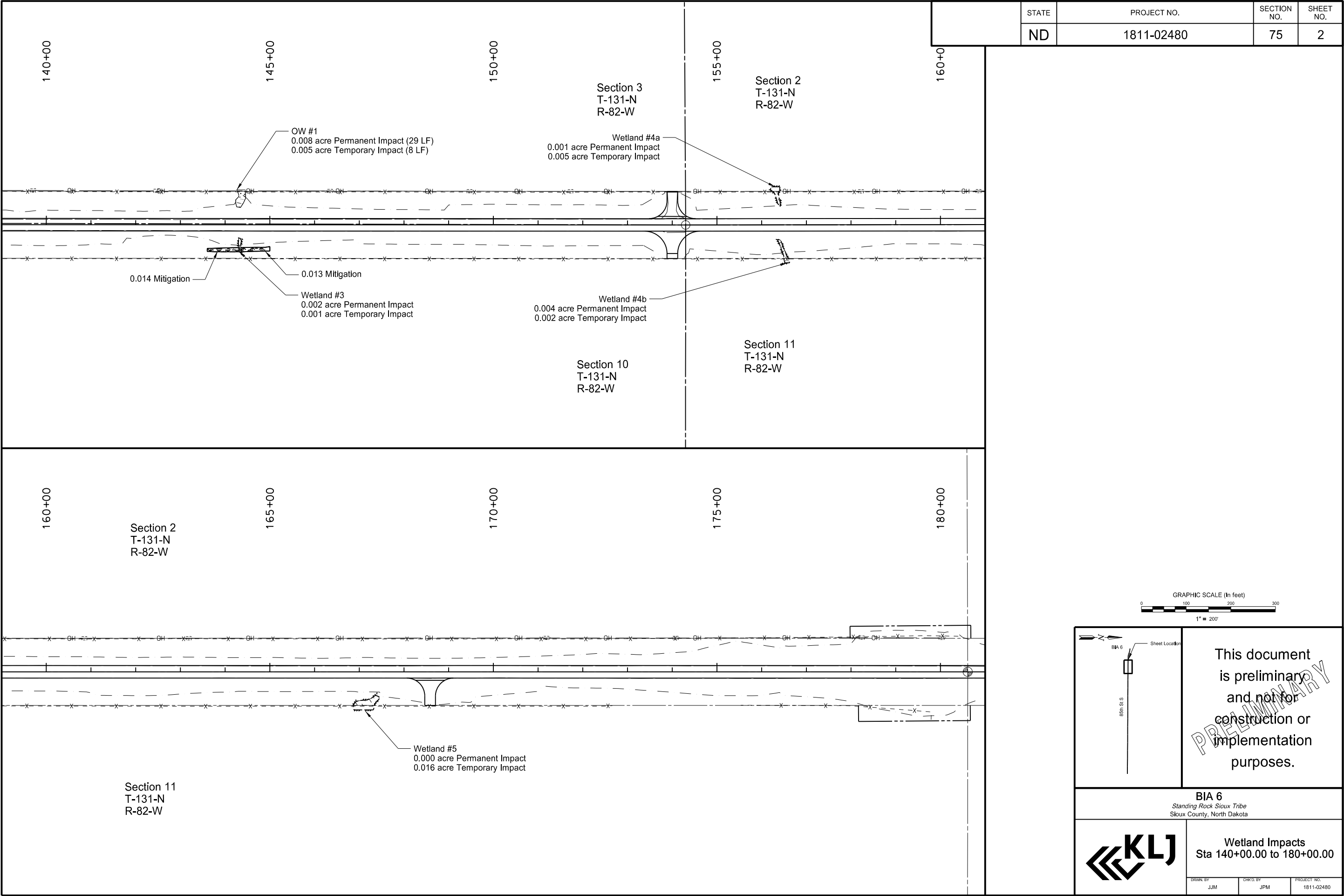


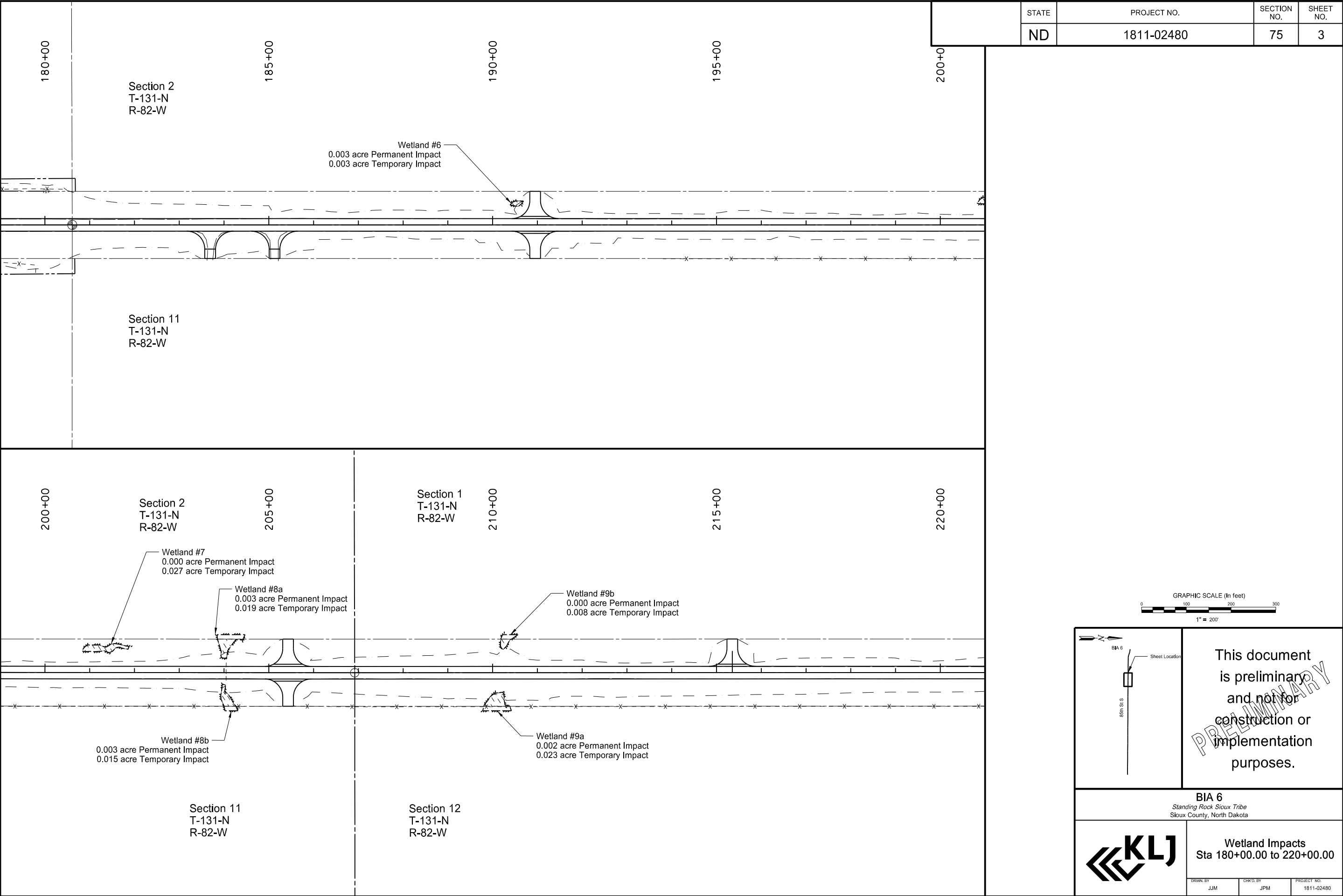


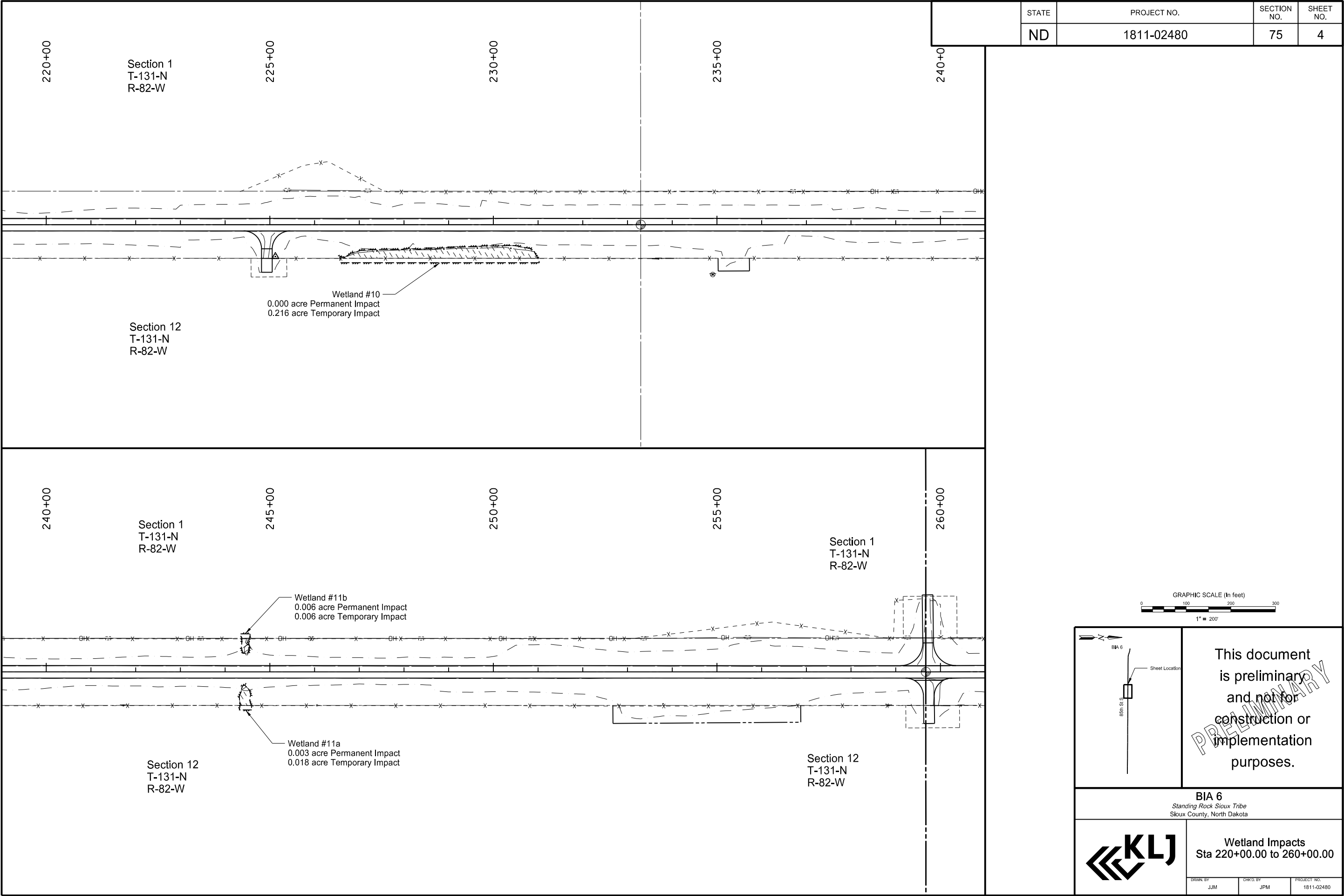


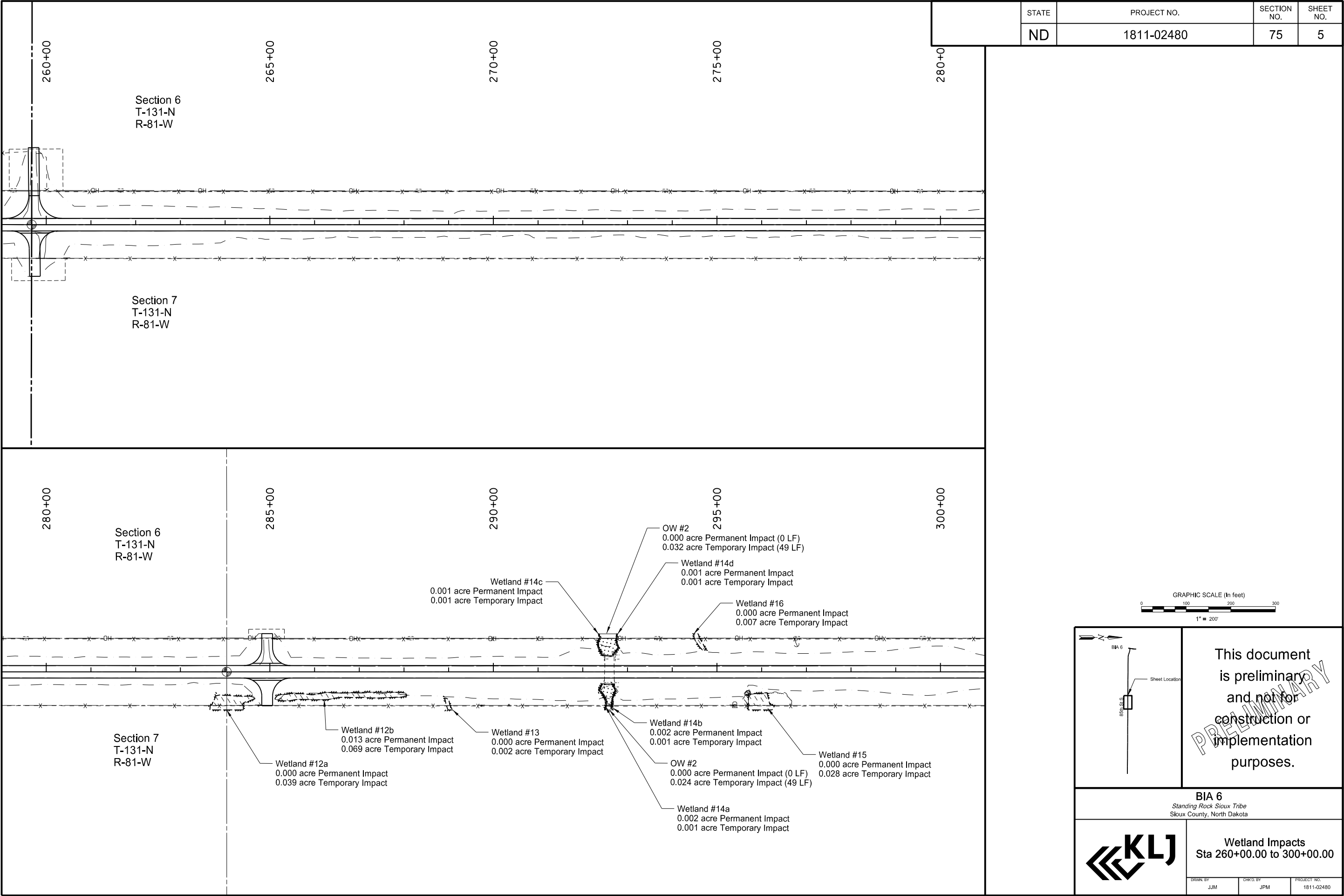


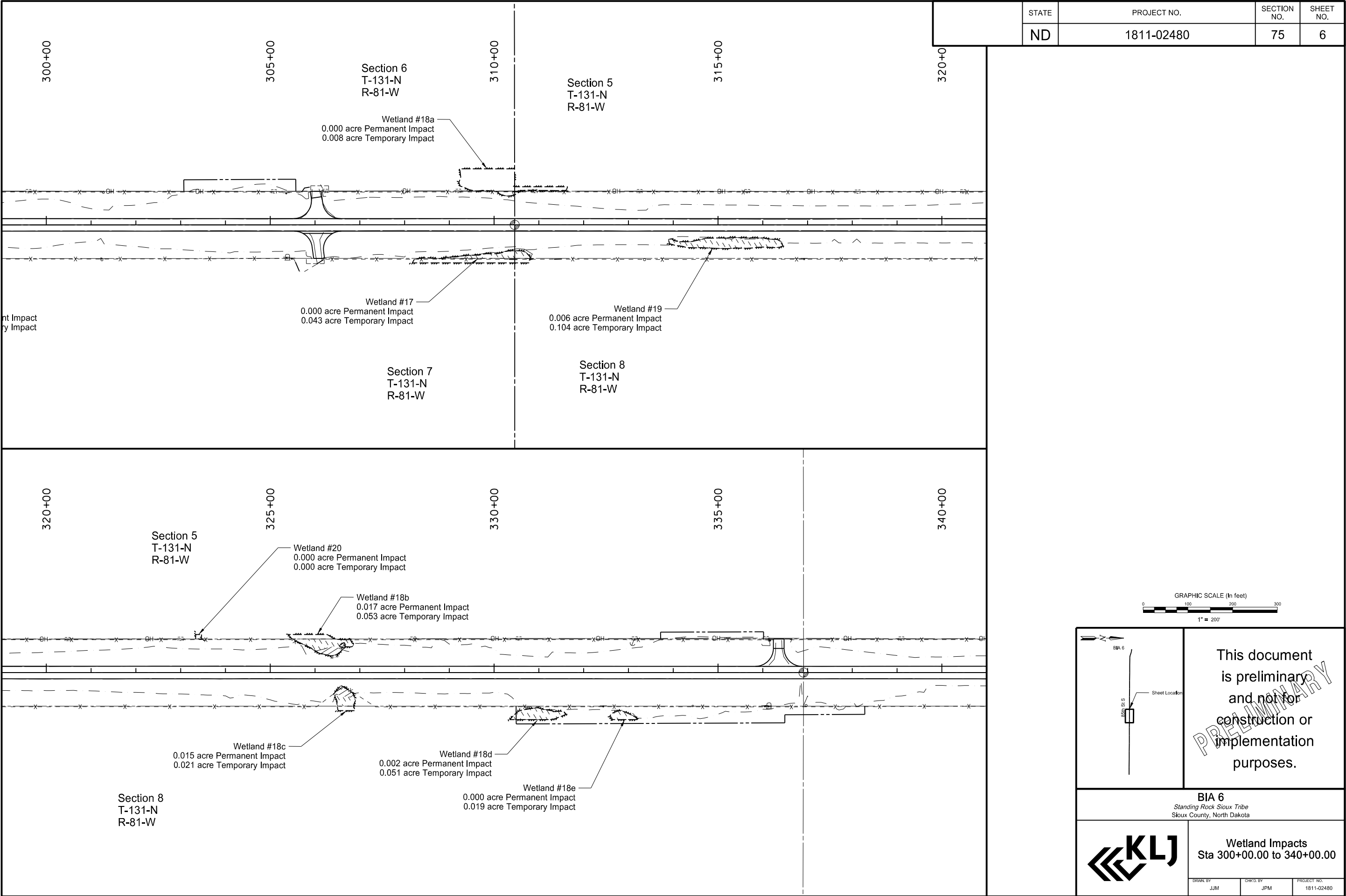


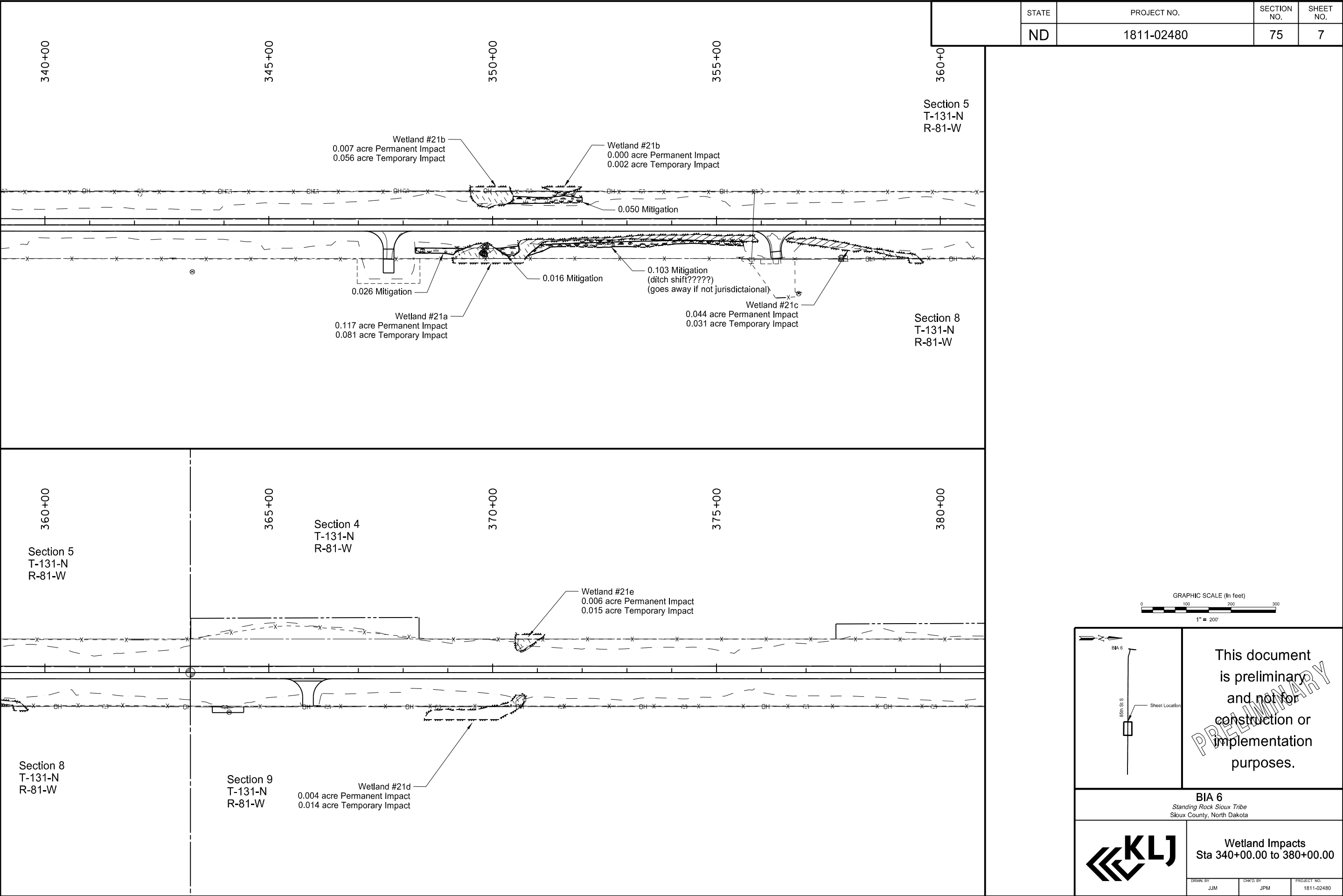


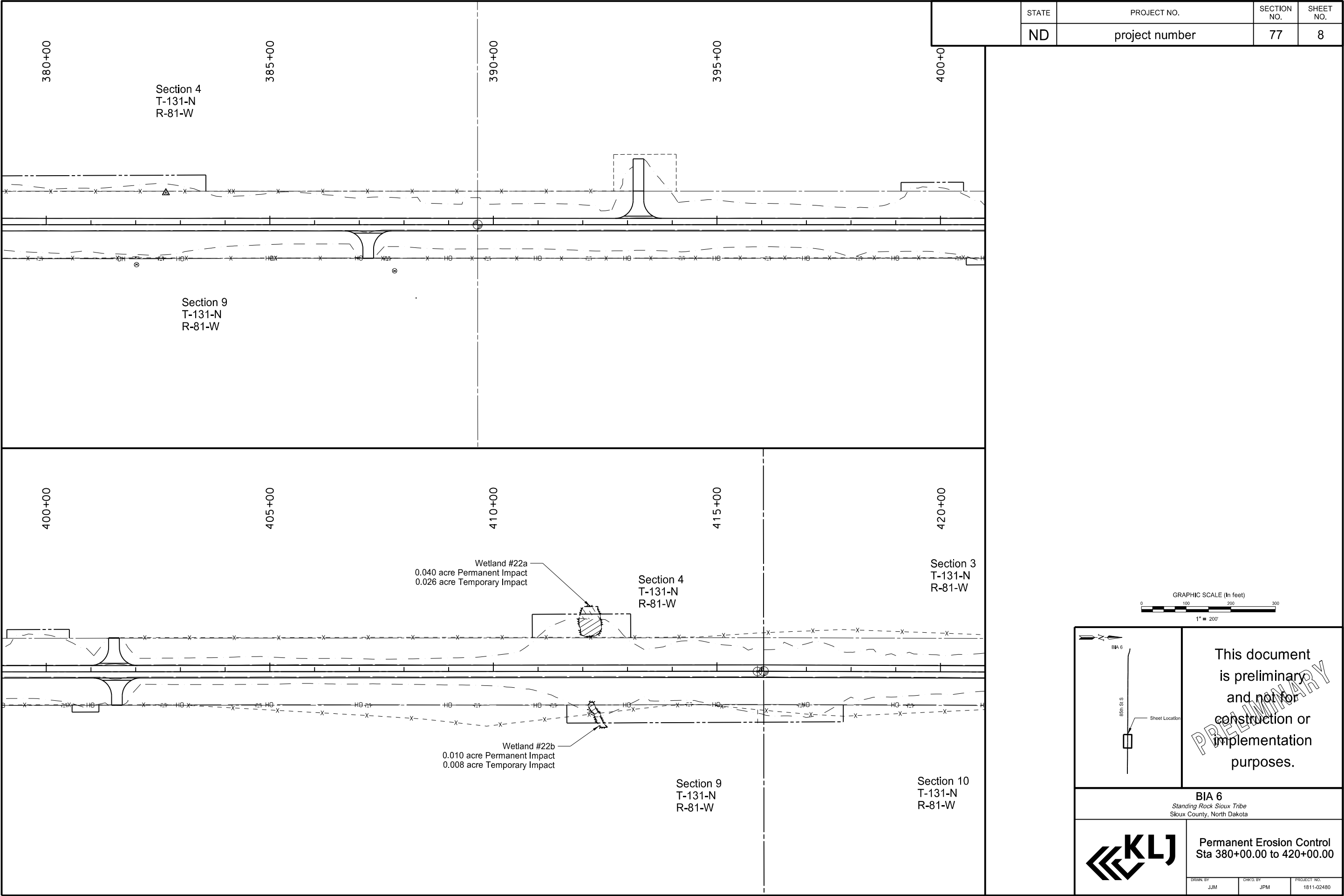




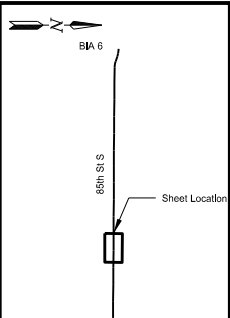
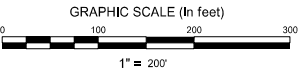








STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	project number	77	8



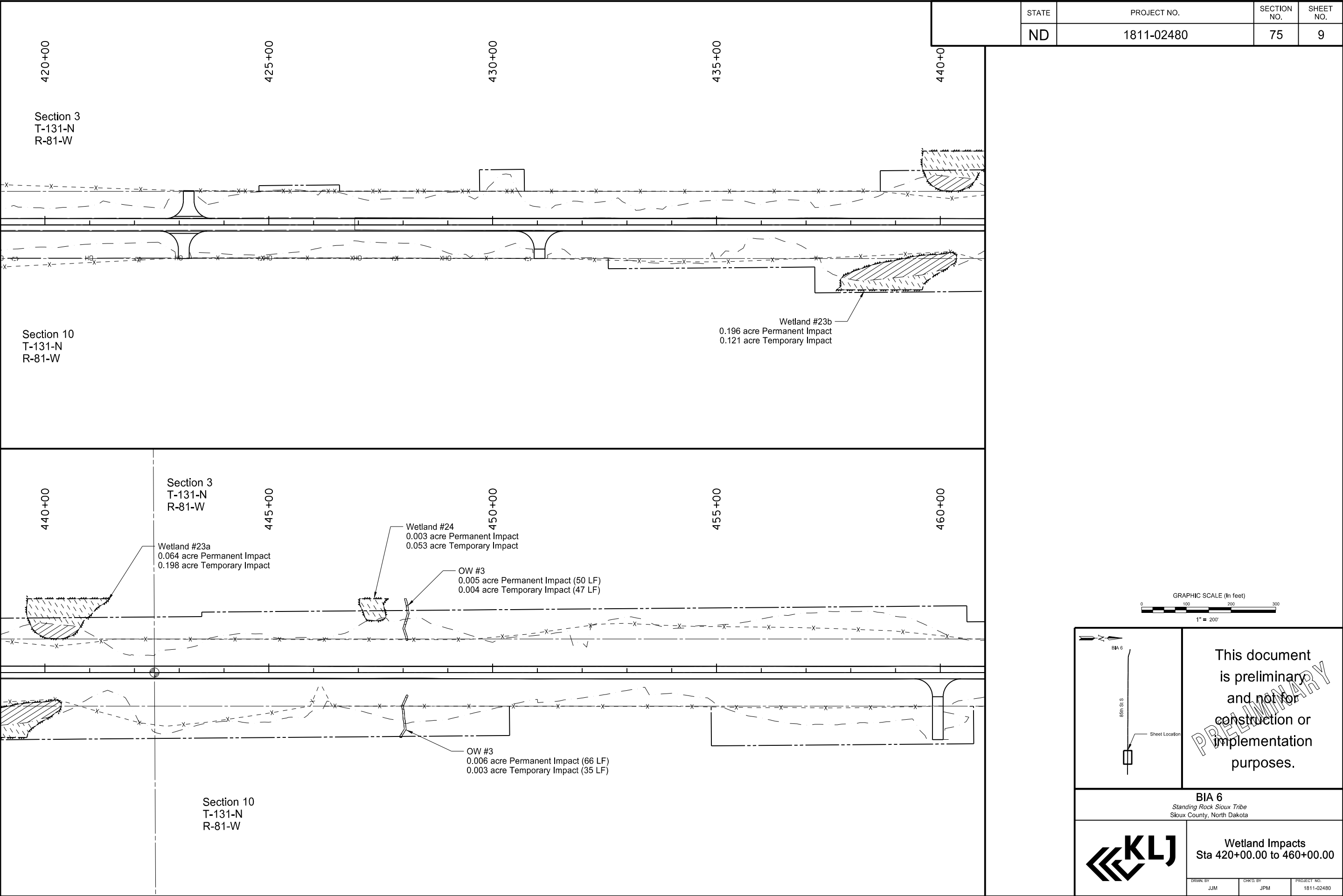
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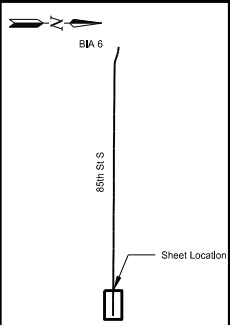
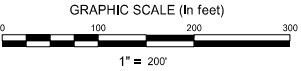
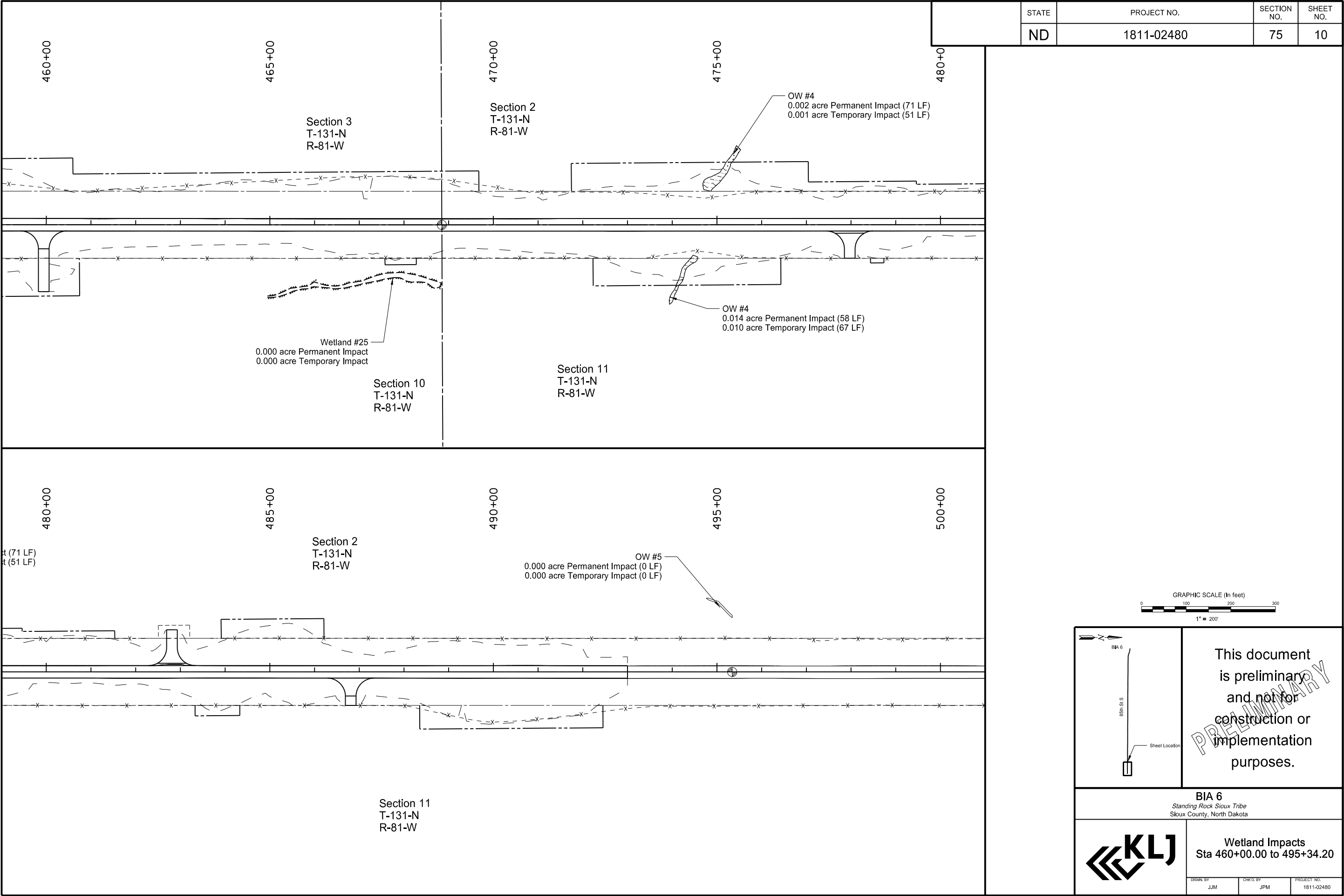
BIA 6
Standing Rock Sioux Tribe
Sioux County, North Dakota



Permanent Erosion Control
Sta 380+00.00 to 420+00.00

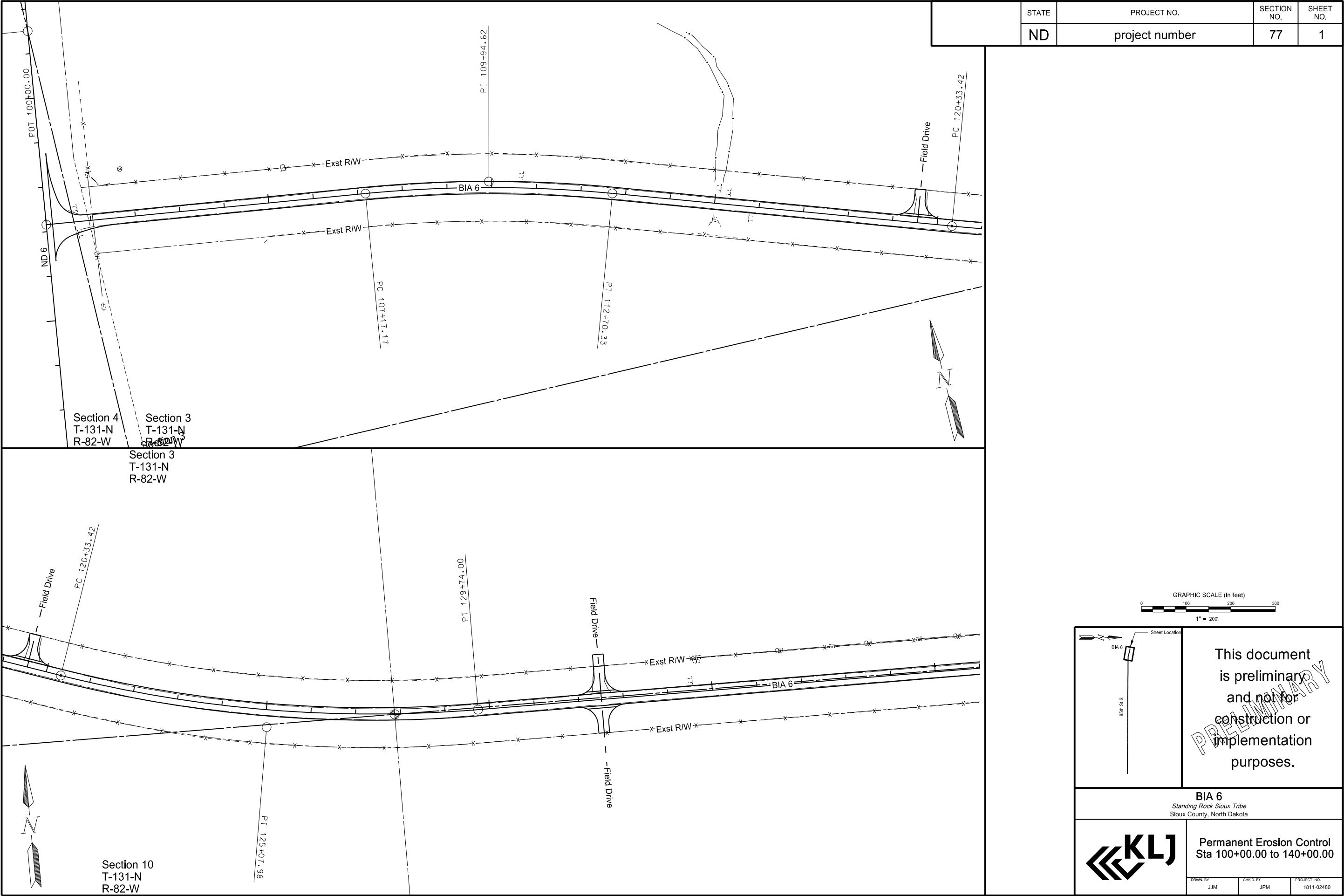
DRAWN BY JJM	CHKD BY JPM	PROJECT NO. 1811-02480
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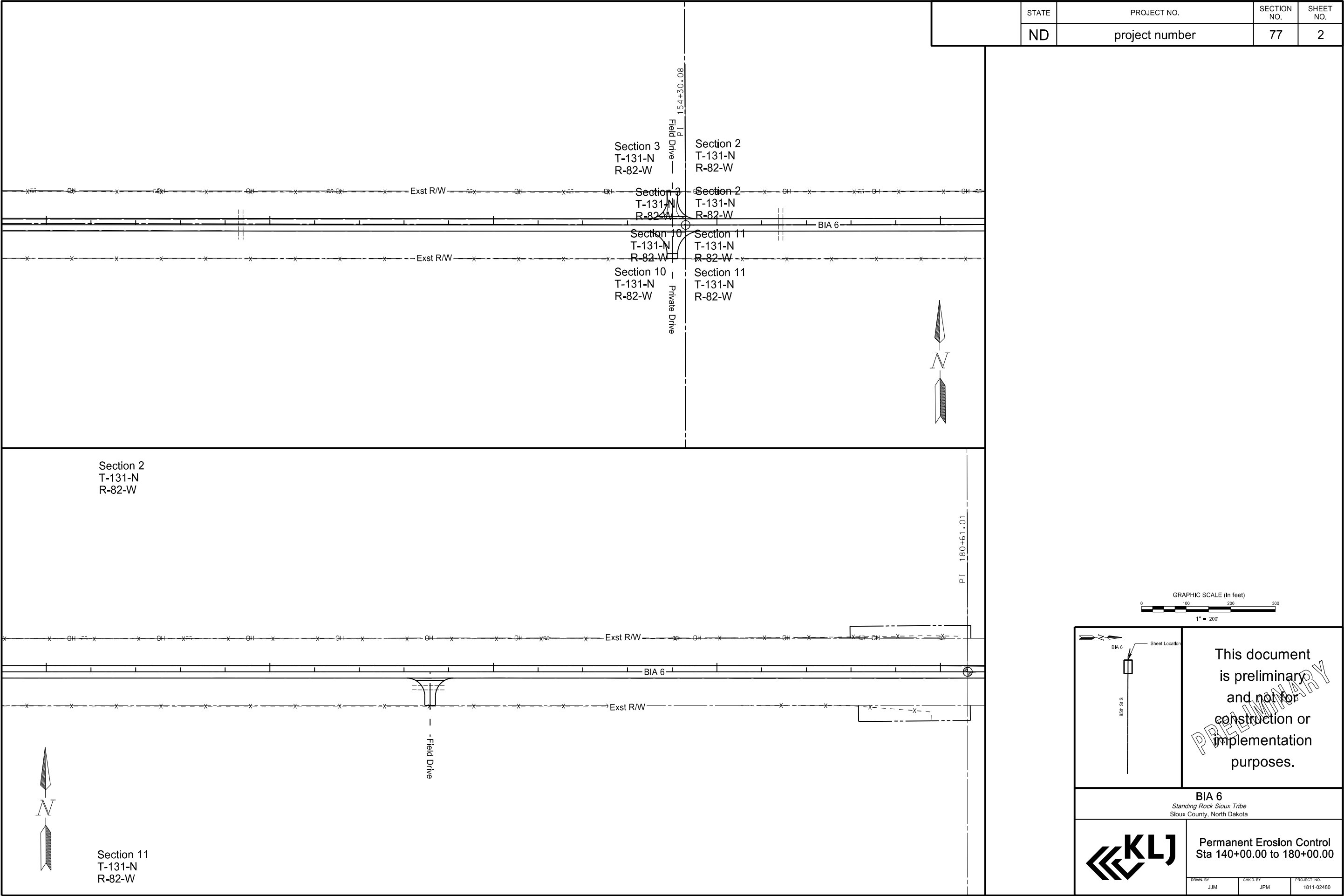




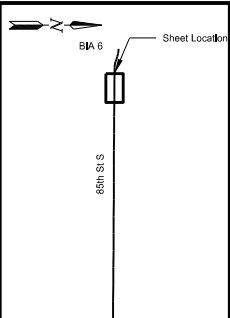
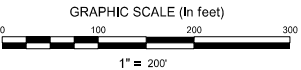
This document is preliminary and not for construction or implementation purposes.

BIA 6 <i>Standing Rock Sioux Tribe</i> Sioux County, North Dakota		
	Wetland Impacts Sta 460+00.00 to 495+34.20	
	DRWN BY JJM	CHKD BY JPM
PROJECT NO. 1811-02480		





STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	project number	77	2



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BIA 6
Standing Rock Sioux Tribe
Sioux County, North Dakota



Permanent Erosion Control
Sta 140+00.00 to 180+00.00

DRAWN BY JJM	CHKD BY JPM	PROJECT NO. 1811-02480
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Section 1
T-131-N
R-82-W

STATE

PROJECT NO.

SECTION
NO.

SHEET
NO.

ND

project number

77

4

POT 233+29.58

Exst R/W

BIA 6

Private Drive

Section 12
T-131-N
R-82-W

Section 1
T-131-N
R-82-W

Section 6
T-131-N
R-81-W

Private Drive 1.0

Exst R/W

BIA 6

Exst R/W

Field Drive

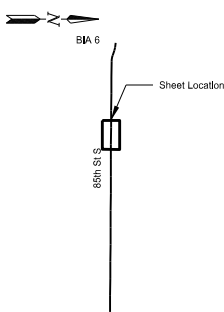
Section 12
T-131-N
R-82-W

Section 7
T-131-N
R-81-W

GRAPHIC SCALE (In feet)

0 100 200 300

1" = 200'



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BIA 6
Standing Rock Sioux Tribe
Sioux County, North Dakota



Permanent Erosion Control
Sta 220+00.00 to 260+00.00

DRAWN BY

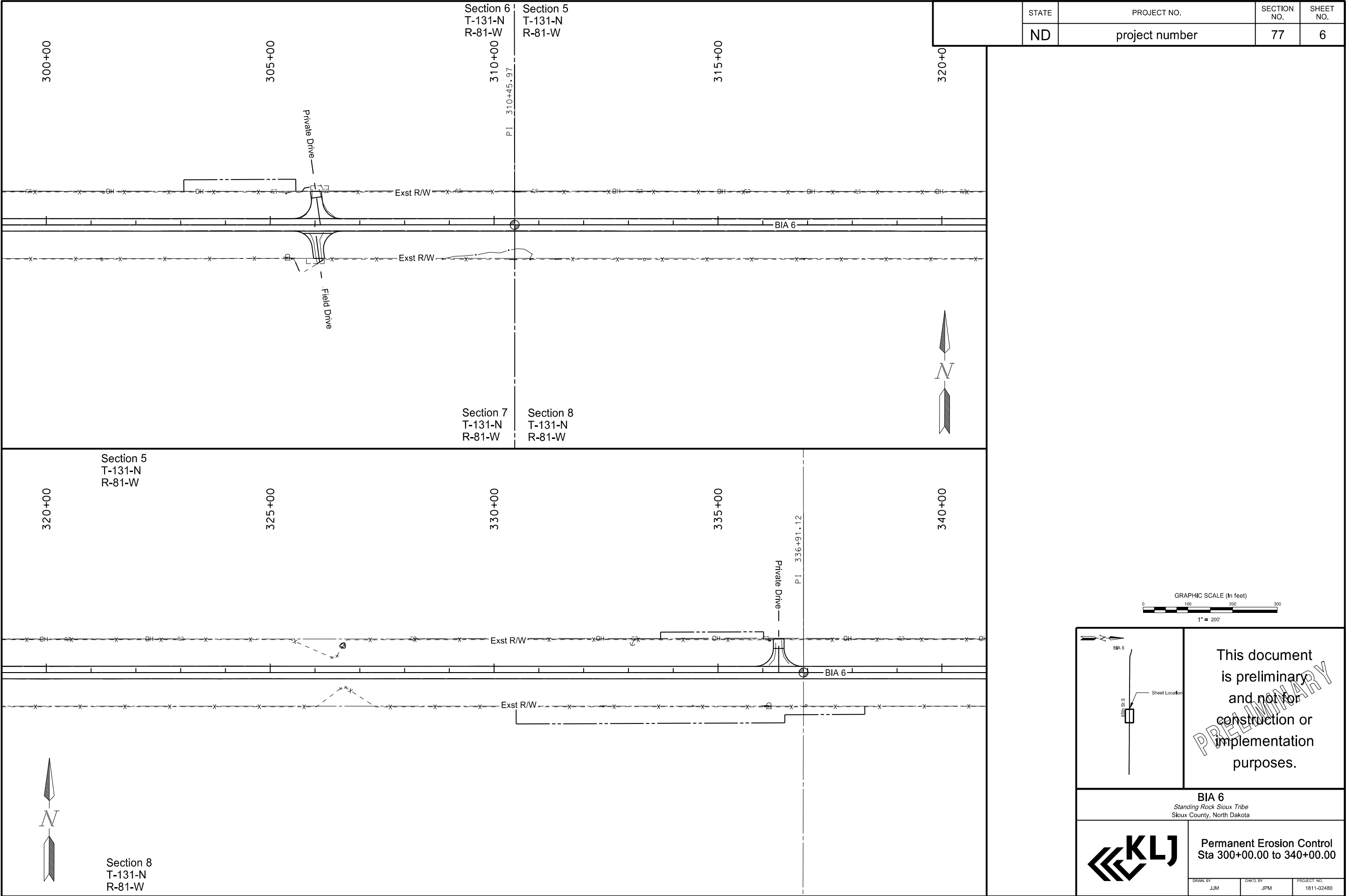
JJM

CHKD BY

JPM

PROJECT NO.

1811-02480



STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	project number	77	6

GRAPHIC SCALE (In feet)

0 100 200 300

1" = 200'

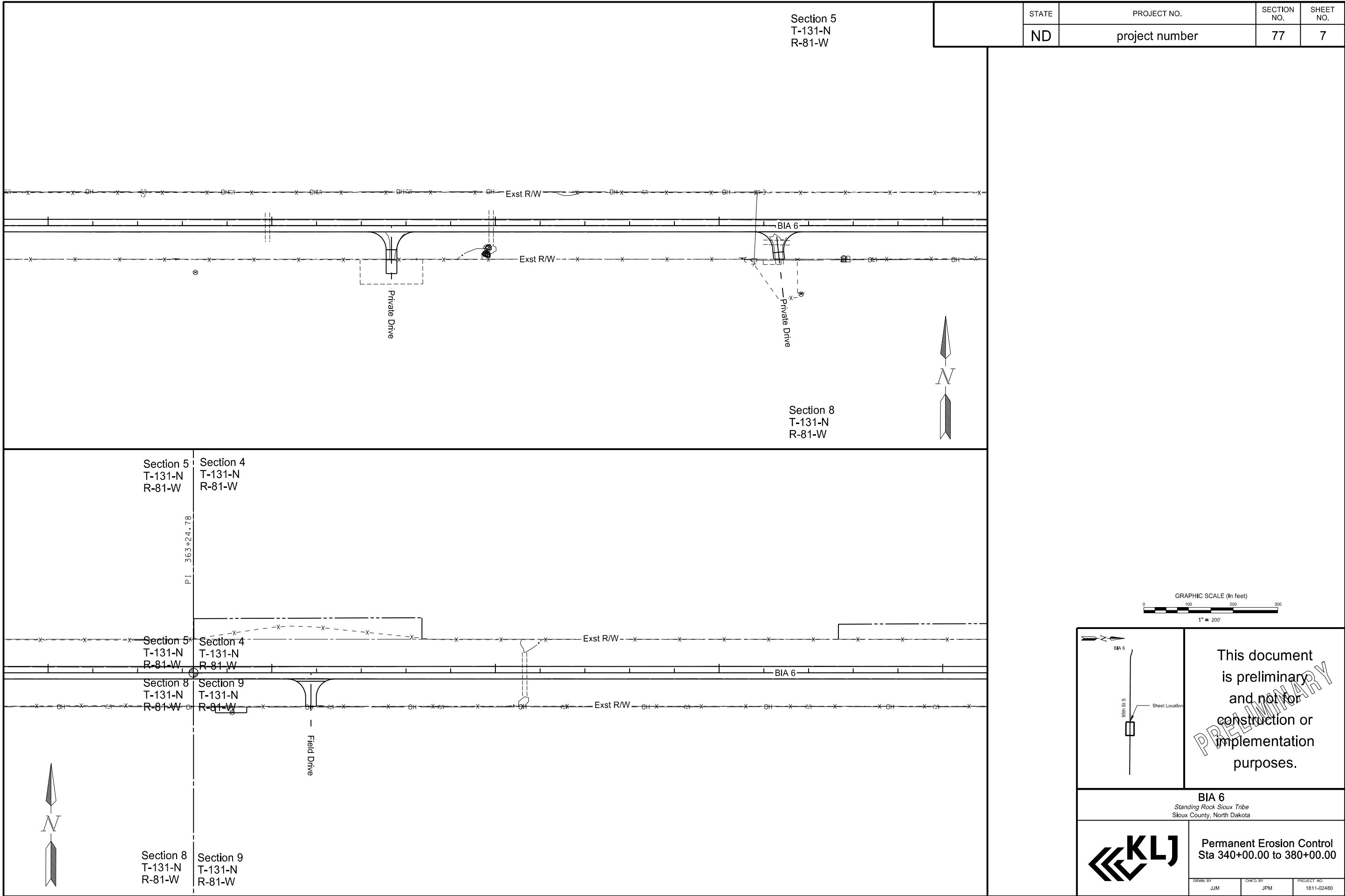
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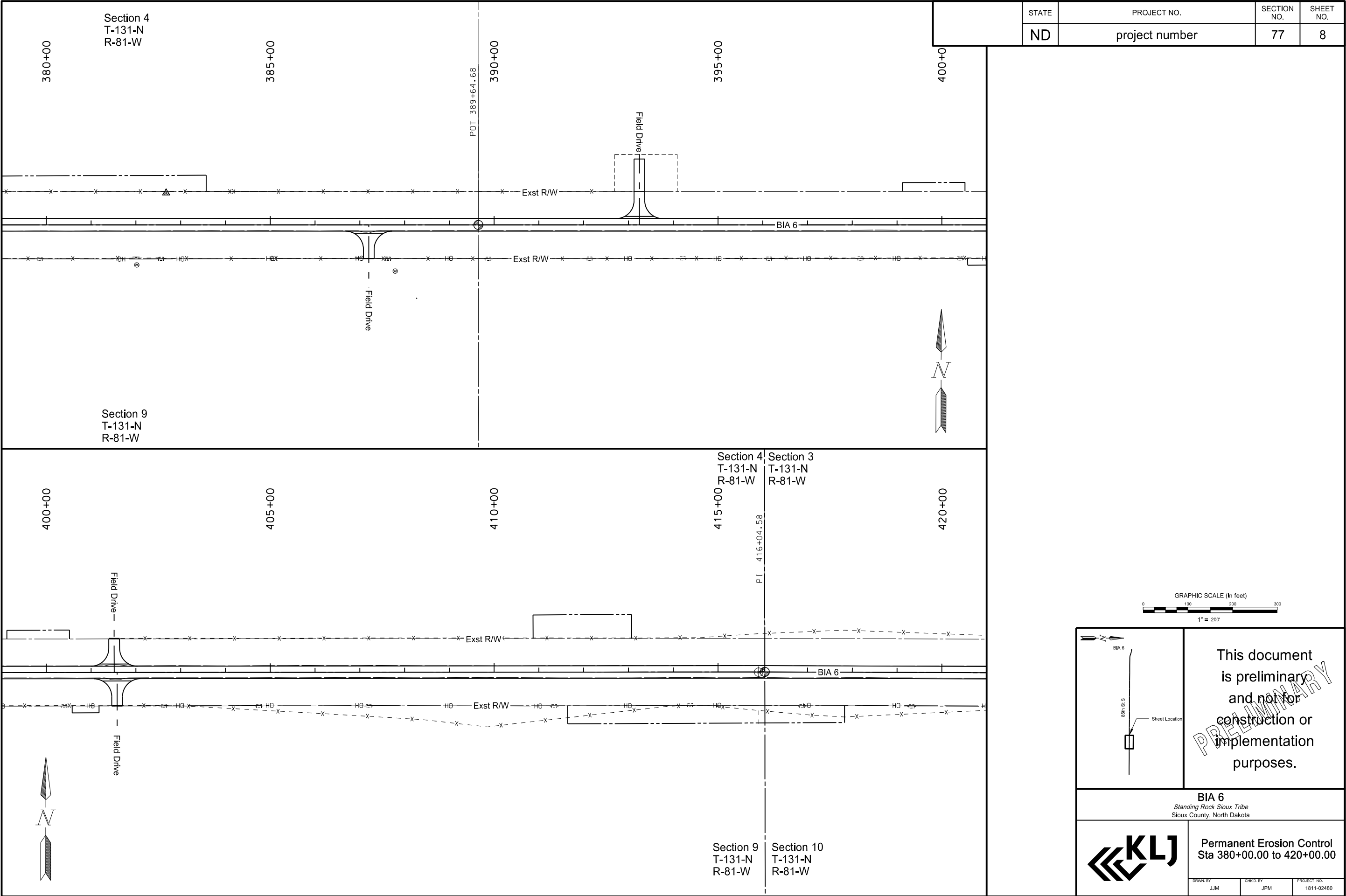
BIA 6
Standing Rock Sioux Tribe
Sioux County, North Dakota

KLJ

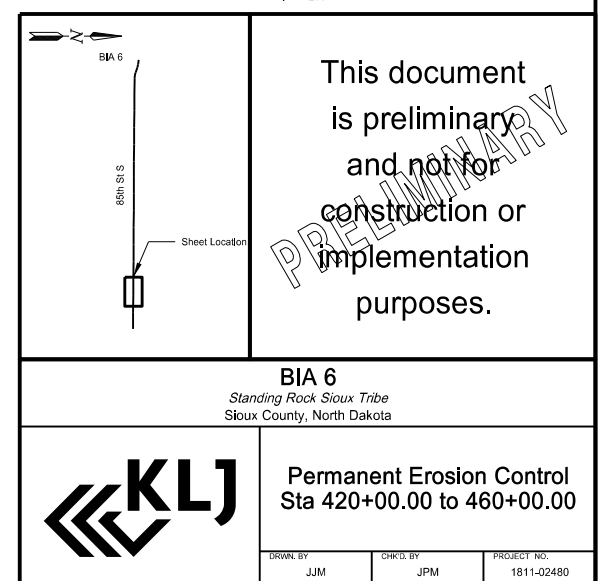
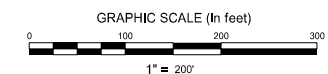
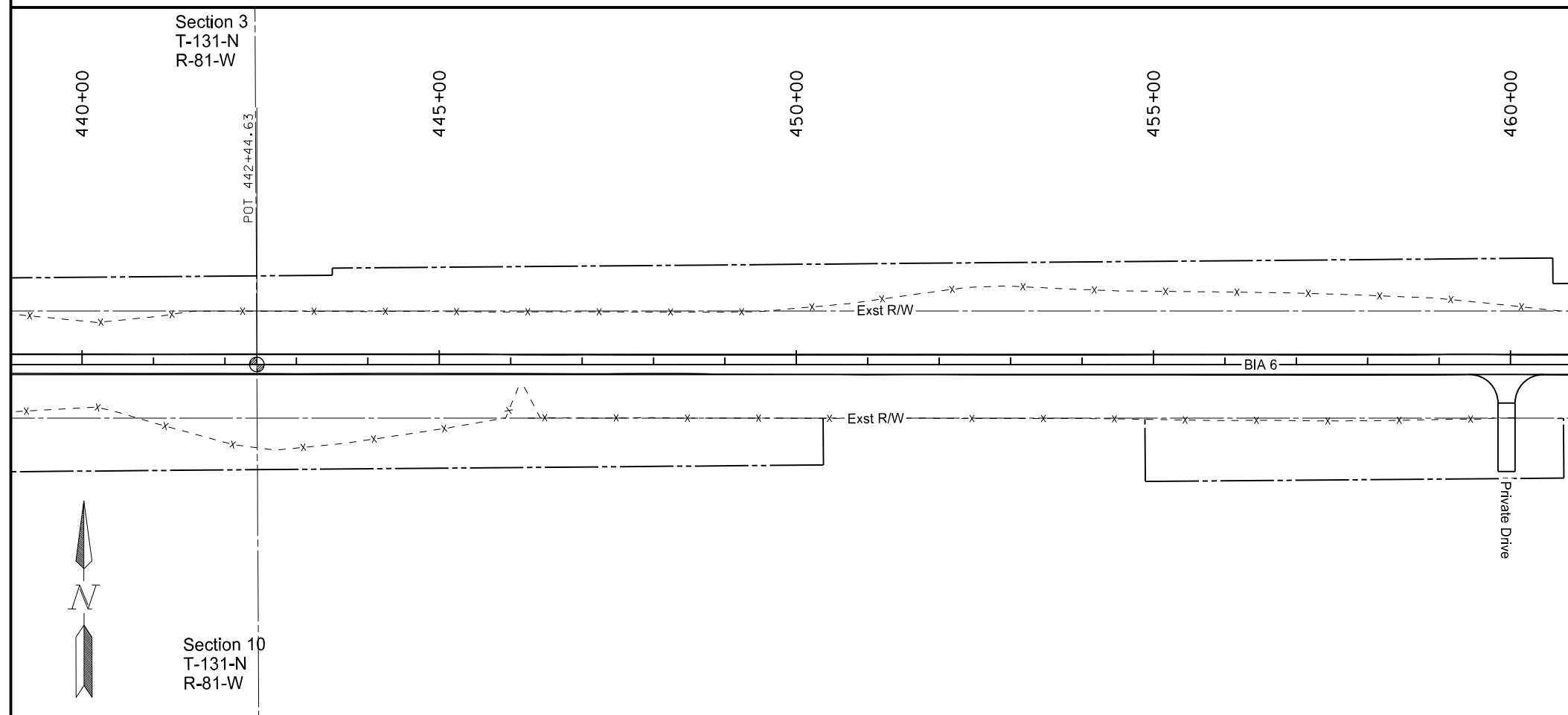
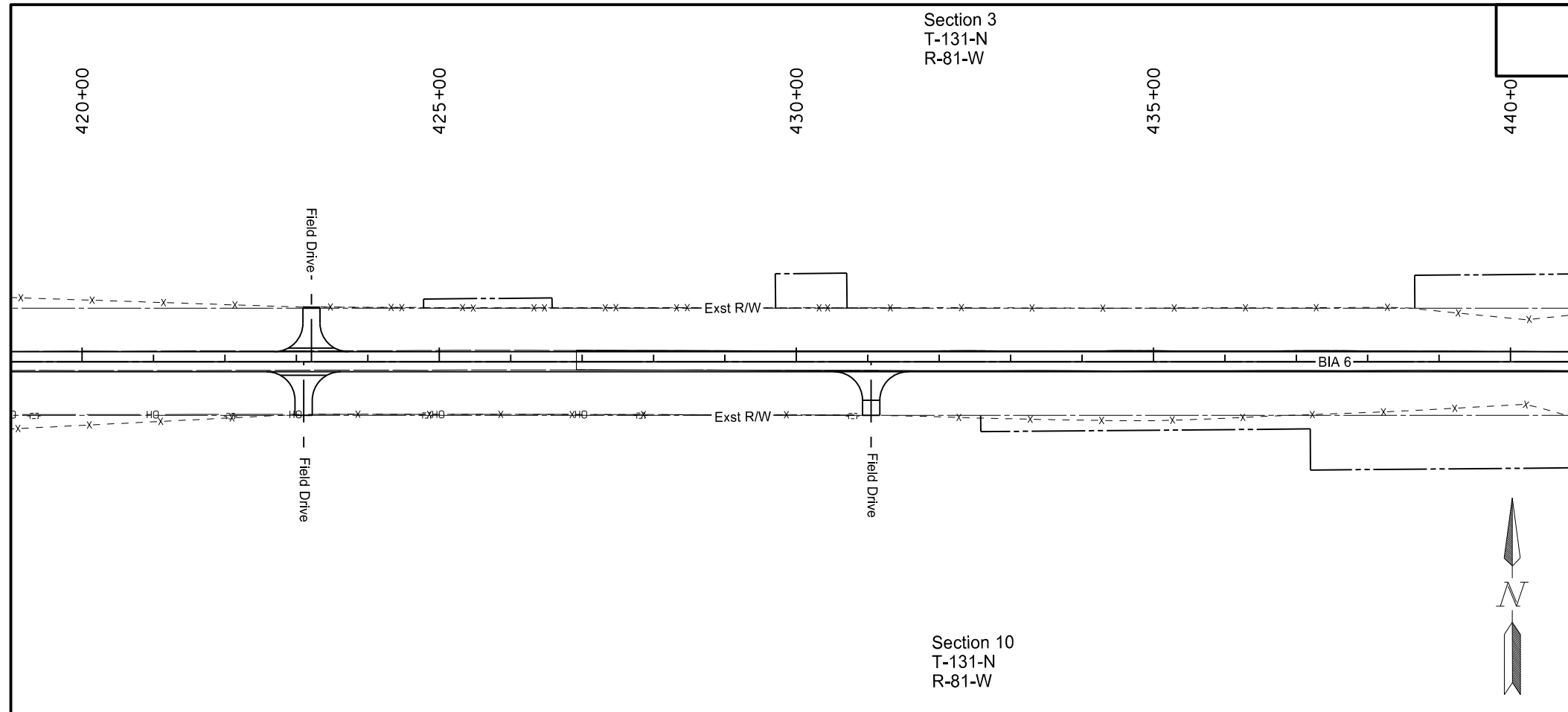
Permanent Erosion Control
Sta 300+00.00 to 340+00.00

DRAWN BY JJM	CHKD BY JPM	PROJECT NO. 1811-02480
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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	project number	77	9

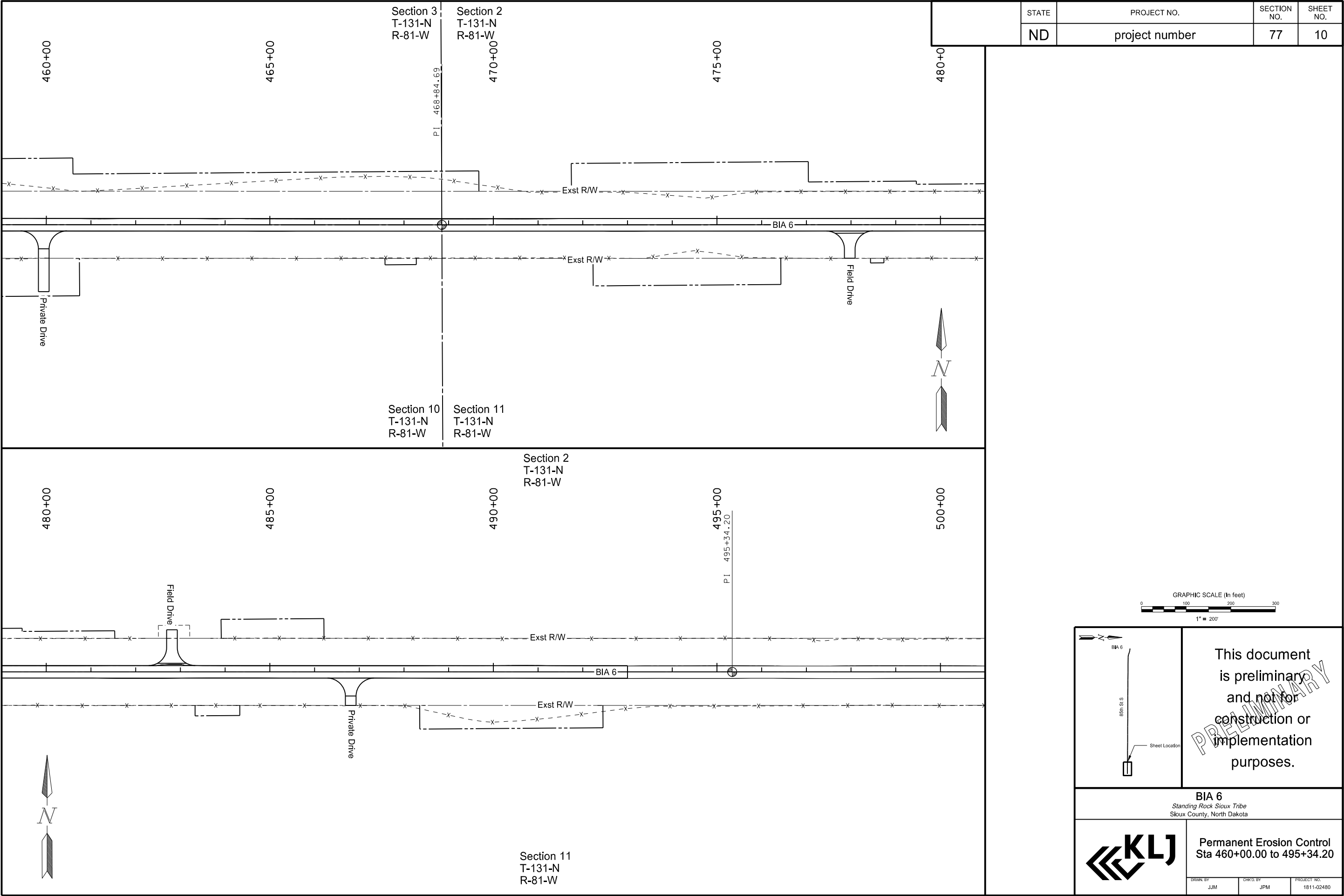


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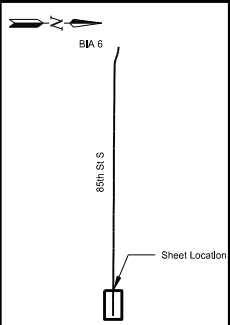
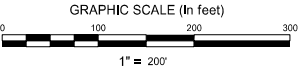
BIA 6
Standing Rock Sioux Tribe
Sioux County, North Dakota

Permanent Erosion Control
Sta 420+00.00 to 460+00.00

DRWN. BY	CHK'D. BY	PROJECT NO.
JLM	JPM	1811-02480



STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	project number	77	10



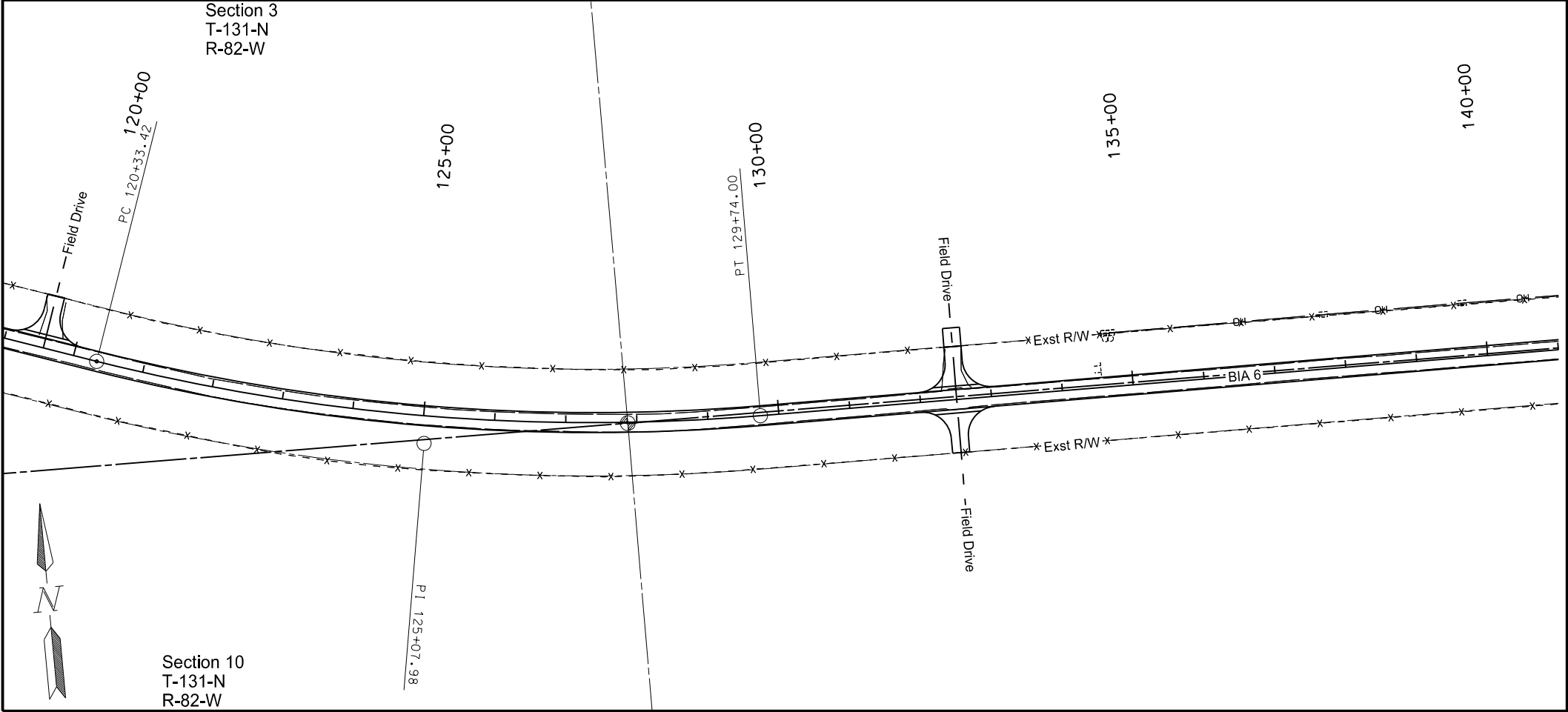
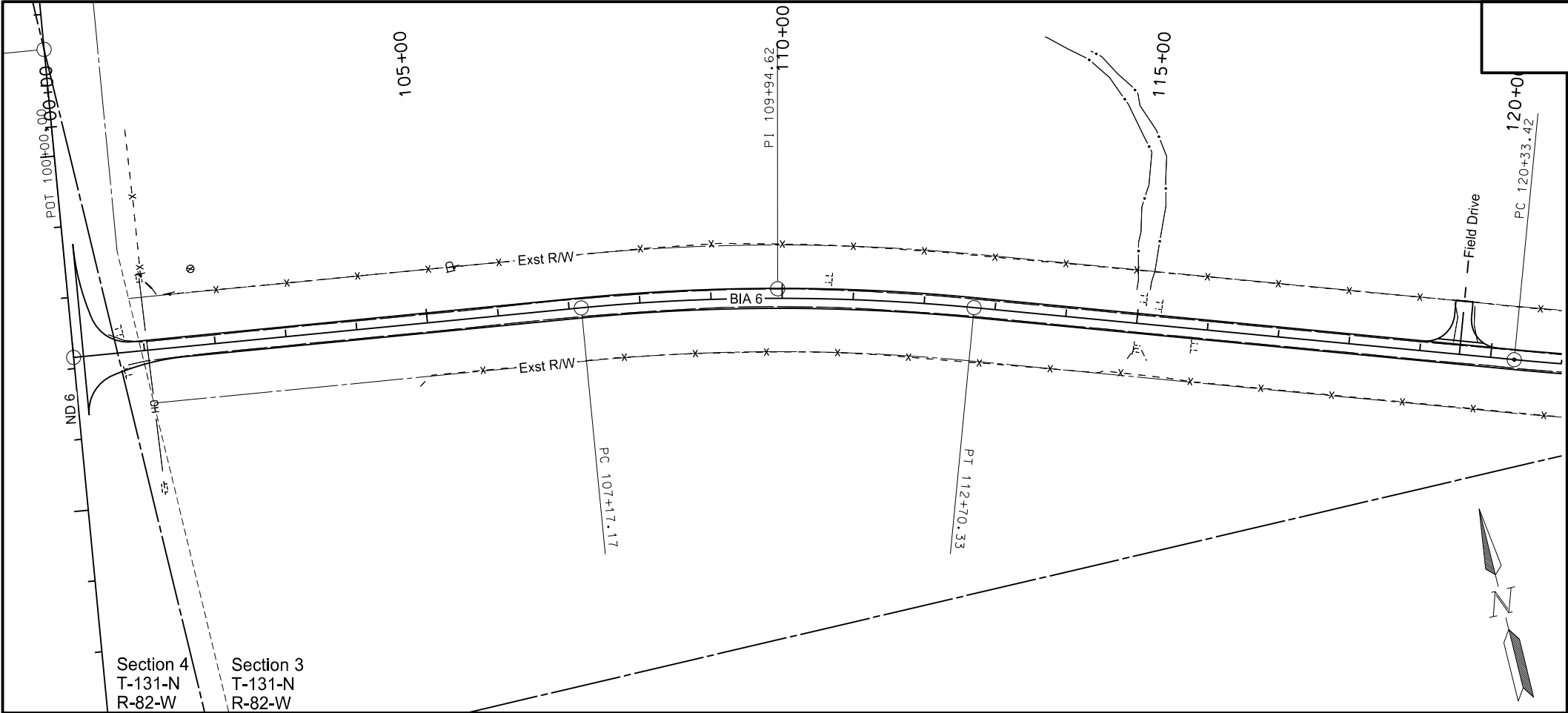
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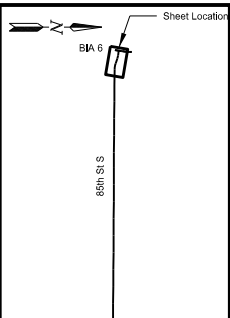
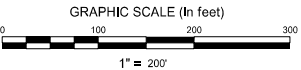
BIA 6
Standing Rock Sioux Tribe
Sioux County, North Dakota

Permanent Erosion Control
Sta 460+00.00 to 495+34.20

DRWN. BY JJM	CHKD. BY JPM	PROJECT NO. 1811-02480
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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	project number	80	1



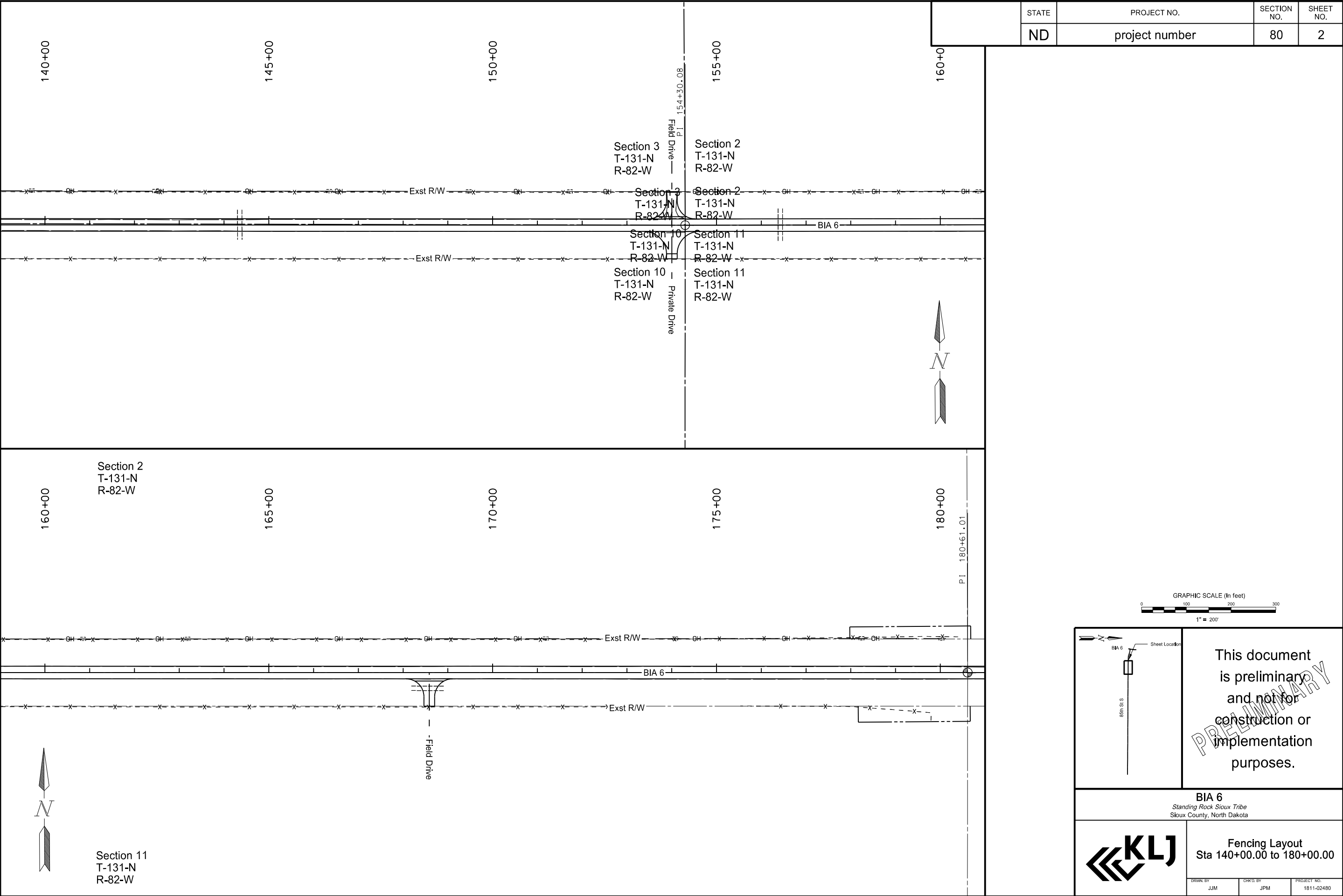
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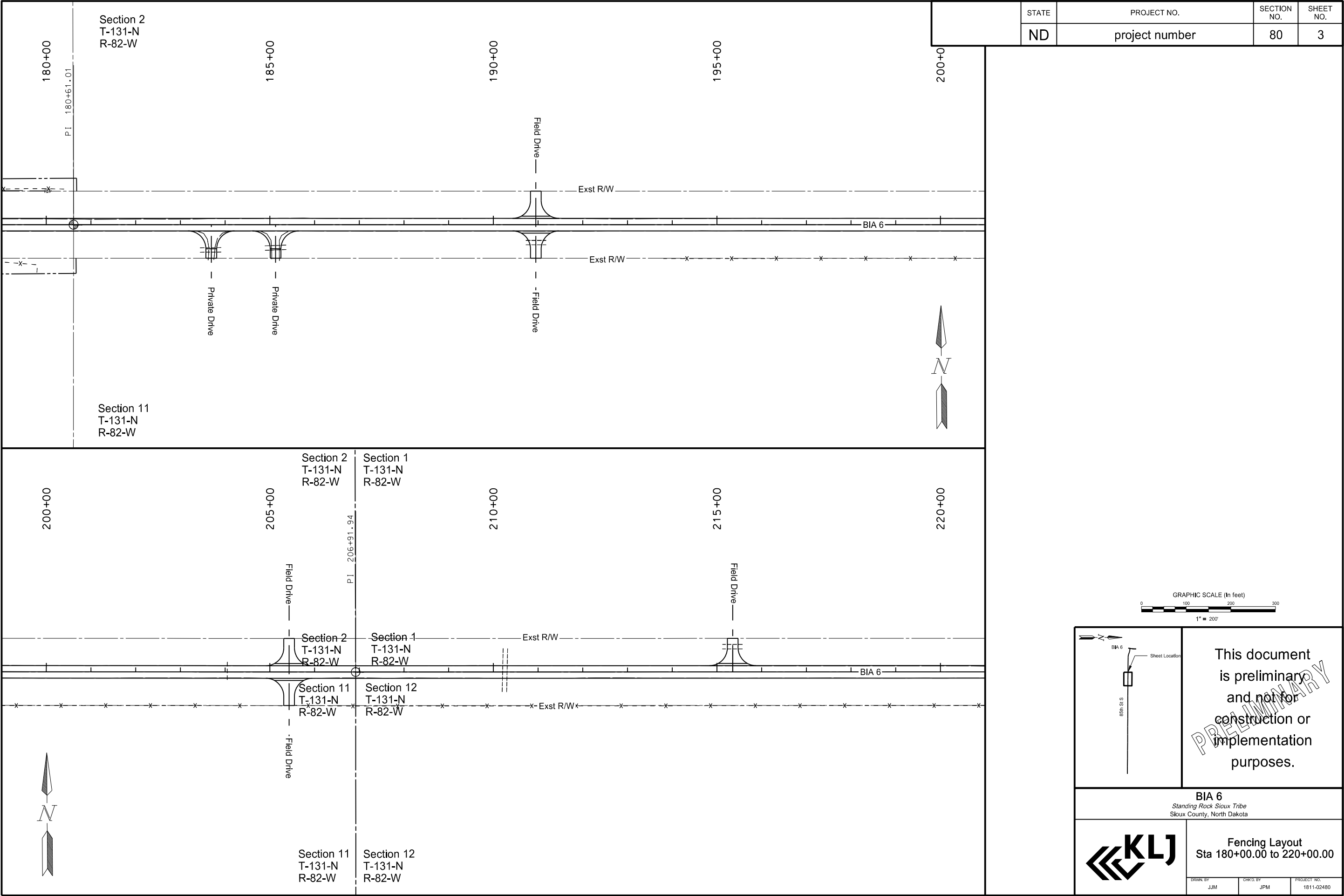
BIA 6
Standing Rock Sioux Tribe
Sioux County, North Dakota

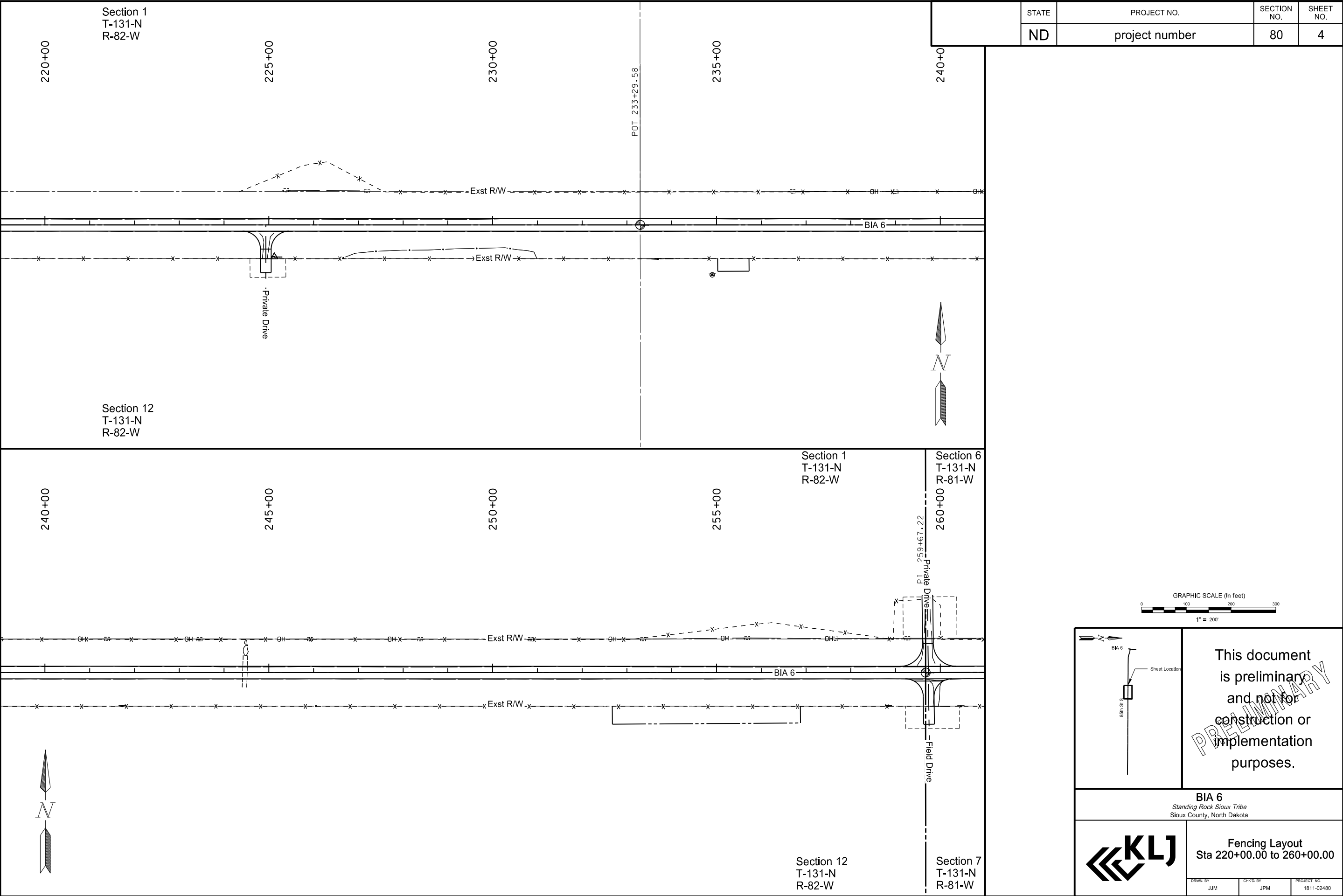


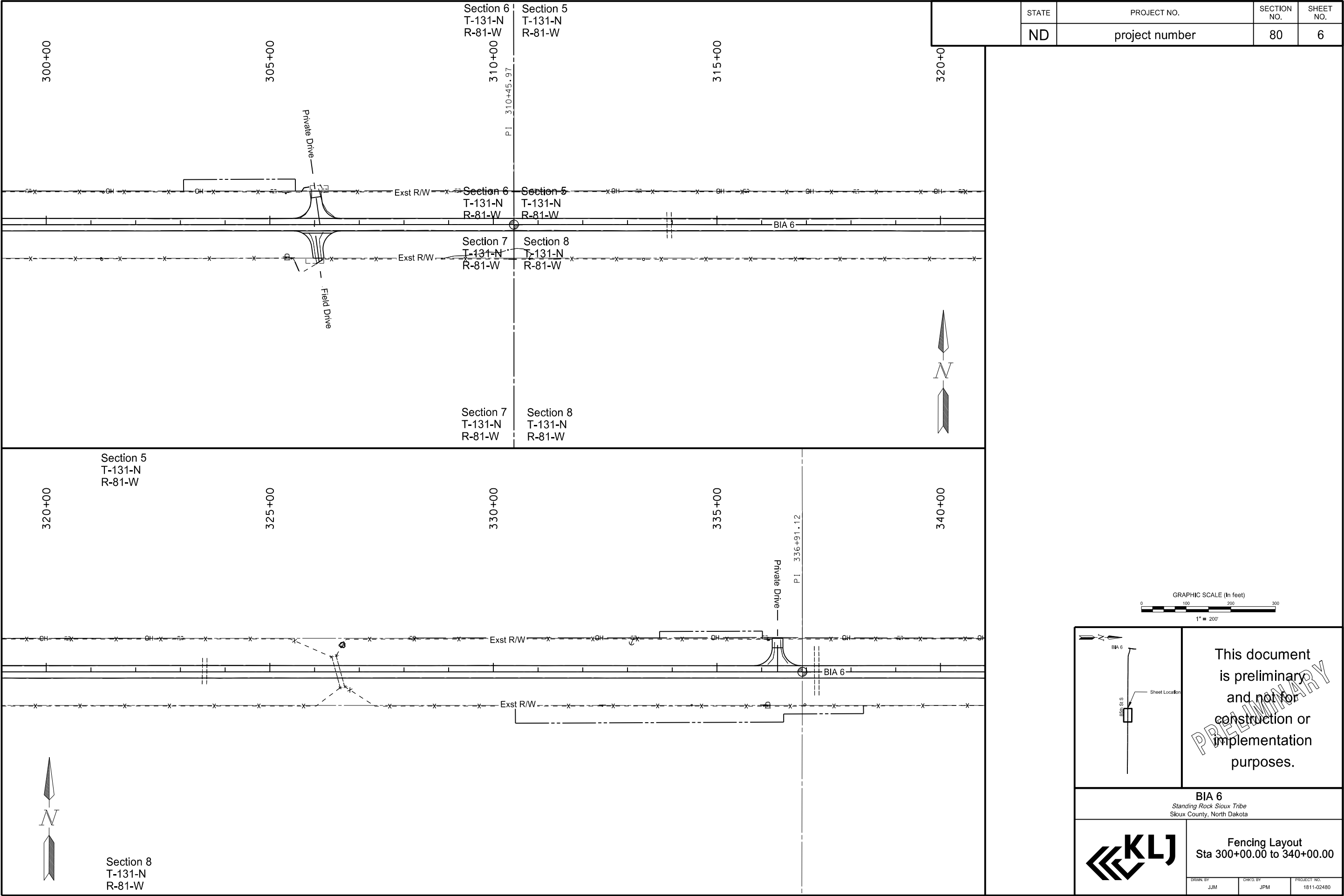
Fencing Layout
Sta 100+00.00 to 140+00.00

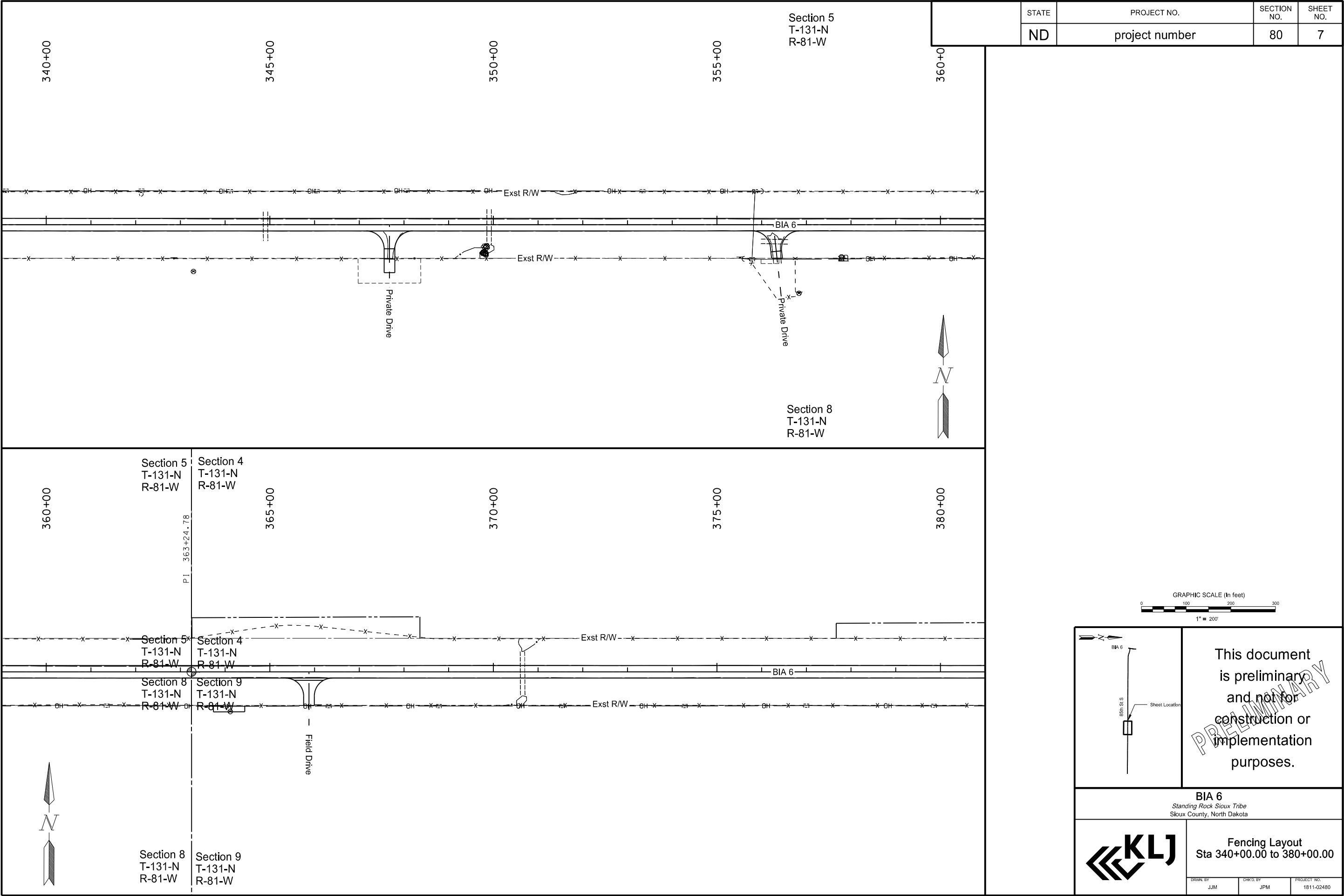
DRWN BY JJM	CHKD BY JPM	PROJECT NO. 1811-02480
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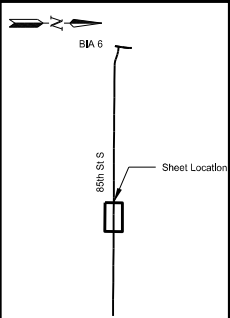
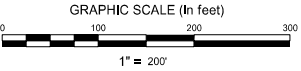








STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	project number	80	7



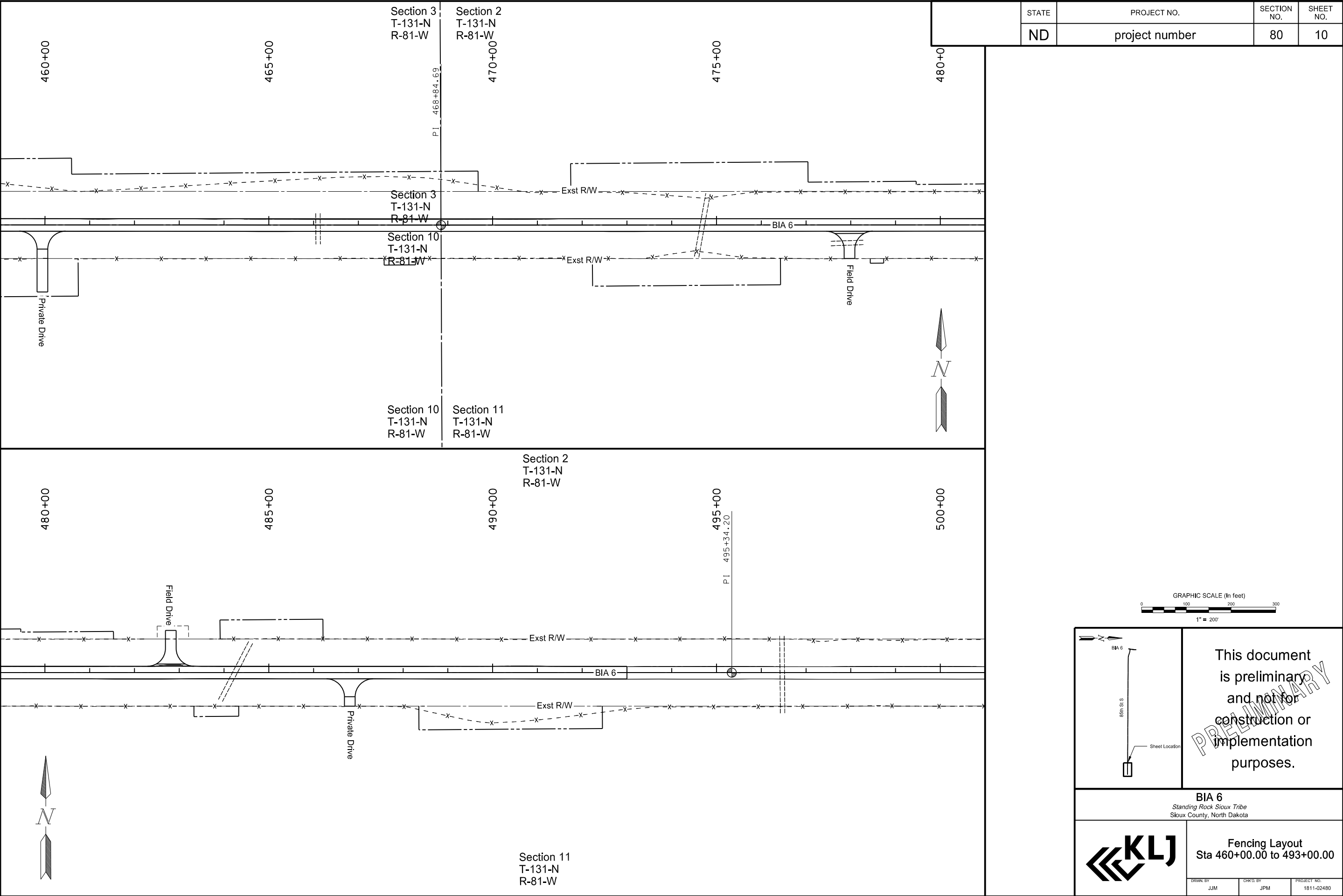
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purposes.

BIA 6
Standing Rock Sioux Tribe
Sioux County, North Dakota

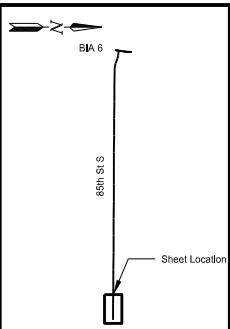
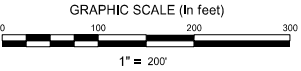


Fencing Layout
Sta 340+00.00 to 380+00.00

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	project number	80	10



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BIA 6
Standing Rock Sioux Tribe
Sioux County, North Dakota

Fencing Layout
Sta 460+00.00 to 493+00.00

DRWN BY JJM	CHKD BY JPM	PROJECT NO. 1811-02480
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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	project number	100	2

- Notes
1. The Contractor will be required to conform to MUTCD and the Standard Drawings when installing the traffic control signing.
 2. Work should follow NDDOT Standard Drawings for traffic control device selection and placement, then reused and repeated for each consecutive Phase as completed.
 3. During daylight hours of construction operation, Contractor may refer to NDDOT Standard Drawing D-704-17 for guidance on work zone signing using the support of two flaggers and a pilot vehicle.
 4. During evenings and outside hours of construction operation, Contractor may refer to NDDOT Standard Drawing D-704-17 or D-704-31 for non-signalized low volume one lane closure on two-lane roadways during each Phase. Traffic in both directions will be maintained by utilizing vertical panels.
 5. Where applicable, signs warning of uneven pavement should be used. Refer to NDDOT Standard Drawing D-704-26 and NDDOT Standard Specifications 704.04.0.
 6. Traffic must be maintained to all properties.

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BIA 6

Standing Rock Sioux Tribe

Sioux County, North Dakota

Work Zone Traffic Control

Terminal Signing Layout

DRAWN BY

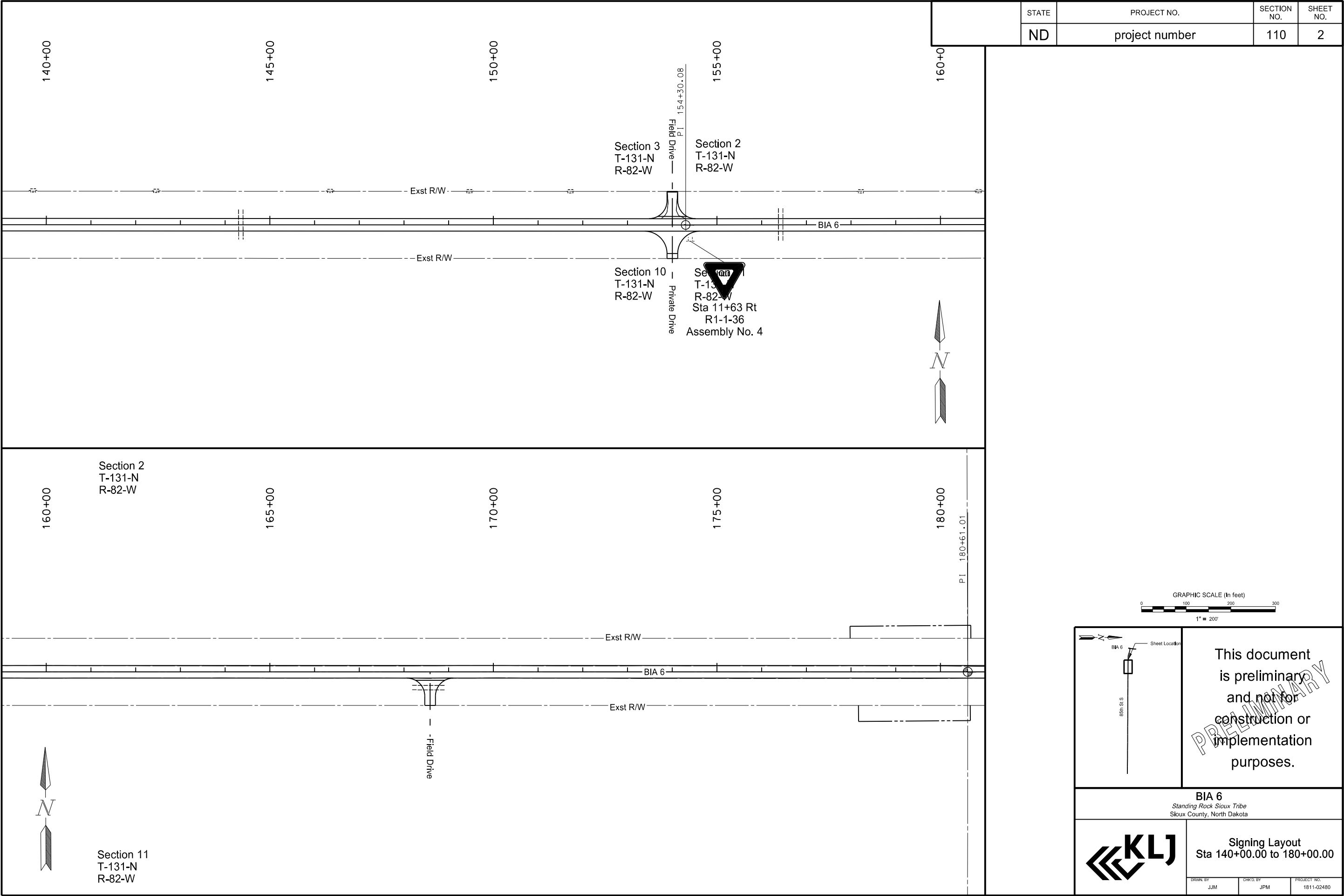
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CHKD BY

JPM

PROJECT NO.

1811-02480



STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	project number	110	2

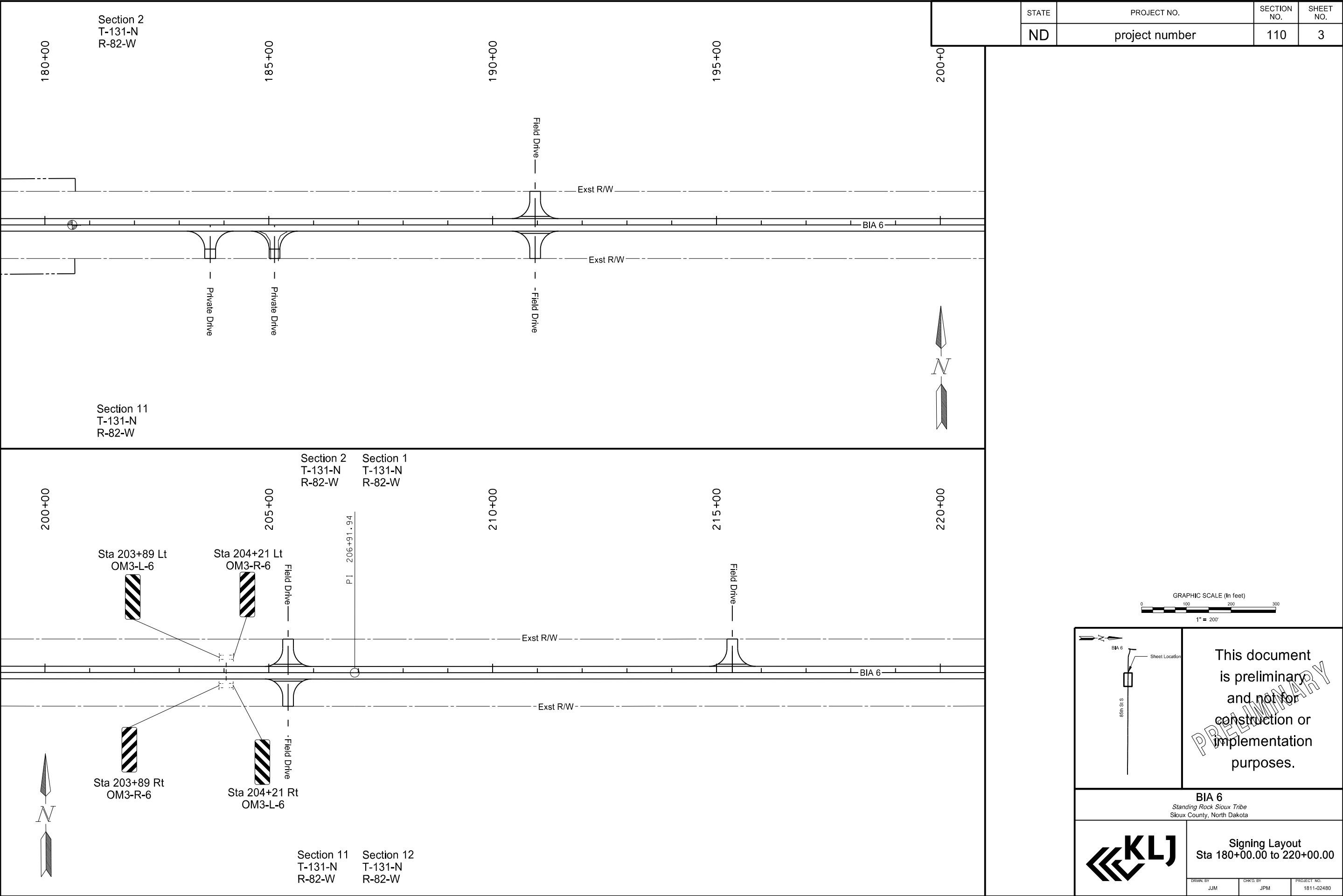
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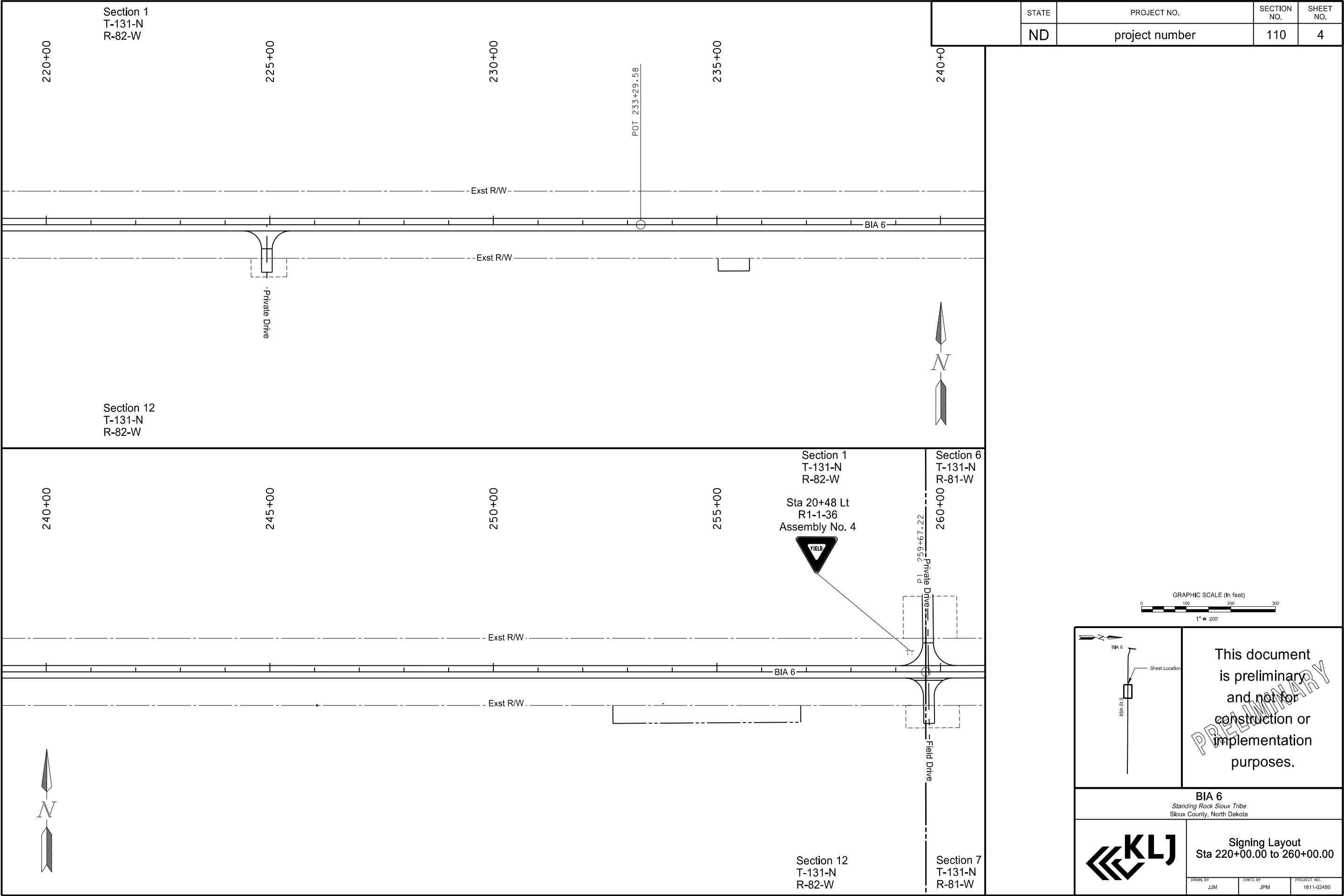
BIA 6
Standing Rock Sioux Tribe
Sioux County, North Dakota

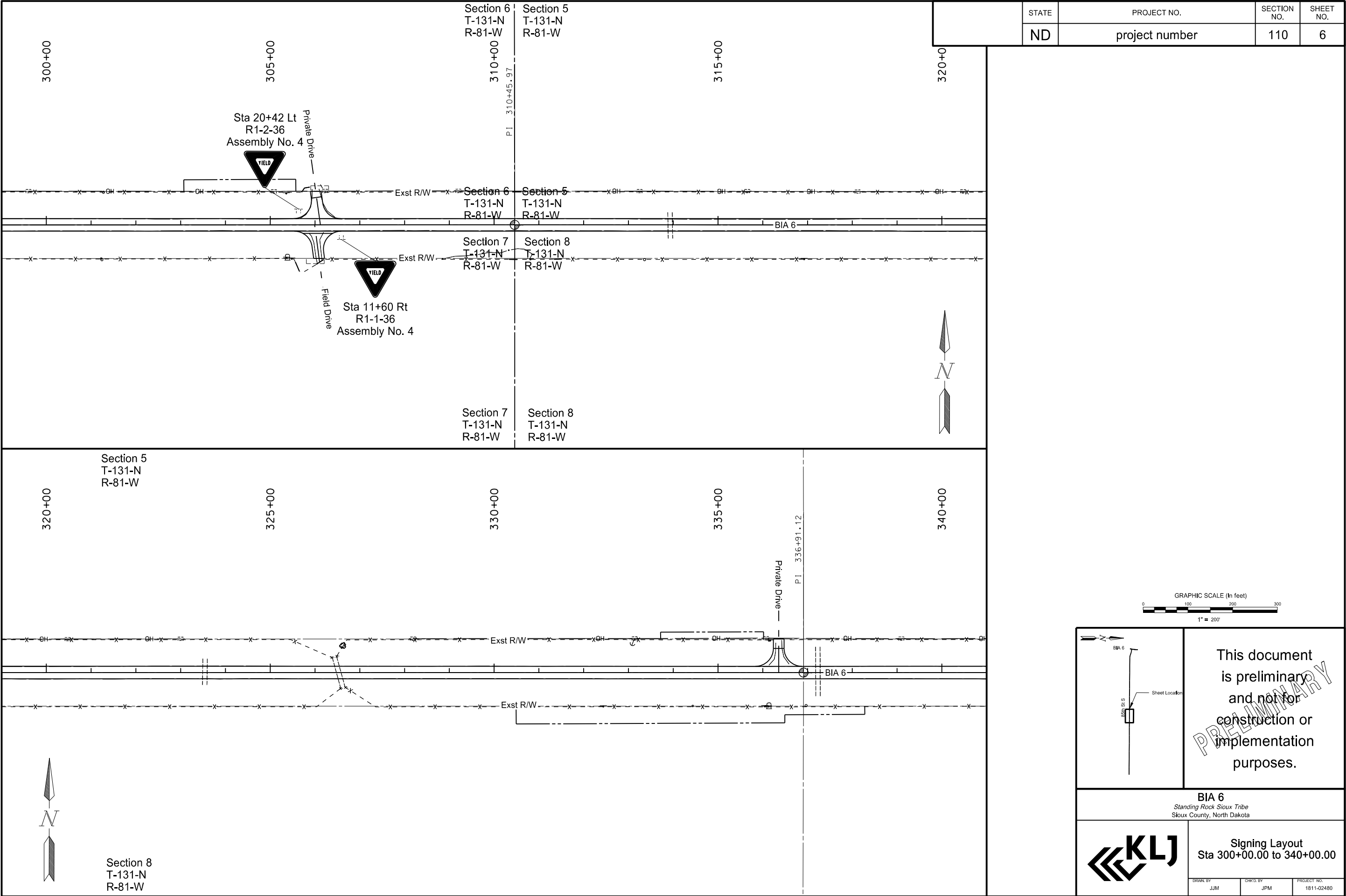
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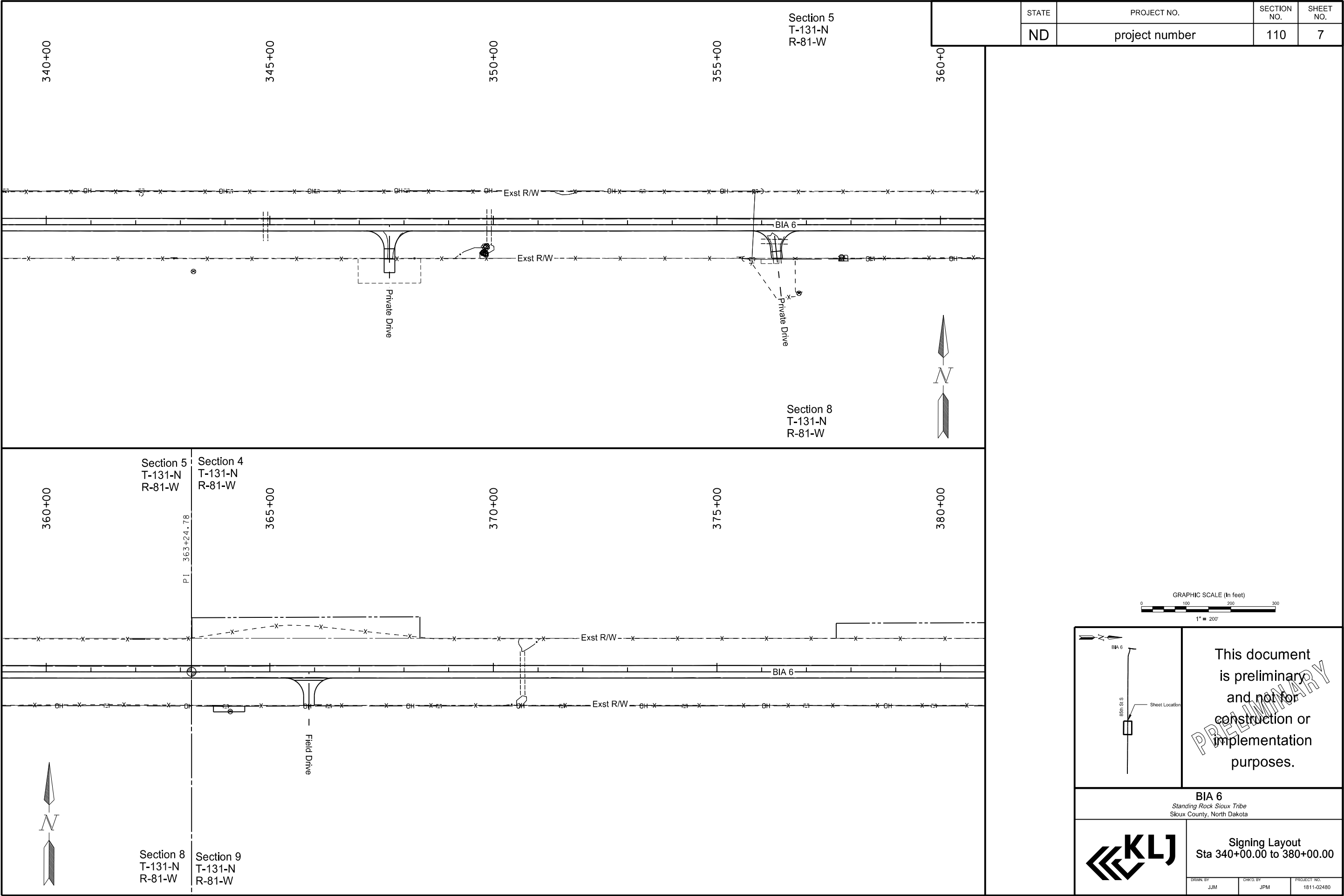
Signing Layout
Sta 140+00.00 to 180+00.00

DRAWN BY JJM	CHKD BY JPM	PROJECT NO. 1811-02480
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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	project number	110	7

GRAPHIC SCALE (In feet)

0 100 200 300

1" = 200'

BIA 6

Sheet Location

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BIA 6

Standing Rock Sioux Tribe

Sioux County, North Dakota

KLJ

Signing Layout

Sta 340+00.00 to 380+00.00

DRAWN BY

JJM

CHKD BY

JPM

PROJECT NO.

1811-02480

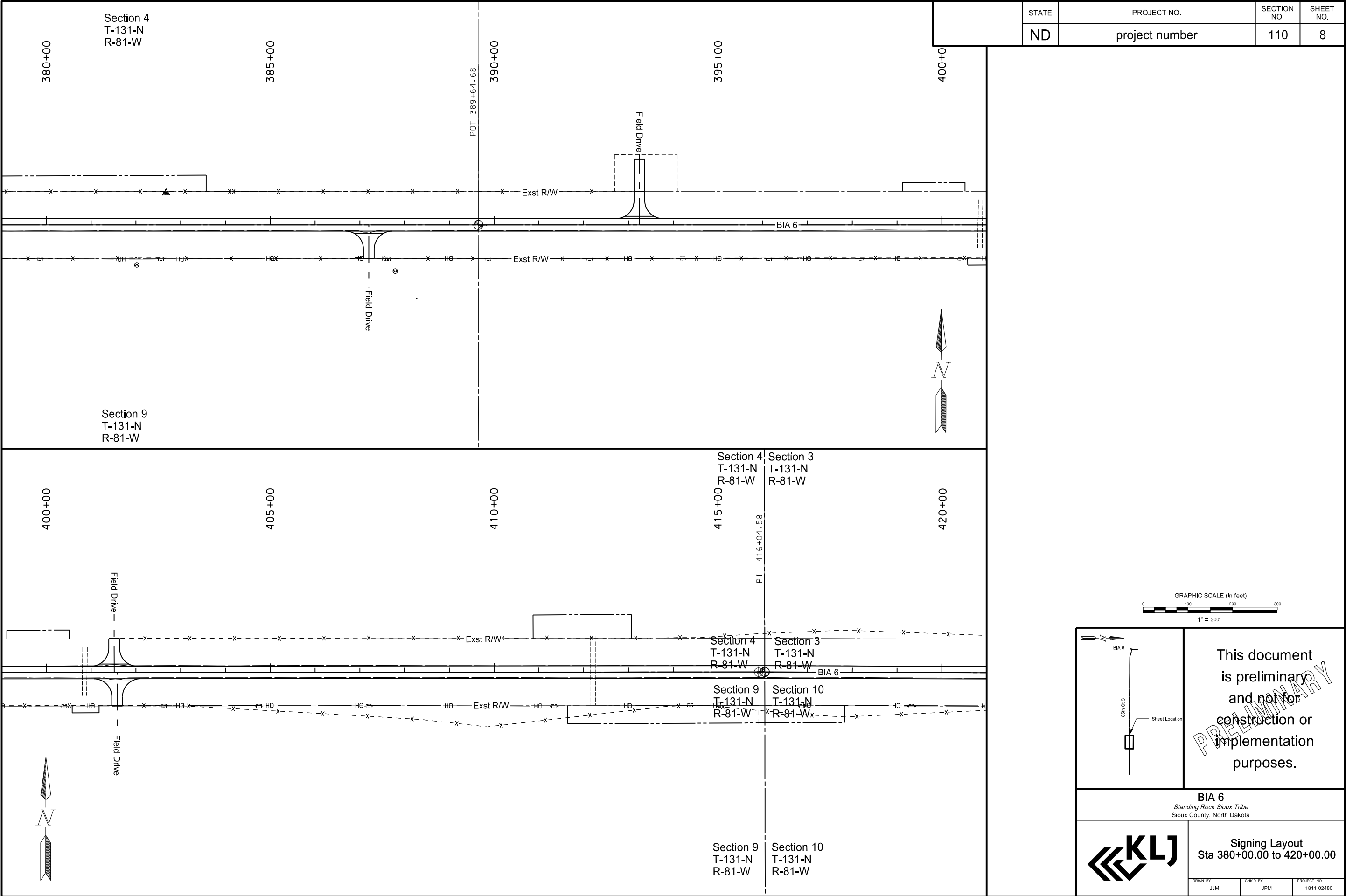
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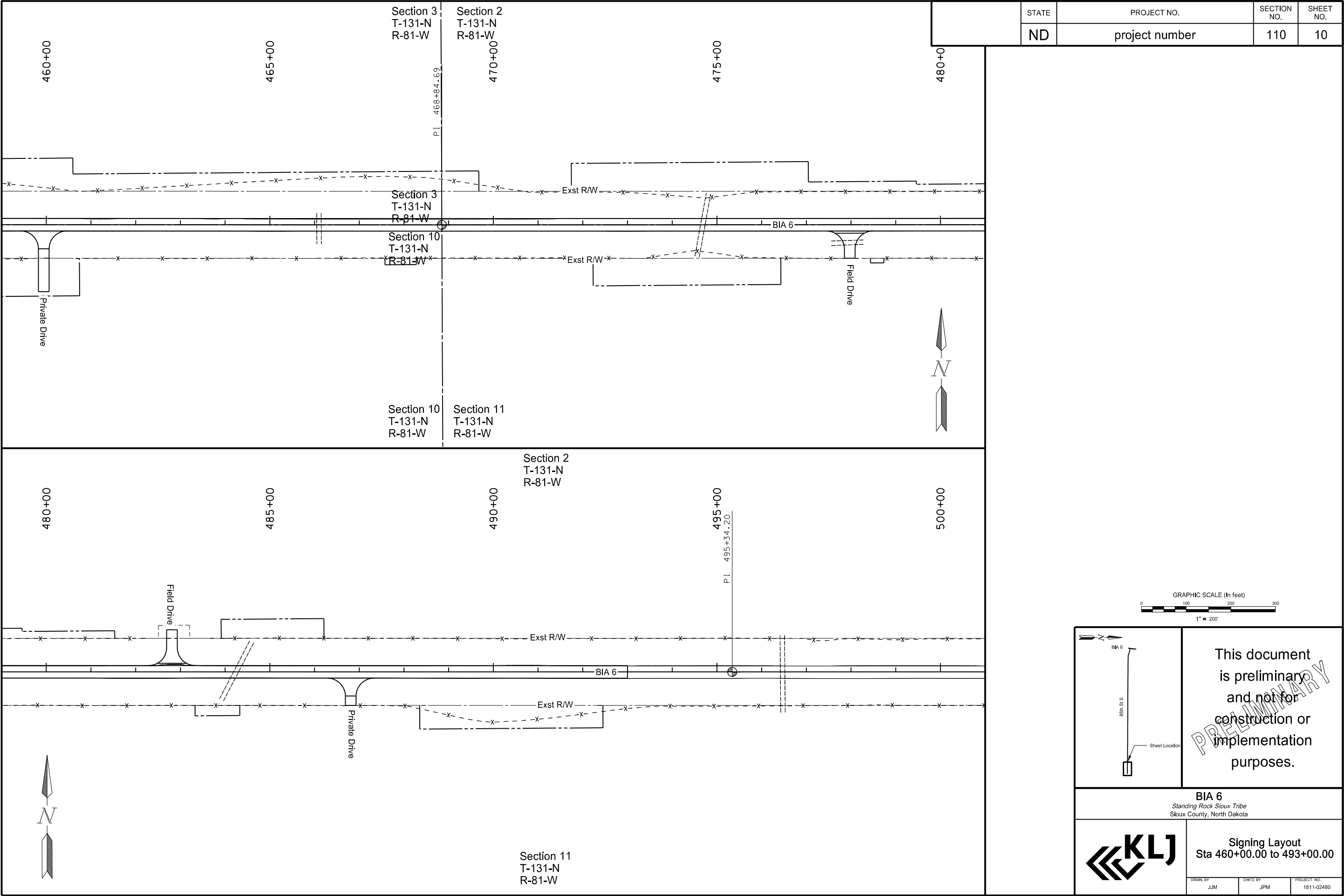
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marcusrosing

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	project number	110	10

GRAPHIC SCALE (In feet)

0 100 200 300

1" = 200'

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BIA 6
Standing Rock Sioux Tribe
Sioux County, North Dakota

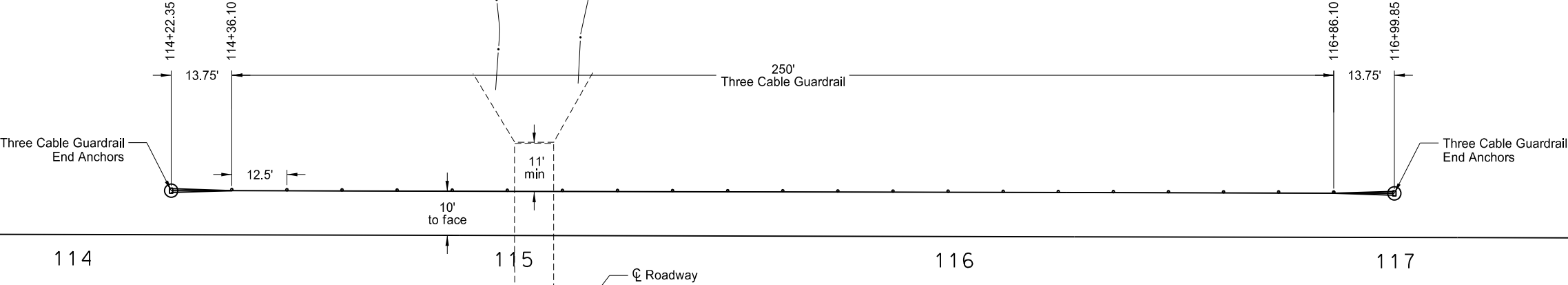
KLJ

Signing Layout
Sta 460+00.00 to 493+00.00

DRAWN BY JJM	CHKD BY JPM	PROJECT NO. 1811-02480
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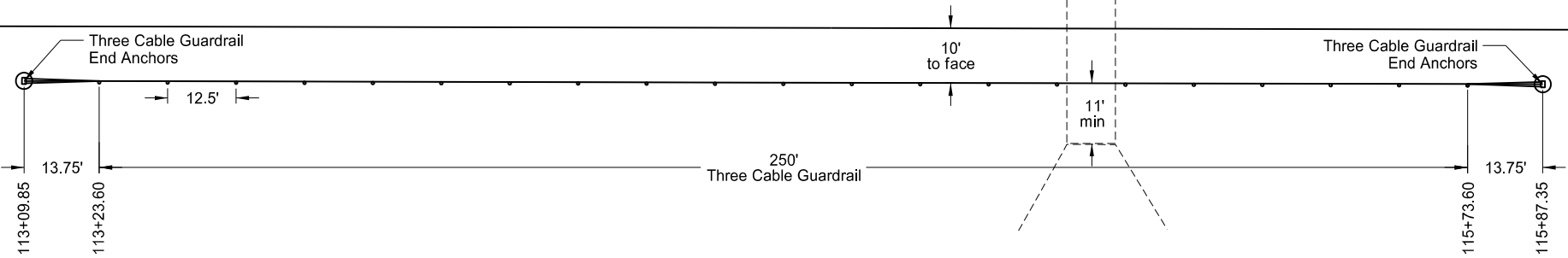
NOTES:
1. See Standard Drawing D-764-32 Three Cable Guardrail

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	project number	130	1



113 114 115 116 117

☒ Roadway



GUARDRAIL STAKING DIAGRAM

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PRELIMINARY

BIA 6
Standing Rock Sioux Tribe
Sioux County, North Dakota

KLJ

GUARDRAIL LAYOUT

DRAWN BY JJM	CHKD. BY JPM	PROJECT NO. 1811-02480
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NOTES:

1. See Standard Drawing D-764-38 for W-Beam Guardrail End Terminals.
2. See Standard Drawing D-764-14 For Special W-Beam Guardrail Anchor.
Include all costs in "W-BEAM GUARDRAIL END TERMINAL" bid item.
3. See Standard Drawing D-764-40 for MGS W-Beam Guardrail Details.

STATE

PROJECT NO.

SECTION
NO.

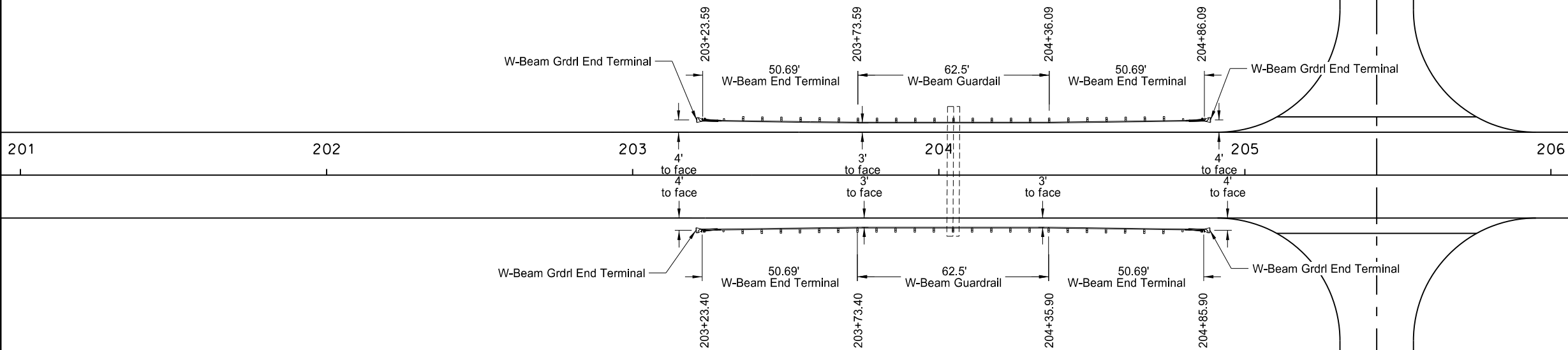
SHEET
NO.

ND

project number

130

2



GUARDRAIL STAKING DIAGRAM

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implementation
purposes.

BIA 6
Standing Rock Sioux Tribe
Sioux County, North Dakota



GUARDRAIL LAYOUT

DRAWN BY

JJM

CHKD BY

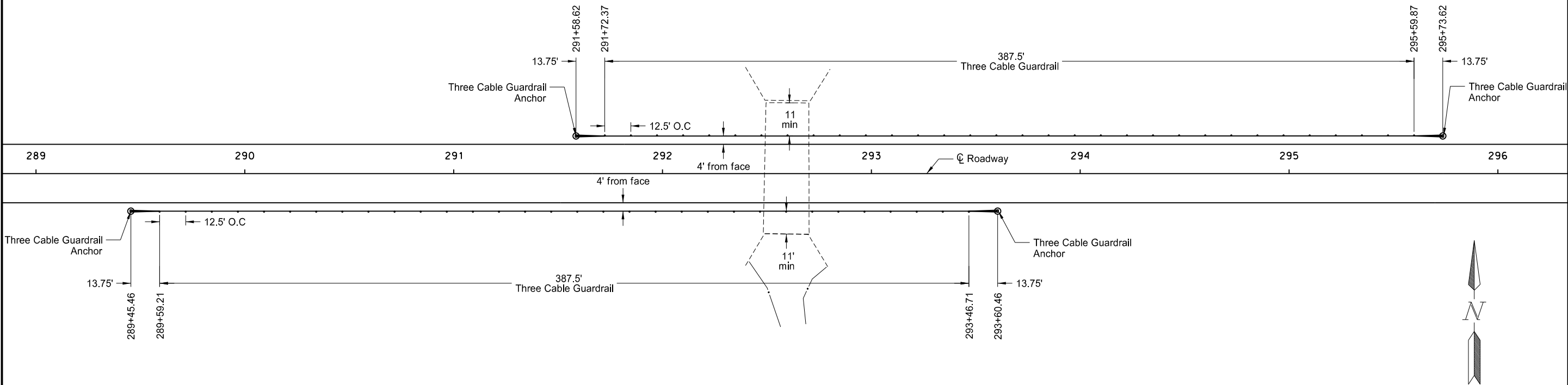
JPM

PROJECT NO.

1811-02480

NOTES:
1. See Standard Drawing D-764-32 Three Cable Guardra

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	project number	130	3



GUARDRAIL STAKING DIAGRAM

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purposes.

PRELIMINARY

BIA 6
Standing Rock Sioux Tribe
Sioux County, North Dakota

KLJ

GUARDRAIL LAYOUT

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