

January 21, 2022

Compliance Promotion and Enforcement Unit
Impact Assessment Agency of Canada
compliance-conformite@iaac-aeic.gc.ca

Reference: Springbank Off-Stream Reservoir Project –IAAC Approval Condition 3.1

The following memo provides the status Alberta Transportation has made regarding the Impact Assessment Agency of Canada (IAAC) approval condition 3.1

The Impact Assessment Agency of Canada (IAAC) outlined in approval condition 3.1 of their Decision Statement:

Condition 3.1 *The Proponent shall develop, prior to construction, and implement and maintain during all phases of the Designated Project, measures to control erosion and sedimentation within the project development area in a manner consistent with the Fisheries Act and its regulations. The Proponent shall submit these measures to the Agency before implementing them. In doing so, the Proponent shall:*

3.1.1 manage surface water around stockpiles;

3.1.2 not stockpile any excavated material within 50 meters of the top of the bank of the Elbow River;

3.1.3 install and maintain sediment fences and turbidity barriers during construction and operation;

3.1.4 install riprap material along the diversion channel bottom and side slopes where the channel is excavated through soil, near the low-level outlet and where the approach channel meets the intake structure to reduce the risk of erosion;

3.1.5 implement measures to allow sediment to settle out before returning dewatering discharge into the Elbow River, including by removing downstream barriers first when removing isolation barriers during construction and post-flood operation; and

3.1.6 implement energy dissipation measures to control flows and erosion in the diversion channel and low level outlet channel.

During construction, the Contractor will implement the following erosion and sediment control measures:

Schedule 3 (Construction contract)

- 3.1. The Contractor shall...[assign] responsibility for the implementation, and maintenance of the Work...including temporary erosion control measures, to a suitably qualified individual, herein called the

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“Contractor’s Environmental Lead” (or Manager). The Contractor’s Environmental Lead shall be identified at the pre-construction meeting. This individual can be a qualified environmental professional retained as a subcontractor by the Contractor.

Schedule 7 (Construction contract)

- 7.2.4 mitigate any potential for Hazardous Substances to enter the environment through the implementation of a spill response plan, appropriate sediment and erosion control measures, and the limitation of using herbicides and fertilizers in the dry reservoir and near waterbodies, and using non-toxic biodegradable hydraulic fluids in equipment for any required instream Work;

Schedule 9 (Construction contract)

- 9.3.2. install sediment and erosion control devices to withstand anticipated flows during construction;
- 9.3.4. remove and dispose of silt materials collected at silt fabric fencing. The cleaning and removal of debris and sediment from sediment and erosion control devices will be conducted in a manner that will prevent materials from entering the water body; and
- 9.7. Should TSS levels exceed the compliance levels, or a visible plume of sediment is observed, the Contractor shall immediately notify the Consultant, the Province and report to Alberta Environment and Parks (1-800-222-6514). A written report must be submitted within seven (7) days of the initial report and submitted to the Alberta Environment Environmental Response Centre. The written report will follow the latest guidance available for release reporting posted on the Alberta Environment and Parks’ website.

Schedule 12 (Construction contract)

- 12.1. The Consultant shall prepare a Vegetation and Wetland Mitigation, Monitoring and Re-vegetation (“VWMMR”) Plan for the Work and the long-term operation of the Facility and provide a copy to the Contractor. The Contractor shall conduct all Work in accordance with the VWMMR Plan, where it relates to the Work, and cooperate with the Consultant on the erosion and sediment controls for the long-term operation of the Facility.

Schedule 13 (Construction contract)

- 13.6.3. disturbed surfaces shall be revegetated promptly following construction to prevent wind erosion and to control dust;
- 13.6.5. silt fences and other erosion control methods will be used to prevent soil loss from soil stockpiles due to wind erosion;

Alberta Transportation has produced two documents that pertain to managing erosion and sediment with regards to Alberta Transportation projects. Contents of these two documents have been incorporated into the Construction contract as requirements to carry out during construction.

- Erosion and Sediment Control Manual: <https://open.alberta.ca/dataset/aaae5384-c0e0-4421-9fd8-6ab835c6f3af/resource/5ae2cd05-f29f-4f71-a88f-08ac702125a9/download/2011-erosion-sediment-control-manual-june-2011.pdf>
 - Excerpt from the Preface of Alberta Transportation’s Erosion and Sediment Control Manual: This document provides guidelines for analysis, design, construction, and maintenance of erosion and sediment control structures. This document was developed with the intent that it would

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provide a convenient and comprehensive resource and a rational basis for the design of erosion and sediment control structures...It is intended to assist and provide direction in the analysis and design of erosion and sediment control structures, but is not intended to preclude innovative or alternative designs.

- Fish Habitat Manual.
http://www.transportation.alberta.ca/Content/docType245/Production/Complete_Fish_Habitat_Manual.pdf
 - Excerpt from the Introduction of Alberta Transportation's Fish Habitat Manual: The overall goal of the Fish Habitat Manual: Guidelines and Procedures for Watercourse Crossings in Alberta is to provide practitioners with an overview of the information and procedures needed to successfully plan and construct Alberta Transportation watercourse crossing projects while minimizing the negative effects on fish and fish habitat and meeting all environmental regulatory requirements

Alberta Transportation has designed the Project to include rip rap in several locations, for example along the slope and bottom of the diversion channel and check structures in unnamed creek; please see attached set of drawings. The Contractor will be responsible for constructing the Project as per the drawings specifications.

In regards to approval condition 3.1.5, this condition has been captured in the Surface Water Monitoring Plan (sent to IAAC on December 14, 2021) as an erosion and sediment control mitigation measure.

We hope this memo provides the necessary detail regarding IAAC Condition 3.1. If there are any questions, please do not hesitate to contact myself.

Respectfully,

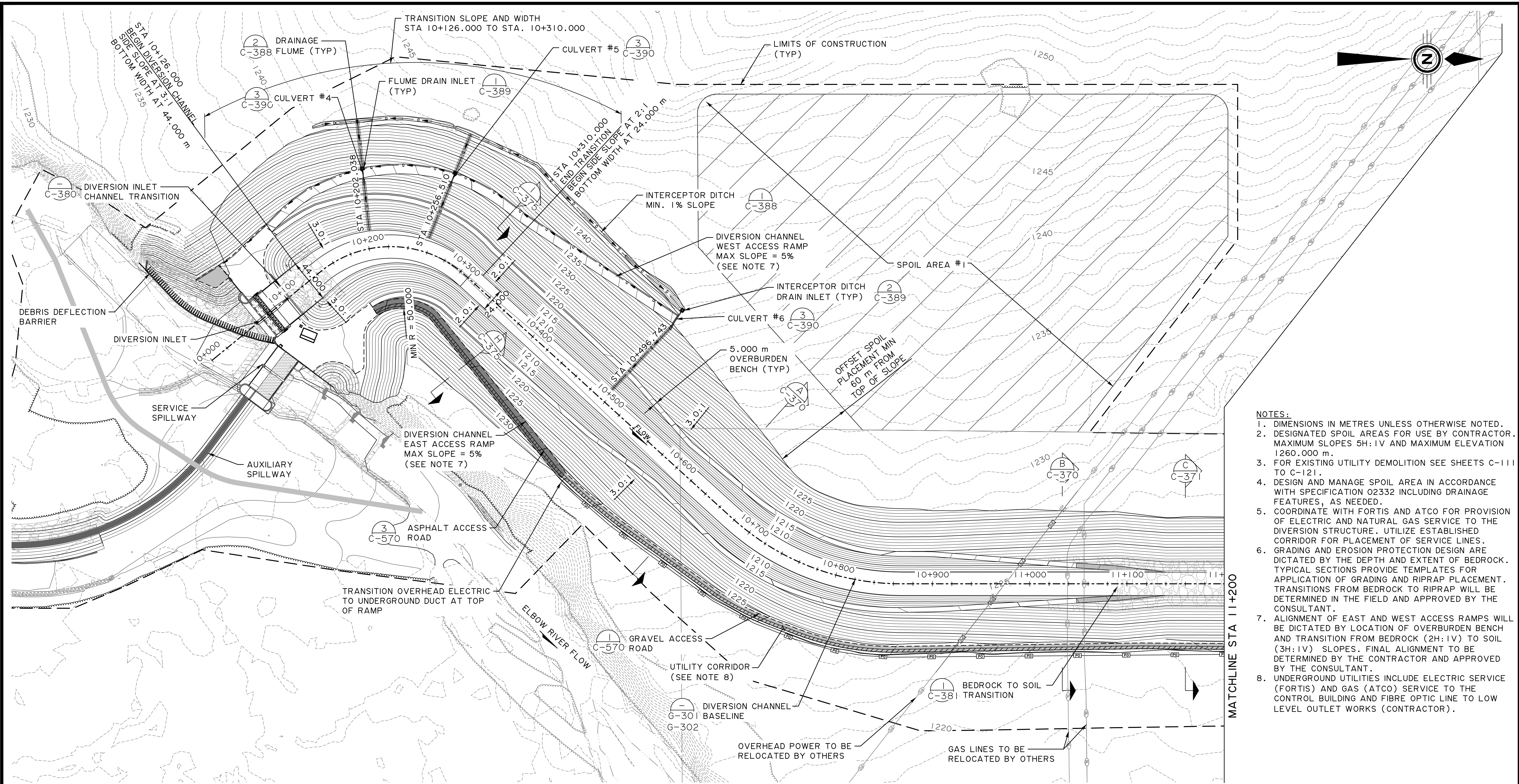
Alberta Transportation

<original signed by>

Mark Svenson, P. Biol
Water Management Environmental Specialist
Mark.svenson@gov.ab.ca

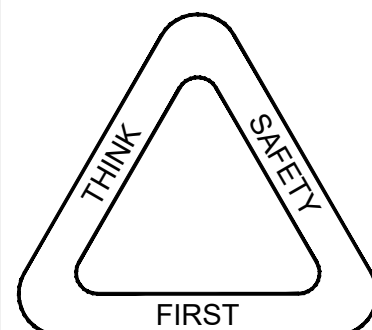
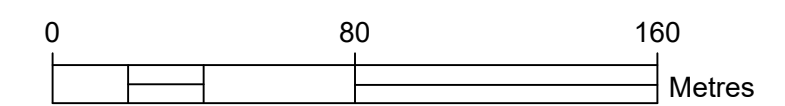
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- NOTES:**
1. DIMENSIONS IN METRES UNLESS OTHERWISE NOTED.
 2. DESIGNATED SPOIL AREAS FOR USE BY CONTRACTOR. MAXIMUM SLOPES 5H:1V AND MAXIMUM ELEVATION 1260.000 m.
 3. FOR EXISTING UTILITY DEMOLITION SEE SHEETS C-111 TO C-121.
 4. DESIGN AND MANAGE SPOIL AREA IN ACCORDANCE WITH SPECIFICATION 02332 INCLUDING DRAINAGE FEATURES, AS NEEDED.
 5. COORDINATE WITH FORTIS AND ATCO FOR PROVISION OF ELECTRIC AND NATURAL GAS SERVICE TO THE DIVERSION STRUCTURE. UTILIZE ESTABLISHED CORRIDOR FOR PLACEMENT OF SERVICE LINES.
 6. GRADING AND EROSION PROTECTION DESIGN ARE DICTATED BY THE DEPTH AND EXTENT OF BEDROCK. TYPICAL SECTIONS PROVIDE TEMPLATES FOR APPLICATION OF GRADING AND RIPRAP PLACEMENT. TRANSITIONS FROM BEDROCK TO RIPRAP WILL BE DETERMINED IN THE FIELD AND APPROVED BY THE CONSULTANT.
 7. ALIGNMENT OF EAST AND WEST ACCESS RAMPS WILL BE DICTATED BY LOCATION OF OVERBURDEN BENCH AND TRANSITION FROM BEDROCK (2H:1V) TO SOIL (3H:1V) SLOPES. FINAL ALIGNMENT TO BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE CONSULTANT.
 8. UNDERGROUND UTILITIES INCLUDE ELECTRIC SERVICE (FORTIS) AND GAS (ATCO) SERVICE TO THE CONTROL BUILDING AND FIBRE OPTIC LINE TO LOW LEVEL OUTLET WORKS (CONTRACTOR).

PLAN
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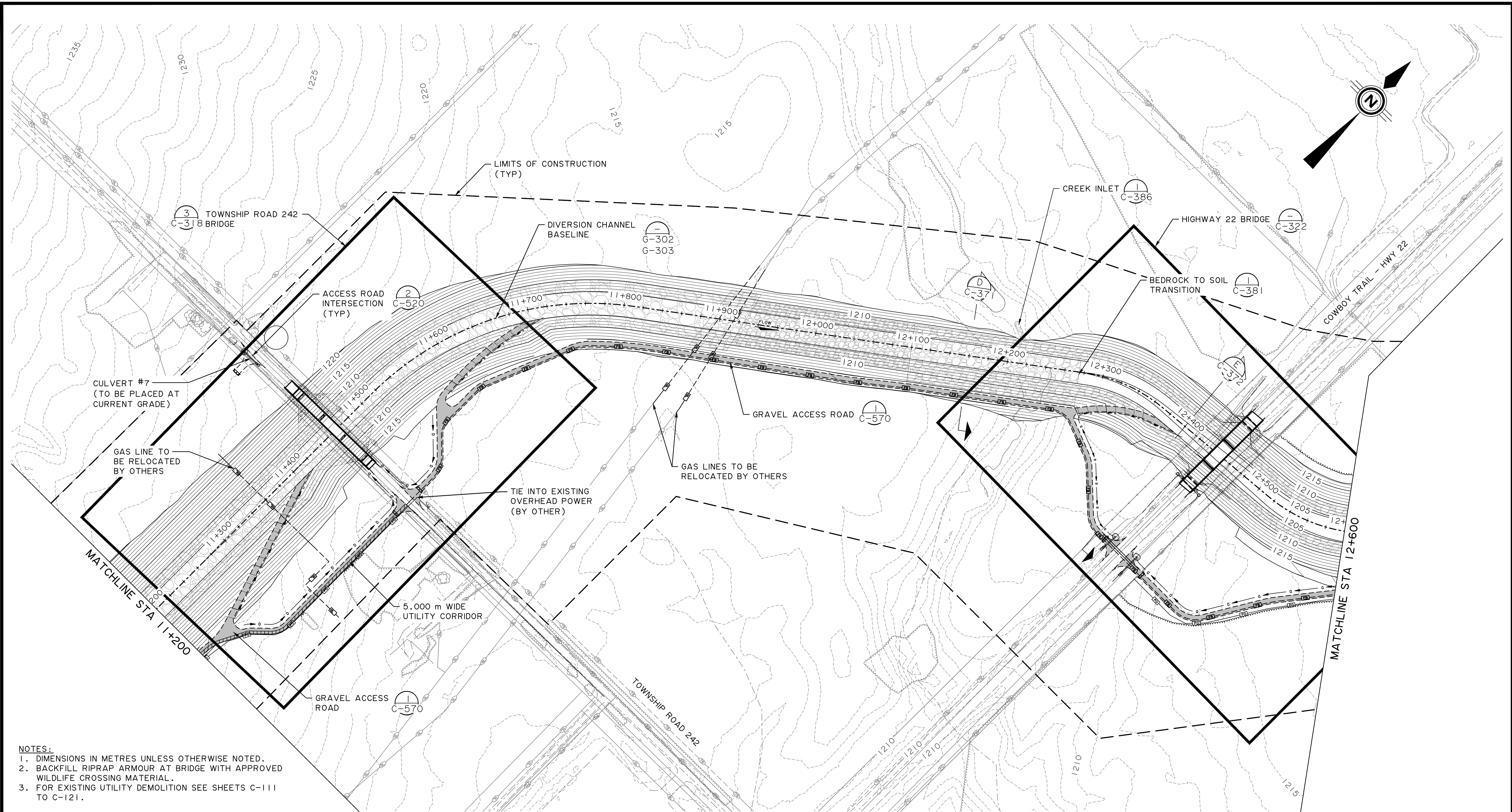


THIS DRAWING MAY HAVE BEEN REDUCED.
ALL SCALE NOTATIONS INDICATED (i.e. 1:1000 etc)
ARE BASED ON ANSI D (22" X 34") FORMAT DRAWINGS

<p>Project No.: 110773396 200 - 325 25th Street SE Calgary AB Canada T2A 7H8 Tel. 403.716.8000 www.stantec.com</p>	<p>PERMIT TO PRACTICE</p> <p>ORIGINAL DRAWINGS STAMPED AND SIGNED BY JUAN MORALES, P.ENG. 2021 SEPTEMBER 17</p>	<p>DESIGNER</p> <p>ORIGINAL DRAWINGS STAMPED AND SIGNED BY JOHN MENNINGER, P.ENG. 2021 SEPTEMBER 17</p>	<p>CHECKER</p> <p>ORIGINAL DRAWINGS STAMPED AND SIGNED BY DAN A. BACK, P.ENG. 2021 SEPTEMBER 17</p>	<table border="1"> <tr> <td>REV</td> <td>DATE</td> <td>REVISIONS</td> <td>BY</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	REV	DATE	REVISIONS	BY						<p>SPRINGBANK DAM PROJECT</p>			
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<p>DIVERSION CHANNEL PLAN - SHEET 1 OF 4</p>				<table border="1"> <tr> <td>CONTRACT</td> <td>SHEET</td> <td>CONSULTANT DRAWING</td> <td>TRANSPORTATION DRAWING</td> </tr> <tr> <td>TND0022477</td> <td>126/512</td> <td>C-310</td> <td>43125-P</td> </tr> </table>	CONTRACT	SHEET	CONSULTANT DRAWING	TRANSPORTATION DRAWING	TND0022477	126/512	C-310	43125-P					
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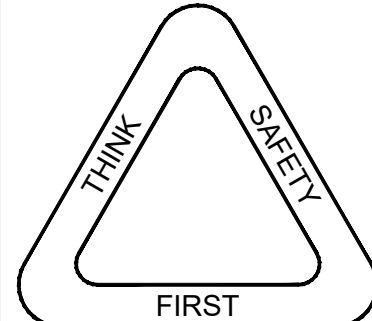
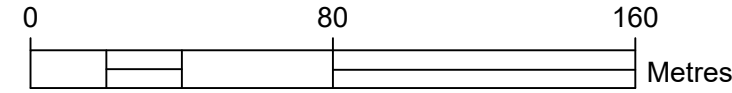
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- NOTES:
1. DIMENSIONS IN METRES UNLESS OTHERWISE NOTED.
 2. BACKFILL RIPRAP ARMOUR AT BRIDGE WITH APPROVED WILDLIFE CROSSING MATERIAL.
 3. FOR EXISTING UTILITY DEMOLITION SEE SHEETS C-111 TO C-121.

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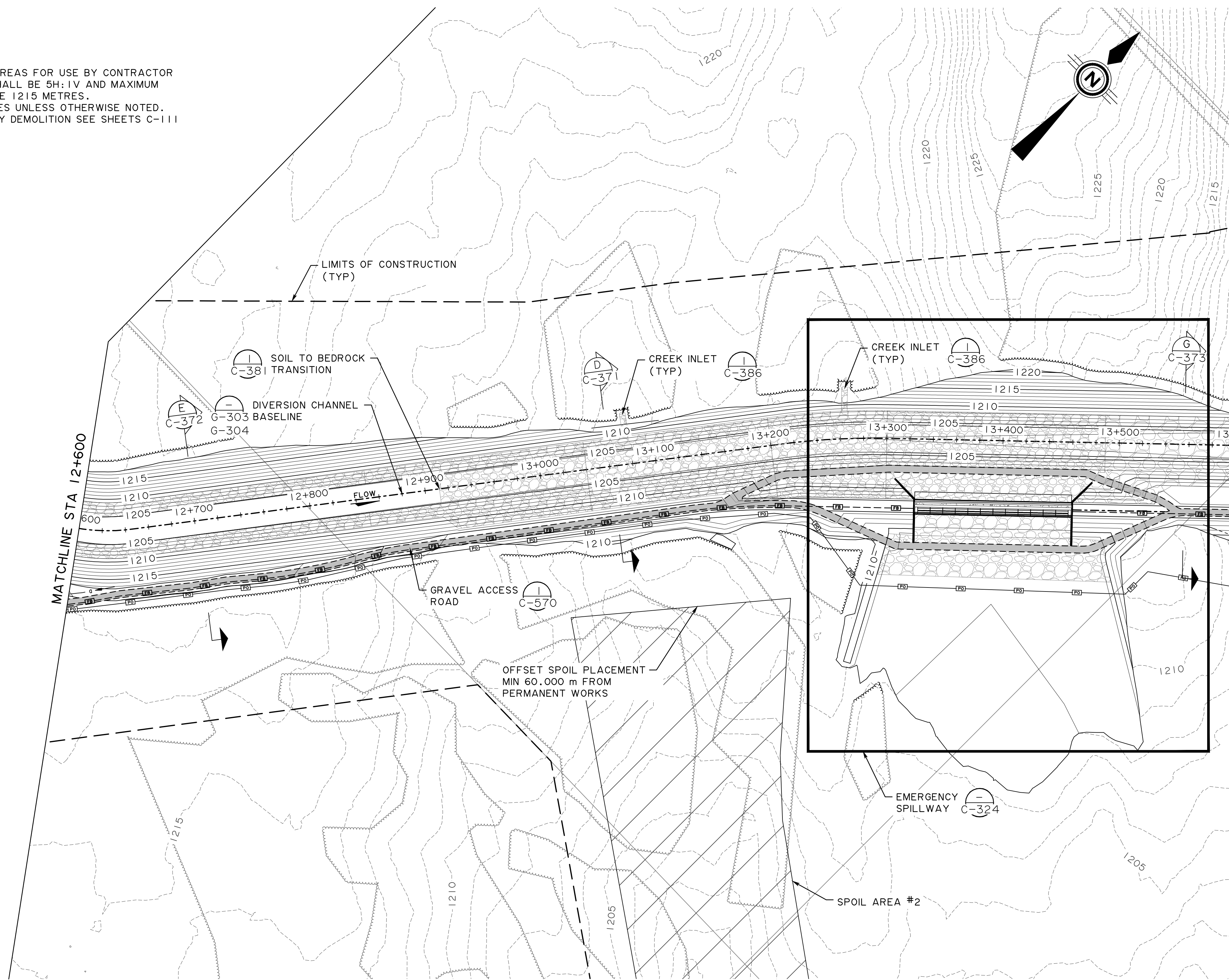


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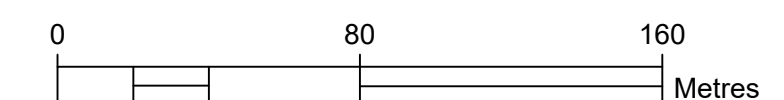
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NOTES:

1. DESIGNATED SPOIL AREAS FOR USE BY CONTRACTOR
MAXIMUM SLOPES SHALL BE 5H:1V AND MAXIMUM
ELEVATION SHALL BE 1215 METRES.
2. DIMENSIONS IN METRES UNLESS OTHERWISE NOTED.
3. FOR EXISTING UTILITY DEMOLITION SEE SHEETS C-111
TO C-121.

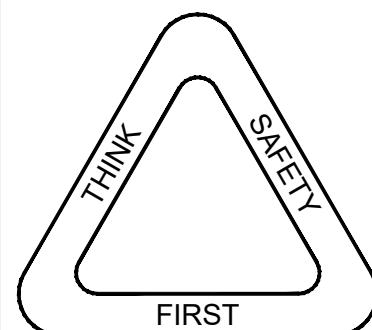


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2021 SEPTEMBER 17

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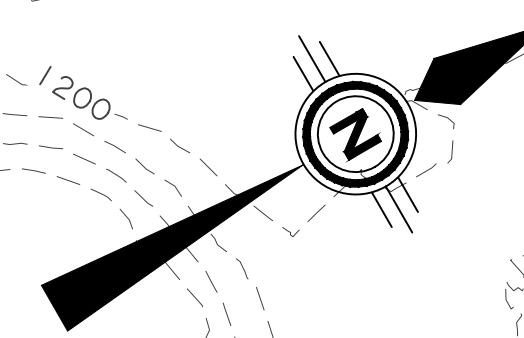


SPRINGBANK DAM PROJECT

DIVERSION CHANNEL
PLAN - SHEET 3 OF 4

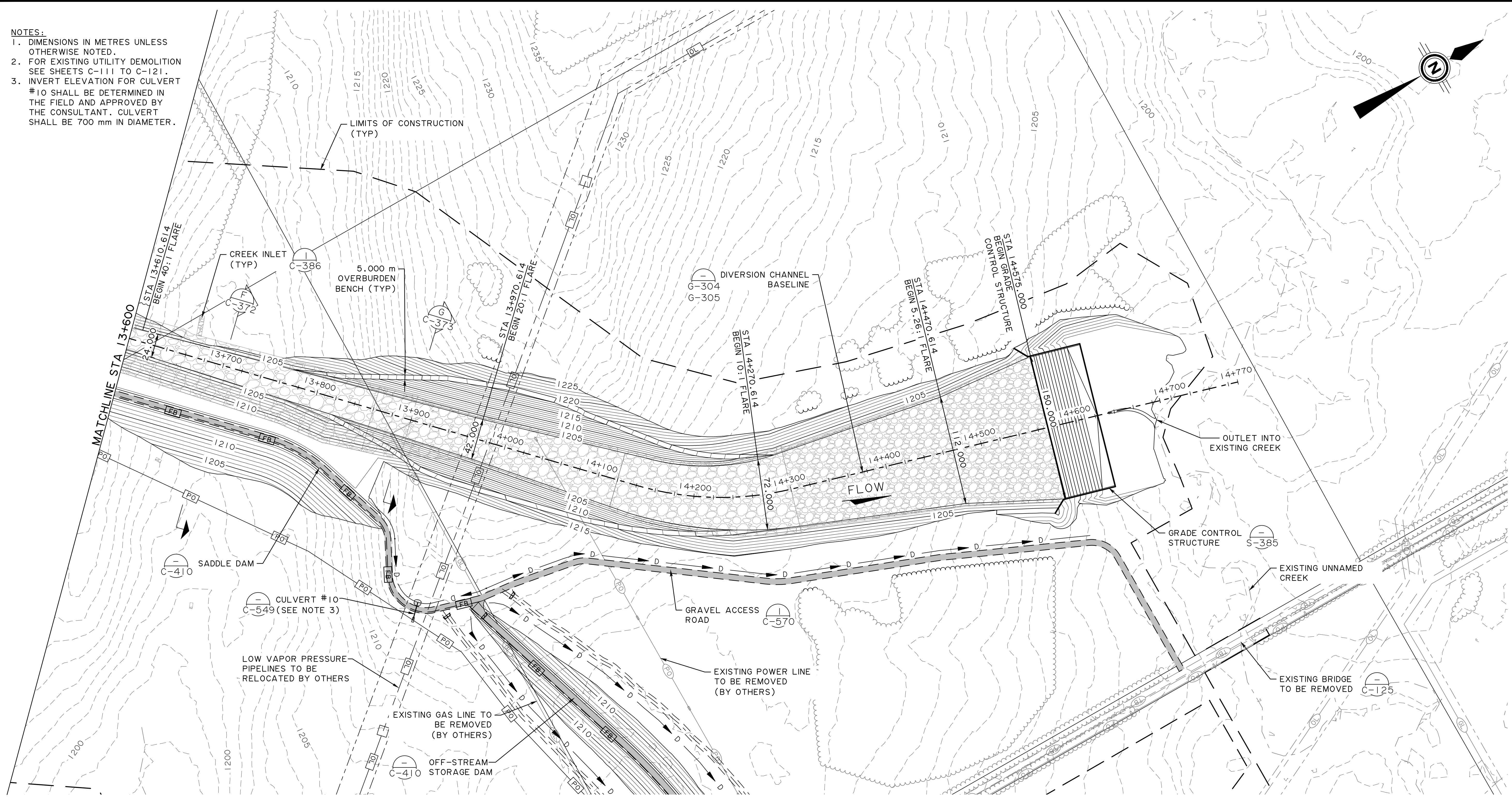
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TND0022477	128/512	C-312	43127-P

- NOTES:**
1. DIMENSIONS IN METRES UNLESS OTHERWISE NOTED.
 2. FOR EXISTING UTILITY DEMOLITION SEE SHEETS C-111 TO C-121.
 3. INVERT ELEVATION FOR CULVERT #10 SHALL BE DETERMINED IN THE FIELD AND APPROVED BY THE CONSULTANT. CULVERT SHALL BE 700 mm IN DIAMETER.

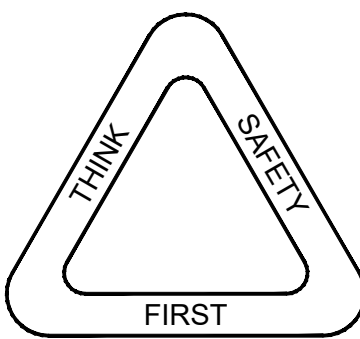
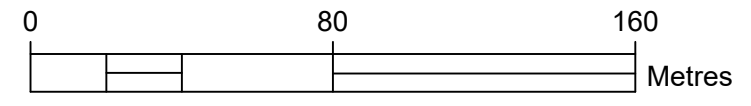


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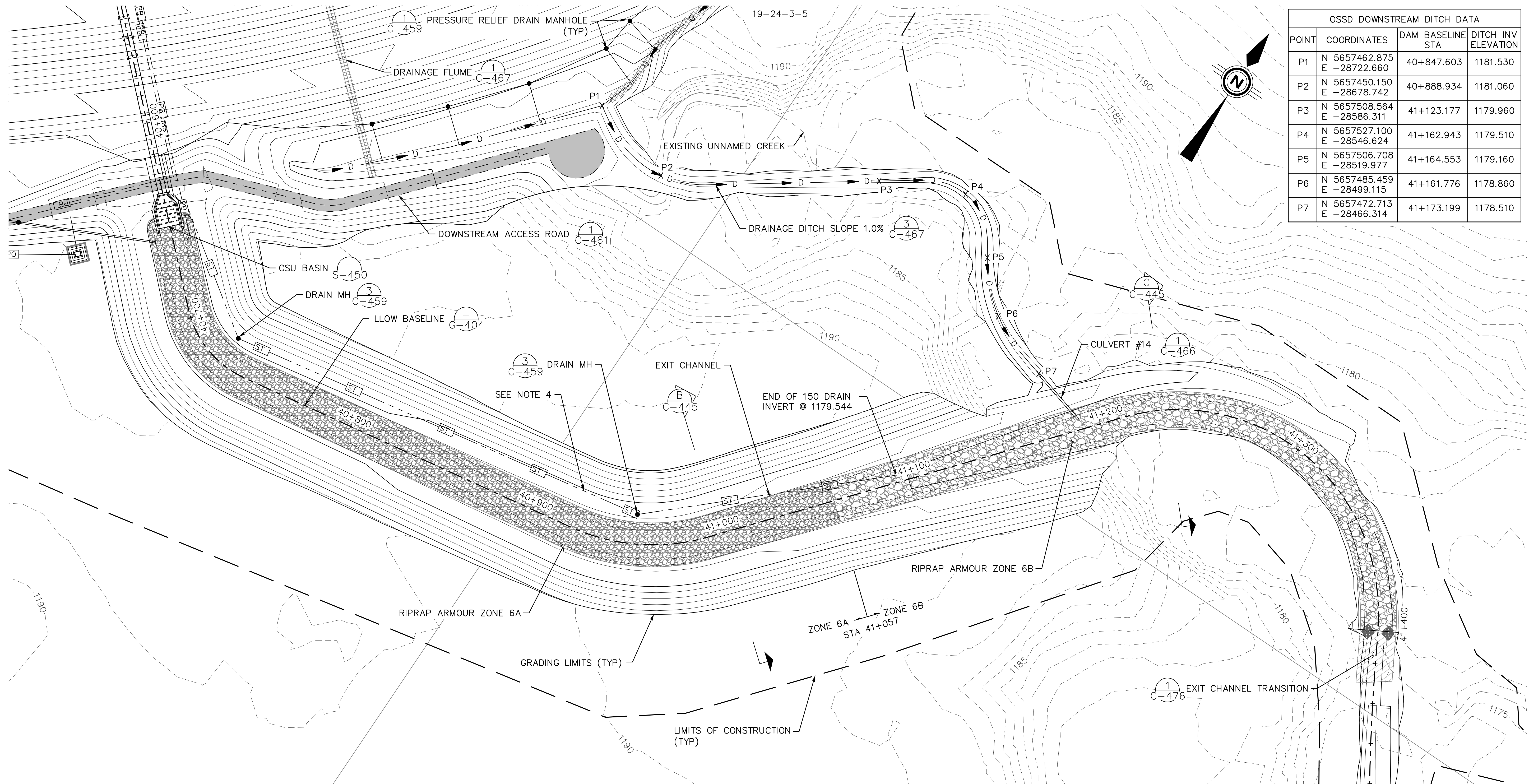


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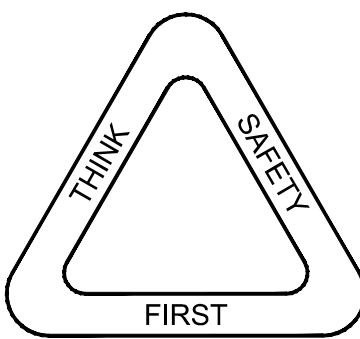
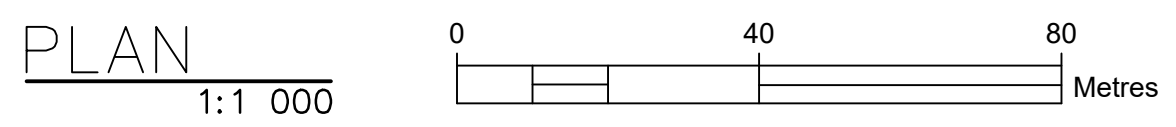
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OSSD DOWNSTREAM DITCH DATA			
POINT	COORDINATES	DAM BASELINE STA	DITCH INV ELEVATION
P1	N 5657462.875 E -28722.660	40+847.603	1181.530
P2	N 5657450.150 E -28678.742	40+888.934	1181.060
P3	N 5657508.564 E -28586.311	41+123.177	1179.960
P4	N 5657527.100 E -28546.624	41+162.943	1179.510
P5	N 5657506.708 E -28519.977	41+164.553	1179.160
P6	N 5657485.459 E -28499.115	41+161.776	1178.860
P7	N 5657472.713 E -28466.314	41+173.199	1178.510

- NOTES:
1. CONTOURS DO NOT REFLECT OVERBUILD FOR DAM SETTLEMENT.
 2. DIMENSIONS IN METRES UNLESS OTHERWISE NOTED.
 3. SEE PROFILE ON SHEET C-435 FOR ADDITIONAL DETAIL.
 4. 150 mm DRAIN PIPE 429 m @ 0.4% PROVIDE CUSHION ZONE OF ZONE 3B FILTER AROUND PIPE.
 5. SEE SHEETS C-455 AND C-486 FOR DRAIN PIPE DETAILS ALONG THE LLOW.

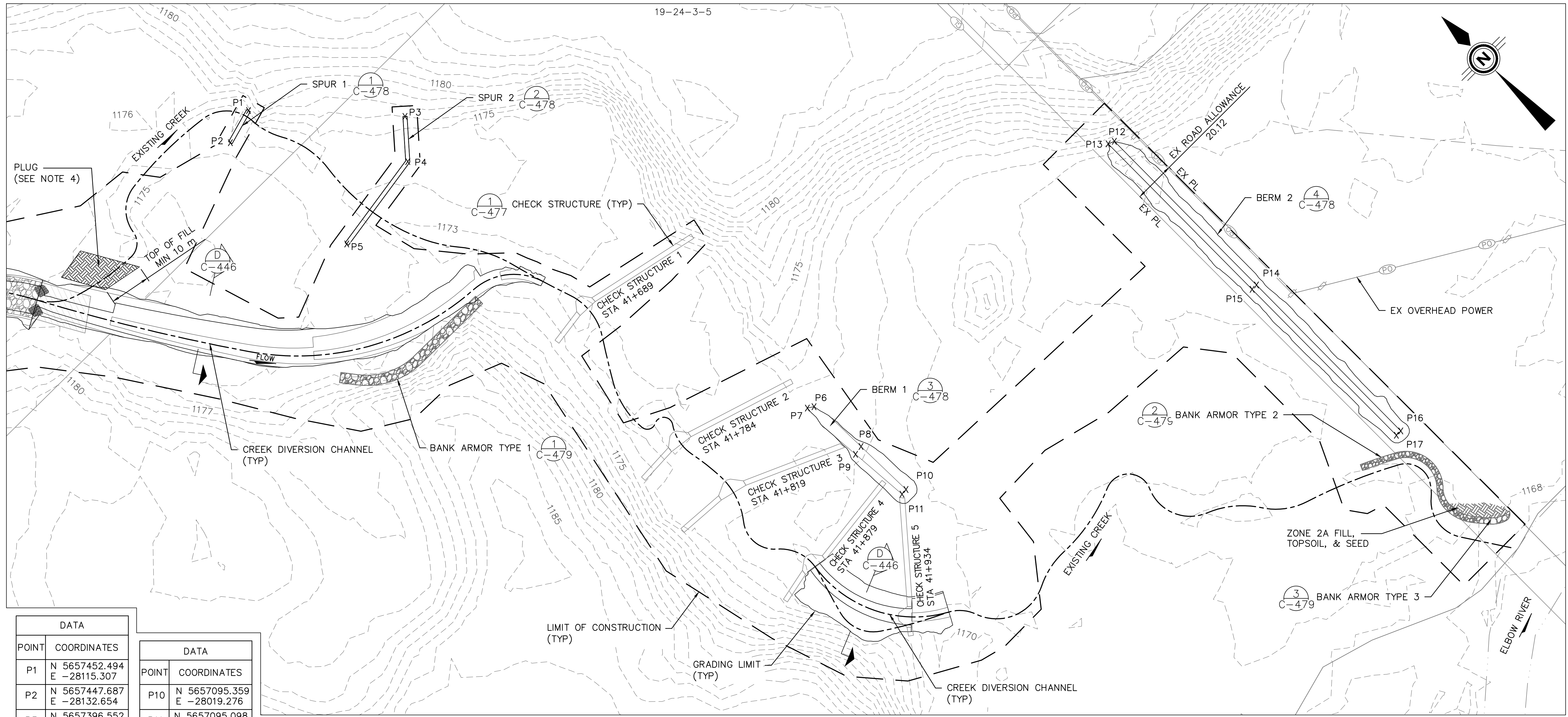


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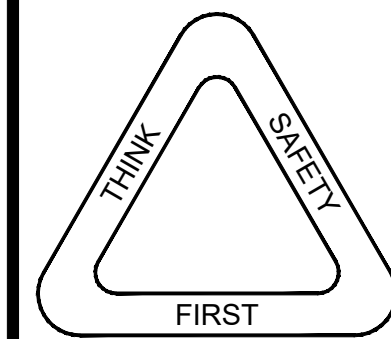


POINT	COORDINATES
P1	N 5657452.494 E -28115.307
P2	N 5657447.687 E -28132.654
P3	N 5657396.552 E -28063.413
P4	N 5657380.069 E -28077.984
P5	N 5657372.658 E -28127.432
P6	N 5657155.581 E -28022.429
P7	N 5657157.407 E -28025.215
P8	N 5657125.659 E -28019.962
P9	N 5657124.879 E -28024.536

POINT	COORDINATES
P10	N 5657095.359 E -28019.276
P11	N 5657095.098 E -28022.265
P12	N 5657143.508 E -27827.508
P13	N 5657144.772 E -27830.501
P14	N 5657045.010 E -27828.041
P15	N 5657045.026 E -27831.041
P16	N 5656945.005 E -27828.582
P17	N 5656945.027 E -27831.582

PLAN
1:1 000

- NOTES:
- REFER TO C-477 FOR CHECK STRUCTURE CONTROL POINTS.
 - REFER TO C-478 FOR TOP OF BERM CONTROL POINTS.
 - REFER TO C-478 FOR TOP OF SPUR CONTROL POINTS.
 - PLUG EXISTING CHANNEL WITH ZONE 2A FILL. GRADE TO MATCH TOP OF BANK ELEVATION. MIN TOP LENGTH 10.0 m, MAX SIDE SLOPE 2H:1V.



THIS DRAWING MAY HAVE BEEN REDUCED.
ALL SCALE NOTATIONS INDICATED (i.e. 1:1000 etc)
ARE BASED ON ANSI D (22" X 34") FORMAT DRAWINGS

<p>Project No.: 110773396 200 - 325 25th Street SE Calgary AB Canada T2A 7H8 Tel. 403.716.8000 www.stantec.com</p>	PERMIT TO PRACTICE ORIGINAL DRAWINGS STAMPED AND SIGNED BY JUAN MORALES, P.ENG. 2021 SEPTEMBER 17	DESIGNER ORIGINAL DRAWINGS STAMPED AND SIGNED BY DAN A. BACK, P.ENG. 2021 SEPTEMBER 17	CHECKER ORIGINAL DRAWINGS STAMPED AND SIGNED BY JOHN MENNINGER, P.ENG. 2021 SEPTEMBER 17	DATE 2021-09-17	DATE 2021-09-17	AEP CAPITAL PROJECT NUMBER -	SITE 50555	CONTRACT TND0022477	SHEET 160/512	CONSULTANT DRAWING C-423	TRANSPORTATION DRAWING 43159-P
	SPRINGBANK DAM PROJECT OFF-STREAM STORAGE DAM APPROACH AND EXIT CHANNEL PLAN - SHEET 3 OF 3								ALBERTA Transportation		