

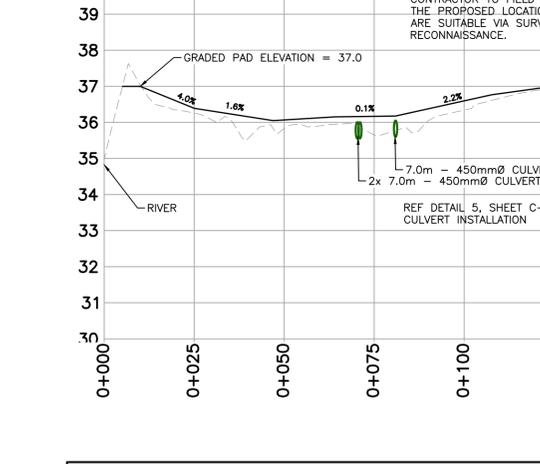
- NOTES:**
- SURVEY INFORMATION COMPLETED IN JULY 2023 BY SUB-ARCTIC GEOMATICS. CONTROL POINT COORDINATES: N: 8,482,559.74, E: 450,291.68, ELEVATION: 1.25m.
  - ALL COORDINATES REFERENCED TO NAD83, UTM ZONE 17.
  - ALL MEASUREMENTS PROVIDED IN METERS (m) UNLESS OTHERWISE NOTED.
  - ALL SURVEY MONUMENTS DISTURBED BY CONSTRUCTION SHALL BE REINSTITATED.
  - CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO PROCEEDING WITH THE WORK AND IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES.
  - CONTRACTOR IS RESPONSIBLE FOR QC TESTING. THE CONTRACTOR SHALL PROCURE THE SERVICES OF AN INDEPENDENT MATERIALS TESTING FIRM. TEST RESULTS SHALL BE SUPPLIED TO THE ENGINEER WITHIN 7 DAYS.
  - BACKFILL AND EMBANKMENT FILL SHALL BE COMPACTED TO 100% STANDARD PROCTOR DENSITY (SPD) DIRECTLY UNDER OR WITHIN 3M OF ANY STRUCTURE OR ROADWAY. OTHERWISE ALL BACKFILL AND EMBANKMENT FILL SHALL BE COMPACTED TO 95% SPD. REFERENCE ASTM D698 FOR STANDARD TEST METHODS FOR LABORATORY COMPACTION.
  - EXPOSED PERMAFROST SHALL BE COVERED AND PROTECTED EACH WORK DAY TO MINIMIZE PERMAFROST DEGRADATION.
  - CONTRACTOR TO CLEAR BOULDERS AND LOOSE ROCKS PRIOR TO TRAIL CONSTRUCTION.
  - PIPE GRASSES ARE FOR GENERAL INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE BURIED PIPE IS FULLY SELF-DRAINING VIA GRAVITY.
  - THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT PLANS, SPECIFICATIONS AND ANY RULES, REGULATIONS, STANDARDS OR SPECIFICATIONS REFERENCED THEREIN. THE PROJECT IS ALSO SUBJECT TO INSPECTION BY THE GOVERNMENT OF NUNAVUT OR ITS REPRESENTATIVE.
  - THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, PROVINCIAL AND FEDERAL LAWS THAT ARE PERTINENT TO THIS WORK.
  - ALL CONSTRUCTION ACTIVITIES SHALL BE COMPLETED IN A MANNER SUITABLE FOR PUBLIC USE AND IN A CONDITION MEETING THE APPROVAL OF THE GON OR ITS REPRESENTATIVE.
  - ALL CONSTRUCTION ACTIVITIES AFFECTING THE MUNICIPALITY'S OPERATIONS SHALL BE DISCUSSED IN ADVANCE WITH MUNICIPALITY AUTHORITIES.
  - ALL REGULATORY APPROVALS MUST BE IN PLACE BEFORE THE CONTRACTOR IS ALLOWED TO COMMENCE CONSTRUCTION ACTIVITIES.
  - ALL MATERIALS AND EQUIPMENT SHIPPED TO THE SITE SHALL BE DELIVERED TO AN APPROVED SITE ESTABLISHED AT THE PRE-CONSTRUCTION MEETING.
  - THE CONTRACTOR IS RESPONSIBLE FOR THE SHIPMENT, LOADING AND UNLOADING OF ALL MATERIALS TRANSPORTED TO THE SITE.
  - THE CONTRACTOR IS RESPONSIBLE FOR RESTORING THE SITE FOLLOWING THE COMPLETION OF THE PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DOCUMENT THE EXISTING CONDITIONS AND REINSTATE ALL DISTURBED AREAS INCLUDING STAGING AND STORAGE AREAS TO EXISTING CONDITIONS OR BETTER.
  - DEVELOPMENT AND IMPLEMENTATION OF A HEALTH AND SAFETY PLAN IS THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR TO FOLLOW ALL APPLICABLE REGULATIONS PRESCRIBED BY LOCAL, TERRITORIAL AND FEDERAL AGENCIES.

- TRAFFIC MANAGEMENT:**
- THIS PROJECT INCLUDES CONSTRUCTION ACTIVITIES ON AN ACTIVE ROAD. ALL CONSTRUCTION ACTIVITIES SHALL BE UNDERTAKEN IN A MANNER APPROVED BY THE ENGINEER.
  - THE CONTRACTOR SHALL SUBMIT A TRAFFIC MANAGEMENT PLAN PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES.
  - CONSTRUCTION MACHINERY AND VEHICLES SHALL COMPLY WITH ALL TRAFFIC REGULATIONS.
  - FULL TIME PUBLIC ACCESS (SINGLE LANE) TO THE MUNICIPALITY AND ITS FACILITIES SHALL BE MAINTAINED AT ALL TIMES.
  - CONTRACTOR SHALL POST A MAXIMUM SPEED LIMIT OF 30 km/h ON ALL TEMPORARY BYPASS ROADS.
  - CONTRACTOR IS TO USE APPROVED BARRICADES OR PYLONS TO DELINEATE OR DIRECT LOCAL TRAFFIC.
  - ALL CONTRACTOR VEHICLES AND TRAFFIC (UNLESS NOTED OTHERWISE) SHALL REMAIN WITHIN THE DESIGNATED CONSTRUCTION LIMITS OR HAUL ROUTES.
  - IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE OFF-SITE HAUL ROUTES WITH THE APPROPRIATE OWNER WHO HAS JURISDICTION OVER THE AFFECTED ROUTE. ON-SITE & OFF-SITE ROUTES AFFECTED BY CONSTRUCTION ACTIVITIES SHALL BE MAINTAINED IN WORKING ORDER AND MEET THE REQUIREMENTS OF THE GON OR ITS REPRESENTATIVE. ALL COSTS ASSOCIATED TO THE MAINTENANCE OF THE HAUL ROADS SHALL BE INCIDENTAL TO THE CONTRACT UNIT PRICES.

- EROSION AND SEDIMENT CONTROL (ESC):**
- PRIOR TO CONSTRUCTION, THE CONTRACTOR IS REQUIRED TO DEVELOP AND SUBMIT AN ESC PLAN TO THE GON OR ITS REPRESENTATIVE FOR APPROVAL. DETAILING THE EROSION CONTROL MEASURES FOR EACH PHASE OF THE PROJECT.
  - THE IMPLEMENTATION OF ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THESE ESC FACILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETE.
  - THE ESC FACILITIES MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS AND ADJACENT PROPERTIES IS MINIMIZED.
  - DURING THE CONSTRUCTION PERIOD, ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS. (E.G., ADDITIONAL PUMPS, RELOCATION OF SWALES AND SILT FENCES, ETC.)
  - THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE SITE SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE ESC FACILITIES.
  - THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN FORTY-EIGHT (48) HOURS FOLLOWING A STORM EVENT.
  - CONTRACTOR SHALL ERRECT SILT BARRIER FENCES AS REQUIRED OR AS DIRECTED BY THE ENGINEER.
  - SILT FENCES/BARRIERS SHALL BE MANUFACTURED FROM A NON-WOVEN, SLIT FILM GEOTEXTILE MATERIAL, DESIGNED TO REDUCE VELOCITY OF RUNOFF TO POINT THAT SUSPENDED PARTICLES SETTLE OUT DUE TO REDUCTION OF HYDRAULIC ENERGY.
  - SILT BARRIERS SHALL BE PLACED IN A MANNER THAT WILL INTERCEPT RUNOFF AT OR CLOSE TO RIGHT ANGLES TO THE FLOW. IN AREAS WHERE PROBLEM IS SEVERE, ERRECT TWO OR MORE SILT BARRIERS PARALLEL TO EACH OTHER UNTIL DEGREE OF CONTROL IS ACHIEVED.
  - SILT BARRIERS SHALL HAVE: A MINIMUM GRAB TENSILE STRENGTH OF 500N, PERMITTIVITY OF 0.05 s<sup>-1</sup> PER ASTM D4491.

- ENVIRONMENTAL PROTECTION:**
- CONTRACTOR SHALL PROVIDE TEMPORARY DRAINAGE AND PUMPING AS NECESSARY TO KEEP EXCAVATIONS AND SITE FREE FROM WATER.
  - CONTRACTOR SHALL NOT DISCHARGE WATER CONTAINING SUSPENDED MATERIALS INTO WATERCOURSES.
  - CONTRACTOR SHALL CONTROL DISPOSAL OR RUNOFF WATER CONTAINING SUSPENDED MATERIALS OR OTHER HARMFUL SUBSTANCES IN ACCORDANCE WITH FEDERAL, PROVINCIAL AND MUNICIPAL REQUIREMENTS.
  - CONTRACTOR SHALL NOT USE WATERCOURSE BEDS FOR BORROW MATERIAL.
  - CONTRACTOR SHALL NOT DUMP EXCAVATED FILL, WASTE MATERIAL OR DEBRIS IN OR ADJACENT TO WATERCOURSES.
  - CONTRACTOR IS TO COORDINATE WITH THE GOVERNMENT OF NUNAVUT TO DETERMINE THE PERMITTING REQUIREMENTS FOR WORK ADJACENT TO WATERWAYS, INCLUDING LAYING OF RIPRAP AND NECESSARY REQUIREMENTS.
  - IN THE EVENT THAT SPILLAGE, DEBRIS OR DUST BUILDS UP AS A RESULT OF HAULING, THE CONTRACTOR SHALL BE REQUIRED TO CLEAN AND REMOVE THE MATERIAL IMMEDIATELY.

**1 PROPOSED RIVER INTAKE ALIGNMENT**

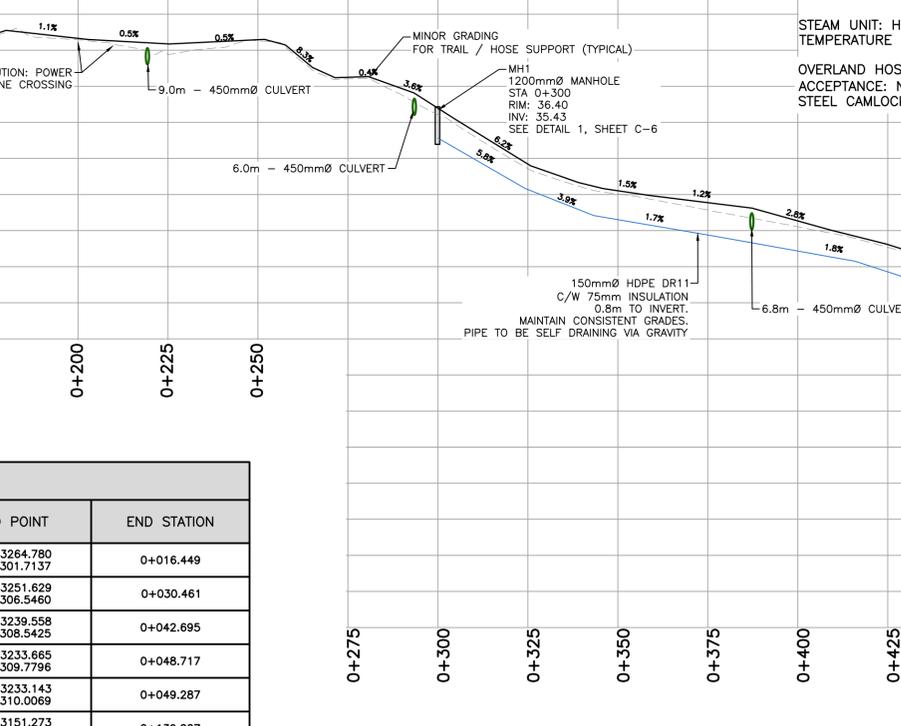


**2 RIVER INTAKE TRAIL CENTRELINE**



No.	LENGTH (m)	DIRECTION (DD°MM'SS")	START POINT	START STATION	END POINT	END STATION
L1	16.449	S36°27'08"E	N8483278.011 E450291.940	0+000.000	N8483264.780 E450301.7137	0+016.449
L2	14.011	S20°10'30"E	N8483264.780 E450301.714	0+016.449	N8483251.629 E450306.5460	0+030.461
L3	12.235	S09°23'30"E	N8483251.629 E450306.546	0+030.461	N8483239.558 E450308.5425	0+042.695
L4	6.022	S11°51'20"E	N8483239.558 E450308.543	0+042.695	N8483233.665 E450309.7796	0+048.717
L5	0.570	S23°30'47"E	N8483233.665 E450309.780	0+048.717	N8483233.143 E450310.0069	0+049.287
L6	89.941	S24°27'33"E	N8483233.143 E450310.007	0+049.287	N8483151.273 E450347.2463	0+139.227
L7	122.104	S26°07'34"E	N8483151.273 E450347.246	0+139.227	N8483041.646 E450401.0146	0+261.331
L8	20.519	S30°13'50"E	N8483041.646 E450401.015	0+261.331	N8483023.918 E450411.3453	0+281.849

**2 PROPOSED RIVER INTAKE PROFILE**



**Conditions of Use**

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Do not scale dimensions from drawing.

Do not modify drawing, re-use it, or use it for purposes other than those intended at the time of its preparation without prior written permission from Dillon Consulting Limited.

THE ASSOCIATION OF PROFESSIONAL ENGINEERS, GEOLOGISTS AND GEOPHYSICISTS OF THE NORTHWEST TERRITORIES

PERMIT NUMBER P 010

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DESIGN	KJ	REVIEWED BY	KJ
DRAWN	CH	CHECKED BY	KJ
DATE	FEBRUARY 2024		
SCALE	AS INDICATED		
ISSUED FOR TENDER	2024-FEB-20	DATE	BY

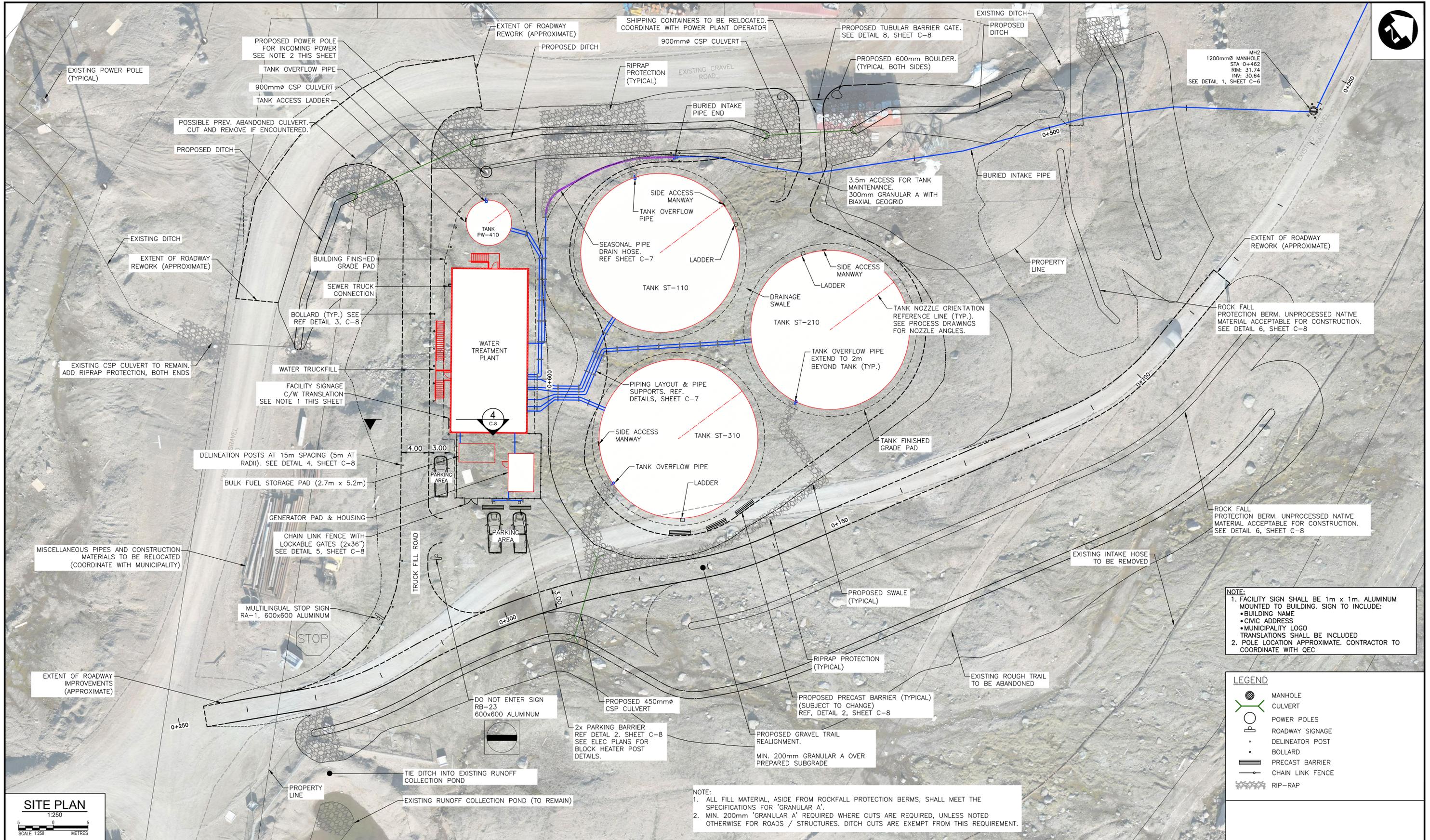
GOVERNMENT OF NUNAVUT 21220-00700

GRISE FIORD NEW WATER TREATMENT PLANT

PROJECT NO. 23-5971

PROPOSED RIVER INTAKE AND HOSE ALIGNMENT PLAN & PROFILE

SHEET NO. C-1



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DESIGN	KJ	REVIEWED BY	KJ
DRAWN	CH	CHECKED BY	KJ
DATE	FEBRUARY 2024		
SCALE	1:250		
ISSUED FOR TENDER	2024-FEB-20	DATE	KJ

GOVERNMENT OF NUNAVUT 21220-00700  
GRISE FIORD NEW WATER TREATMENT PLANT

PROJECT NO. 23-5971

SHEET NO. **C-2**

**SITE PLAN**