

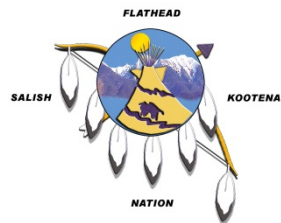
**Volume
3
of 5**

**FALLS CREEK DIVERSION REHABILITATION
PROJECT
CONSTRUCTION DRAWINGS
CSKT 23-018

CONSTRUCTION DRAWINGS**



**BY
The Confederated Salish and Kootenai Tribes
Flathead Indian Reservation – Montana**



This solicitation/specifications issued by the:

Confederated Salish and Kootenai Tribes

Natural Resources Department

P.O. Box 278

Pablo, Montana 59855

PHONE INQUIRIES

**Regarding this solicitation/specifications should be made to the office
listed below.**

See also provision B.3 of the Instructions and Conditions to Bidders.

Confederated Salish and Kootenai Tribes

**Natural Resources Department/Division of Engineering and Water
Resources**

P.O. Box 278

Pablo, MT 59855

406-676-2600

CORRESPONDENCE

**Regarding this solicitation/specifications should reference the
solicitation/specifications number.**

k:\helena\CSKT\2021087 31a canal chute & falls creek diversion\05CAD\Sheets\falls creek\box culvert bridge\21087-COV.R.dwg COVER 9/24/2023 2:31:59 PM

CONSTRUCTION DRAWINGS

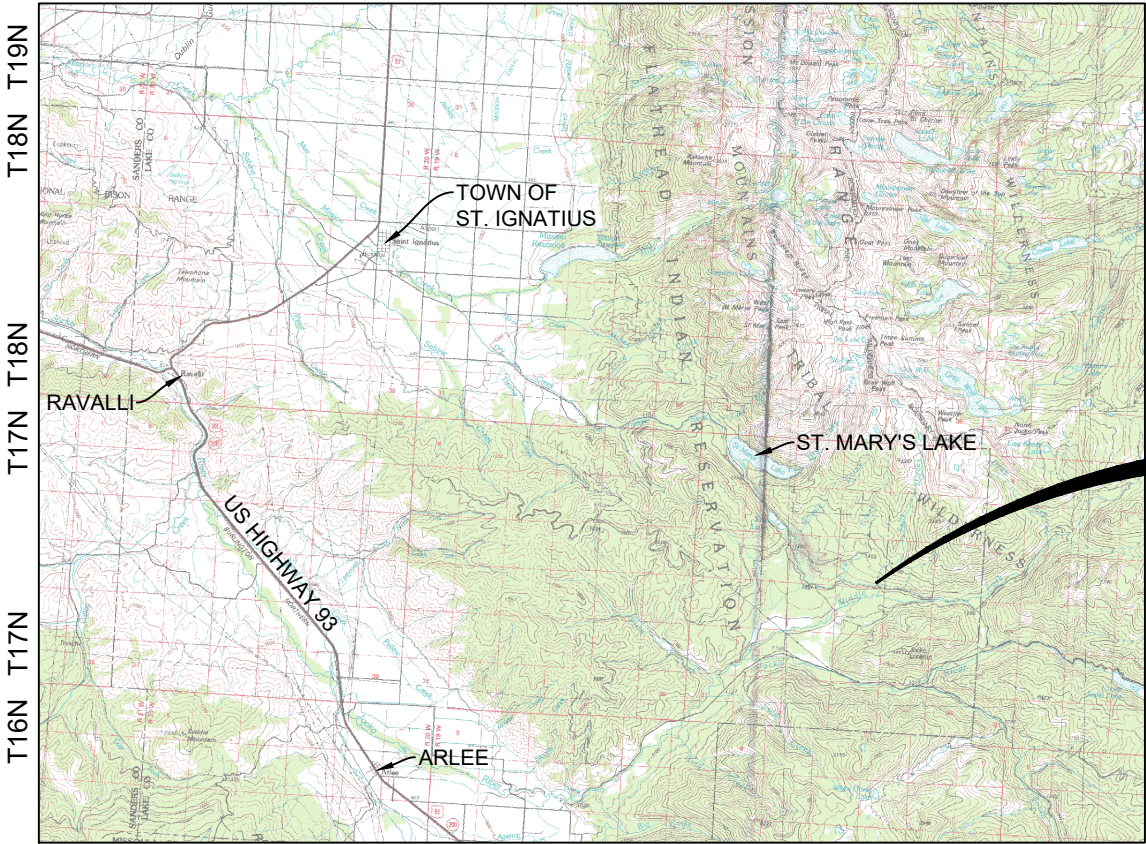
CONFEDERATED SALISH & KOOTENAI TRIBES
FALLS CREEK DIVERSION REHABILITATION



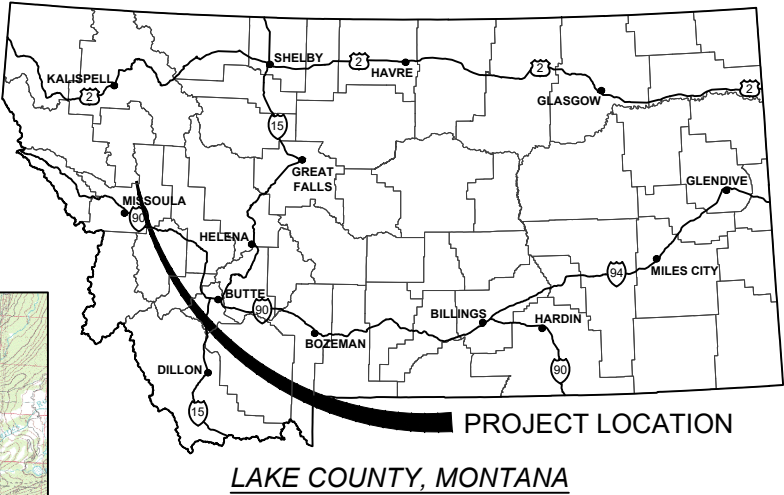
A People of Vision

Sheet List Table

Sheet Number	Sheet Title
1	COVER
2	GENERAL NOTES
3	STRUCTURAL NOTES
4	QUANTITIES
5	ACCESS MAP (1)
6	ACCESS MAP (2)
7	STAGING LOCATIONS
8	EXISTING CONDITIONS
9	SITE OVERVIEW (1)
10	SITE OVERVIEW (2)
11	ROAD PLAN & PROFILE
12	FALLS CREEK CULVERT CROSSING-PLAN VIEW
13	FALLS CREEK CULVERT CROSSING-PROFILE VIEW
14	FALLS CREEK CULVERT CROSSING-DETAILS
15	FALLS CREEK CULVERT CROSSING-CROSS SECTIONS
16	DIVERSION STRUCTURE-CONSTRUCTION SEQUENCING
17	DIVERSION STRUCTURE-CONSTRUCTION SEQUENCING (2)
18	DIVERSION STRUCTURE-PLAN AND PROFILE
19	DIVERSION STRUCTURE-BOX SECTION DETAILS
20	DIVERSION STRUCTURE-BOX SECTION DETAILS (2)
21	DIVERSION STRUCTURE-CROSS SECTIONS
22	DIVERSION STRUCTURE-CROSS SECTIONS (2)
23	DIVERSION STRUCTURE-DETAILS (1)
24	DIVERSION STRUCTURE-DETAILS (2)
25	DIVERSION STRUCTURE-DETAILS (3)
26	DIVERSION STRUCTURE-DETAILS (4)
27	DIVERSION STRUCTURE-DETAILS (5)
28	DIVERSION STRUCTURE-DETAILS (6)
29	RAMP FLUME-DETAILS
30	EROSION CONTROL PLAN
31	EROSION CONTROL PLAN (2)
32	EROSION CONTROL PLAN (3)
33	BYPASS PUMPING PLAN



LOCATION MAP



PROJECT LOCATION




0 2 mi 4 mi
SCALE: 1" = 4 mi
11" x 17" PAPER SIZE



11/15/2023



FOR BIDDING

PREPARED FOR: CONFEDERATED SALISH & KOOTENAI TRIBES P.O. BOX 278 PABLO, MT 59855 (406) 675-2700			
PREPARED BY:  1275 MAPLE STREET, SUITE F HELENA, MT 59601 (406) 443-3962 www.wwcengineering.com			
PROJECT NO. 2021-087		DESIGNED BY: <u>DSD</u>	
NO.		DRAWN BY: <u>ANC</u>	
REVISION		CHECKED BY: <u>DDP</u>	
BY		DATE: <u>9/2023</u>	
DATE		SHEET 1	

k:\helena\CSKT\2021\087_31a canal chute & falls creek diversion\05CAD\Sheets\falls creek\box culvert bridge\21087-NOTE.dwg GENERAL NOTES 8/22/2023 8:02:18 AM

GENERAL CONSTRUCTION NOTES

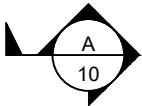
1. UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS, ALL WORK SHALL CONFORM TO SPECIFICATIONS PROVIDED IN THE BID DOCUMENTS AND THESE PLANS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS REQUIRED AND CONSTRUCTION TESTING FOR CONSTRUCTION ACTIVITIES.
3. THE CONTRACTOR SHALL RESTORE ALL ROADWAYS TO EQUAL OR BETTER CONDITION THAN EXISTED PRIOR TO CONSTRUCTION, AS DETERMINED BY THE OWNER AND THE ENGINEER.
4. THE LOCATION, DEPTH AND SIZE OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY THE EXISTENCE, LOCATION, DEPTH, SIZE, LINE AND GRADE OF EXISTING UTILITY CONNECTIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING FACILITIES DUE TO FAILURE TO LOCATE OR PROVIDE PROPER PROTECTION WHEN LOCATION IS KNOWN.
5. THE CONTRACTOR SHALL SUPPLY ALL NECESSARY FITTINGS, COUPLINGS AND SPOOL PIECES FOR CONNECTING NEW UTILITIES TO EXISTING UTILITIES. THESE PLANS MAY NOT SHOW ALL REQUIRED COMPONENTS FOR MAKING THE CONNECTIONS.
6. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST AND EROSION DURING CONSTRUCTION AT THE CONTRACTOR'S EXPENSE. EROSION SHALL BE CONTROLLED IN ACCORDANCE WITH EPA REGULATIONS.
7. ALL PROFILES REPRESENT EXISTING GROUND (DASHED LINE) AND FINISHED GRADE (SOLID LINE) ALONG THE ALIGNMENTS INDICATED ON THE PLANS. ELEVATIONS ARE FINISHED GROUND ELEVATIONS.
8. ALL DISTURBED AREAS SHALL BE SEEDED BY THE CONTRACTOR USING A SEED MIX APPROVED BY THE OWNER.
9. THE CONTRACTOR SHALL NOTIFY ONE CALL @ 1-800-424-5555 FOR ONSITE UTILITY LOCATION. ALL EXISTING UTILITIES SHALL BE MARKED BEFORE DIGGING.
10. THE CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY WORK.
11. QUANTITIES SHOWN IN THESE PLANS ARE FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ACTUAL QUANTITIES.
12. ALL RIPRAP (INCLUDING GROUTED) SHALL HAVE A D₅₀ SIZE OF 18-INCHES, UNLESS OTHERWISE SPECIFIED AND SHALL HAVE A 8-OZ NON-WOVEN GEOTEXTILE FABRIC PLACED BENEATH THE RIPRAP.
13. SALVAGE TREES OF THESE SIZES WHEREVER POSSIBLE.

• 12" DIAMETER, 15' LONG WITH ROOTWAD (3' MIN ROOTWAD)

• 8"-12" DIAMETER, 15' LONG

• 6"-12" DIAMETER, 8' LONG

DRAWING NOTATION



INDICATES CROSS SECTION LOCATION. "A" REFERS TO THE CROSS SECTION DESIGNATION. "10" REFERS TO THE SHEET NUMBER WHERE THE SECTION IS CUT OR SHOWN.



INDICATES DETAIL LOCATION. "1" REFERS TO THE DETAIL DESIGNATION. "12" REFERS TO THE SHEET NUMBER WHERE THE DETAIL IS INDICATED OR SHOWN.

ABBREVIATIONS

ACI	AMERICAN CONCRETE INSTITUTE
BAR	REBAR
BMP	BEST MANAGEMENT PRACTICES
BOT	BOTTOM
BVC	BEGIN VERTICAL CURVE
CFS	CUBIC FEET PER SECOND
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE OR CONCENTRIC
CP	CONTROL POINT
CSP	CORRUGATED STEEL PIPE
CTR	CENTER
CU FT	CUBIC FEET
CULV	CULVERT
DI	DUCTILE IRON OR DRAIN INLET
DIA	DIAMETER
EA	EACH
E.F.	EACH FACE
EL, ELEV	ELEVATION
EOP	EDGE OF PAVEMENT
EVC	END VERTICAL CURVE
FT	FOOT OR FEET
GPM	GALLONS PER MINUTE
HP	HORSEPOWER

HWY	HIGHWAY
INV	INVERT ELEVATION
LF	LINEAR FEET
MH	MANHOLE
MJ	MECHANICAL JOINT
O.C.	ON CENTER
O.C.E.F.	ON CENTER EACH FACE
OHP	OVERHEAD POWER
PI	POINT OF INTERSECTION
POT	POINT ON TANGENT
PS	PIPE SUPPORT
PT	POINT, POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
PWR	POWER
RCP	REINFORCED CONCRETE PIPE
R/W OR ROW	RIGHT OF WAY
SAN	SANITARY
SST	STAINLESS STEEL
STA	STATION
TBC	TOP BACK OF CURB
TYP	TYPICAL
UG	UNDERGROUND
WTR	WATER

BLOCK LEGEND

EXISTING PROPOSED

		SANITARY SEWER MANHOLE
		SANITARY SEWER CLEANOUT
		SANITARY SEWER CAP
		SANITARY SEWER METER VAULT
		SANITARY SEWER LIFT STATION
		SANITARY SEWER FM (TEE)
		SANITARY SEWER FM (11.25°)
		SANITARY SEWER FM (22.5°)
		SANITARY SEWER FM (45°)
		SANITARY SEWER FM (90°)
		SANITARY SEWER FM (CROSS)
		SANITARY SEWER FM FLANGE
		SANITARY SEWER FM VALVE
		SANITARY SEWER FM REDUCER
		SANITARY SEWER FM BF PREV.
		STORMWATER AREA INLET
		STORMWATER COMBO INLET
		STORMWATER FLARED END
		STORMWATER MANHOLE
		STORMWATER PUMP STATION
		STORM SEWER HEAD WALL
		WATER FITTING BEND 11.25°
		WATER FITTING BEND 22.5°
		WATER FITTING BEND 45°
		WATER FITTING BEND 90°
		WATER FITTING CAP
		WATER FITTING CROSS
		WATER FITTING FLANGE
		WATER FITTING TEE
		WATER FITTING VALVE

LINE STYLE LEGEND

EXISTING

EXISTING PROPOSED

		WATER VENT
		WATER MANHOLE
		WATER REDUCER
		WATER MARKER
		FIRE HYDRANT
		WATER CURB STOP
		WATER METER
		WATER VAULT
		WATER BOOSTER STATION
		WATER WELL
		WATER MONITORING WELL
		WATER TEST STATION
		CABLE TELEVISION MARKER
		CABLE TELEVISION PULL BOX
		CABLE TELEVISION PEDESTAL
		CABLE TELEVISION VAULT
		POWER GUY ANCHOR
		POWER GUY POLE
		POWER MANHOLE
		POWER MARKER
		ELECTRIC POWER METER
		POWER POLE
		POWER TRANSFORMER
		POWER VAULT
		STREET LIGHT
		IRRIGATION PULL BOX
		IRRIGATION SPRINKLER HEAD
		IRRIGATION VALVE
		IRRIGATION VAULT

PROPOSED

MAJOR CONTOUR
MINOR CONTOUR
OVERHEAD TELEPHONE
OVERHEAD POWER
NATURAL GAS
IRRIGATION LINE
FIBER OPTIC
FORCEMAIN
FENCE [CHAIN]
FENCE [BARBED]
FENCE [PRIVACY]
FIRE LINE
OVERHEAD TV
RAW WATER
SEWER
STORM
UNDERGROUND POWER
UNDERGROUND TELEPHONE
UNDERGROUND TV
WATER

CONFEDERATED SALISH & KOOTENAI TRIBES
FALLS CREEK DIVERSION REHABILITATION
GENERAL NOTES
LAKE COUNTY, MONTANA

DESIGNED BY: DSD
DRAWN BY: ANC
CHECKED BY: DDP
DATE: 9/2023

SHEET
2

PREPARED BY

WWCENGINEERING
1275 MAPLE STREET, SUITE F
HELENA, MT 59601
(406) 443-3962
www.wwcengineering.com

DATE

BY

REVISION

NO.

PROJECT NO. 2021-087

FOR BIDDING

PROJECT NO. 2021-087

k:\Helena\CSKT\202\1087\31a canal chute & falls creek diversion\05CAD\Sheets\falls creek\DIVERSION STRUCTURE\2\1087-NOTE.dwg QUANTITIES 11/3/2023 4:12:28 PM

BOX CULVERT BRIDGE QUANTITIES			
ITEM	QUANTITY	UNIT	REMARKS
1-1/2" MINUS CRUSHED ROAD BASE	13	CY	GRAVEL ROAD
BOX CULVERT	16	LF	7'T X 10'W (PRECAST)
CULVERT BEDDING	12	CY	BENEATH BRIDGE
WINGWALLS	4	EA	9.75' LONG X 8" WIDE (PRECAST)

DIVERSION STRUCTURE QUANTITIES			
ITEM	QUANTITY	UNIT	REMARKS
RIPRAP (GROUTED)	140	CY	CHANNEL ALONG SOUTH SIDE OF STRUCTURE
RIPRRAP	300	CY	FALLS CREEK CHANNEL, TABOR FEEDER CANAL
BENTONITE MIXED RIPRAP	36	CY	STRUCTURE BACKFILL SEE SHEET 24
CHECK BOARDS	60	LF	NON-TREATED 2X4 WOOD BOARDS. (3) 2X4 PER WEIR SECTION
GRIZZLY BAR SCREENS	48	EA	6' WIDE X 8' SPAN PANELS
C-10 WATERMAN GATE	1	EA	36" DIAMETER
SLIDE GATE	2	EA	96" WIDE BY 60" HIGH
DIVERSION STRUCTURE BEDDING	220	CY	18" THICK of 1-1/2" MINUS CRUSHED BASE
RE-SEEDED AREA	0.43	AC	RECLAIM AROUND DIVERSION STRUCTURE AND STAGING AREAS 1 & 2
WASHED GRAVEL	1	CY	3/4" MINUS ALONG DIVERSION STRUCTURE WHERE TOE DRAIN SITS
OVERFLOW WEIR	60	LF	INCORPORATED INTO DIVERSION STRUCTURE ALONG SOUTH WALL
RAMP FLUME	1	EA	DOWNSTREAM OF DIVERSION STRUCTORE ON TABOR FEEDER CANAL W/ WINGWALLS (PRECAST)
TYPE A AND A1 BOX SECTIONS ^②	24	EA	OPEN-TOP BOX CULVERT (PRECAST). GRIZZLY BAR SCREENS WILL LAY OVER TOP, BUT ARE A SEPARATE ENTITY.
TYPE A2-A4 BOX SECTION ^②	3	EA	OPEN-TOP BOX CULVERT (PRECAST)
TYPE A5 BOX SECTION [○]	1	EA	SUMP SECTION (PRECAST) AT FALLS CREEK
TYPE B2 BOX SECTION [○]	1	EA	PARTIALLY OPEN/CLOSED BOX CULVERT TO ACCOMMODATE SLIDE GATES (PRECAST)
TYPE B1 AND B BOX SECTION ^②	3	EA	CLOSED-TOP BOX CULVERTS (PRECAST)
EXCESS EXCAVATED CUT ²	406	CY	TO BE HAULED TO EXCESS MATERIAL STOCK PILE AREA AS SHOWN ON SHEET 6

CAST-IN-PLACE QUANTITIES			
ITEM	QUANTITY	UNIT	REMARKS
BOX SECTION (CAST-IN-PLACE)	4	CY	SECTION TO TIE INTO EXISTING TUNNEL
RAMP FLUME (CAST-IN-PLACE)	15	CY	ADDITIONAL FLOOR SECTION WITH RAMP

- NOTE:
- QUANTITIES ARE FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR TO VERIFY ACTUAL QUANTITIES.
 - SEE SHEET 19 AND 20 FOR SPATIAL LOCATION OF REFERENCED BOX SECTIONS.

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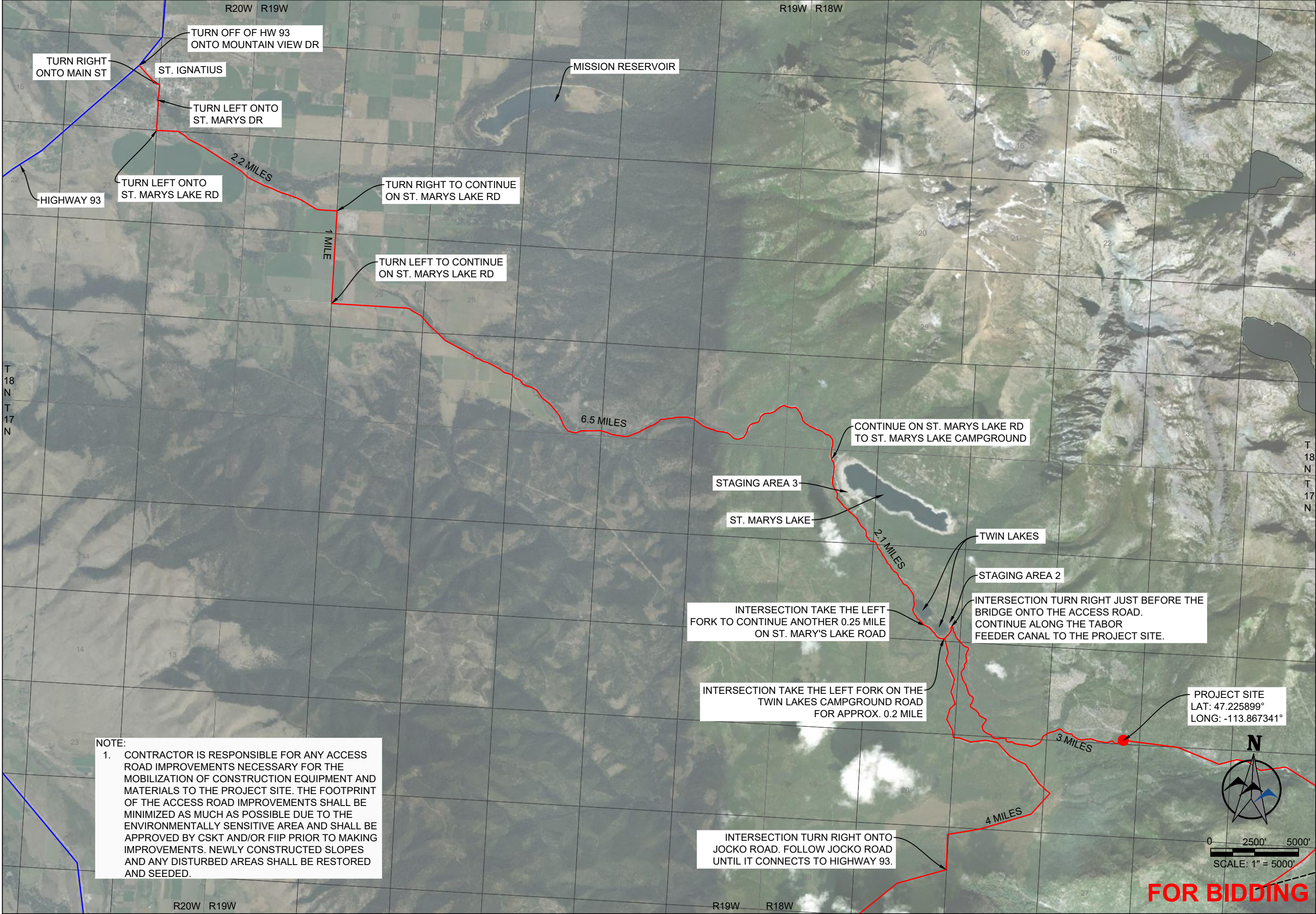
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CONFEDERATED SALISH & KOOTENAI TRIBES
FALLS CREEK DIVERSION REHABILITATION
QUANTITIES
LAKE COUNTY, MONTANA

DESIGNED BY: DSD
DRAWN BY: ANC
CHECKED BY: DDP
DATE: 9/2023

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PROJECT NO. 2021-087		

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CONFEDERATED SALISH & KOOTENAI TRIBES

FALLS CREEK DIVERSION REHABILITATION

ACCESS MAP (1)

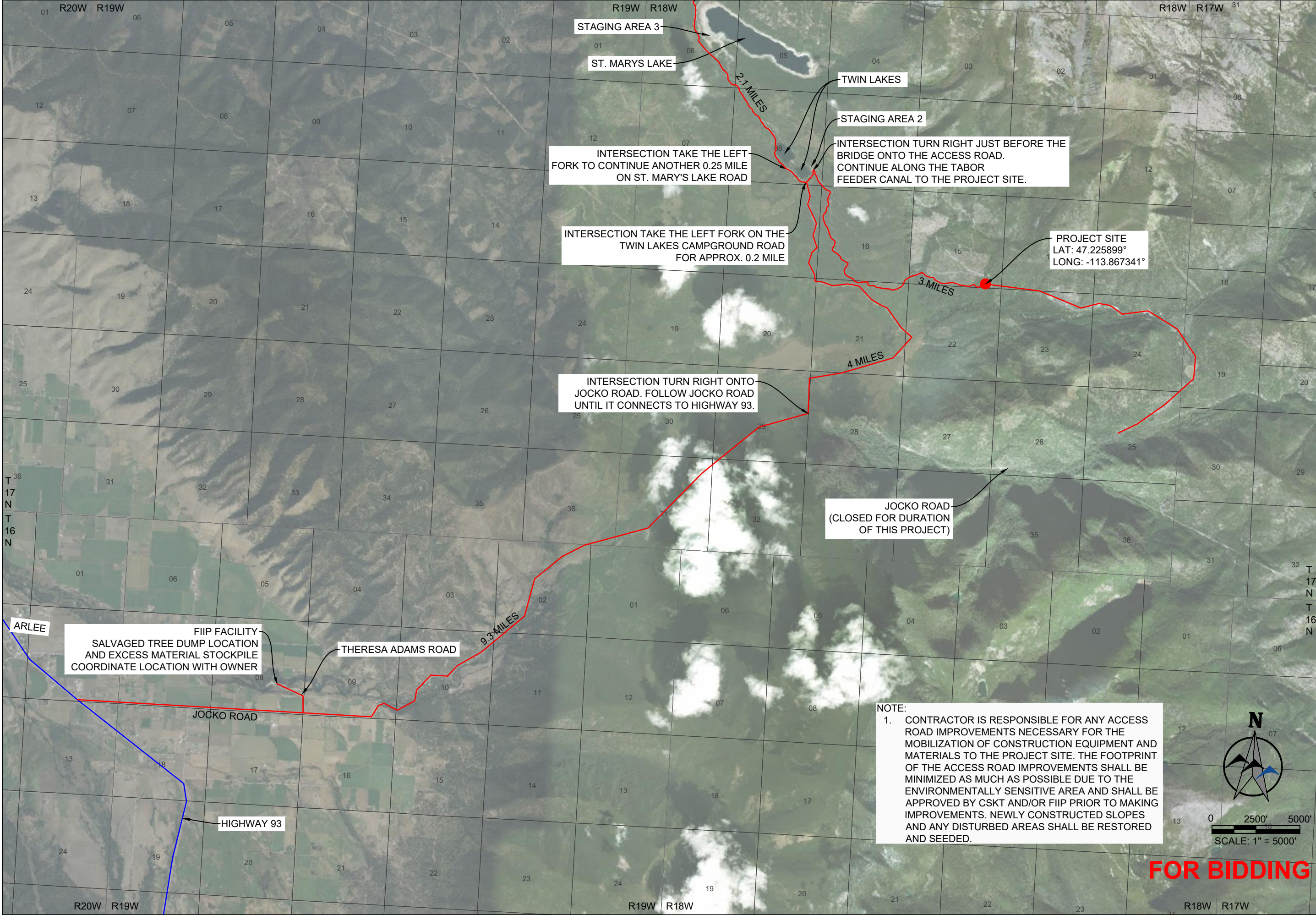
LAKE COUNTY, MONTANA

DESIGNED BY: <u>DSD</u>
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CHECKED BY: <u>DDP</u>
DATE: <u>9/2023</u>

SHEET

5

K:\Helena\CSKT\2021087 31A Canal Chute & Falls Creek Diversion\05\CAD\Sheets\Falls Creek\BOX CULVERT BRIDGE\21087-MAP.dwg ACCESS MAP (2) 11/14/2023 5:05:57 PM



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CONFEDERATED SALISH & KOOTENAI TRIBES

FALLS CREEK DIVERSION REHABILITATION

ACCESS MAP (2)

LAKE COUNTY, MONTANA

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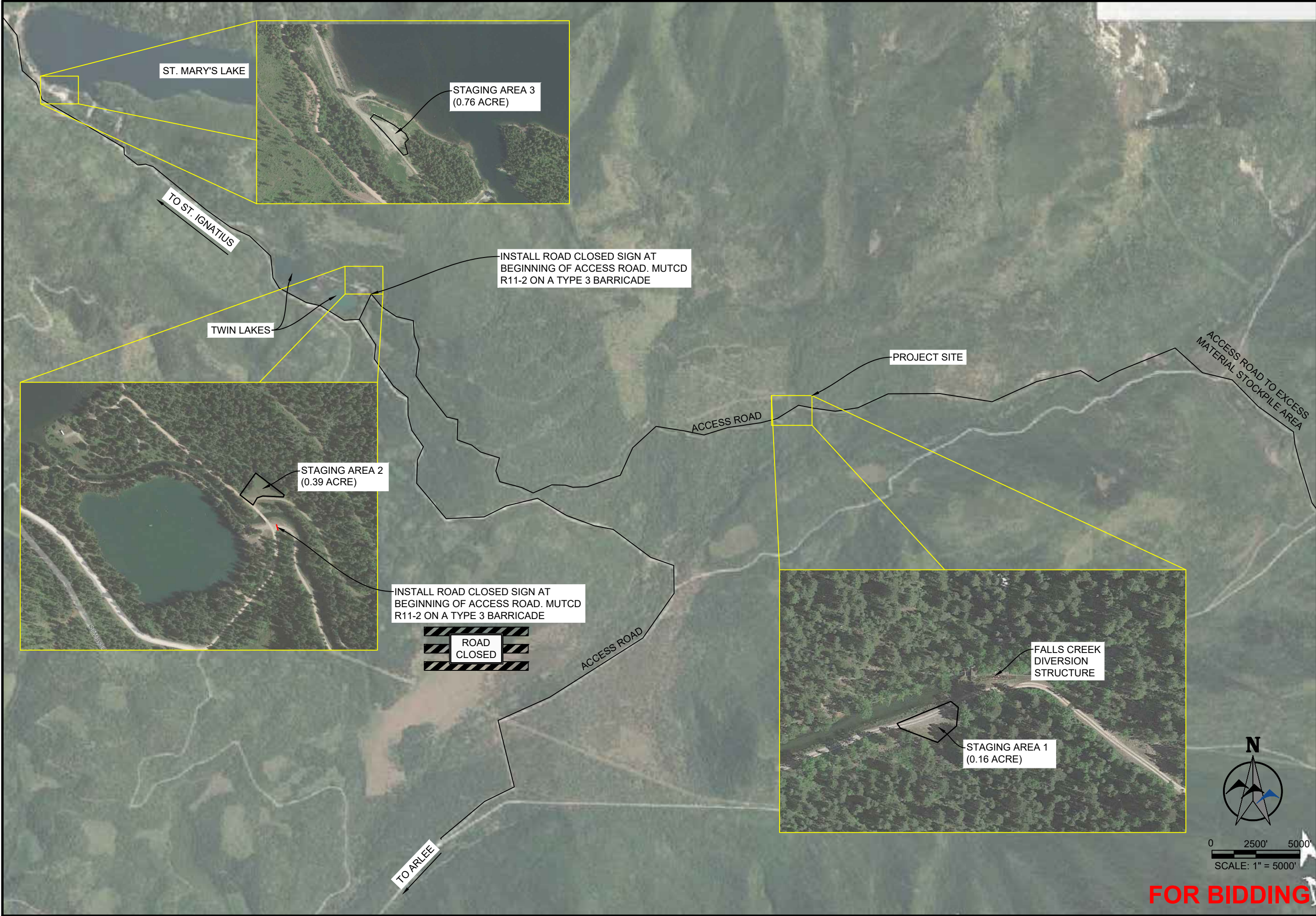
DATE: 9/2023

SHEET

6

FOR BIDDING

k:\Helena\CSKT\2021087\31a canal chute & falls creek diversion\05CAD\Sheets\falls creek\DIVERSION STRUCTURE\1087-STAGE-MAP.dwg STAGING LOCATIONS 8/22/2023 8:47:58 AM



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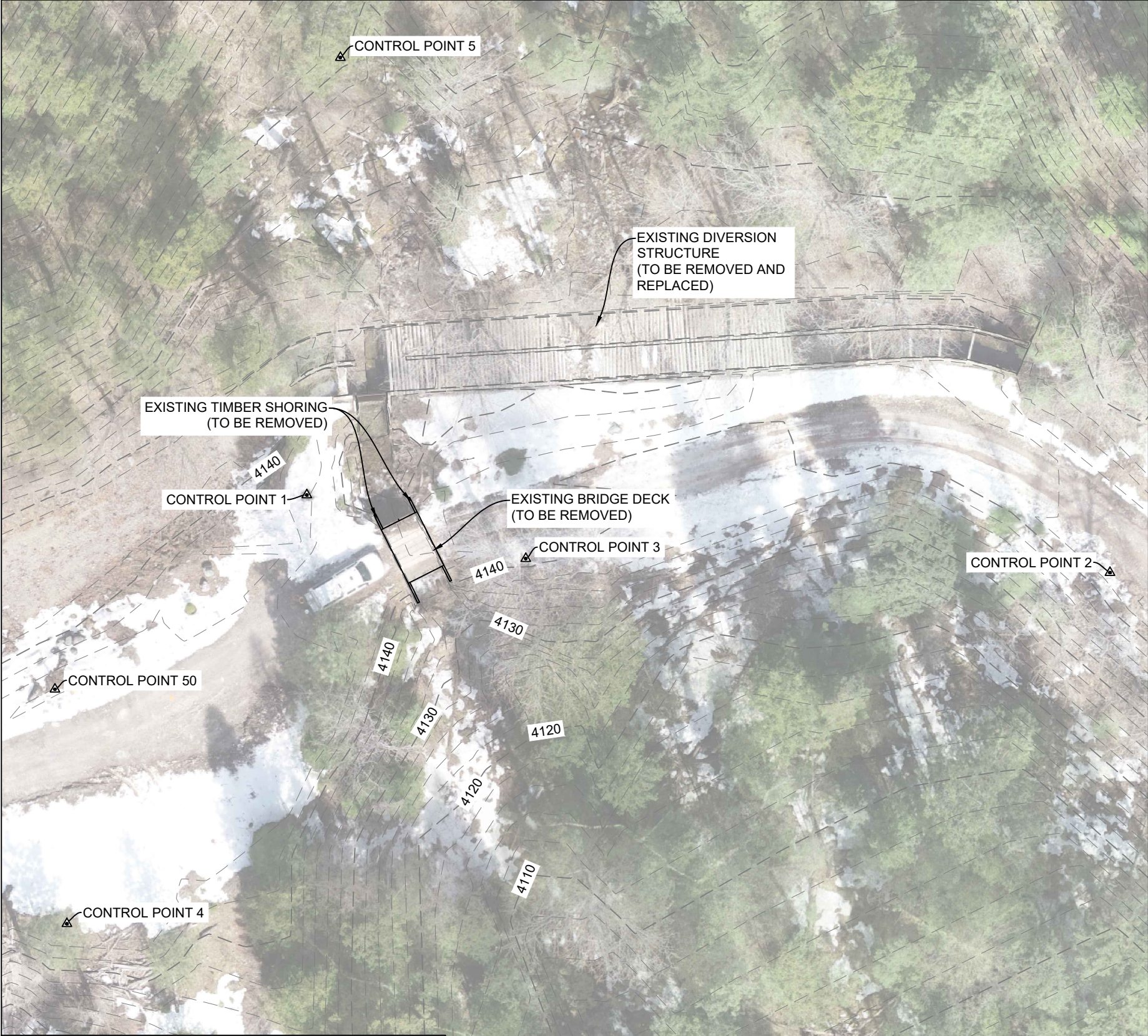
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FALLS CREEK DIVERSION REHABILITATION
STAGING LOCATIONS
LAKE COUNTY, MONTANA

DESIGNED BY: DSD
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CHECKED BY: DDP
DATE: 9/2023

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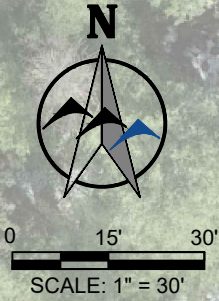
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PROJECT NO. 2021-087			


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Control Point Table				
Point	Northing	Easting	Elevation	Description
1	1115090.187	884474.988	4144.11	SPIKE
2	1115070.767	884676.035	4143.27	2" AC
3	1115074.264	884529.775	4140.42	SPIKE
4	1114982.854	884414.948	4145.05	SPIKE
5	1115199.683	884483.413	4160.89	SPIKE
50	1115041.556	884411.959	4146.12	5/8" YPC

MONTANA STATE PLANE ZONE 2500
N.G.S. O.P.U.S. SOLUTION
REFERENCE FRAME: NAD83 (2011) (EPOCH:2010.0000)
PROJECT ORIGIN LOCATION:
LATITUDE = N47°13'32.35829"
LONGITUDE = W113°52'04.31904"
PROJECT HEIGHT = 4100.233 FT
ALL DISTANCES SHOWN HEREON ARE GROUND DISTANCES IN
UNITS OF INTERNATIONAL FEET.
GROUND SCALE FACTOR = 1.0007968409
VERTICAL DATUM = NAVD88 (GEOID 18)



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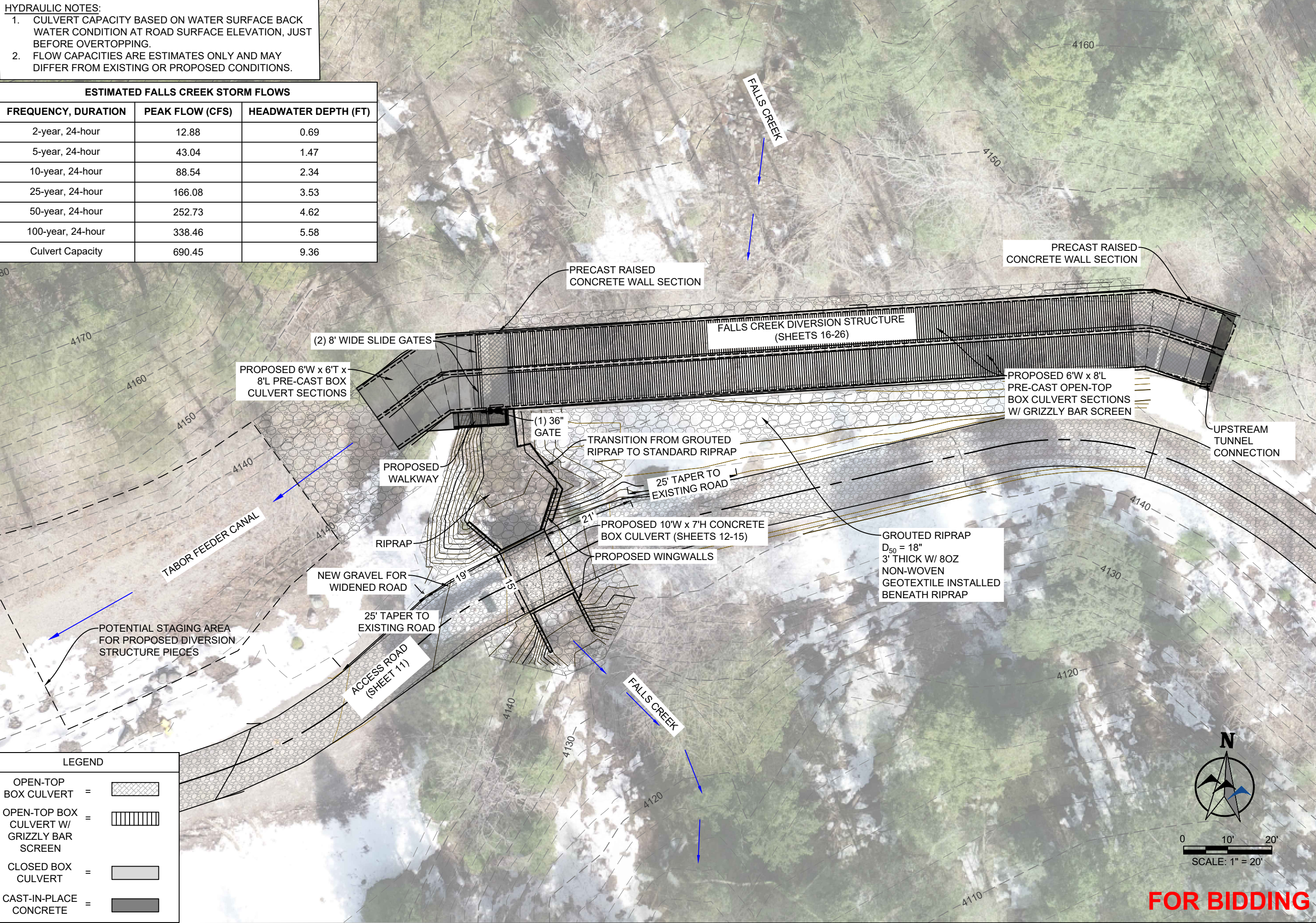
CONFEDERATED SALISH & KOOTENAI TRIBES
FALLS CREEK DIVERSION REHABILITATION
EXISTING CONDITIONS
LAKE COUNTY, MONTANA

PROJECT NO. 2021-087
SHEET
8

k:\Helena\CSKT\2021087 31a canal chute & falls creek diversion\05CAD\Sheets\falls creek\box culvert bridge\21087-SITE-ORVRW.dwg SITE OVERVIEW (1) 10/5/2023 7:50:13 AM

- HYDRAULIC NOTES:
1. CULVERT CAPACITY BASED ON WATER SURFACE BACK WATER CONDITION AT ROAD SURFACE ELEVATION, JUST BEFORE OVERTOPPING.
 2. FLOW CAPACITIES ARE ESTIMATES ONLY AND MAY DIFFER FROM EXISTING OR PROPOSED CONDITIONS.

ESTIMATED FALLS CREEK STORM FLOWS		
FREQUENCY, DURATION	PEAK FLOW (CFS)	HEADWATER DEPTH (FT)
2-year, 24-hour	12.88	0.69
5-year, 24-hour	43.04	1.47
10-year, 24-hour	88.54	2.34
25-year, 24-hour	166.08	3.53
50-year, 24-hour	252.73	4.62
100-year, 24-hour	338.46	5.58
Culvert Capacity	690.45	9.36



LEGEND	
OPEN-TOP BOX CULVERT	= [Pattern]
OPEN-TOP BOX CULVERT W/ GRIZZLY BAR SCREEN	= [Pattern]
CLOSED BOX CULVERT	= [Pattern]
CAST-IN-PLACE CONCRETE	= [Pattern]

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CONFEDERATED SALISH & KOOTENAI TRIBES
FALLS CREEK DIVERSION REHABILITATION
SITE OVERVIEW (1)
LAKE COUNTY, MONTANA

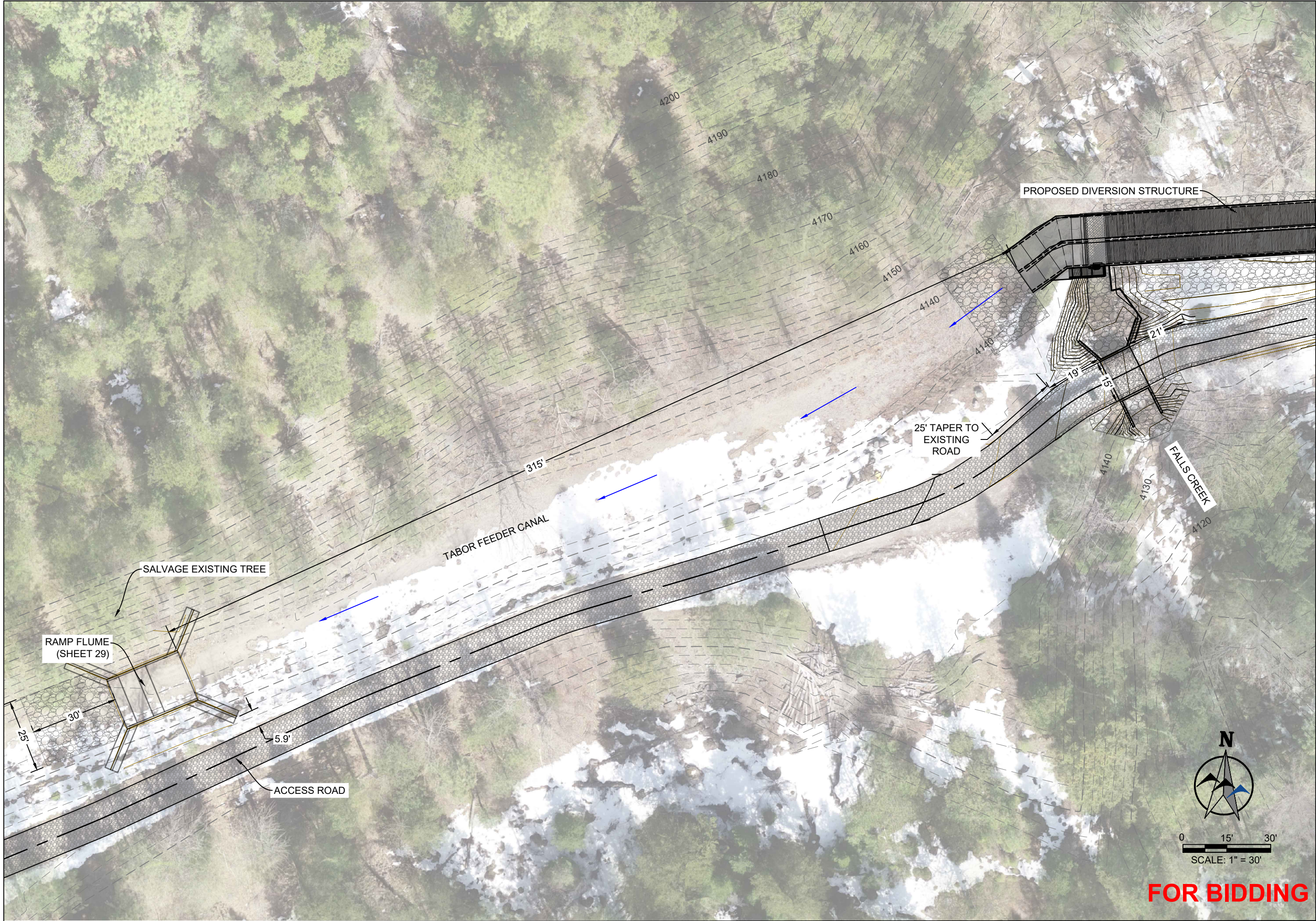
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SHEET
9

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PROJECT NO. 2021-087

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CONFEDERATED SALISH & KOOTENAI TRIBES
FALLS CREEK DIVERSION REHABILITATION
SITE OVERVIEW (2)
LAKE COUNTY, MONTANA

DESIGNED BY: DSD
DRAWN BY: ANC
CHECKED BY: DDP
DATE: 9/2023

SHEET
10

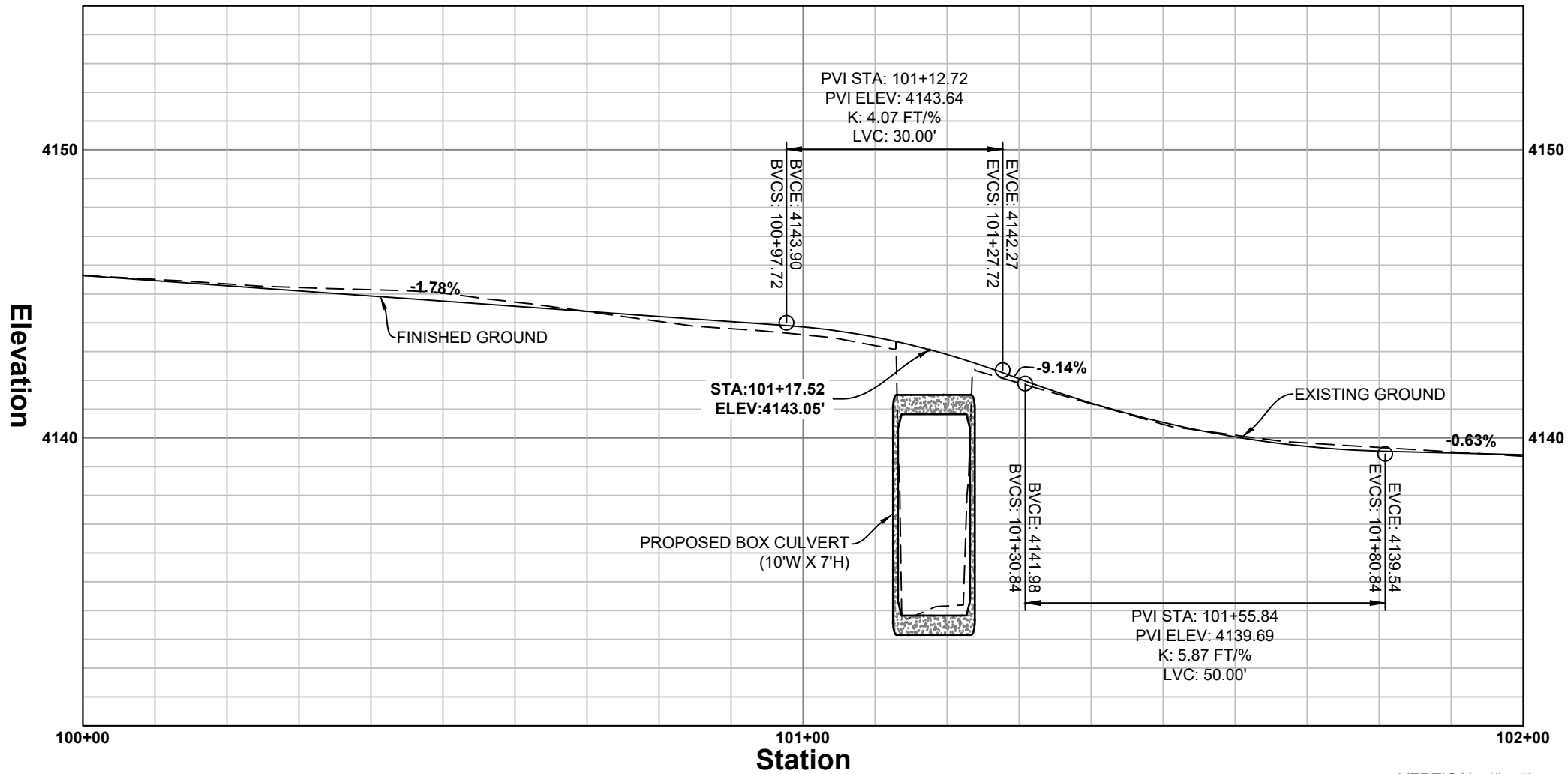
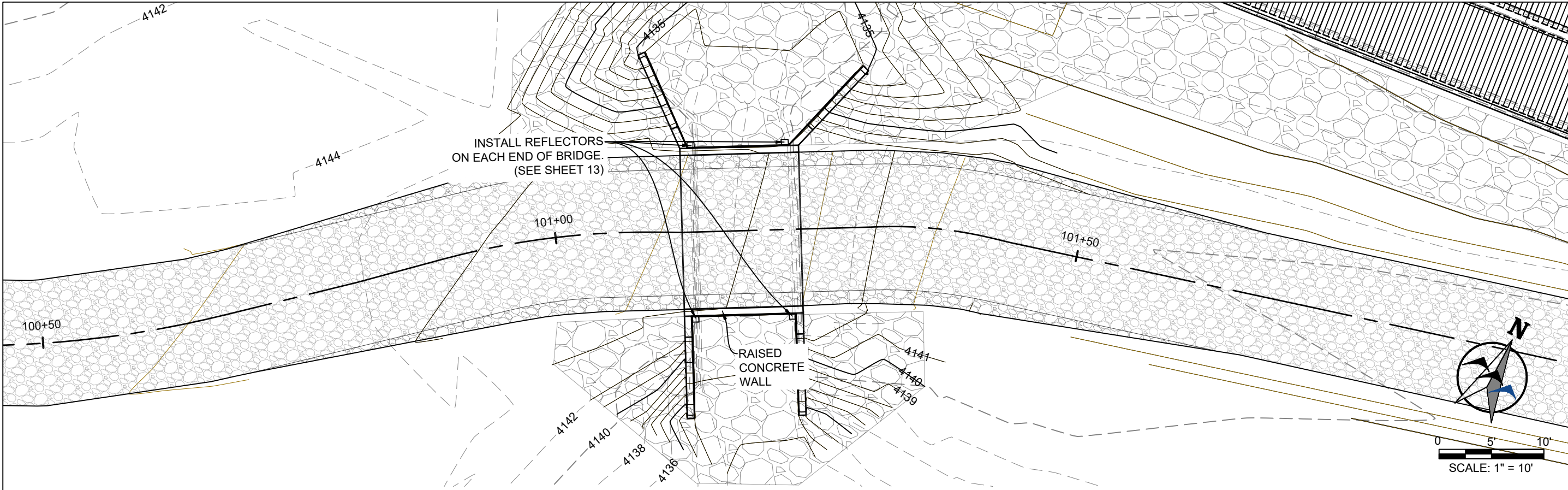
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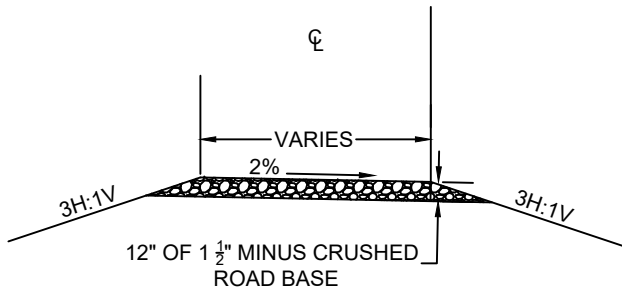
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Profile View of Road

VERTICAL: 1" = 5'
HORIZONTAL: 1" = 20'



TYPICAL SECTION
SCALE: 1" = 10'

NOTE:
1. GRADE CROSS SLOPE TO THE
SOUTH, OR DOWN GRADIENT
SIDE.

FOR BIDDING

NO.	REVISION	BY	DATE

PROJECT NO. 2021-087

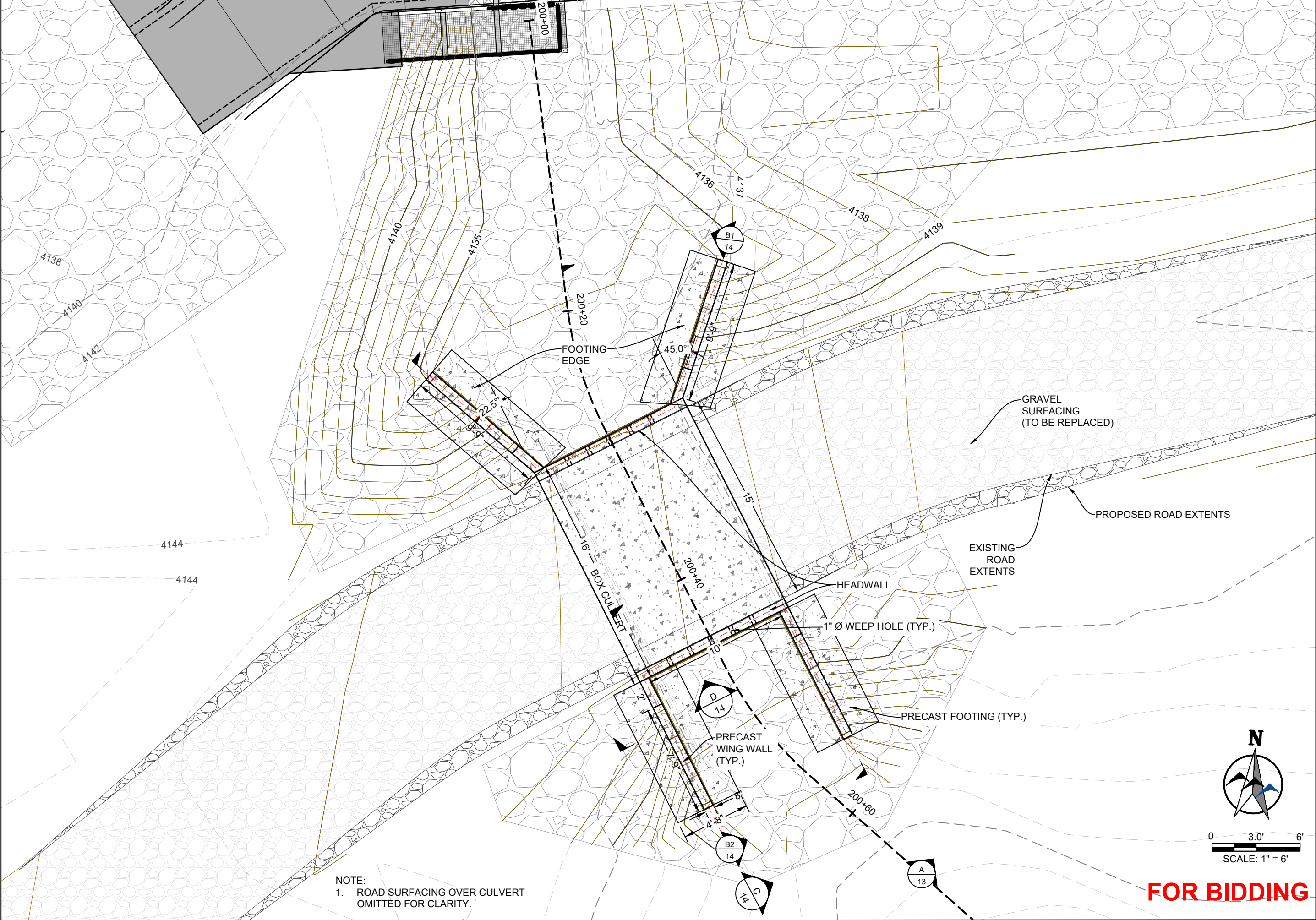
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DATE: 9/2023

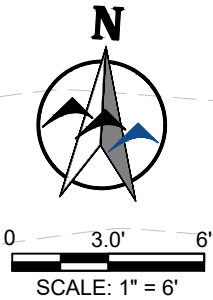
CONFEDERATED SALISH & KOOTENAI TRIBES
FALLS CREEK DIVERSION REHABILITATION
ROAD PLAN & PROFILE
LAKE COUNTY, MONTANA

SHEET
11

k:\Helena\CSKT\2021087 31a canal chute & falls creek diversion\05\CAD\Sheets\falls creek\box culvert bridge\21087-PLAN.dwg FALLS CREEK CULVERT CROSSING-PLAN VIEW 10/5/2023 7:51:01 AM



NOTE:
1. ROAD SURFACING OVER CULVERT
OMITTED FOR CLARITY.



FOR BIDDING

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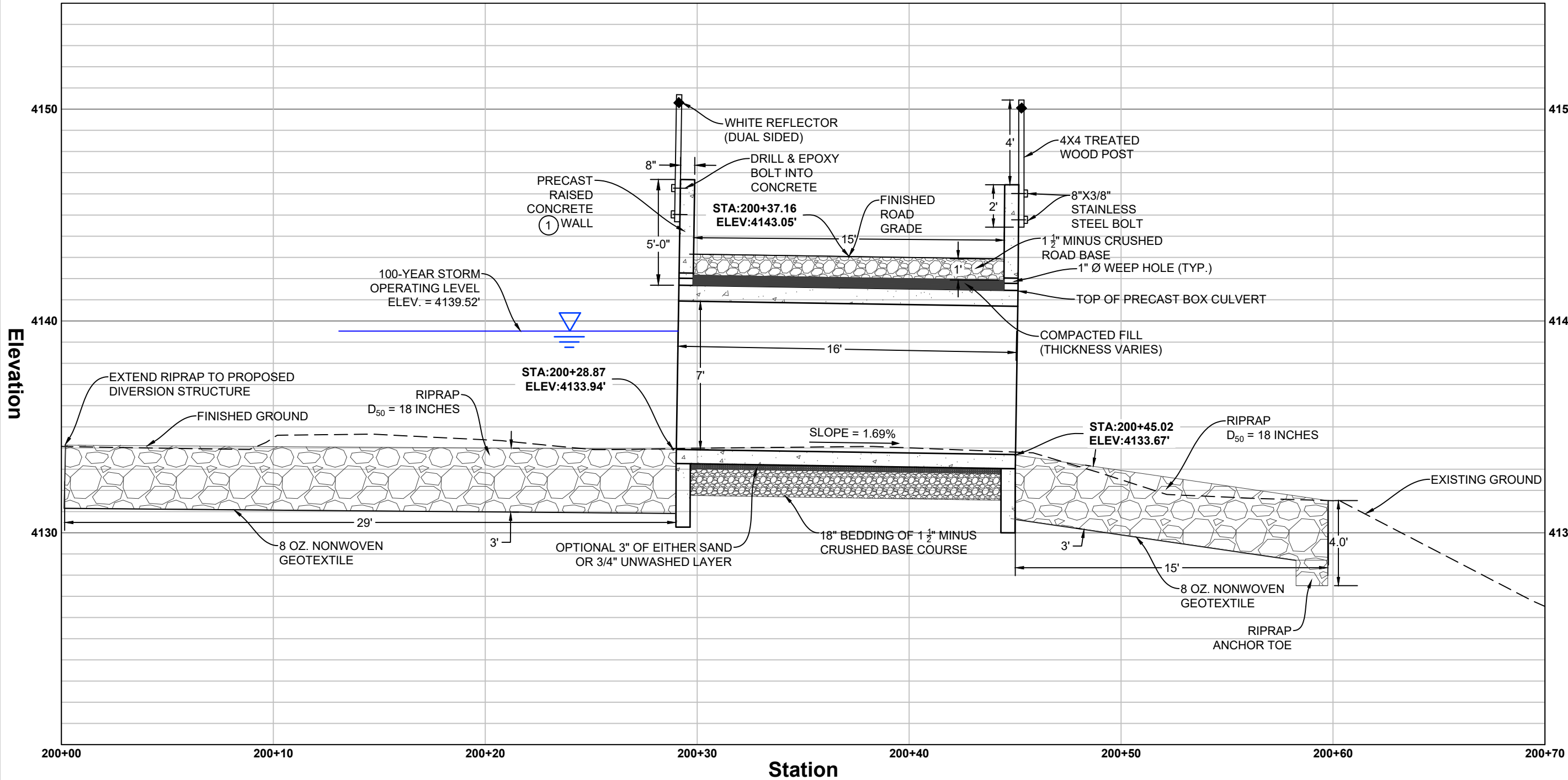
CONFEDERATED SALISH & KOOTENAI TRIBES
FALLS CREEK DIVERSION REHABILITATION
FALLS CREEK CULVERT CROSSING-PLAN VIEW
LAKE COUNTY, MONTANA

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SHEET
12

NO.	REVISION	BY	DATE

k:\helena\CSKT\2021\087 31a canal chute & falls creek diversion\05CAD\Sheets\falls creek\box culvert\bridge\2\087-PROF.dwg FALLS CREEK CULVERT CROSSING-PROFILE VIEW 8/28/2023 3:16:44 PM



Elevation

Station

Profile View

A
12

- NOTE:
1. PRECAST MANUFACTURER IS TO SUPPLY CONNECTION PLATES AND BOLTS TO THE RAISED CONCRETE SECTION. CONNECTION PLATE TO HAVE 0.5" DIAMETER HOLES DRILLED AT 6" O.C. AT CONNECTION POINT BETWEEN RAISED WALL AND BOX CULVERT.
 2. ANCHOR OR TIE GEOTEXTILE PER MANUFACTURERS RECOMMENDATION.
 3. GEOTEXTILE FABRIC TO BE PLACED ON THE INSIDE (ROADSIDE) OF WEEP HOLES AND PROPERLY SECURED ON INTERIOR FACE.

0 2.5' 5'
SCALE: 1" = 5'

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CONFEDERATED SALISH & KOOTENAI TRIBES
FALLS CREEK DIVERSION REHABILITATION
FALLS CREEK CULVERT CROSSING-PROFILE VIEW
LAKE COUNTY, MONTANA

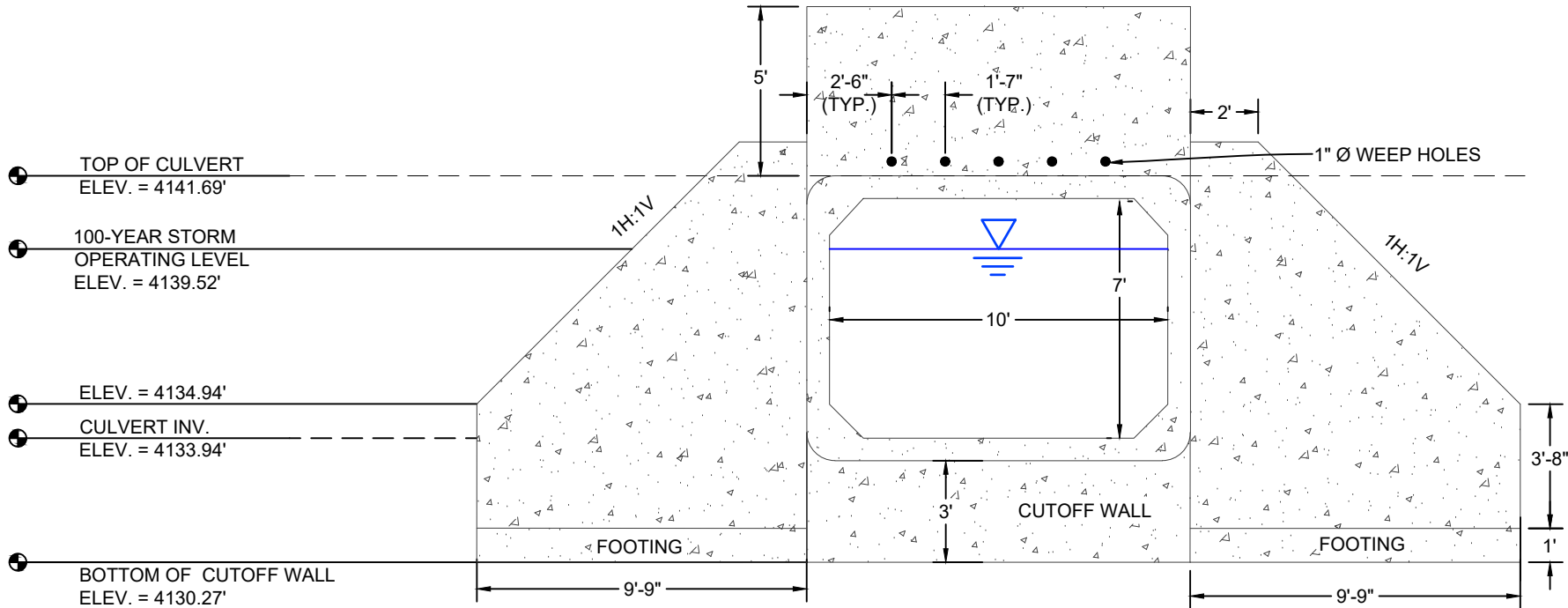
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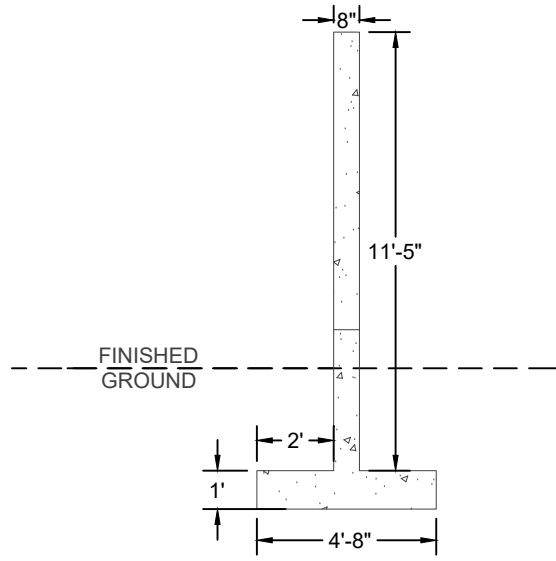
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SHEET
13

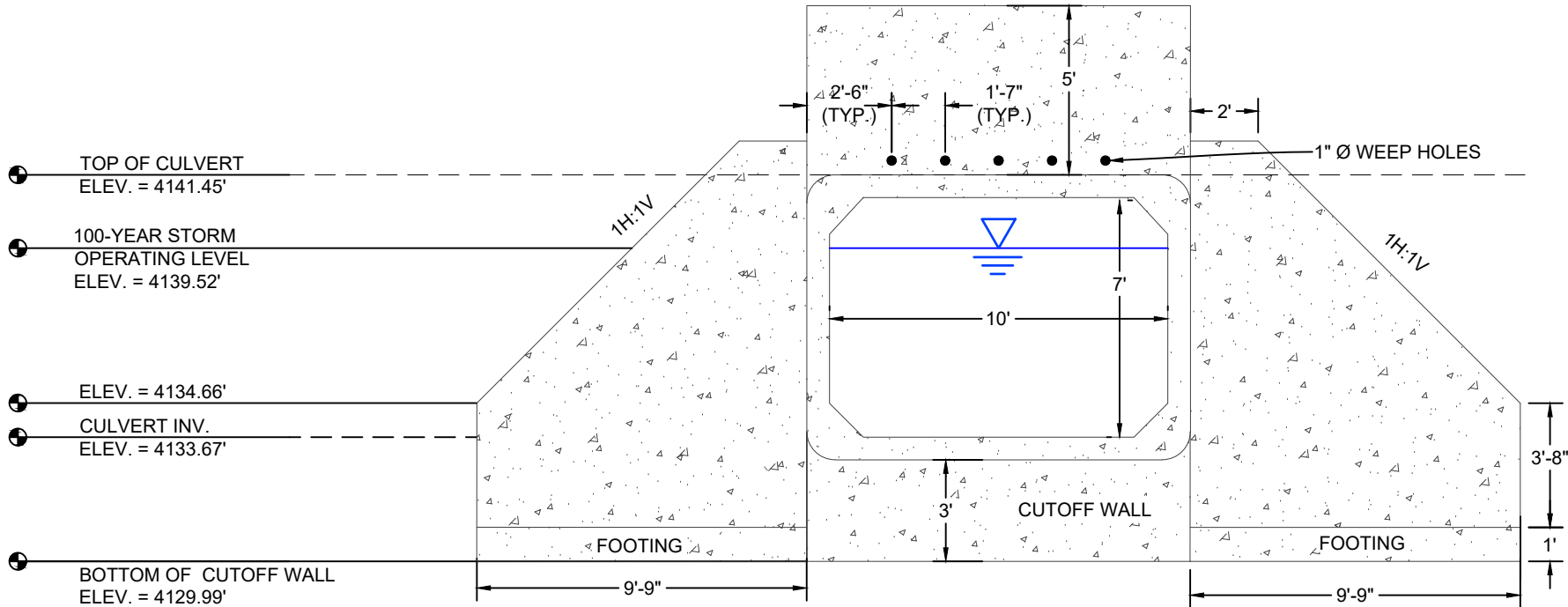
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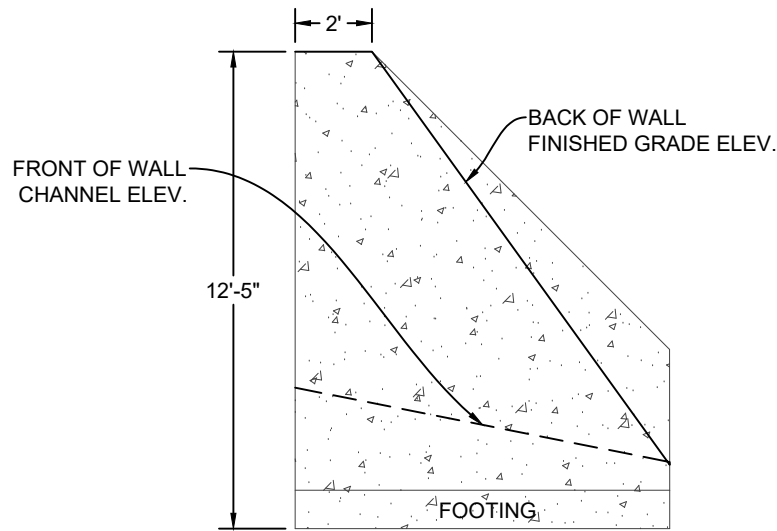
HEAD WALL ELEVATION VIEW (B1 12)



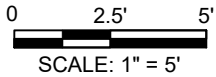
WING WALL SECTION VIEW (D 12)



END WALL ELEVATION VIEW (B2 12)



END WALL SECTION VIEW (C 12)



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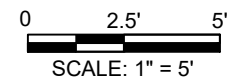
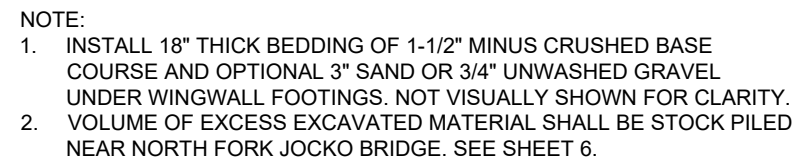
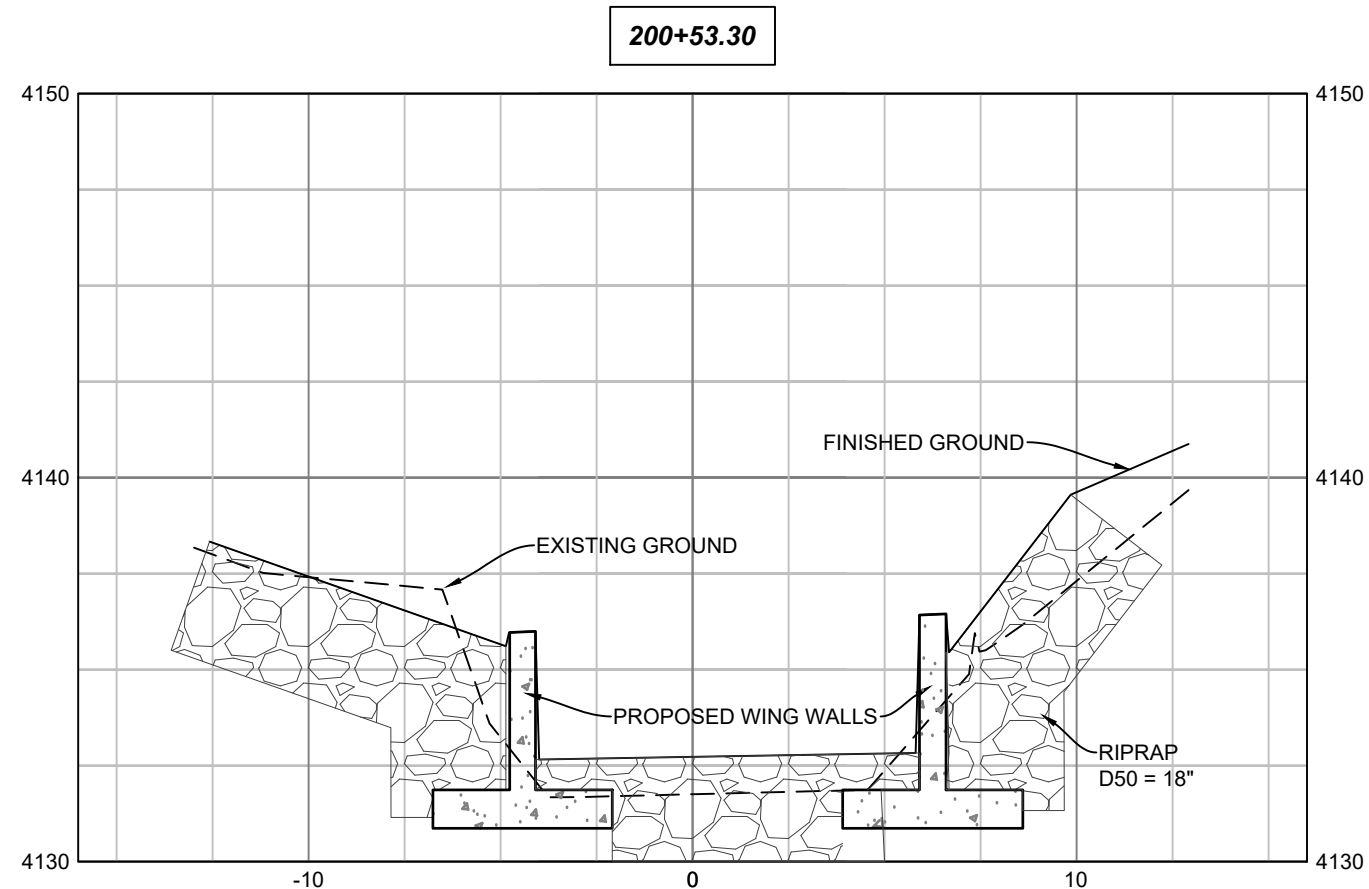
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FALLS CREEK DIVERSION REHABILITATION
FALLS CREEK CULVERT CROSSING-DETAILS
LAKE COUNTY, MONTANA


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SHEET
14


PROJECT NO. 2021-087



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CONFEDERATED SALISH & KOOTENAI TRIBES FALLS CREEK DIVERSION REHABILITATION FALLS CREEK CULVERT CROSSING-CROSS SECTIONS LAKE COUNTY, MONTANA				<div> WWC ENGINEERING 1275 MAPLE STREET, SUITE F HELENA, MT 59601 (406) 443-3962 www.wwcengineering.com</div>				NO.	REVISION	BY	DATE
DESIGNED BY: <u>DSB</u> DRAWN BY: <u>ANC</u> CHECKED BY: <u>DDP</u> DATE: <u>9/2023</u>											
SHEET 15				PROJECT NO. 2021-087							

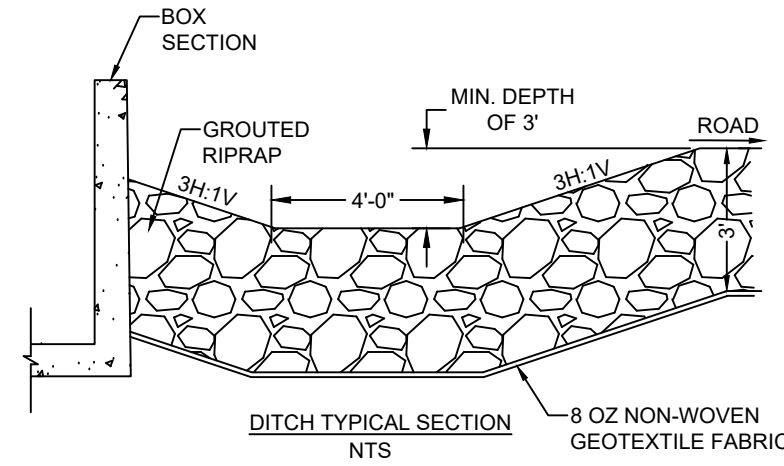
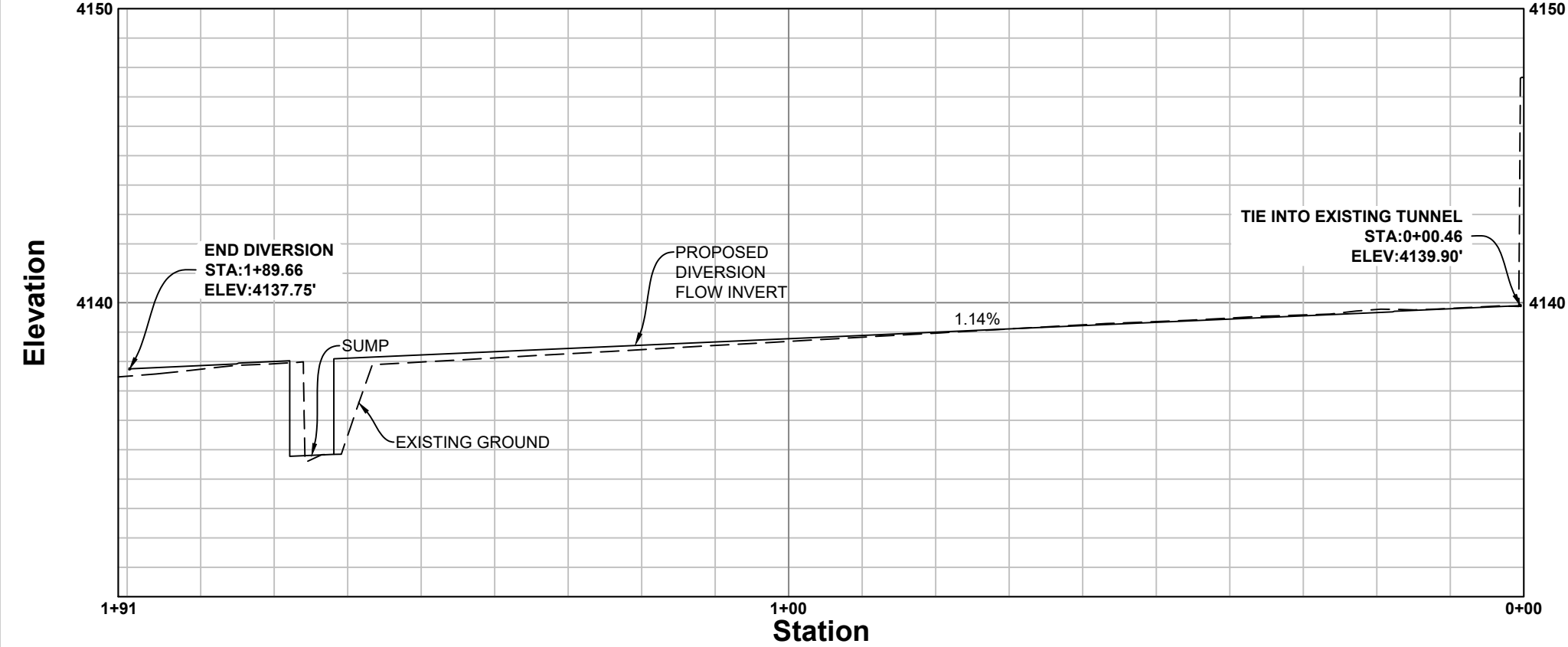
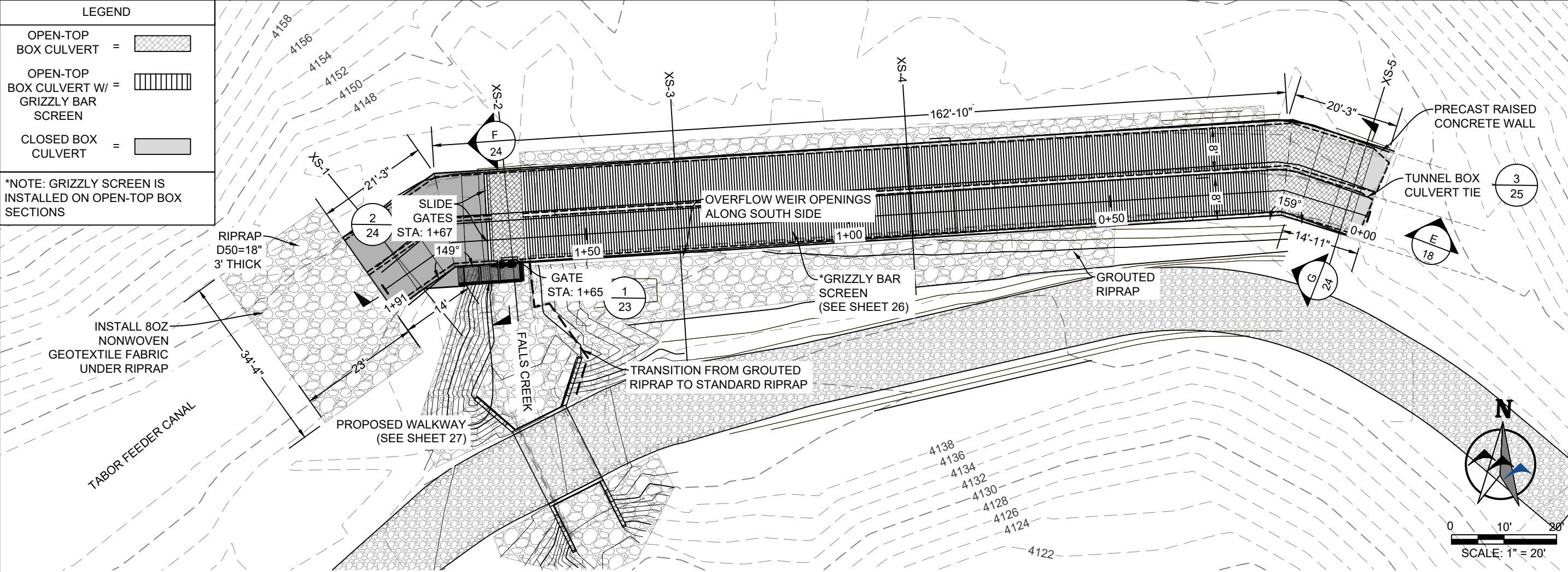


<div>CONFEDERATED SALISH & KOOTENAI TRIBES</div> <div>FALLS CREEK DIVERSION REHABILITATION</div> <div>DIVERSION STRUCTURE-CONSTRUCTION</div> <div>SEQUENCING</div> <div>LAKE COUNTY, MONTANA</div>	DESIGNED BY: <u>DS</u>		PREPARED BY		NO.	REVISION	BY	DATE
	DRAWN BY: <u>ANC</u>		<div>WWCENGINEERING</div> <div>1275 MAPLE STREET, SUITE F</div> <div>HELENA, MT 59601</div> <div>(406) 443-3962</div> <div>www.wwcengineering.com</div>					
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	SHEET				PROJECT NO. 2021-087			
16								



CONFEDERATED SALISH & KOOTENAI TRIBES			
FALLS CREEK DIVERSION REHABILITATION			
DIVERSION STRUCTURE-CONSTRUCTION			
SEQUENCING (2)			
LAKE COUNTY, MONTANA			
DESIGNED BY:	<u>DSD</u>		
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CHECKED BY:	<u>DDP</u>		
DATE:	<u>9/2023</u>		
SHEET			
17			

k:\helen\CSKT\2021087 31a canal chute & falls creek diversion\05CAD\Sheets\falls creek diversion\1087-PLAN-DS.dwg DIVERSION STRUCTURE-PLAN AND PROFILE 10/4/2023 4:55:27 PM



NOTE:
CSKT AND/OR FIIP TO
DETERMINE WHERE EXCESS
EXCAVATION SHALL BE
PLACED. SEE SHEET 6 FOR
GENERAL LOCATION.

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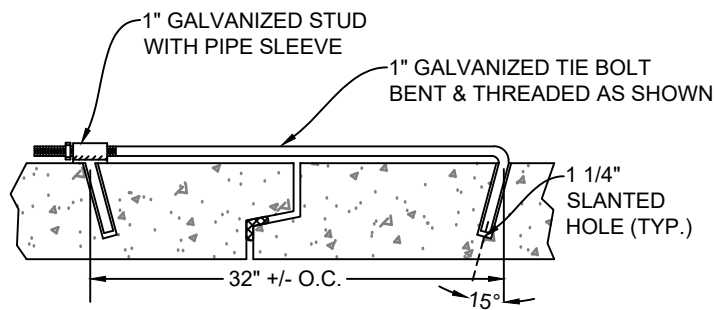
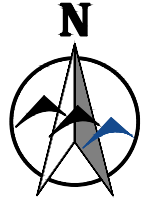
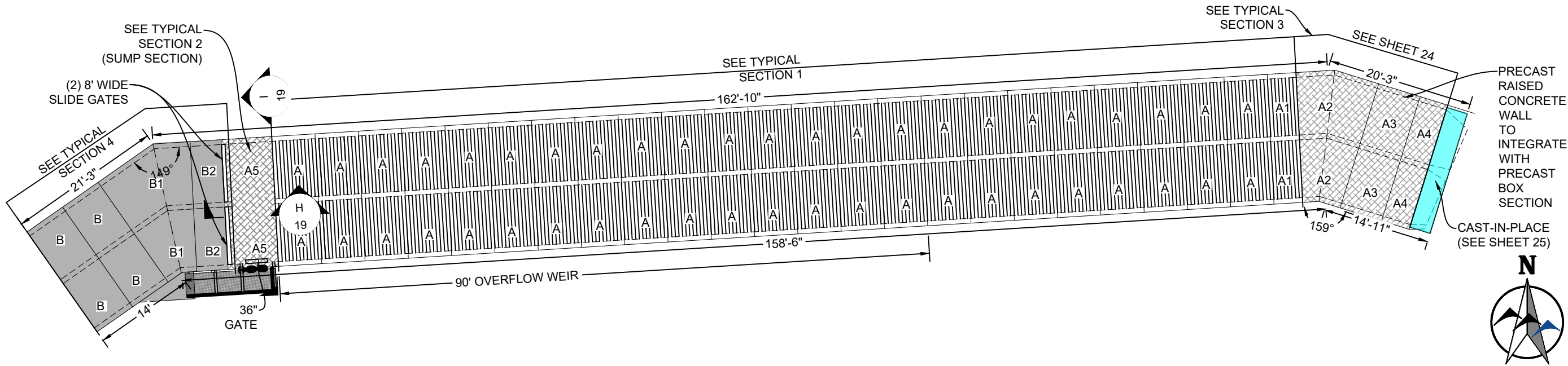
CONFEDERATED SALISH & KOOTENAI TRIBES
FALLS CREEK DIVERSION REHABILITATION
DIVERSION STRUCTURE-PLAN AND PROFILE
LAKE COUNTY, MONTANA

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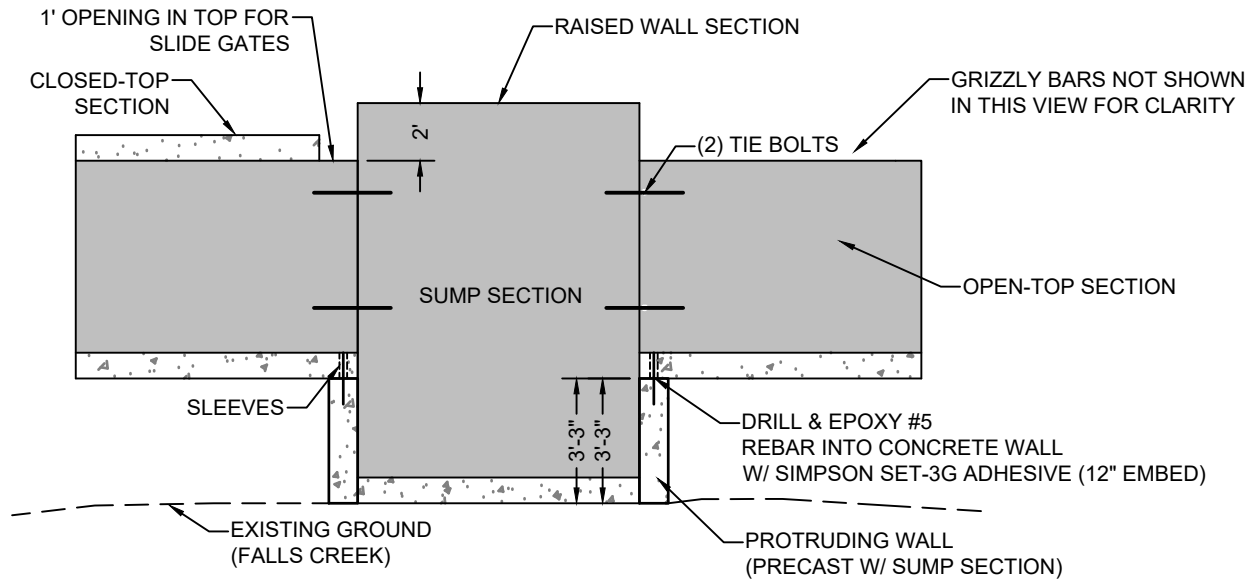
SHEET
18

PROJECT NO. 2021-087

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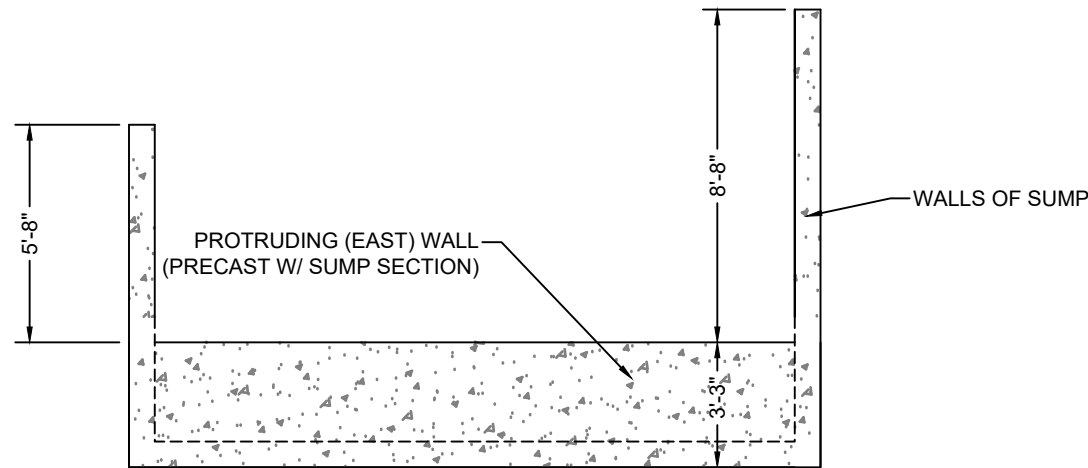


TIE BOLT DETAILS-CONCEALED HOLE
NOT TO SCALE



SECTION VIEW
NOT TO SCALE

H
19



SECTION VIEW
NOT TO SCALE

I
19

NOTES:

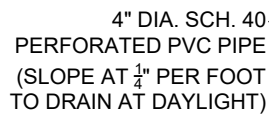
- ALL TYPICAL SECTIONS, WITH THE EXCEPTION OF BOX SECTIONS (A5), (B), (B1), AND (B2) WILL HAVE A LOW POINT (FLOW THROUGH WEIR) THROUGH THE CENTER WALL.
- BOX SECTIONS (A5) WITH (2) SLIDE GATES AND (1) 36" GATE WILL REMOVE HAUNCHES ALONG BOTTOM AND HAVE NO CENTER WALL.
- ANGLED BOX SECTIONS TO BE MONOLITHICALLY CAST BY MANUFACTURER.
- TYPICAL SPACING BETWEEN PRE-CAST BOX SECTIONS IS 6 FEET. MINIMUM SPACING BETWEEN PRE-CAST BOX SECTIONS IS 2 FEET. SPACING IS DEPENDENT ON PRE-CAST FORMS.
- CONTRACTOR TO COORDINATE PRECAST BOX SECTIONS WITH FABRICATION COMPANY FOR GRIZZLY BAR SCREEN DESIGN. GRIZZLY BARS TO FOLLOW A PERFORMANCE SPEC OF 2 INCH SPACING AND 500 PSF LOADING FOR EACH BAR, CONSIDER HSS ROUND TUBING OR EQUAL.
- AN OVERFLOW WEIR WILL BE PRECAST INTO THE SOUTHERN (DOWNSTREAM) WALL OF THE DIVERSION STRUCTURE AND SPAN A TOTAL OF 90 FEET. THE WEIR HAS A CREST LENGTH OF 60 FEET, BUT AN OPENING OF 4 FEET FOR EACH BOX SECTION. THUS, 15 BOX SECTIONS (IF EACH ARE 6-FEET LONG) WILL INCORPORATE THE OVERFLOW WEIR.
- SWIFT LIFTS TO BE PRECAST INTO THE SIDE WALLS (2 PER WALL) OF THE BOX SECTIONS AND GROUTED AFTER CONSTRUCTION.
- INSTALL (2) TIE BOLTS ON EACH EXTERIOR WALL AT EACH BOX SECTION CONNECTION. INSTALL AT A HEIGHT APPROXIMATELY 1/3 AND 2/3 UP THE WALL FROM THE BOTTOM OF THE BOX SECTION.

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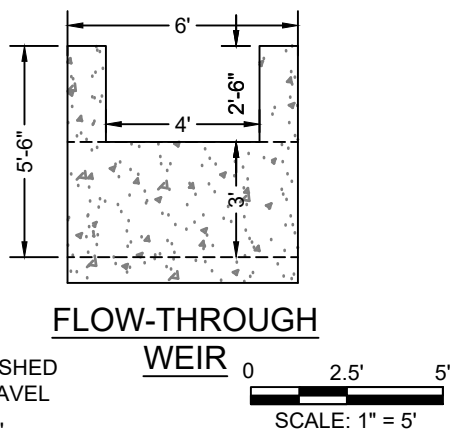
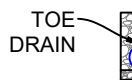
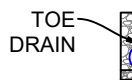
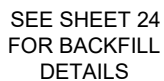
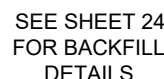
CONFEDERATED SALISH & KOOTENAI TRIBES
FALLS CREEK DIVERSION REHABILITATION
DIVERSION STRUCTURE-BOX SECTION DETAILS
LAKE COUNTY, MONTANA

DESIGNED BY: DSD
DRAWN BY: ANC
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DATE: 9/2023



NOTE:

1. BOX SECTIONS WILL VARY TO FIT THE GEOMETRY OF THE DIVERSION STRUCTURE.
2. ALL BOX SECTIONS EXCEPT FOR TYPICAL SECTIONS 2 & 4 TO HAVE A SOUTH WALL (DOWNSTREAM WALL) AT 5 FEET.
3. ALL BOX SECTIONS TO HAVE A LOW POINT (FLOW THROUGH WEIR) THROUGH THEIR CENTER WALL, EXCEPT FOR BOX SECTIONS B, B1, B2, AND A5.
4. SEE NOTES ON SHEET 19 FOR HAUNCH REMOVAL REQUIREMENTS.
5. WRAP ALL 3/4" WASHED GRAVEL IN NON-WOVEN GEOTEXTILE FABRIC.



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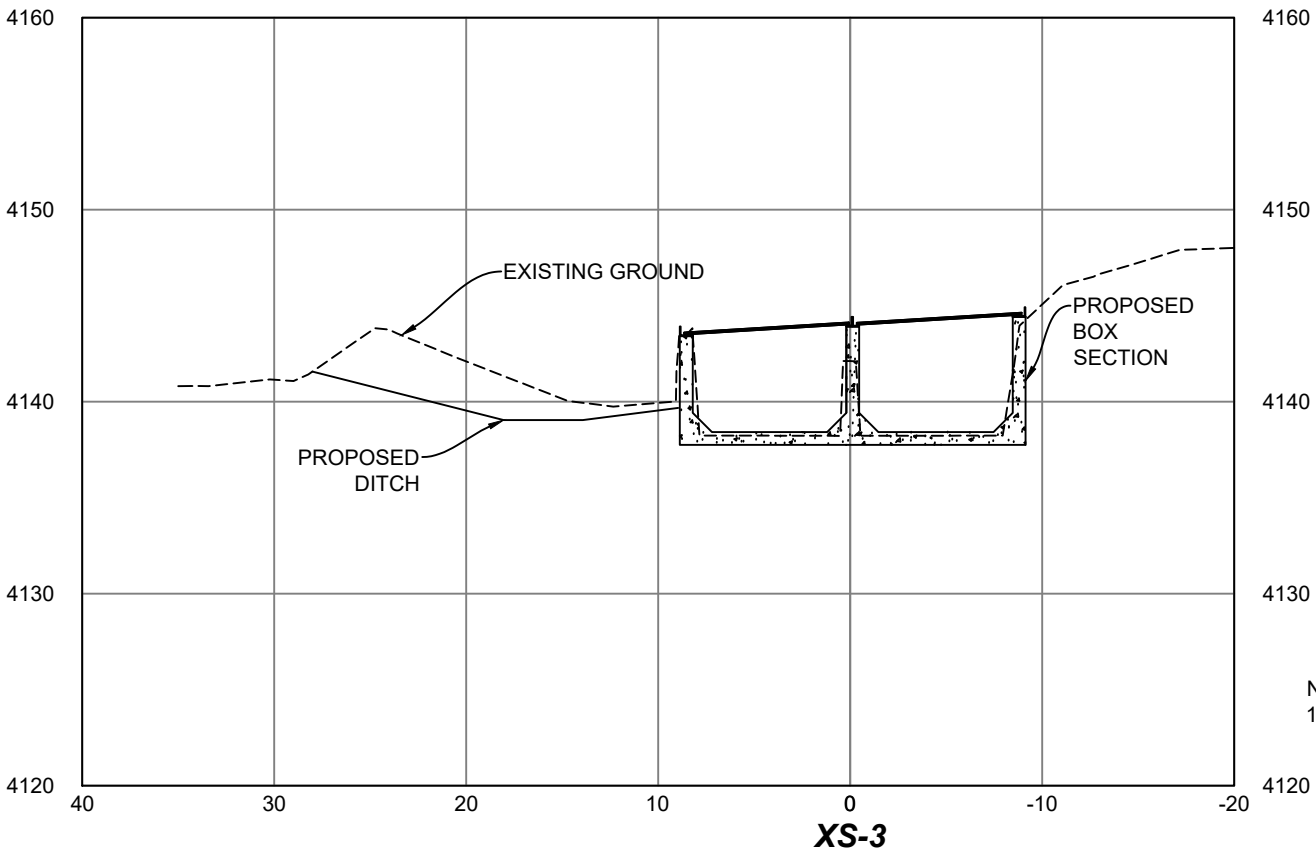
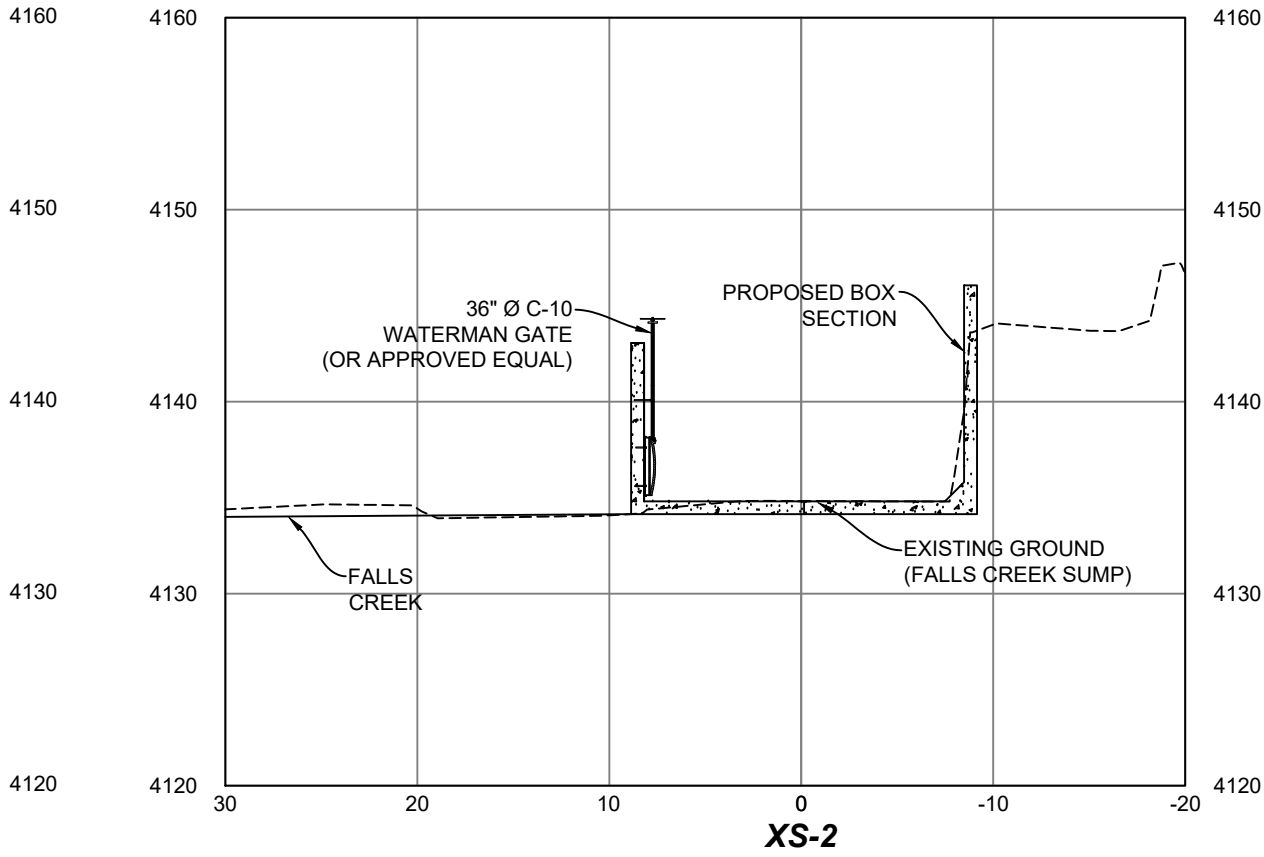
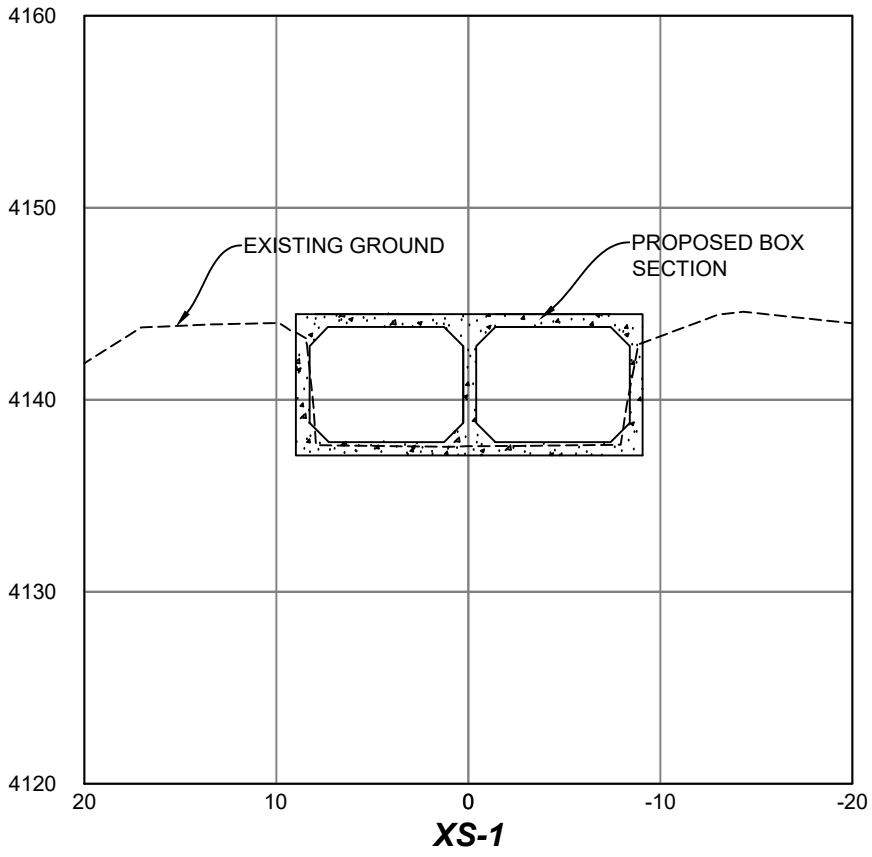
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FALLS CREEK DIVERSION REHABILITATION
DIVERSION STRUCTURE-BOX SECTION DETAILS (2)
LAKE COUNTY, MONTANA

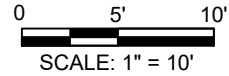
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SHEET
20

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NOTE:
1. SEE SHEET 18 FOR LOCATION OF CROSS SECTIONS.



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PROJECT NO. 2021-087			

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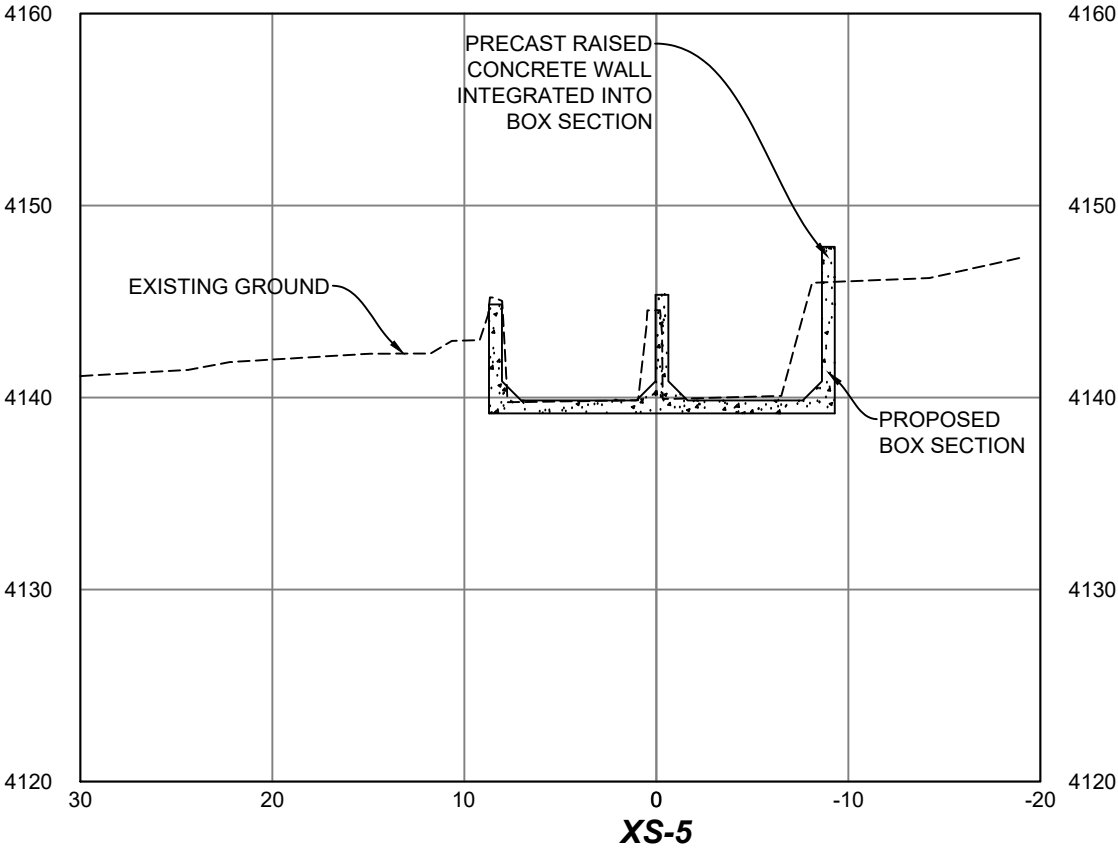
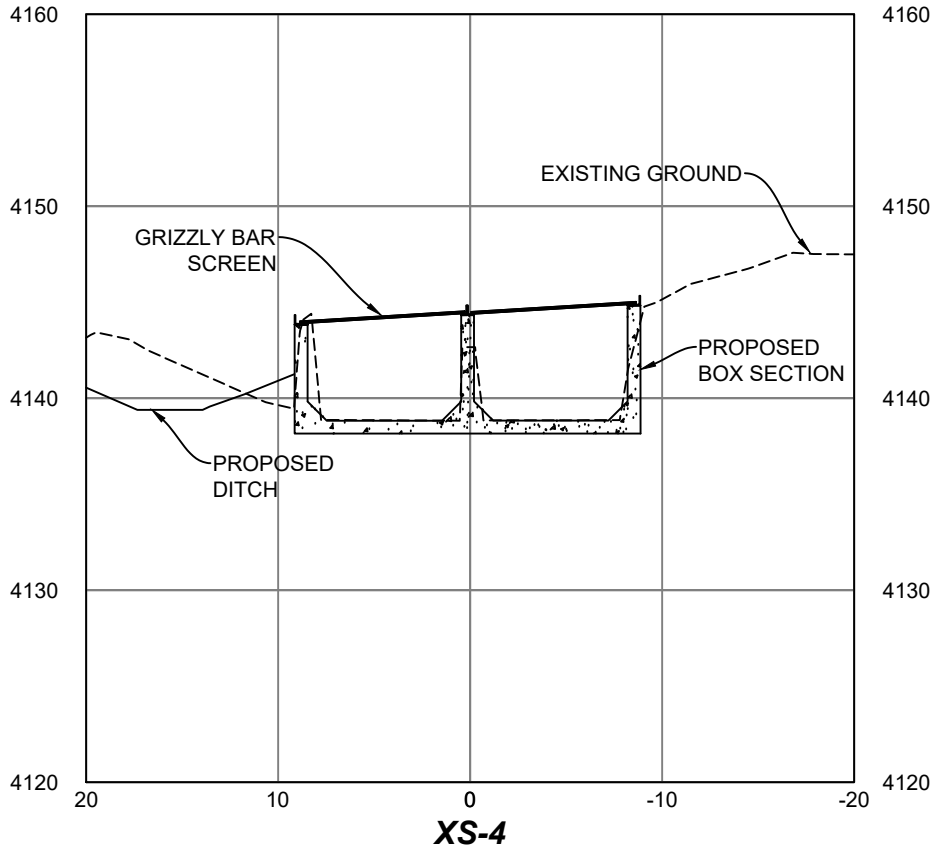
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FALLS CREEK DIVERSION REHABILITATION
DIVERSION STRUCTURE-CROSS SECTIONS
LAKE COUNTY, MONTANA

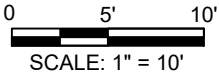
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SHEET
21

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NOTE:
1. SEE SHEET 18 FOR LOCATION OF CROSS SECTIONS.



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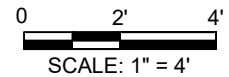
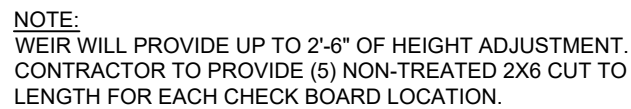
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FALLS CREEK DIVERSION REHABILITATION
DIVERSION STRUCTURE-CROSS SECTIONS (2)
LAKE COUNTY, MONTANA

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22

1. INSTALL 3 STAINLESS STEEL BOLTS FOR TOP AND SIDE ANGLE IRONS.
2. PRECAST MANUFACTURER TO PROVIDE LOCATION OF REINFORCING STEEL AROUND OPENING.
3. ANCHOR 36" Ø WATERMAN GATE PER MANUFACTURER'S INSTRUCTIONS.



CONFEDERATED SALISH & KOOTENAI TRIBES

FALLS CREEK DIVERSION REHABILITATION

DIVERSION STRUCTURE-DETAILS (1)

LAKE COUNTY, MONTANA

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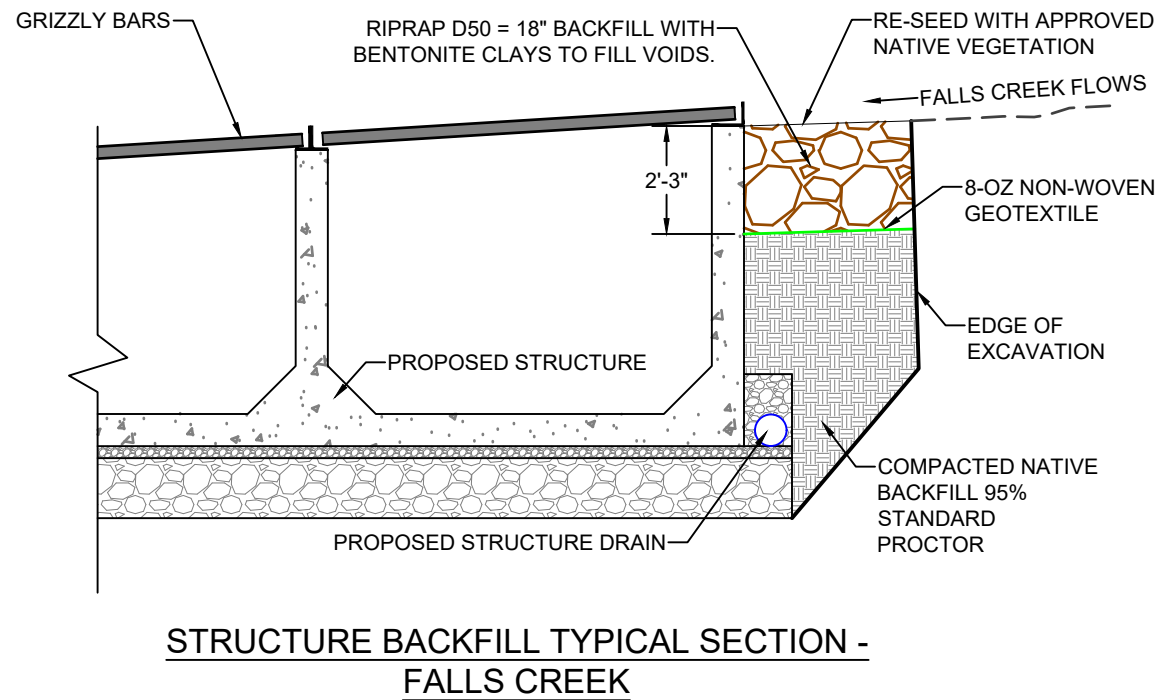
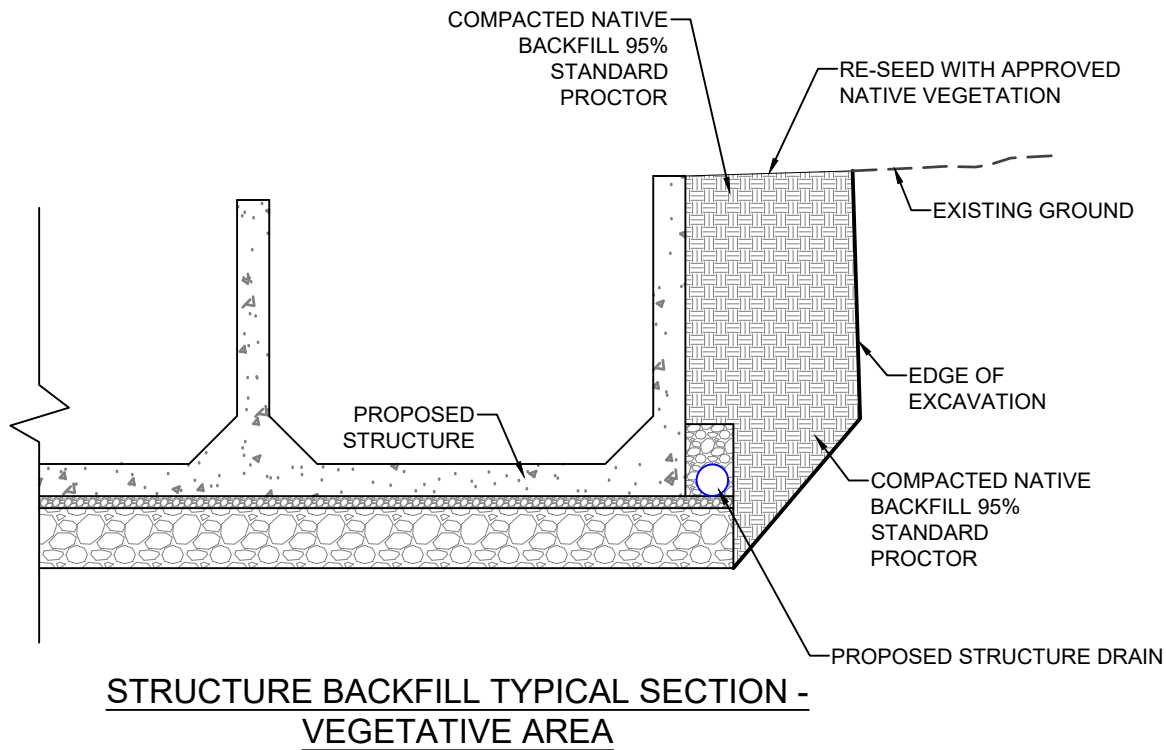
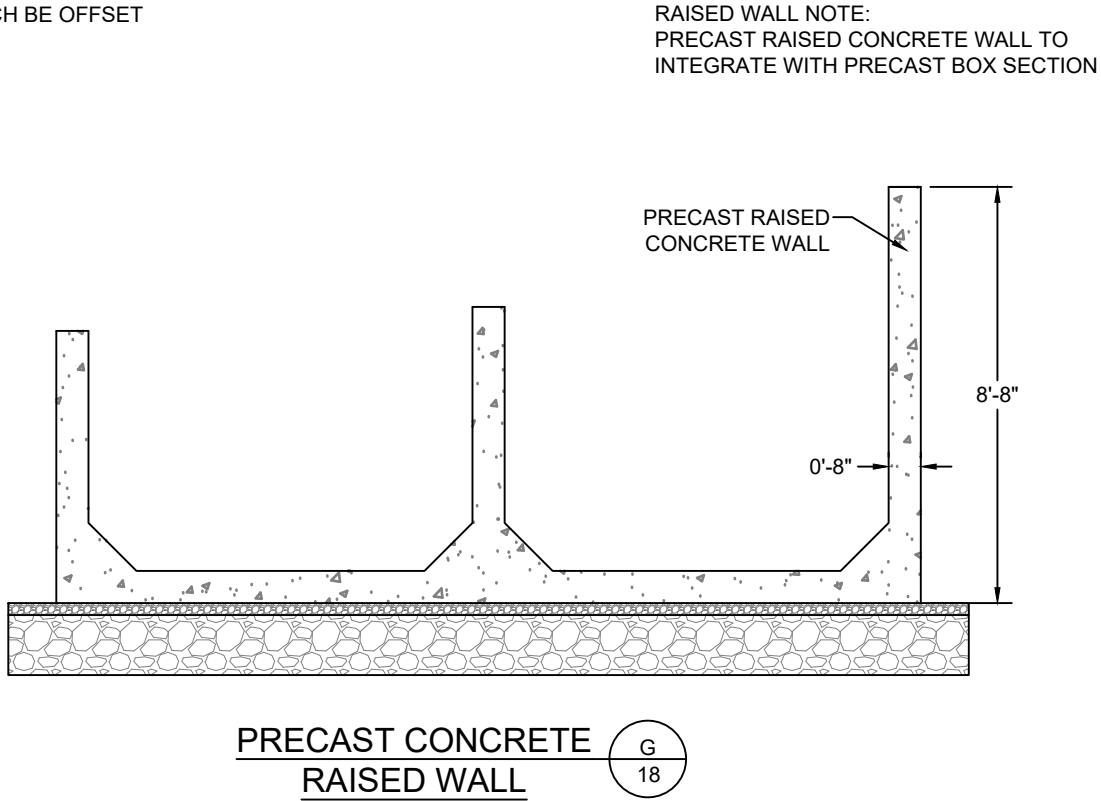
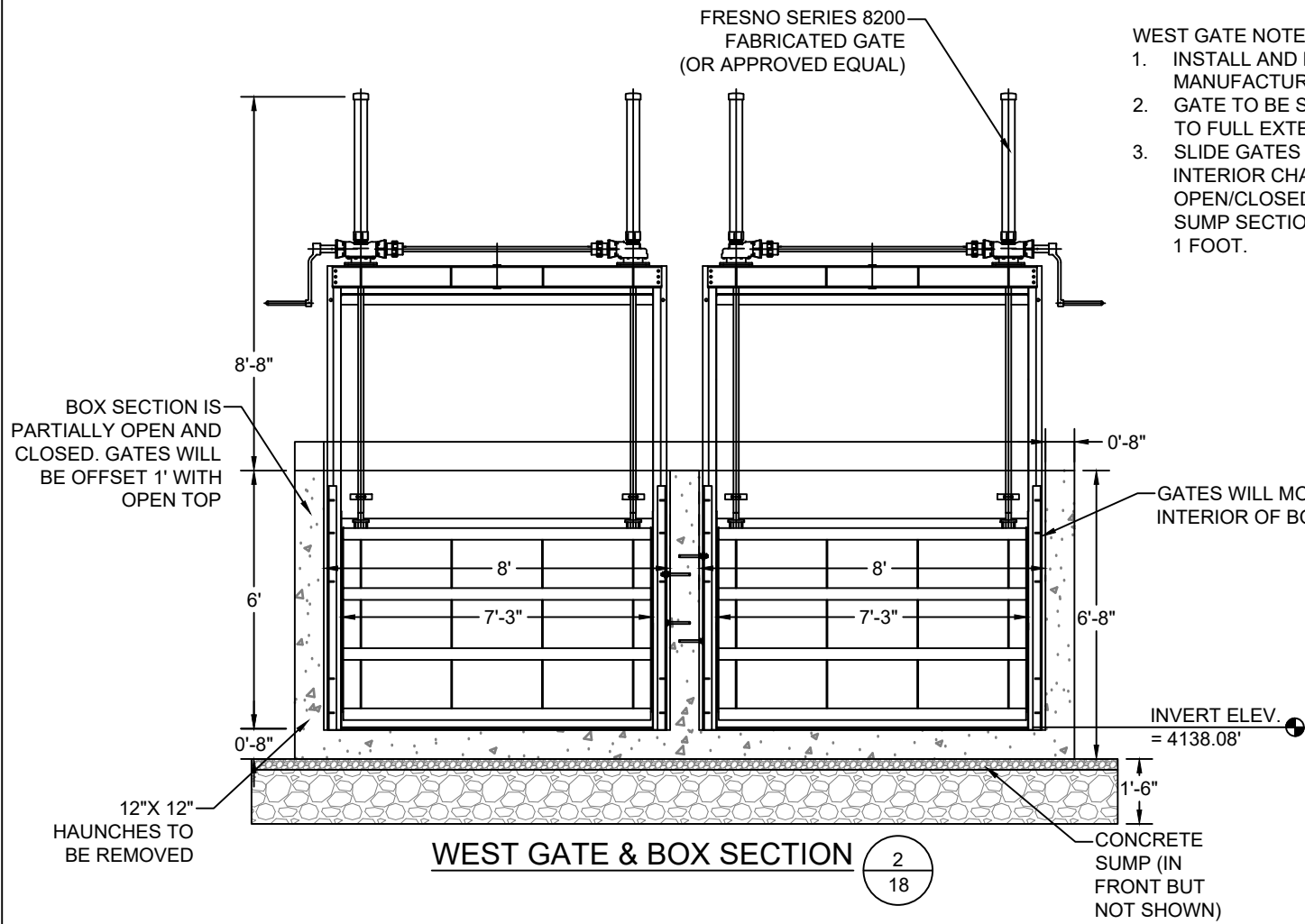
DATE: 9/2023

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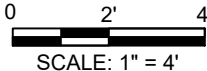
23

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DIVERSION STRUCTURE-DETAILS (2)
LAKE COUNTY, MONTANA

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SHEET
24

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PROJECT NO. 2021-087			



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NO.	REVISION	BY	DATE

PROJECT NO. 2021-087

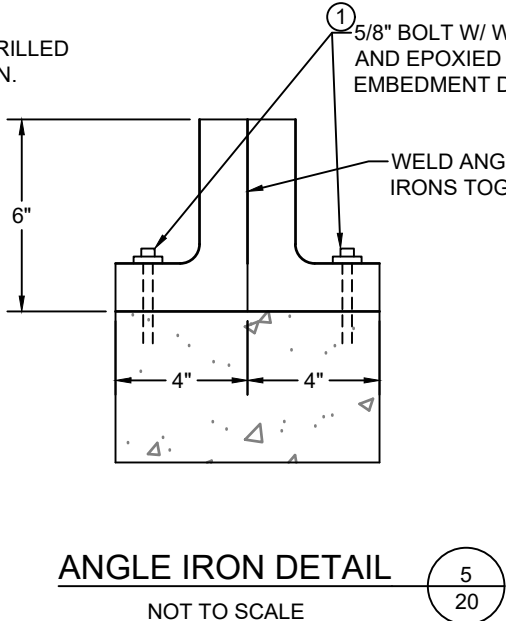
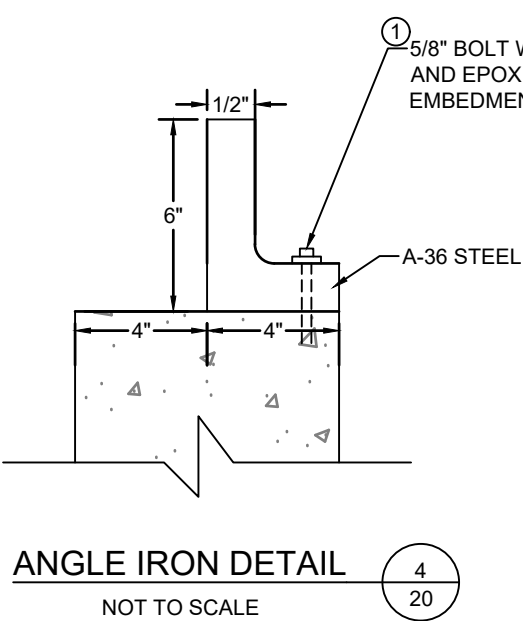
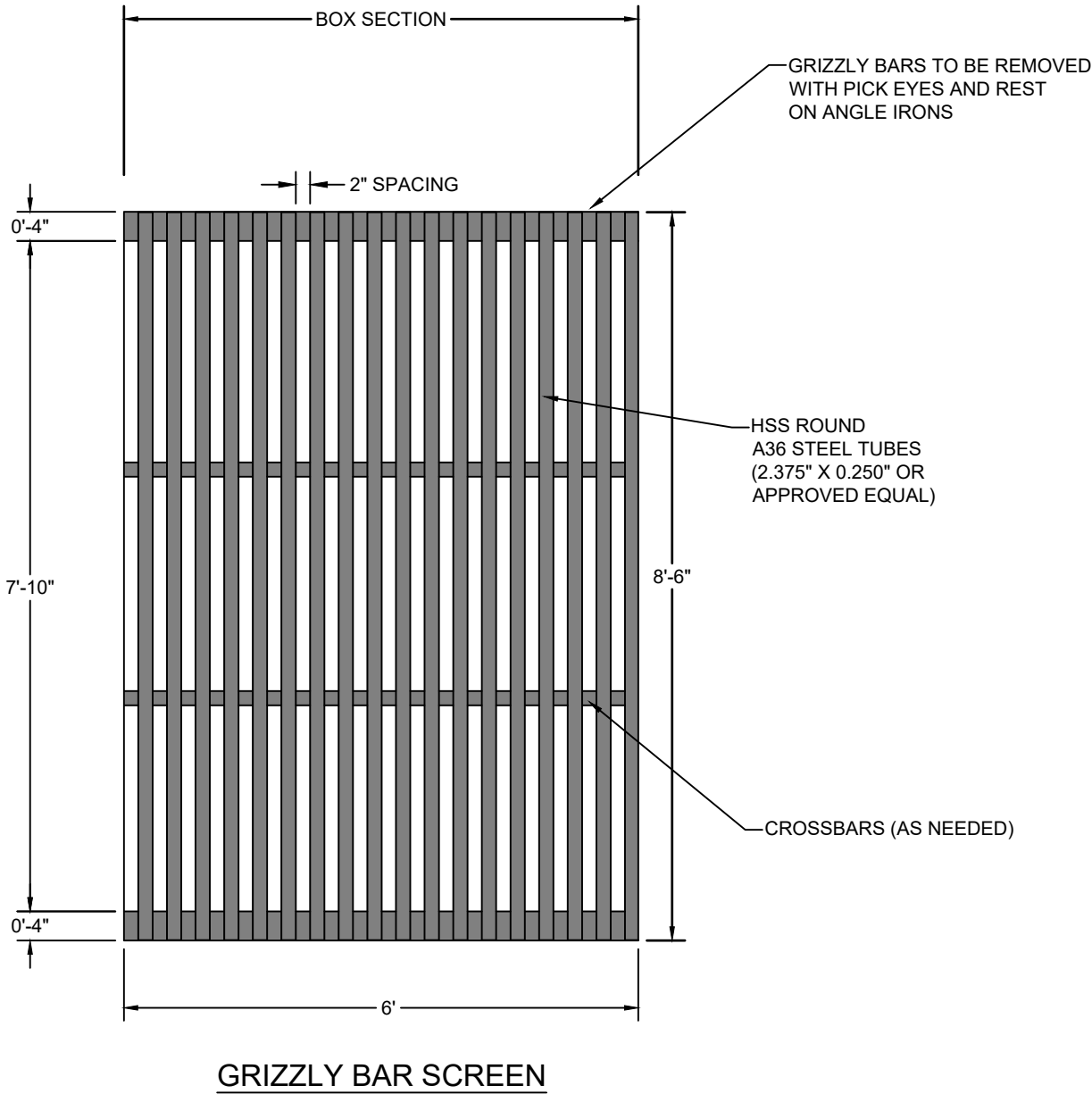
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LAKE COUNTY, MONTANA

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SHEET
25

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- NOTES:
1. INSTALL BOLTS APPROXIMATELY EVERY 2.5' LONGITUDINALLY ALONG ANGLE IRONS. INSTALL (3) BOLTS PER BOX SECTION PER ANGLE IRON PIECE WITH A 6" SPACE FROM THE EDGE OF THE BOX SECTION.
 2. FOR BOX SECTION WITH THE LOW FLOW WEIR SECTION, INSTALL BOLTS AT BOTH ENDS OF THE RAISED WALL SECTIONS TO ENSURE AT LEAST (2) BOLTS ARE INSTALLED IN EACH BOX SECTION.

- NOTES:
- GRIZZLY BARS TO FOLLOW A PERFORMANCE SPEC OF 2 INCH SPACING AND 500 PSF LOADING FOR EACH BAR, CONSIDER HSS ROUND TUBING OR EQUAL.
 - DESIGN OF GRIZZLY BAR SCREENS TO BE COORDINATED BETWEEN PRECAST MANUFACTURER AND FABRICATION COMPANY.
 - CROSSBARS FOR FABRICATOR TO PROPOSED AS NEEDED FOR LOADING.
 - ALL DIMENSION REPRESENT ACTUAL CONSTRUCTED DIMENSIONS.

0 1' 2'
SCALE: 1" = 2'

FOR BIDDING

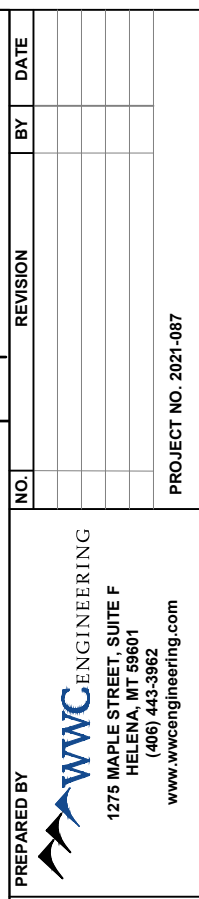
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FALLS CREEK DIVERSION REHABILITATION
DIVERSION STRUCTURE-DETAILS (4)
LAKE COUNTY, MONTANA

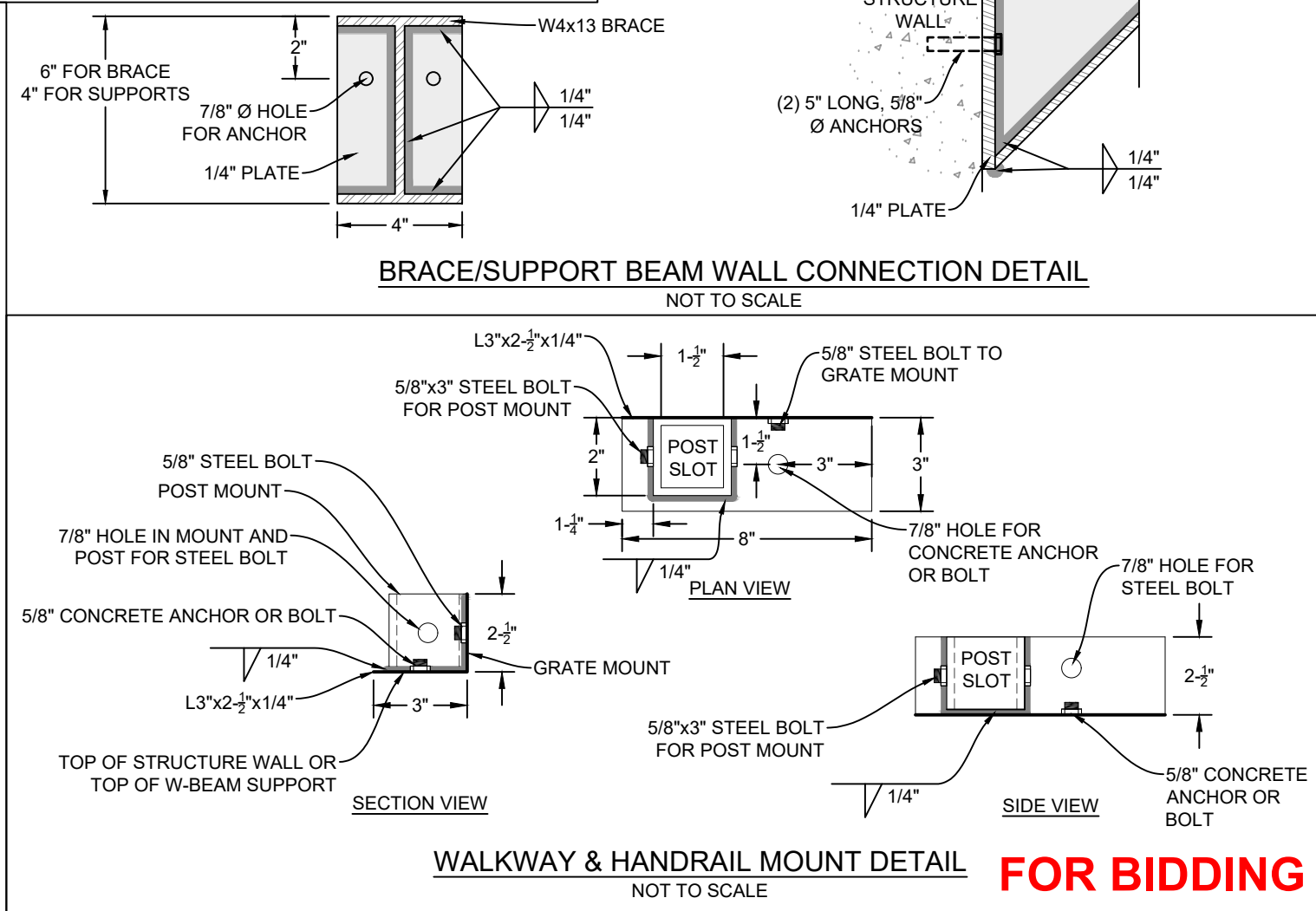
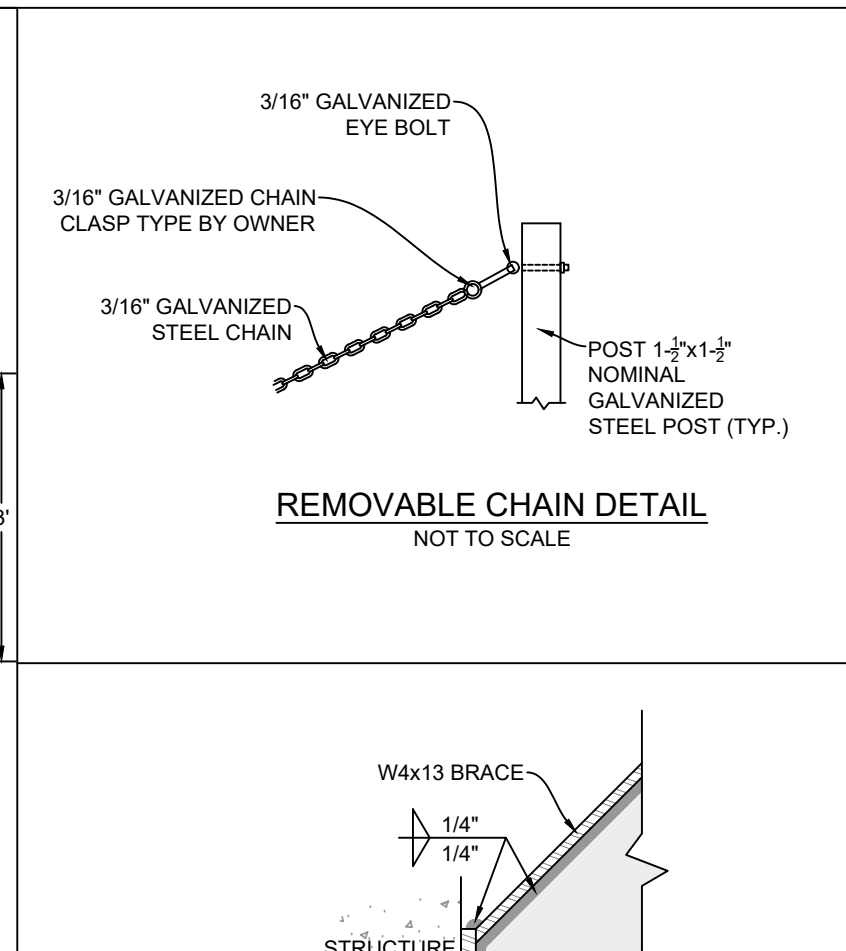
PREPARED BY
WWC ENGINEERING
1275 MAPLE STREET, SUITE F
HELENA, MT 59601
(406) 443-3962
www.wwcengineering.com


DESIGNED BY: DSD
DRAWN BY: ANC
CHECKED BY: DDP
DATE: 9/2023

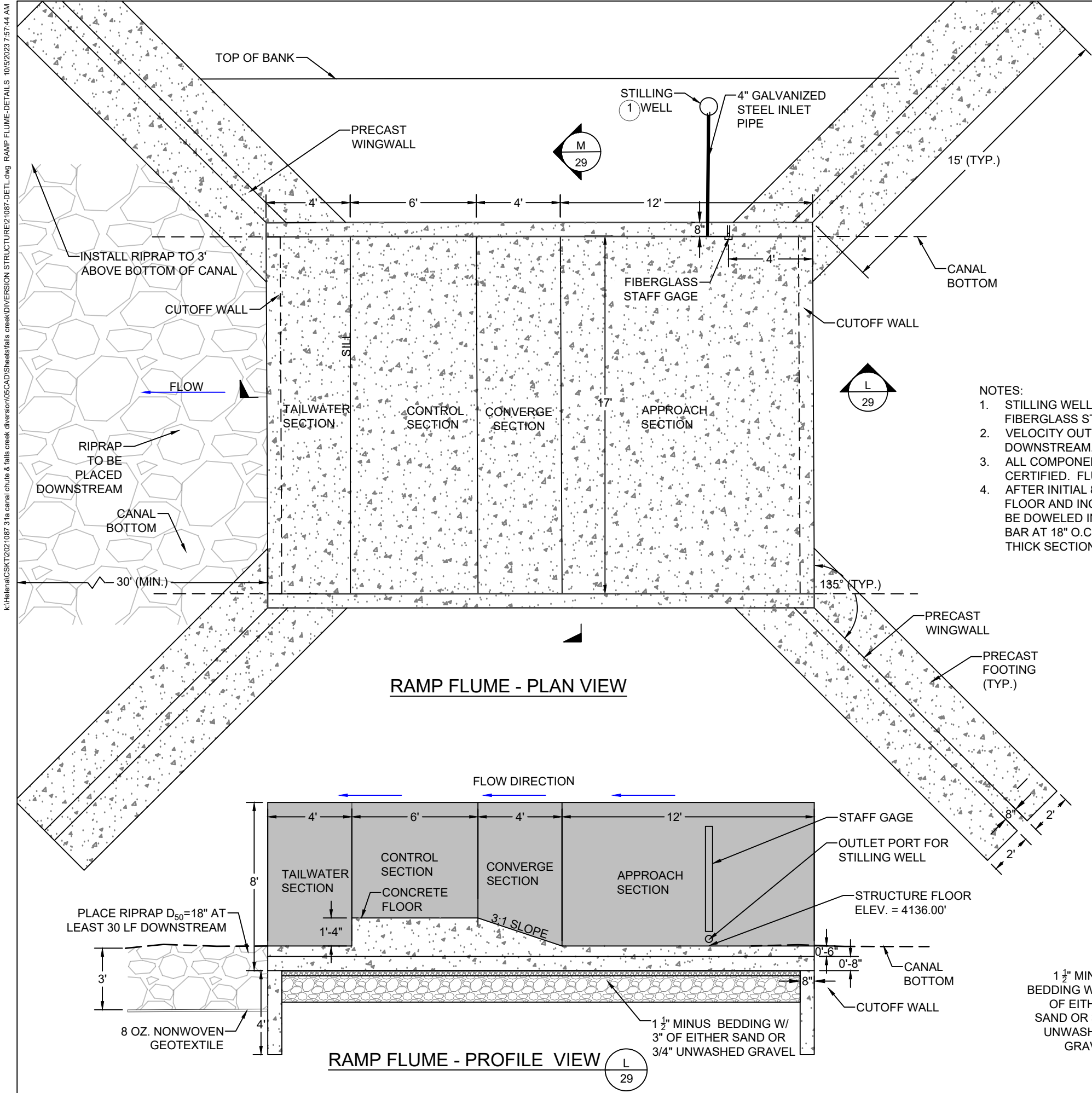
SHEET
26

NO. REVISION BY DATE
PROJECT NO. 2021-087

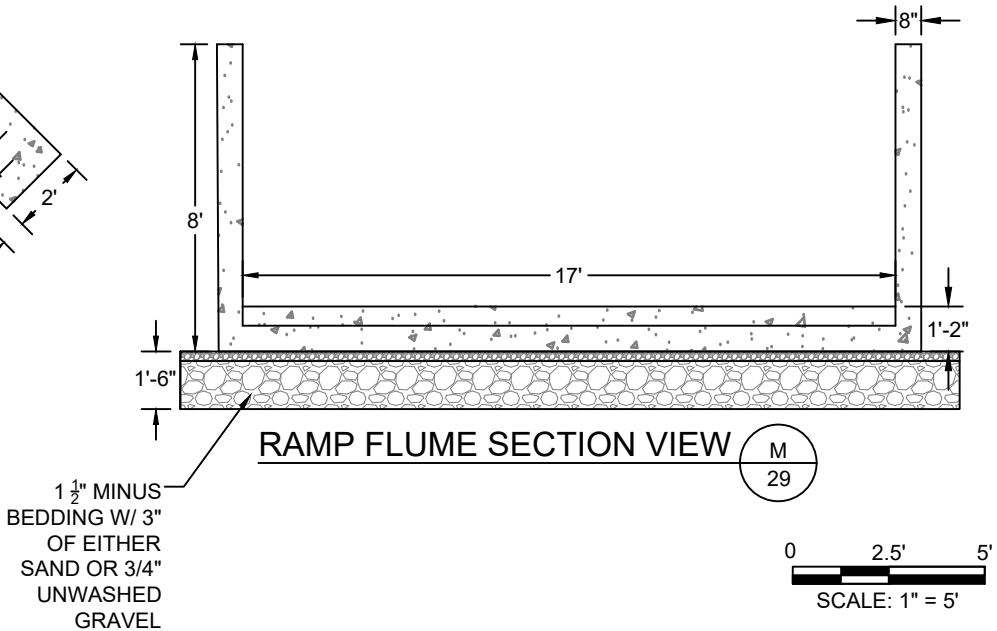




<div>DESIGNED BY: <u>DSJ</u></div> <div>DRAWN BY: <u>ANC</u></div> <div>CHECKED BY: <u>DDP</u></div> <div>DATE: <u>9/2023</u></div>	<div>CONFEDERATED SALISH & KOOTENAI TRIBES</div> <div>FALLS CREEK DIVERSION REHABILITATION</div> <div>DIVERSION STRUCTURE-DETAILS (6)</div> <div>LAKE COUNTY, MONTANA</div>	<div>PREPARED BY</div> <div> WWC ENGINEERING</div> <div>1275 MAPLE STREET, SUITE F</div> <div>HELENA, MT 59601</div> <div>(406) 443-3962</div> <div>www.wwcengineering.com</div>	NO.	REVISION	BY	DATE
SHEET 28		PROJECT NO. 2021-087				



- NOTES:
1. STILLING WELL TO BE FURNISHED AND INSTALLED BY CSKT STAFF. CONTRACTOR TO FURNISH FIBERGLASS STAFF GAGE AND 4" GALVANIZED STEEL INLET PIPE TO STILLING WELL.
 2. VELOCITY OUT OF FLUME AT A MAXIMUM FLOW OF 450 CFS IS 5 FT/S. RIPRAP TO BE PLACED 30' DOWNSTREAM.
 3. ALL COMPONENTS OF THE FLUME TO BE PRECAST BY A MANUFACTURER THAT IS NPCA CERTIFIED. FLUME SECTION LENGTHS TO BE DETERMINED BY PRECAST MANUFACTURER.
 4. AFTER INITIAL 8" THICK BOX SECTION IS CAST, POUR A SECOND 6" THICK SECTION FOR THE FLOOR AND INCORPORATE RAISED CONTROL SECTION. CAST-IN-PLACE FLOOR SECTION SHALL BE DOWELED INTO PRE-CAST CONCRETE SECTION AT 12" O.C.E.W. INSTALL SINGLE MAT OF #5 BAR AT 18" O.C.E.W. FOR 6" THICK SECTION AND A DOUBLE MAT OF #5 AT 18" O.C.E.W. FOR 12" THICK SECTION.



0 2.5' 5'
SCALE: 1" = 5'

FOR BIDDING

CONFEDERATED SALISH & KOOTENAI TRIBES
FALLS CREEK DIVERSION REHABILITATION
RAMP FLUME-DETAILS
LAKE COUNTY, MONTANA


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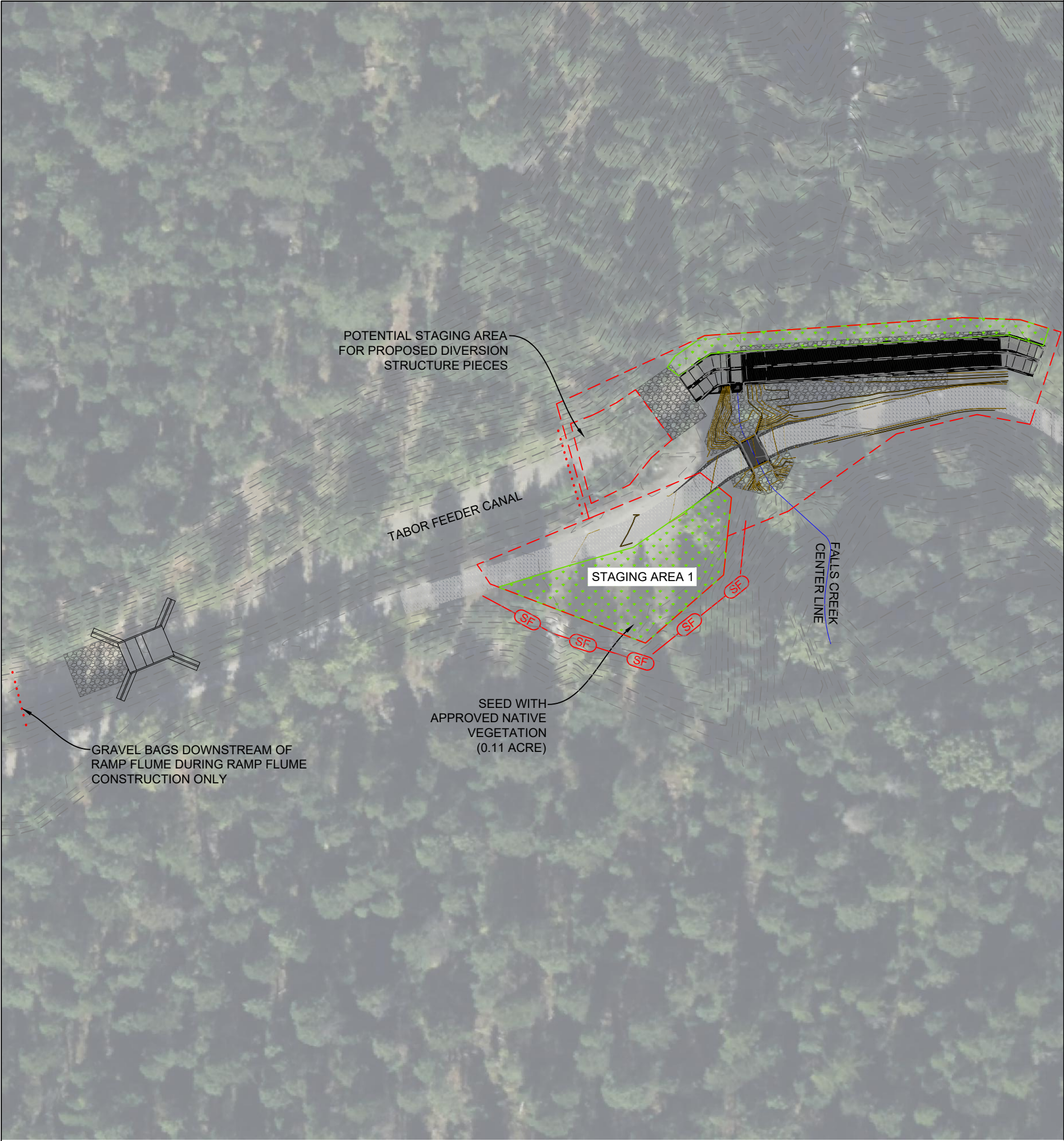
DESIGNED BY: DSD
DRAWN BY: ANC
CHECKED BY: DDP
DATE: 9/2023



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<p>DESIGNED BY: <u>DSD</u></p> <p>DRAWN BY: <u>ANC</u></p> <p>CHECKED BY: <u>DDP</u></p> <p>DATE: <u>09/2022</u></p> <p align="center">SHEET 30</p>	<p align="center">CONFEDERATED SALISH & KOOTENAI TRIBES FALLS CREEK DIVERSION REHABILITATION EROSION CONTROL PLAN LAKE COUNTY, MONTANA</p>			<p align="right">PROJECT NO. 2021-087</p>		
	<p>PREPARED BY</p>  <p align="right"> WWC ENGINEERING 1275 MAPLE STREET SUITE F HELENA, MT 59601 (406) 443-3962 www.wwcengineering.com </p>					

k:\Helena\CSKT\2021087 31a canal chute & falls creek diversion\05CAD\Sheets\falls creek\box culvert bridge\21087-ERSN-CTRL-STG-AREA.dwg EROSION CONTROL PLAN (2) 10/4/2023 5:05:28 PM



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CONFEDERATED SALISH & KOOTENAI TRIBES
FALLS CREEK DIVERSION REHABILITATION
EROSION CONTROL PLAN (2)
LAKE COUNTY, MONTANA

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31

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FOR BIDDING

CONFEDERATED SALISH & KOOTENAI TRIBES FALLS CREEK DIVERSION REHABILITATION EROSION CONTROL PLAN (3) LAKE COUNTY, MONTANA	PREPARED BY	 WWC ENGINEERING 1275 MAPLE STREET, SUITE F HELENA, MT 59601 (406) 443-3962 www.wwcengineering.com		
	NO.	REVISION	BY	DATE
DESIGNED BY: <u>DSD</u> DRAWN BY: <u>ANC</u> CHECKED BY: <u>DDP</u> DATE: <u>09/2022</u>		PROJECT NO. 2021-087		
SHEET 32				



PUMPING STATION NOTES:

1. CONTRACTOR TO SIZE PUMPS AND CONVEYANCE PIPE.
2. CSKT MEASURED A FLOW RATE OF 1.19 CFS (APPROX 535 GPM) IN THE TABOR FEEDER CANAL ON AUGUST 16, 2023.

[illegible]