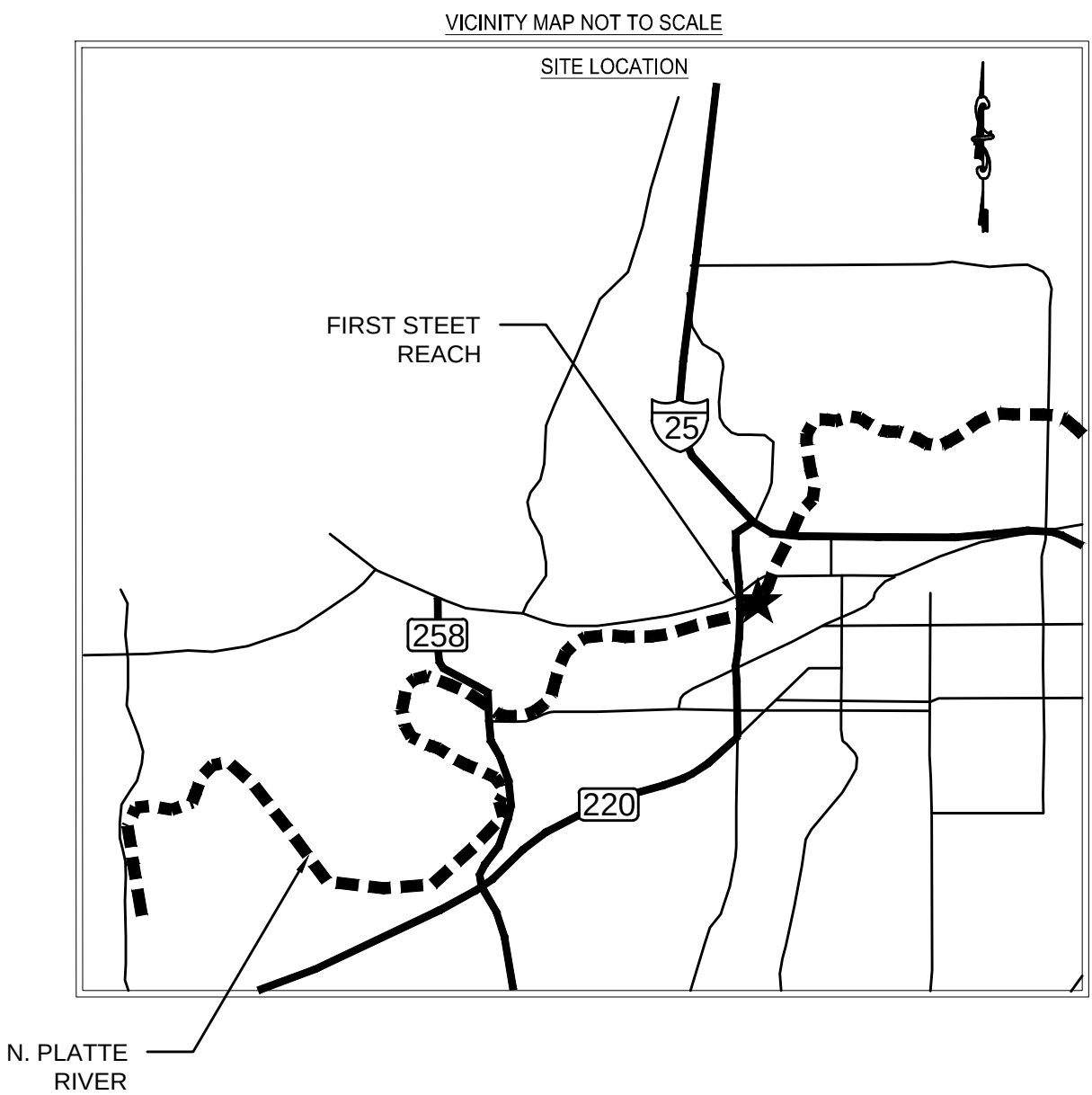


CITY OF CASPER

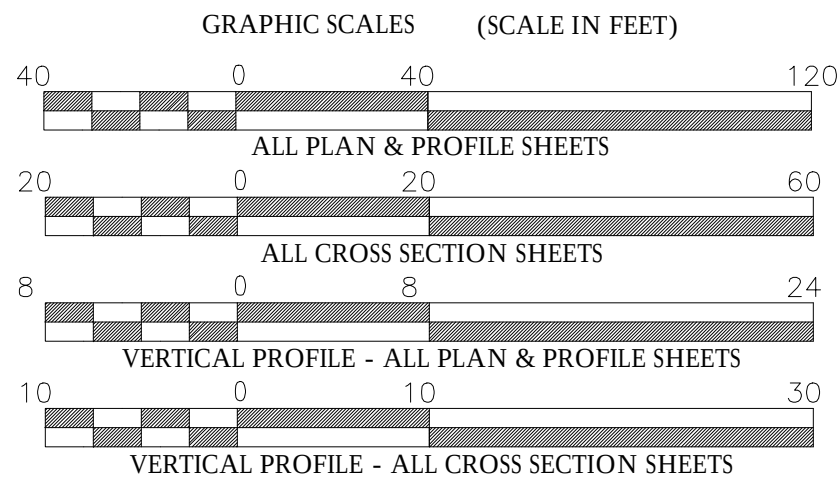
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
WY	172621100	COVER	13

NORTH PLATTE RIVER RESTORATION
FIRST STREET REACH

FEBRUARY 2021
AS-BUILT PLANS
NATRONA COUNTY, WYOMING



A		
SYM	DESCRIPTION	
REVISIONS		



PROJECT LENGTH

RESTORATION = 2,548 FT



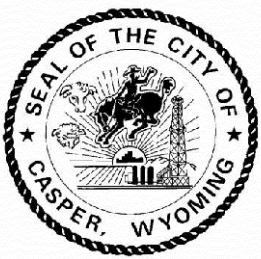
Stantec

Stantec Consulting Services Inc.
3325 South Timberline Road, Suite 150
Fort Collins, Colorado 80525
www.stantec.com

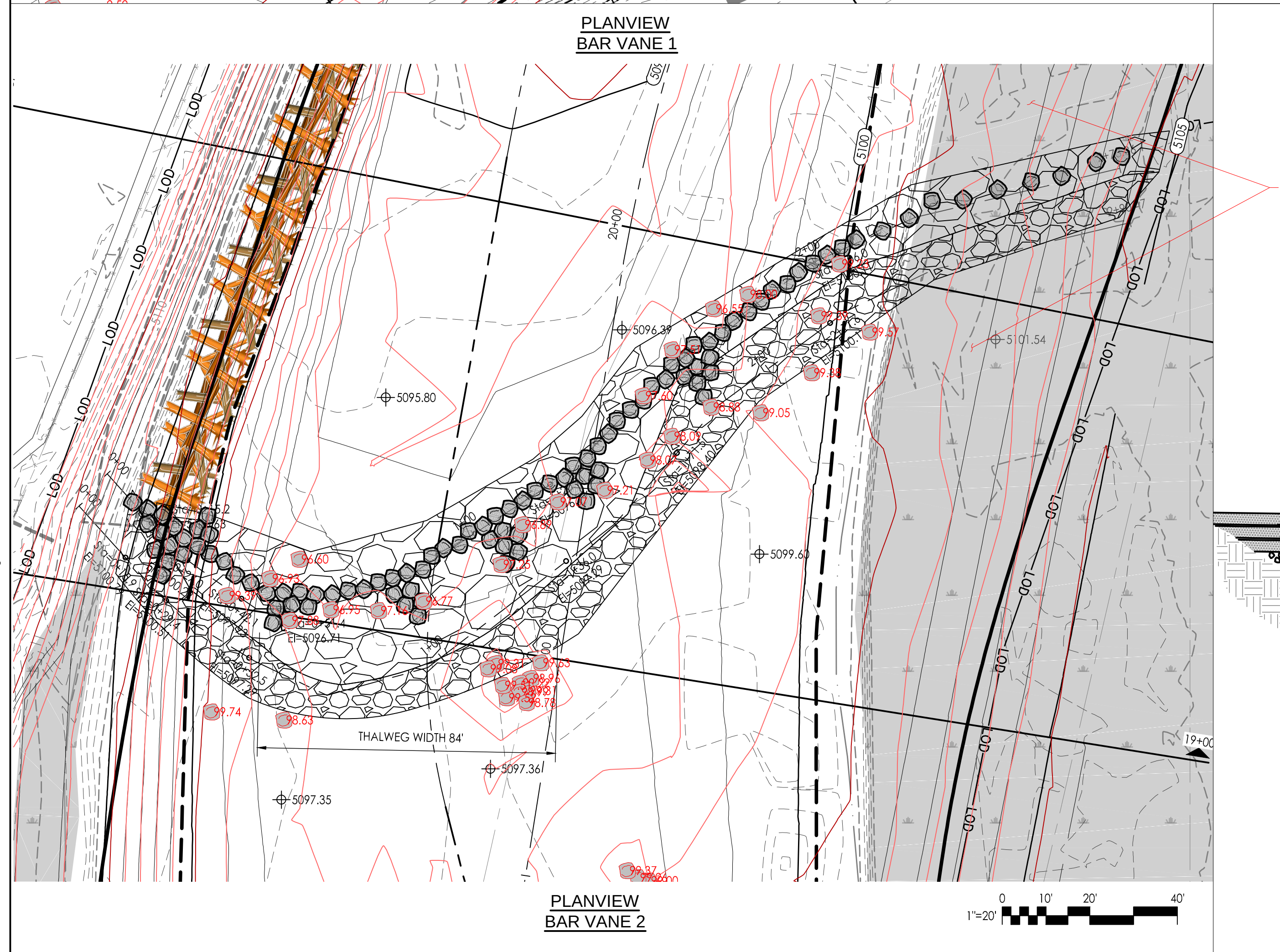
Prepared by:

TIMOTHY DINKINS
PROJECT ENGINEER

Prepared for:



Scott Baxter
PROJECT MANAGER



-
- Diagram illustrating the cross-section of a streambed excavation project. Key features and dimensions include:
- EXISTING STREAMBED** (dashed line)
 - FINAL GRADE** (solid line)
 - NATIVE COBBLE MATERIAL** (stippled area)
 - SELECT MATERIAL** (dashed line)
 - SILT BOULDER** (large oval)
 - EXCAVATE SCOUR POOL** (dashed line)
 - LIMITS OF EXCAVATION** (dashed line)
 - Dimensions:**
 - $\pm 22'$ (Main excavation length)
 - $\pm 15'$ (Scour pool length)
 - $\pm 2\%$ SLOPE (Final grade slope)
 - $2'D_{84}$ (Vertical dimension near silt boulder)
 - Labels:** 1A, 1B

Diagram illustrating the cross-section of a riprap structure, labeled "SECTION C-C". The diagram shows the relationship between existing ground, native cobble material, select material, and the final grade. Key features include:

- EXISTING GROUND**: Indicated by a dashed line.
- NATIVE COBBLE MATERIAL**: The base layer of the structure.
- SELECT MATERIAL**: The layer placed on top of the native cobble material.
- FINAL GRADE**: The top surface of the structure.
- SILL BOULDER**: A large boulder placed within the select material layer.
- 2A**: A point on the existing ground line.
- 2B**: A point on the final grade line, corresponding to the location of the sill boulder.
- +/- 2*(BOULDER DIA)**: Dimension indicating the width of the select material layer around the sill boulder.
- 2* D₉₅ DEPTH**: Dimension indicating the depth of the select material layer below the final grade.

EXISTING GROUND

BANKFULL ELEVATION

0.5' - 1.0' (TYP.)

LIVE BRANCHES

LIFT HEIGHT MAX 1.0'

INNER BERM ELEVATION

SELECT MATERIAL DEPTH OF $2 \cdot D_{84}$

2

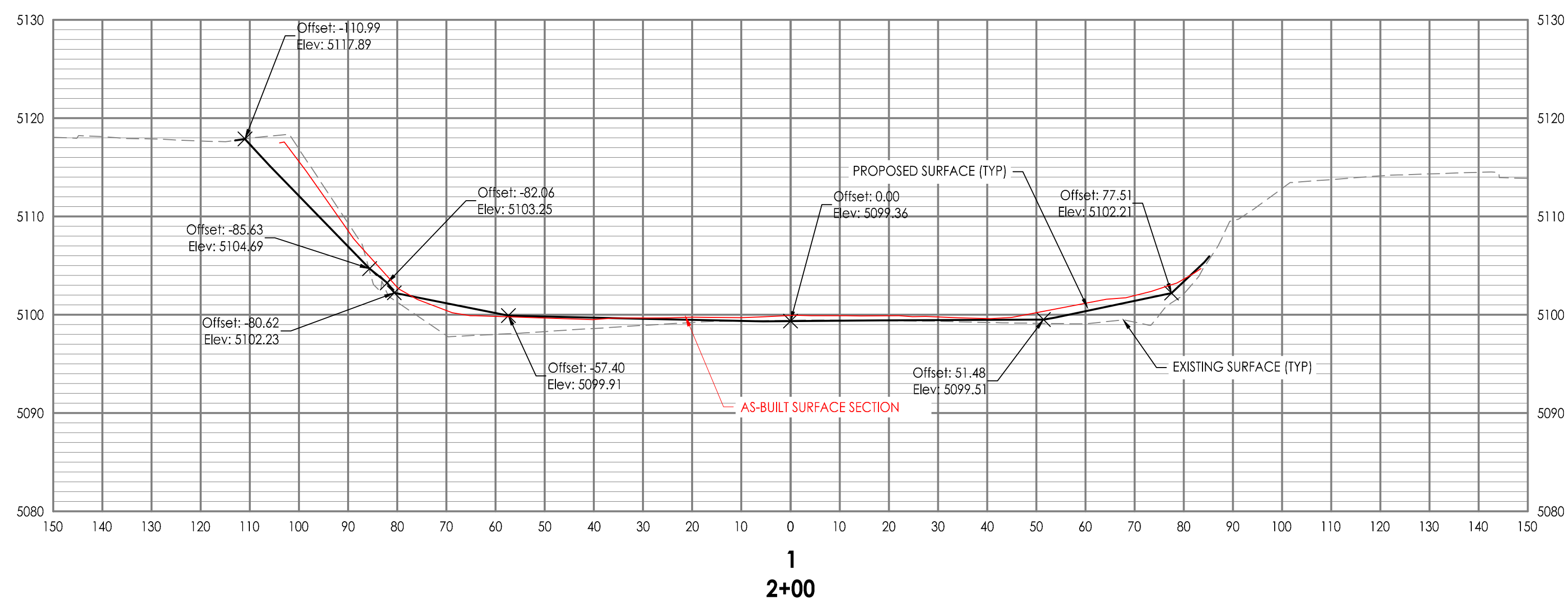
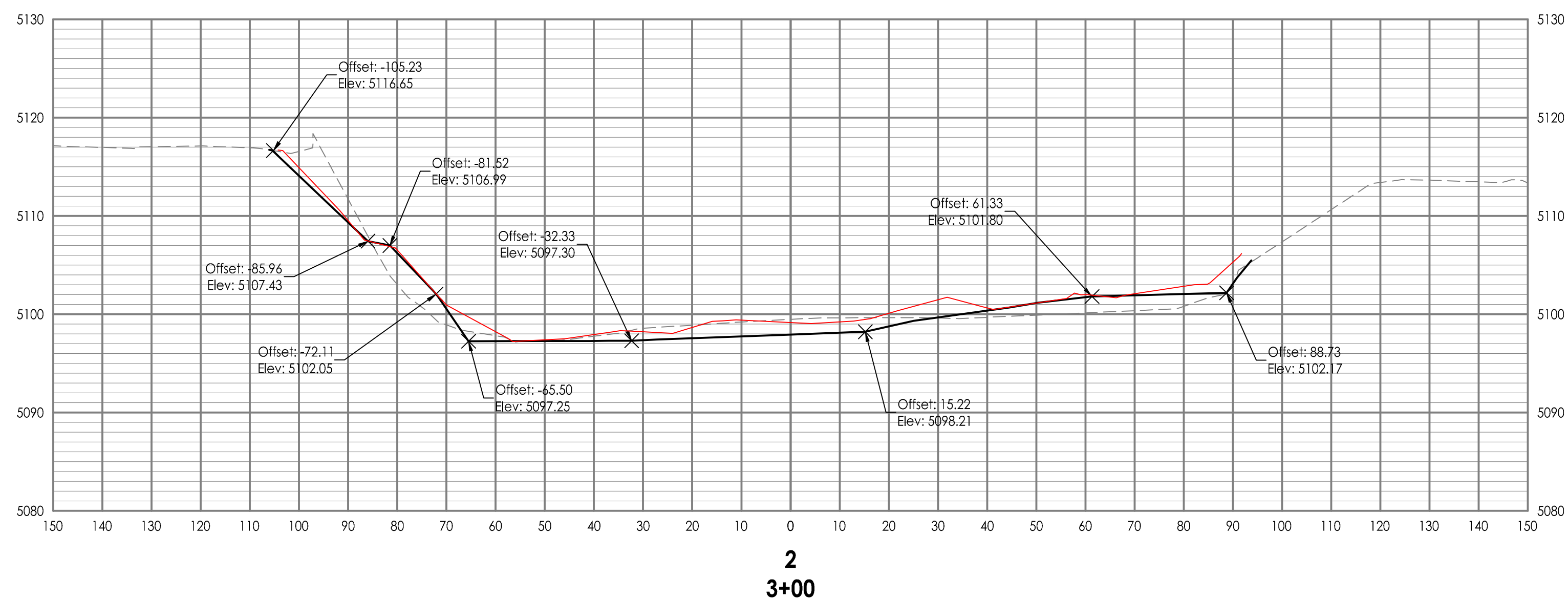
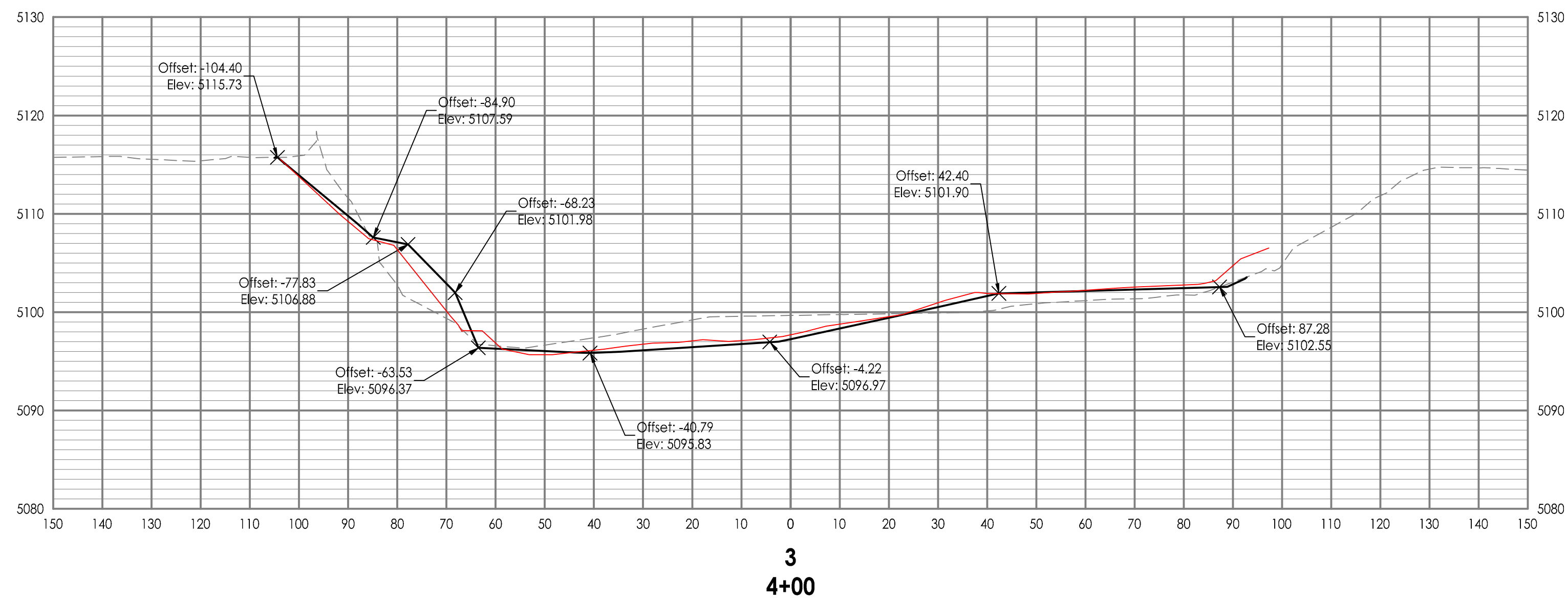
BOULDER TOE $D_{90} - D_{100}$

FILL WITH EXISTING STREAMBED MATERIAL

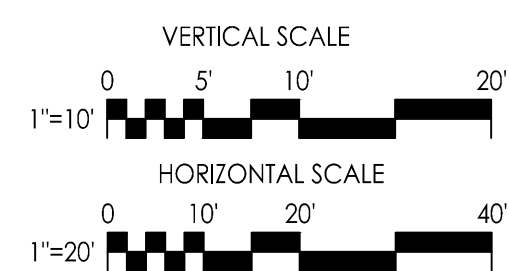
Diagram illustrating the placement of sill boulders in a channel cross-section. The diagram shows the channel bed, existing ground, and the limits of excavation. Key dimensions and labels include:

- COIR LIFTS (REFER TO SECTION TO DETERMINE AMOUNT OF LIFTS)**: Indicated at the top left of the channel bed.
- SELECT MATERIAL**: Indicated on both the left and right sides of the channel bed.
- SPACE SILL BOULDERS 1.5 - 2 BOULDER WIDTHS APART ON RIGHT SIDE OF CHANNEL BEGINNING OUTSIDE OF LOW FLOW CHANNEL EXTENTS**: Indicated on the right side of the channel bed.
- LOW FLOW WIDTH**: The width of the channel bed at low flow.
- THALWEG WIDTH (110')**: The width of the channel bed at the thalweg.
- SILL BOULDER D_{90} - D_{100} (TYP)**: The size of the sill boulders.
- CHANNEL INVERT**: The bottom of the channel bed.
- EXISTING GROUND**: The ground level before excavation.
- LIMITS OF EXCAVATION**: The boundaries of the excavation area.
- EXISTING STREAMBED**: The original channel bed.
- SILL BOULDERS TO BE TOUCHING**: Indicated at the bottom of the channel bed.

1 DETAIL - BAR VANE
NOT TO SCALE



AS-BUILT

[illegible]

Client/Project
CITY OF CASPER
2000 NORTH DAVID STREET CASPER, WY 82601
NORTH PLATTE RIVER RESTORATION
FIRST STREET REACH
CASPER, WYOMING

Title
AS-BUILT CROSS SECTIONS

Permit-Seal

Project Number: 172621110			
File Name: NPFST_AS-BUILT_PP_SHEETS.dwg			
PTP	JGA	ICD	21.2.25
Dwn.	Chkd.	Dsgn.	YY.MM.DD
Drawing No. CROSS SECTIONS			
Revision		Sheet	
0		XS-1	

