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## REQUEST FOR QUOTATION

### Construction of Check Dam for DACAAR Program UNODC Project in Ghoryan Village Nawzad District of Helmand Province

درخواست آفر برای اعمار و ساخت چک دم برای پروگرام داکار پروژه  
UNODC در قریه غوریان ولسوالی نوزاد ولایت هلمند

دفتر مرکزی  
گولایی وزیرآباد  
پست بکس ۲۰۸  
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**Date: May 12, 2025**

### DACAAR RFQ 30 PRF-313/UNODC/2407-UNODC/UHLA1.1.1/05.2025

DACAAR needs Construction of Check Dam in Ghoryan Village Nawzad District of Helmand Province and invites interested parties to submit their sealed offers for the required job mentioned in Annex (I).

داکار برای اعمار و ساختمان یک چک دم که در ضمیمه (I) از آن به تفصیل ذکر گردیده در قریه غوریان ولسوالی نوزاد ولایت هلمند ضرورت دارد، و از تمام علاقمندان واجد شرایط تقاضا بعمل میآورد تا آفر های سربسته شانرا قبل از معیاد تعیین شده به دفتر داکار بسپارند.

The offers must be submitted to DACAAR Main Office Logistics Unit located in Street No. 12, Taimani Project, Qala-e-Fathullah, Kabul Province till 4:00 PM May 23, 2025.

آفرها باید الی تاریخ 23 می 2025 ساعت 4:00 عصر به شعبه لجستیک دفتر مرکزی داکار واقع پروژه تایمنی پایکوب نصور سرک 12 قلعه فتح الله ولایت کابل سپرده شود.

The offers will be opened on May 25, 2025 at 10:00am in DACAAR Main Office, Kabul Province and the winner of the bidding will be notified shortly after the bid opening session.

مجلس آفرگشایی ساعت 10:00 قبل از ظهر 25 می 2025 در دفتر مرکزی داکار در ولایت کابل صورت میگیرد که متعاقباً برنده داوطلبی در اسرع وقت اطلاع خواهد یافت.

Please use Annex (III) for Technical Specification, Annex (II) for Work Plan and Annex (I) for Financial purposes.

لطفاً ضمیمه (I) را بخاطر ارایه آفر، ضمیمه (II) را بخاطر پلان کاری و ضمیمه (III) را بخاطر مشخصات تخنیکی مشاهده نمایند.

### Terms and Conditions for Participation/Bid Winner

### شرایط قرارداد برای برنده داوطلبی/ اشتراک کننده گان

- Contractor should Construct the Check Dam in Ghoryan Village Nawzad District of Helmand Province based on completion plan mentioned in Annex (II).
- Priority is given to construction companies.
- Similar works experience as prime contractor in the construction of at least one works in nature and complexity equivalent.
- Provision of all tools and equipment's required for the Construction of Check Dam belongs to the contractor.
- Payment will be made within 15 working days after technical team confirmation and successfully completion of the contract.

- قرارداد گیرنده مکلف است تا اعمار چک دم را که در قریه غوریان ولسوالی نوزاد ولایت هلمند موقعیت دارد، طبق پلان کاری که در ضمیمه (II) ذکر گردیده تکمیل نماید.
- حق اولویت به شرکت های ساختمانی داده میشود.
- داشتن تجربه کاری مشابه حداقل یک پروژه که ماهیت و پیچیدگی آن مشابه به این پروژه باشد.
- تهیه تمام وسایل و مواد برای اعمار و ساختمان چک دم معه اعاشه و ابطه بدوش قرارداد گیرنده میباشد.
- پرداخت پول بعد از تصدیق بخش تخنیکی داکار و تکمیل نمودن مؤقانه قرارداد در مدت 15 روز کاری اجرا میگردد.

6. The bid winner must deposit 10% amount of total contract value to DACAAR bank account as a Contract Performance Guarantee before signing the contract, the mentioned amount only refundable after successful completion of the contract. برنده داوطلبی مکلف است تا 10% مجموع ارزش قرارداد را بشکل تضمین بانکی از اجرای کامل و مؤفّقانه قرارداد قبل از امضای آن به حساب بانکی داکار بپردازد. مبلغ متذکره در صورت اجرا مؤفّقانه قرارداد قابل باز پرداخت میباشد.
7. In case of delay in contract completion without any logical reasons, 0.5% of total value of the remaining work will be deducted from the payment. This penalty will charge per each official day of delay. در صورت تأخیر در تکمیل قرارداد بدون عذر موجه در وقت معینه آن، مبلغ 0.5% از هر روز کار تأخیر شده بطور جرمانه از مجموع ارزش قرارداد اخذ میگردد.
8. Quotations should be valid for 60 official days. قیمت داده شده باید برای مدت 60 روز کاری مدار اعتبار باشد.
9. Prices shall be given in Afghanis (AFN) and must include all duties, transport cost, loading and unloading costs. Offers without sign and stamp will not be accepted. Manipulated/overwritten offers will automatically be rejected. قیمت ها به افغانی داده شود و باید شامل مالیات، انتقال، قیمت بارگیری و تخلیه باشد و قیمت هائیکه بدون مهر و امضای قابل قبول نمیشد. آفرهای قلم خورده گی بطور اتومات رد میگردد.
10. DACAAR's technical team (Site Engineer) will check quality of work. If it is not according to the specifications, DACAAR Technical Team has reserved the right to terminate the contract without any compensation paid to the contractor. هیئت تفتیش و بررسی داکار کیفیت کار را به اساس قرارداد چک و ملاحظه نموده در صورتیکه مطابق به مشخصات قرارداد نباشد، داکار حق دارد تا قرارداد را بدون جبران کدام خساره فسخ نماید.
11. 2% Tax will be applicable on the companies that has valid business license and 7% Tax will be applicable on the companies that have invalid business license, or on individuals who do not have business license, will be deducted from the contractor as a withholding tax and DACAAR will pay that amount to Ministry of Finance, the amount starts from (1 AFN). 2% مالیه برای شرکت هائیکه دارای جواز با اعتبار میباشد، و 7% مالیه برای شرکت هائیکه معیاد جواز آن تکمیل گردیده باشد، و یا اشخاصیکه جواز ندارند توسط داکار وضع گزیده و به وزارت مالیه پرداخت میشود، آغاز مبلغ از 1) افغانی).
12. DACAAR does not accept sub-contract, in case if it is found that the contract has given to sub-contracting contractor, the contract will automatically be terminated and the supplier will lose their performance guarantee and no compensation will be paid to the contractor. داکار به هیچ عنوان قرارداد دست دو را نه پذیرفته، در صورت وقوع چنین حالت قرارداد بصورت اتومات فسخ و قرارداد گیرنده پول تضمین و حق اجوره خویش را از دست میدهد.
13. DACAAR will not be responsible for any changes occurred during the contract such as (increment in custom duties, exchange rate etc.) داکار به هیچ عنوان مسؤولیت بلند رفتن مالیات گمرکی، اسعار خارجی و غیره مواردی که باعث بلند رفتن قیمت در جریان قرارداد گردد ندارد.

14. DACAAR (Logistics Unit) adheres to National and International laws on child labour DACAAR makes sure all its suppliers and vendor abide by such laws preventing child labour in all DACAAR activities countrywide.
14. دفتر داکار (شعبه لوژیستیک) با درنظرداشت قوانین ملی و بین المللی برای جلوگیری از کار کودکان مصمم بوده و سعی میکند که تمام فعالیتهای تهیه کننده گان و مشتریان این اداره به این اصل پایند باشند.
15. The Humanitarian Organizations (HO) may conduct on- site visit in the contractor's premises (or may take similar measures) to ensure compliance.
15. سازمان های بشر دوستانه (HO) ممکن است تا از محلات و سایت ها به بخاطر اطمینان خاطر و تطبیق درست کار توسط قرار داد گیرنده بازدید بعمل آورده و یا ممکن است اقدامات مشابه را انجام دهد.
16. DACAAR has a zero-tolerance policy on sexual exploitation, abuse and harassment, which is defined and described in the policy document "DACAAR policy on preventing and handling sexual exploitation, abuse and harassment".
16. داکار دارای پالیسی عدم تحمل در مورد سوء استفاده، بد رفتاری و آزار و اذیت جنسی میباشد و موقف داکار در همچون مسائل بطور تفصیلی در پالیسی مذکور تشریح شده است.
17. Award of contract will be based on the price, capacity and potentiality of bidder which will be decided after evaluation of the company; it is the right of DACAAR to make the decision of awarding contract.
17. برنده شدن قرارداد نظر به قیمت، توانائی و ظرفیت کاری داوطلب بوده و بعد از بررسی کمپنی صورت خواهد گرفت. البته داکار تنها حق تصمیم گیری در این زمینه را دارا میباشد.

For more details, please visit DACAAR Logistics Unit Main Office Kabul, Sunday through Thursday, from 8:00am to 03:00 PM or contact on below Email Addresses:

[jamal@dacaar.org](mailto:jamal@dacaar.org) or [wasimullah@dacaar.org](mailto:wasimullah@dacaar.org)

Yours Sincerely,  
Manager – Logistics Unit  
Date: May 12, 2025



**ANNEX (I)**  
**فورم ارايه آفر / Budget Breakdown/**  
**DACAAR RFQ 30 PRF-313/UNODC/2407-UNODC/UHLA1.1.1/05.2025**

**Construction of Check Dam for DACAAR Program UNODC Project in Ghoryan Village Nawzad District of Helmand Province:**

S.N	Item Name and Specification	Unit	Quantity	Unit Price (AFN) (Including 2% or 7% Government Tax, transportation cost)	Total Price (AFN) (Including 2% or 7% Government Tax, transportation cost)
1	Excavation normal and removal of excess materials up to 500M	M <sup>3</sup>	1,263		
2	Stone Masonary Work 1:4	M <sup>3</sup>	580		
3	PCC 1:1.5:3	M <sup>3</sup>	40		
4	PCC 1:2:4	M <sup>3</sup>	30		
5	Denese Filling with quality will grade	M <sup>3</sup>	589		
6	Pointing 1:3	M <sup>2</sup>	345		
7	Gravel in Foundation with 15cm thickness	M <sup>3</sup>	60		
8	Installation of Water Proof Concrete 1:4	M	13		
9	Installation of One Marble Sign Board 70*120cm	No	1		
<b>Grand Total: AFN</b>					

Bidder Name: \_\_\_\_\_ اسم آفر دهنده:

Address and Stamp: \_\_\_\_\_ آدرس و مهر کمپنی

Contact No: \_\_\_\_\_ نمبر موبائیل

Email Address: \_\_\_\_\_ ایمل آدرس

Delivery Period: \_\_\_\_\_ زمان تحویل دهی

**ANNEX (II)**  
**پلان کاری تخمینی / Tentative Work Plan**  
**DACAAR RFQ 30 PRF-313/UNODC/2407-UNODC/UHLA1.1.1/05.2025**

**Construction of Check Dam for DACAAR Program UNODC Project in Ghoryan Village Nawzad District of Helmand Province:**

S/No	Specifications	Unit	Quantity of Work	Start Date of the Contract	End Date of the Contract
1	Excavation normal and removal of excess materials up to 500M	M <sup>3</sup>	1,263	Starts After DACAAR Contract Final Approval	August 30, 2025
2	Stone Masonary Work 1:4	M <sup>3</sup>	580		
3	PCC 1:1.5:3	M <sup>3</sup>	40		
4	PCC 1:2:4	M <sup>3</sup>	30		
5	Denese Filling with quality will grade	M <sup>3</sup>	589		
6	Pointing 1:3	M <sup>2</sup>	345		
7	Gravel in Foundation with 15cm thickness	M <sup>3</sup>	60		
8	Installation of Water Proof Concrete 1:4	M	13		
9	Installation of One Marble Sign Board 70*120cm	No	1		

**ANNEX (III)**  
**Technical Specification/مشخصات تخنیکي**  
**DACAAR RFQ 30 PRF-313/UNODC/2407-UNODC/UHLA1.1.1/05.2025**

د پروژې د پلي کولو او تطبيق په اړه د شرکتونو لپاره عمومي تشرېح ، لارښوونې ، شرايط او اوځانگړتياوي

- 1- ټول ساختماني مواد بايد د اېنجنيري نورم ، ډيزاين او معيار (ستندرد) مطابق وي او په ساحه کې هم په همدې مشخصاتو وساتل شي
- 2- د کار په دوران کې امنيتي او حفاظتي مسايل په جدي توگه مراعات کړل شي لکه د کاريگرانو خولې ، بوت ، دستکش کمربند.....
- 3- بهرني کارکونکي نشي کولای چې پرته د قانوني اسنادو څخه پدې پروژو کې کار وکړي
- 4- په هره پروژه کې بايد د پروژې اړوند فعاليتونو د ثبت او ريكارډ په موخه ژورنال په ساحه کې موجود وي او د پروژې په پای کې ډاکار دفتر ته وسپارل شي
- 5- قراردادونکي شرکت مکلف دي چې د هرې مياشتې په پای کې د پروژې د پرمختگ راپور ترتيب او ډاکار دفتر ته وسپاري چې ترڅو په گوته شي چې کار د پلان مطابق دي او که خیر؟ ترڅو پروژه پخپل وخت او زمان تکميل شي
- 6- د سنگ کارۍ مصالحه بايد 1:4 وي او په ساحه کې بايد معياري منک موجود وي .
- 7- د هنگاف مصالحه بايد 1:3 وي
- 8- هغه ډبره (تيرره) چې په سنگ کارۍ کې په کار اچول کېږي بايد پارچه او ماته شوی وي مخ ولري مقاومت ولري د کار په جريان کې بايد د تيرره بافت په نظر کې ونيول شي ورته ډول ريگ او جغل بايد د عضوي موادو خاورۍ او گرد څخه پاک وي
- 9- سمنت بايد تازه وي او په ساحه کې د اېنجنيري نورم او ستندرد مطابق وساتل شي، په يو ستون کې بايد 5 بوجي څخه زيات سر په سر ستاک نشي
- 10- د مصالې جوړول بايد په مکسر ماشين ترسره شي
- 11- هغه اوبه چې په ساختماني چارو کې استعمالېږي بايد پاکۍ وي او کيفيت له نظره د تاييد وړ وي مالگيني نه وي قلويت او تيزابيت يې د منلو وړ حد کې وي
- 12- سنگ کاري او ټول سيمنتي فعاليتونو او کارونو لپاره د کار د مقاومت او کلکوالي په هدف دوامداره هره ورځ اوبه ورکول شي لږ تر لږه د ورځې 5 ځلې د 15-28 ورځو لپاره
- 13- د کار په ساحه کې يواځې د پروژې پرسونل بايد وليدل شي او د غير مسولو کسانو څخه جدا مخنيوی وشي
- 14- د پروژې د پرسونلو او کاري وسايلو ساتنه د شرکت مسوليت دي ډاکاريې هيڅ نوع مسوليت نلري
- 15- شرکت بايد د خپل شرکت فکت شيت اود ساحوي اېنجنير CV د داوطلبې د فورمو سره يوځای کړي
- 16- شرکت بايد د کاري پلان مطابق او ډاکار دفتر د ساحوي انجنير د سپارښتنو او هدايت په رڼاکې د پروژې کارونه سرته ورسوي
- 17- د داوطلبې ټولو کمپنيانو او شرکتونو څخه جدا غوښتنه کوو چې ورکول شوي شرايط بڼه مطالعه کړي ترڅو په راتلونکي کې د عذر اوبهانی چانس نه وي او شکايت يې هم نه اوريدل کېږي
- 18- هيڅ شرکت او کمپني نشي کولای چې دا پروژه بل چاته په قرارداد ورکړي که داسې يو حالت رامنځ ته شي قرارداد فسخ کېږي او د ترسره شوي کار هيڅ معاوضه نه ورکول کېږي



19- کوم وسایل ، مواد او پرسونل چې پدې پروژه کې په کارول کېږي باید د کیفیت اوکاري تجربې په بنیاد وټاکل شي

20- ددې پروژې ټول کارونه د احجامو مطابق باید ترسره شي ، کچېرې احجام کم شي د قرارداد د قیمت مطابق به هزینه او قیمت وضع کېږي او هېڅ ډول اضافه کارونه نه اجرا کېږي باید د ورکول شویو احجامو مطابق پروژه تکمیل شي

21- شرکت او کمپنۍ نشي کولې چې په پروژه کې تغیر او تبدیل راولي ، د ضرورت په صورت کې به د ډاکار له ساحوي او زون دفترونو سره شریک کېږي د لزوم په صورت کې به د مرکزي دفتر د تایید څخه وروسته اجرا کېږي

22- د پیسو تادیه د قرارداد مطابق د پروژې د 100% د تکمیل څخه وروسته د 15 ورځو په جریان کې د بانک له لارې اجرا کېږي

23- تادیه د پیسو د ورکول شویو احجامو او په گوته شویو فعالیتونو مطابق ترسره کېږي او هېڅ ډول اضافه لگښتونه نه منل کېږي

24- شرکت باید ساحوي انجنیر د کاري تجربې په اساس ساحې ته توظیف کړي او پروژه په تخنیکي ډول تکمیل کړل شي

25- د کار له ساحې څخه د کندنکاري شویو موادو مناسب ځای ته انتقالول او د ساحې پاک کاري د شرکت پورې اړه لري

26- د چک ډیم د هر ډول داوبو د لیکج ( Leakage ) مخنیوي د شرکت دنده او مسولیت دي

27- پرانه (ډکون) back filling لپاره مواد د انجنیري دنورم او سنډرډ مطابق او 90% باید متراکم شي ( Compaction ) اود انجنیري نورم مطابق هره طبقه باید د 20 سانتي متر په ضخامت compact شي

28- د طبعي پښو په صورت کې ډاکار هېڅ ډول خسارې او تاوان مسولیت نلري او د شرکت دنده ده چې د ورکول شویو احجامو مطابق پروژه تکمیل کړي

29- د پروژې د کار په جریان کې ډاکار د پرسونلو هېڅ نوع بیمه او یانور مصارف په غاړه نلري دا د شرکت مسولیت دي چې خپل پرسونلو حفاظتي تدابیر جدا په نظر کې ونیسي

30- کچېرې د یو فعالیت په مجموعي قیمت کې د فی واحد د قیوت سره تفاوت ولری نو د فی واحد د قیمت د اعتبار وړدی او دی همدی په اساس به حساب ورکول کېږی

31- کوم قیمتونه چې د داطلبې په فورمه کې د شرکت لخوا ورکول کېږی شرکت باید ټول ابعاد په نظر کې ونسی لکه وسایل ، کارکونکي د موادو ساتنه ..... اوداسی نور

32- ورکول شوی نرخونه او قیمتونه کی انتقال بارگیری ماشین الات او همداراز ځینی ضمنی کارونه لکه دسلا ب د مخنیوی لپاره د مسیر د تغیر او ماشین الاتو د انتقال لپاره موقتی لاره جوړول شرکت باید په نظر کې ولری

33- ډکون (Filling) کی مواد او موادو تراکم کول شامل دی



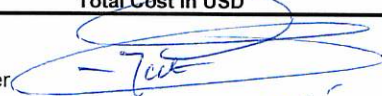
**DACAAR - Program**  
**Technical and Coordination Unit/Survey and Design Team**  
**Bill of Quantity (BOQ) for Construction of Ghoryan Check Dam**

Province: Helmand  
District: Nowzad  
Village: Ghoryan

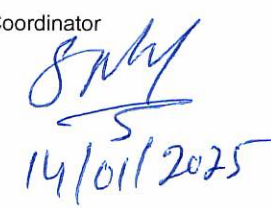
Subproject Name: Ghoryan Check Dam  
Estimation Date: 13.01.2025  
Submitting Date: 13.01.2025

No.	Item	Activities %	Quantity	Unit	Unit cost	Total cost	Contribution	
					Afs	Afs	CDC, Afs	DACAAR, Afs
1	Mobilization: includes the price of all activities such as the transfer of personnel, tools, vehicles, field establishment office and other activities for the implementation of the project and demobilization.		1	LS				
2	"Excavating normal works: which means digging works that were done without hydraulic machines and removal of excess materials up to 500 meters or according to the instructions of the field engineer. For more clarification, refer to paragraph 2.02 of technical specifications		1,263	M3				
3	Dense filling" refers to the filling of material with the quality of Will Grade, which can be verified from one area and its density is not less than 90% of Proctor Mody Fide ATM. If the compaction is done by machine, the thickness of the soil should not be increased from 20 cents, in the images of compacting the soil by manual machines, its thickness should not be increased from 10 cents.		589	M3				
4	Stone Masonry work M(1:4): Wall stonework with a compromise of 1:4, with all its positive features, the stone must be solid, clean and free of dust according to the plan and opinion of the supervising engineer of the area.		580	M3				
5	15cm thick sea gravel in the lower part of the tahadab: preparing, pouring and compacting the gravel filter made of vale-graded materials, it is poured under the paving stones or gabions (first, the tahadab is tamped, then the sea gravel carpet, then the paving stones or gabion work should be started.) These materials are a combination of sea sand with sea gravel or crushed gravel, which is the combination of the same sand and well Graded gravel. Approval of materials and type of work should be approved by the field engineer.		60	M3				
6	PCC M(1:1.5:3):Concrete without spikes with 20 MPa brand preparation, pouring, compacting and watering of 20 brand concrete, including molding with positive things according to the plan, technical specifications and approval of the supervising engineer.		40	M3				
7	PCC M(1:2:4):Concrete without spikes with 15 MPa mark: preparation, pouring, compacting and watering of concrete mark 15, including molding with positive things according to the plan, technical specifications and approval of the supervising engineer.		30	M3				
8	Pointing,M (1:3): Pointing work is done with a ratio of cement and sand of 1:3, which includes materials, workers, soil, watering, etc. be executed Previously, from the beginning of the work, the seams should be cleaned up to 3 cm, then the work should be started. At the end of the work on the stones, the excess material should be cleaned in its correct shape. For more clarification, refer to paragraph 4.05 of the technical specifications.		345	M2				
9	Installation of waterproof PCC concrete (1:4): with positive aspects under the supervision of the supervising engineer.		13	m				
<b>Total Cost in Afg</b>						<b>0 Afs</b>		
<b>Total Cost in USD</b>						<b>\$0</b>	<b>\$0</b>	

Prepared by:

Name: Sayed Zaki Sadat  
Position: Survey & Design Engineer  
Signature: 

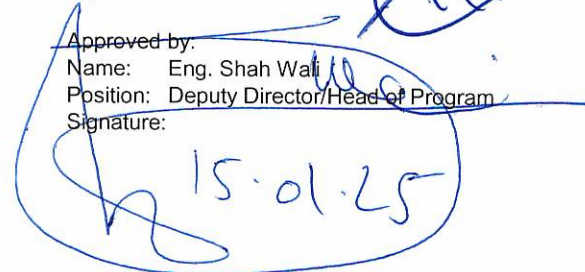
Review and Checked by :

Name : Sayed Najib Jalal  
Position: Survey & design Coordinator  
Signature: 

Authorized by:

Name: Eng.Ab.Wali Muslih  
Position: Manager Technical & Coordination Unit  
Signature: 

Approved by:

Name: Eng. Shah Wali  
Position: Deputy Director/Head of Program  
Signature: 



**DACAAR - Program**  
**Technical and Coordination Unit/Survey and Design Team**  
**Bill of Quantity (BOQ) for Construction of Ghoryan Check Dam**

Province: Helmand  
 District: Nawzad  
 Village: Ghoryan

Subproject Name: Ghoryan Check Dam  
 Estimation Date: 13.01.2025  
 Submitting Date: 13.01.2025

S/N	Description	QNT	Unit	Weeks											
				1	2	3	4	5	6	7	8	9	10	11	12
1	Mobilization: includes the price of all activities such as the transfer of personnel, tools, vehicles, field establishment office and other activities for the implementation of the project and demobilization.	1	LS												
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5	15cm thick sea gravel in the lower part of the tahadab: preparing, pouring and compacting the gravel filter made of vale-graded materials, it is poured under the paving stones or gabions (first, the tahadab is tamped, then the sea gravel carpet, then the paving stones or gabion work should be started.) These materials are a combination of sea sand with sea gravel or crushed gravel, which is the combination of the same sand and well Graded gravel. Approval of materials and type of work should be approved by the field engineer.	60	m3												
6	PCC M(1:1.5:3):Concrete without spikes with 20 MPa brand preparation, pouring, compacting and watering of 20 brand concrete, including molding with positive things according to the plan, technical specifications and approval of the supervising engineer.	40	m3												
7	PCC M(1:2:4):Concrete without spikes with 15 MPa mark: preparation, pouring, compacting and watering of concrete mark 15, including molding with positive things according to the plan, technical specifications and approval of the supervising engineer.	30	m3												
8	Pointing,M (1:3): Pointing work is done with a ratio of cement and sand of 1:3, which includes materials, workers, soil, watering, etc. be executed Previously, from the beginning of the work, the seams should be cleaned up to 3 cm, then the work should be started. At the end of the work on the stones, the excess material should be cleaned in its correct shape. For more clarification, refer to paragraph 4.05 of the technical specifications.	345	m2												
9	Installation of waterproof PCC concrete (1:4): with positive aspects under the supervision of the supervising engineer.	13	m												

Prepared by:

Name: Sayed Zaki Sadat  
 Position: Survey & Design Engineer  
 Signature: 

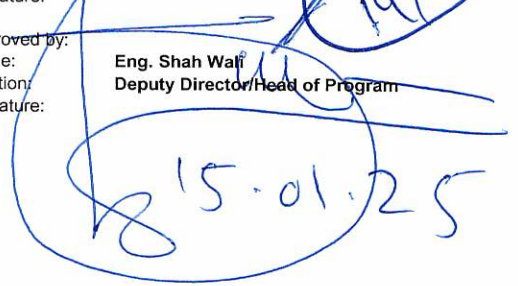
Review and Checked by :

Name : Sayed Najib Jalal  
 Position: Survey & Design Coordinator  
 Signature: 

Authorized by :

Name: Eng.Ab.Wali Muslih  
 Position : Manager Technical & Coordination Unit  
 Signature: 

Approved by:

Name: Eng. Shah Wali  
 Position: Deputy Director/Head of Program  
 Signature: 

DACAAR  
Program/Technical & Coordination Unit  
Survey & Design Team



# Ghoryan Check Dam Drawings

Project Location:

Province:.....Helmand

District:.....Nawzad

Village:..... **Ghoryan**

A handwritten signature in blue ink, consisting of a stylized 'S' shape with a horizontal line through the middle and a small '7' or 'u' at the bottom.

























Date: Jan 2025

# LIST OF DRAWINGS

DISCRIPTION	DRAWING NO.
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LEGEND AND ABBREVIATIONS	02
TECHNICAL SPECIFICATION	03
TOPO PLAN	04
Site Plan	05
Plan Of Check Dam	06
Section A-A,B-B ,C-C	07
Excavations	08
Cross Section	09
Long Section	10

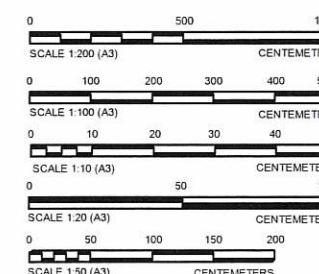


### LEGEND:-

	Center Line
	Direction of flow
	Grouted Stone Masonry/Pitching Section
	Mass concrete Section
	Brick Masonry
	P.C.C Block
	Gabion
	Gabion Section
	Wash/River Bed Material
	Geotextile Mattress
	Plain Cement Concrete
	Reinforced Cement Concrete
	Bank Protection
	Compacted Soil
	Hill
	H.F.L / M.W.L
	Elevation of the point (100m) in section veiw
	Elevation of the point (100m) in Plan view
	Traverse Station
	Benchmark
	Lined Slope
	Earthen Slope
	Ground Level
	Stone Pitching/Rip Rap

### ABBREVIATION:-

Av	AVERAGE	ST	STATION
BM	BENCH MARK	THK	THICKNESS
B	WIDTH	TYP	TYPICAL
C/C	CENTER TO CENTER	HFL	HIGH FLOOD LEVEL
D	DEPTH OF WATER	U/S	UPSTREAM
DRG	DRAWING	YRS	YEARS
DIA , Ø	DIAMETER	Q	DESIGN DISCHARGE
D.W.L	DESIGN WATER LEVEL	W.L	WATER LEVEL
D/S	DOWNSTREAM	N.T.S	NOT TO SCALE
EL.	ELEVATION		
F.B	FREE BOARD		
HFL	HIGH FLOOD LEVEL		
HT.	HEIGHT		
H.G.L	HYDRAULIC GRADE LINE		
KM , km	KILOMETERE		
M ,m	METRE		
Chkd	CHECKED		
Apprvd	APPROVED		
M . W .L	MAXIMUM WATER LEVEL		
MIN	MINIMUM		
No(s)	NUMBER(S)		
N.G.L	NATURAL GROUND LEVEL		
P.C.C	PLAIN CEMENT CONCRETE		
R.C.C	REINFORCED CEMENT CONCRETE		



### Notes:

- 1- All dimensions are in cm or as specified on drawing.
- 2- For concrete class and stone masonry type refer to Contract Specifications.
- 3- All cut-offs to be constructed against undisturbed soil.
- 4-Location of the structure, setting out and elevations to be confirmed by the WMD representative before construction.
- 5-The contractor shall construct and maintain all necessary channels,diversion and other temporary works necessary to ensure that irrigation water supplies are not interrupted during construction works.
- 6-All elevations are based on local benchmark.
- 7-Coordinates and elevatoin of local bechmark are attached to every single site.
- 8-Contraction joint in concrete coping at wall top shall be provided at 1.0m centers
- 9.Contraction joint in concrete base slab shall be provided at 2m centers.
- 10-Minimum concrete cover to steel reinforcement shall be 50mm.
- 11-Steel reinforcement shall have a minimum yield stress of 250N/mm2.
- 12-For retaining wall more than 12m in length, expansion joint shall be provided at 12m centers.
- 13-Abbreviations used:  
GI stands for galvanized iron  
EW stands for each way  
EF stands for each face  
FB stands for free board  
Dia stands for diameter  
MS stands for mild steel

DACAAR / PROGRAM	Funded By	UNODC	Village	Ghoryan	Survey by	Eng. Sayed Zaki Sadat	Scale Meter	Sheet Index 02 10	Project Title	CheckDam
	Implemented By		District	Nowzad	Drawn & Designed by	Eng. Sayed Zaki Sadat			Drawing Title	ABBREVIATION
			Province	Helmand	Reviewed By	Eng. Sayed Najib Jalal			Date :	Jan-2025
					Checked & Approved By	Eng. Abdul Wali Muslih				



# BRIEF TECHNICAL SPECIFICATIONS

## CONCRETE WORKS:

- 1 - All air - entraining plain cement concrete should be M-200 by wright or be as specified on the drawings.
- 2 - All PCC to have cement, sand and aggregate as specified on the drawings.
- 3 - Concrete design should be based on a compressive strength of  $f_c = 200\text{kg/cm}^2$  or as specified on the drawings.
- 4 - Weight per unit volume of concrete  $W=2400\text{kg/m}^3$ .
- 5- Sand or fine aggregate shall be free from salt, Alkali, Calcium sulphate or Vegetation and it shall not contain more than 0.5 percent by weight clay.
- 6 - Aggregate:- Coarse aggregate shall consist of crushed gravel with the maximum size of 20mm.
- 7 - The maximum slump for concrete should be between ( 5 - 7.5 )cm. ( For difrent concrete type refer to general specification ).
- 8 - To increase the workability of the concrete provide the chemical admixture ( Super plasticizer, If required ).
- 9 - Water used for concrete mixture and concrete curing shall be from a source approved by the Engineer and at the time of use shall be free from contaminants.
- 10- Concrete compaction should be done by using concrete vibrator at the time of pouring in such a way to form a solid compact concrete.
- 11- Concrete curing should by continued for 28 days.
- 12- During cold weather concreting should be stopped or the contractor has to consider cold weather concreting procedure as accepted by the Engineer. ( Or refer to general specification ).
- 13- Concrete shuttering / formwork should be of steel or wooden type.
- 14- Concrete shuttering can be removed as per below minimum duration:  
Side of beams, Walls, Columns ( 16 - 24 Hours ).  
Forms from beneath the slabs ( Spaning up to 6m. ) 14 Days.  
Forms from beneath the slabs ( Spaning above 6m. ) 21 Days
- 15- All air entrained concrete with 4.5% - 7% of air volumes should be used instead of normal concrete works by adding approved admixture.
- 16- All RCC should be M-25.
- 17- All blinding PCC shall be M-10.
- 18- Reinforcement yield strength  $f_y$  shall not be less that (  $2500\text{kg/cm}^2$  ).

## MASONRY WORKS:

- 1 - Plum / Mass air - entraining concrete shall contain a maximum of 40% stone with a maximum stone size as 20cm.  
The concrete ratio shall be M-20.
- 2 - Stone for Stone masonry, Gabion and grouted stone pitching should be of good quality and approved by Engineer.
- 3 - All stone masonry for foundations should be with ratio of (1:3 ).
- 4 - All masonry cutoff wall shall be with ( 1:3 ) Cement sand mortar or as specified on the drawing.

## EARTH WORKS:

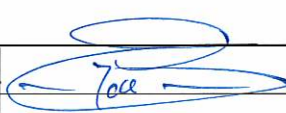
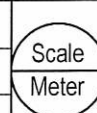

- 1 - Backfilling material should be properly tested and selected to be suitable as per standard practice.
- 2 - For backfilling maximum thickness of each loose soil layer should not more than 15cm. According to general specification.
- 3 - Standard compaction tests should be carried out for the backfilling.
- 4 - The percentage of compaction should be not less than (92 - 95)% of the maximum dry density of selected material by the Engineer.

## GABION WORKS:

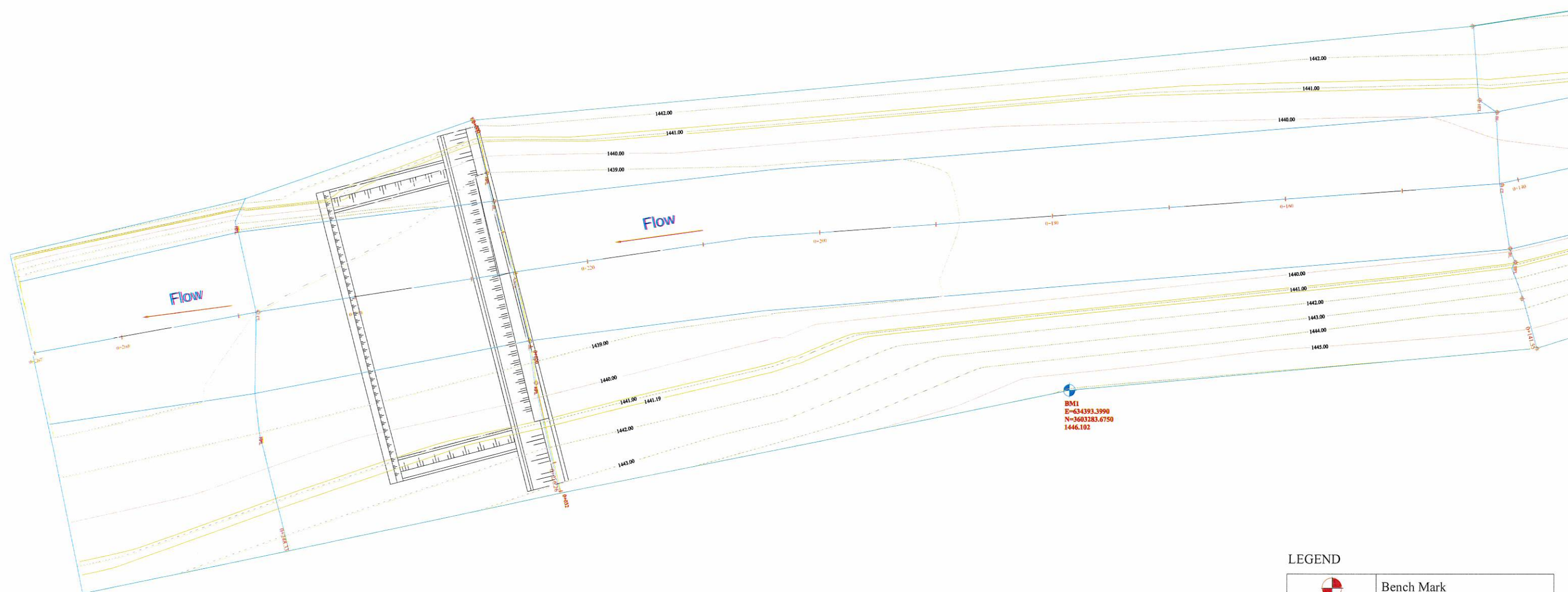
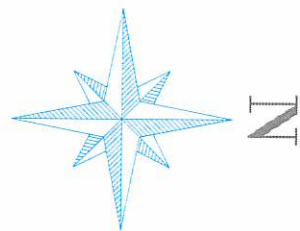
- 1 - Stone size for gabion shall range from ( 20 - 30cm ) dia. According to general specification.
- 2 - Galvanized iron wier of specified thickness ( 2.7- 3.0 )mm Should be properly woven and knotted together to form the required mesh in hexagonal / rectangular shape of size ( 8 - 10cm ) for gabion basket and ( 10 - 12cm ) for gabion mattress to fabricate gabion boxes to the saftsfaction of the Engineer.
- 3 - Principal wire along the gabion edges ( Selvedges ) for gabion boxes should be of galvanized iron having minimum thickness of ( 4mm ).
- 4 - Gabion galvanized iron wire tensile strength should be ( 350 - 575 N /  $\text{mm}^2$  ).

## OTHERS:

- 1 - Bitumen coating should be used in all contraction / Expansion joints.
- 2 - All quality control field tests should be carried out by the contractor in a specified laboratory as accepted by the client.
- 3 - Construction joints for PCC and masonry walls should be provided as ( 15 - 20m ) center to center.
- 4- All diversions and flood protection works is contractor responsibility,

DACAAR / PROGRAM	Funded By	UNODC	Village	Ghoryan	Survey by	Eng. Sayed Zaki Sadat				Project Title	CheckDam
	Implemented By		District	Nowzad	Drawn & Designed by	Eng. Sayed Zaki Sadat				Drawing Title	BRIEF TECHNICAL SPECIFICATIONS
			Province	Helmand	Reviewed By	Eng. Sayed Najib Jalal				Date :	Jan-2025
					Checked & Approved By	Eng. Abdul Wali Muslih					





## Topo Plan of Check Dam

### LEGEND

	Bench Mark
	SPRING
	Canal
	Bed
As per Site	

### Benchmark Table

Point #	Elevation	Northing	Easting	Description
1	1446.10	3603283.68	634393.40	BM

DACAAR / PROGRAM

Funded By

UNODC

Village Ghoryan

District Nowzad

Province Helmand

Survey by

Eng. Sayed Zaki Sadat

Drawn & Designed by

Eng. Sayed Zaki Sadat

Reviewed By

Eng. Sayed Najib Jalal

Checked & Approved By

Eng. Abdul Wali Muslih

Scale  
Meter

Sheet Index

04  
10

Project Title

CheckDam

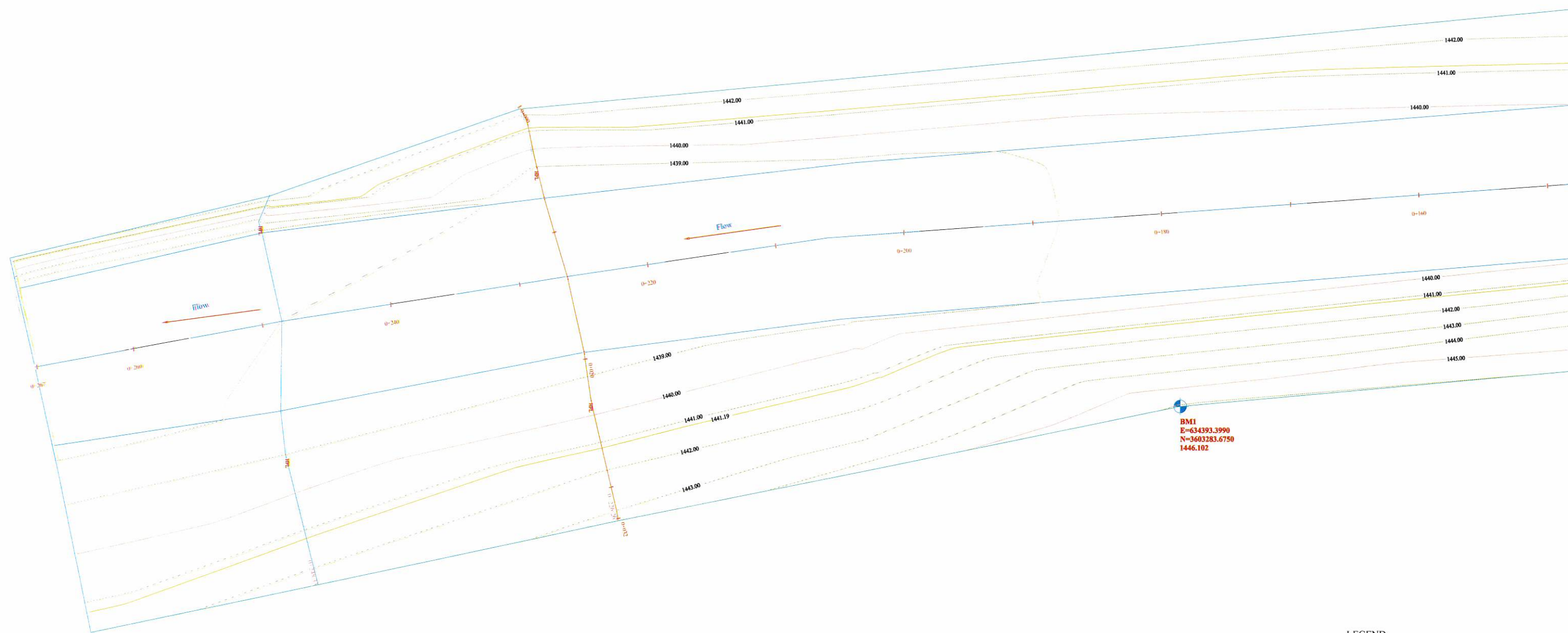
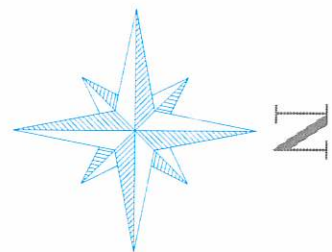
Drawing Title

Topo Plan Of Check Dam

Date :

Jan-2025





## Site Plan of Check Dam

### LEGEND

	Bench Mark
	SPRING
	Canal
	Bed
As per Site	

Benchmark Table				
Point #	Elevation	Northing	Easting	Description
1	1446.10	3603283.68	634393.40	BM

DACAAR / PROGRAM

Funded By

UNODC

Village Ghoryan

District Nowzad

Province Helmand

Survey by

Eng. Sayed Zaki Sadat

Drawn & Designed by

Eng. Sayed Zaki Sadat

Reviewed By

Eng. Sayed Najib Jalal

Checked & Approved By

Eng. Abdul Wali Muslih

Scale  
Meter

Sheet Index

05  
10

Project Title

Drawing Title

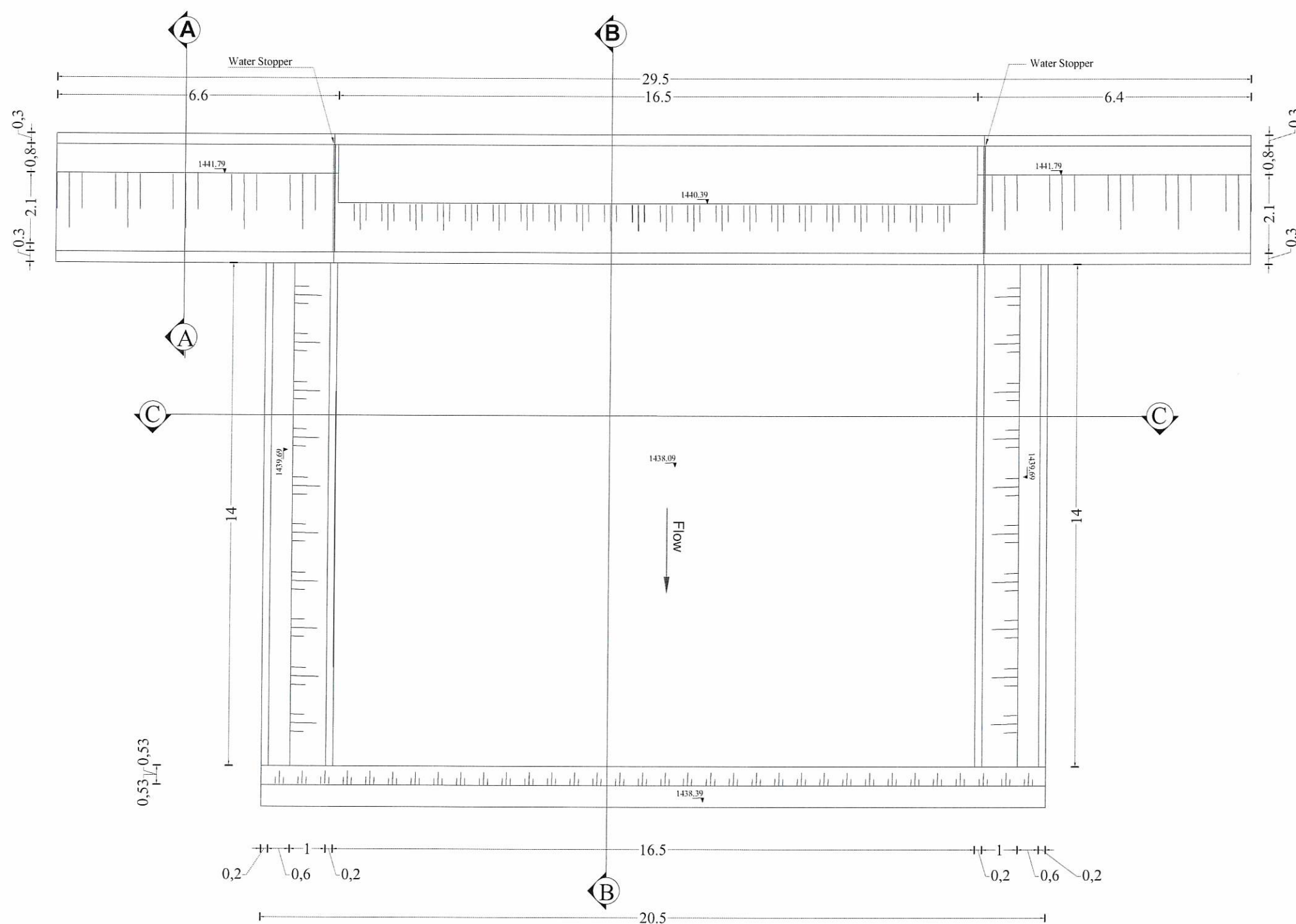
Date :

CheckDam

Site Plan Of Check Dam

Jan-2025

## Plan Of Check Dam



### Note:

- All dimensions are in M.
- All Excavated material can be use it upstream and downstream faces fillings with 90% Compaction.
- Filling layers must not be Pave more than (15-20)cm thickness.

DACAAR / PROGRAM

Funded By

UNODC

Village Ghoryan

District Nowzad

Province Helmand

Survey by

Eng. Sayed Zaki Sadat

Drawn & Designed by

Eng. Sayed Zaki Sadat

Reviewed By

Eng. Sayed Najib Jalal

Checked & Approved By

Eng. Abdul Wali Muslih

Scale  
Meter

Sheet Index

04  
10

Project Title

CheckDam

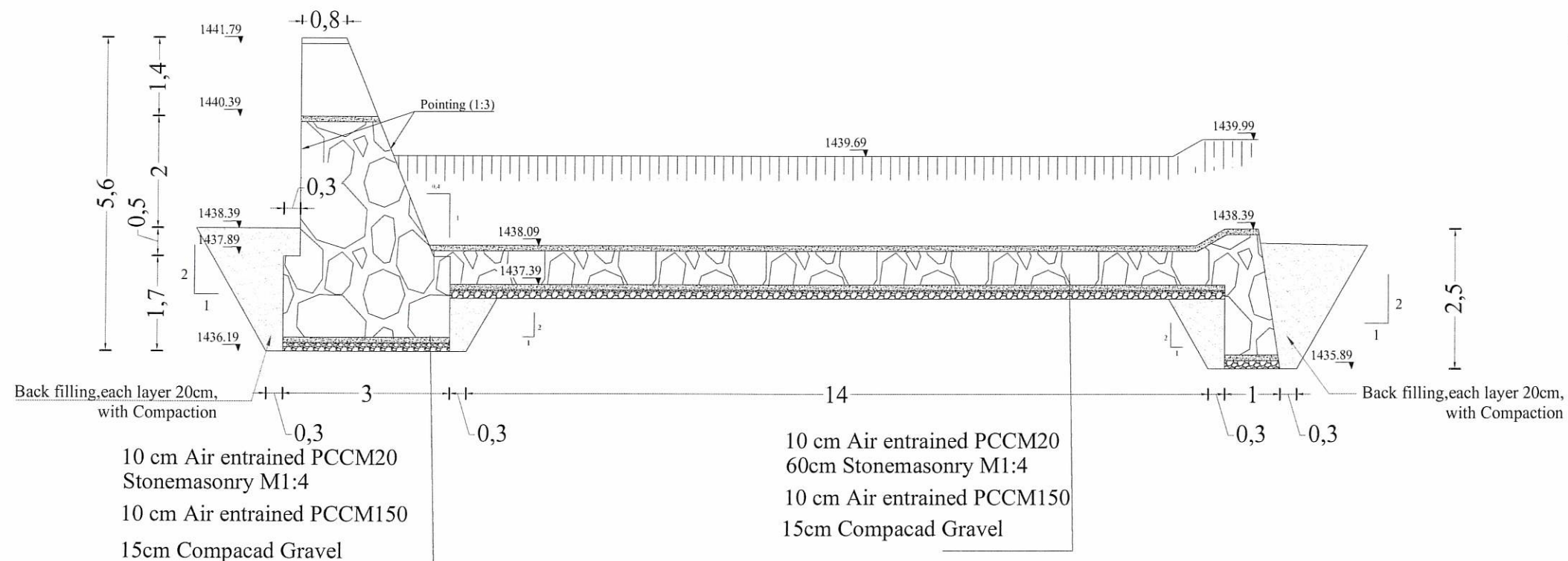
Drawing Title

Plan Of Check Dam

Date :

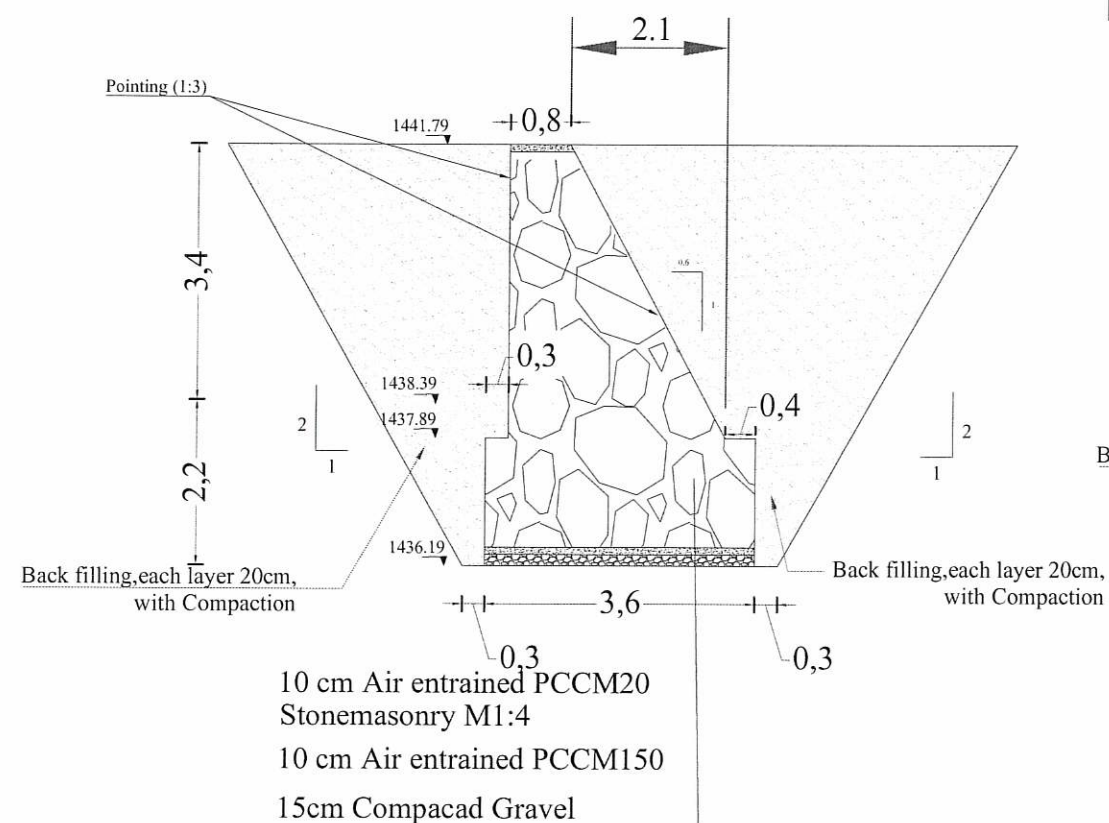
Jan-2025





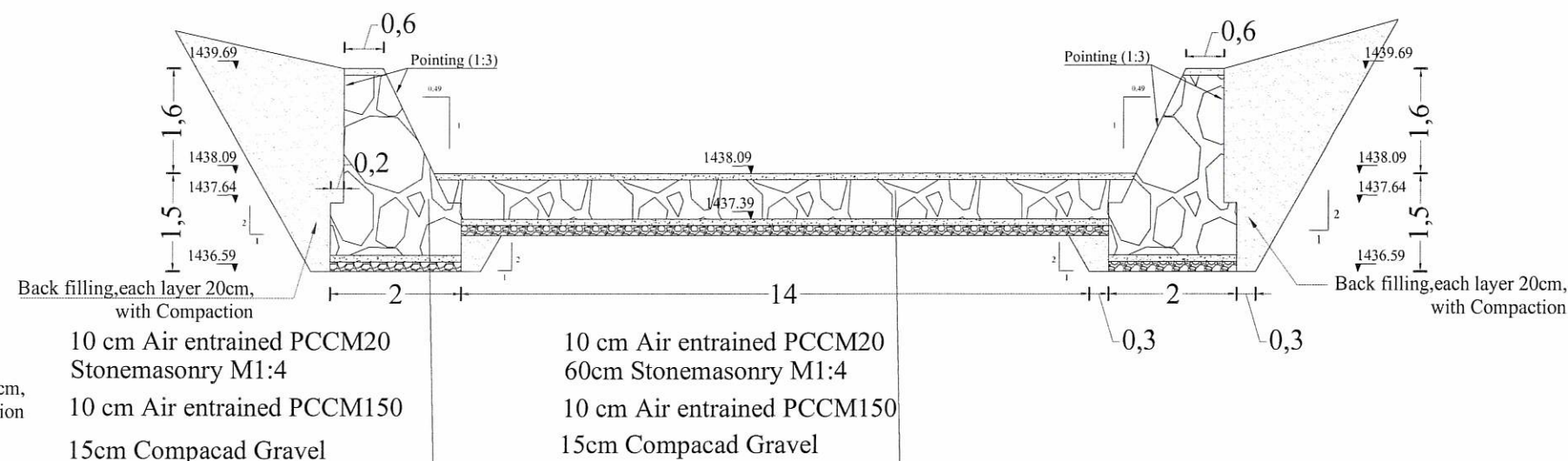
Detail drawings of Check Dam structure with cutting & filling at the different location

**0 Section B**  
L=16.5m



Detail drawings of Check Dam structure with cutting & filling at the different location

**0 Section A**  
L=13m



Detail drawings of Check Dam structure with cutting & filling at the different location

**0 Section C**  
L=14m

DACAAR / PROGRAM

Funded By

UNODC

Village Ghoryan

District Nowzad

Province Helmand

Survey by

Eng. Sayed Zaki Sadat

Drawn & Designed by

Eng. Sayed Zaki Sadat

Reviewed By

Eng. Sayed Najib Jalal

Checked & Approved By

Eng. Abdul Wali Muslih

Scale  
Meter

Sheet Index

07  
10

Project Title

CheckDam

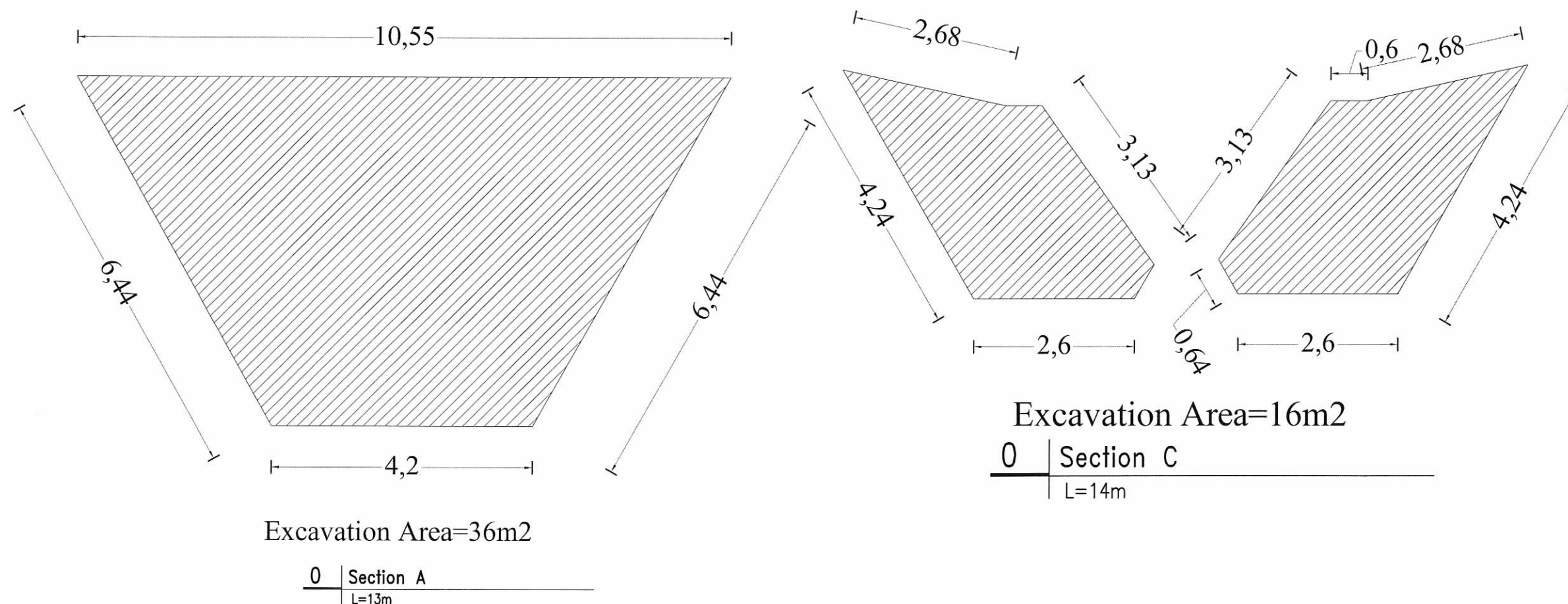
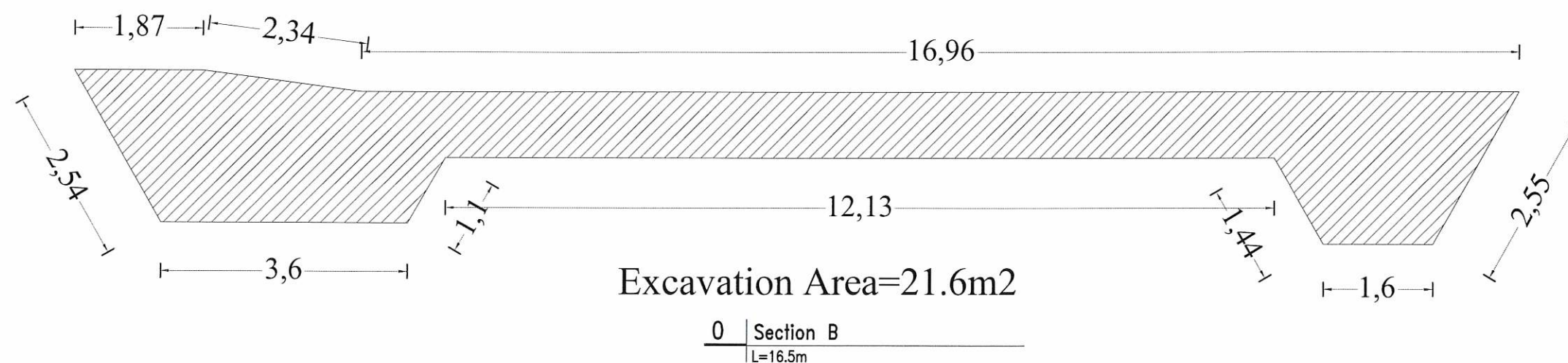
Drawing Title

Detail drawings

Date :

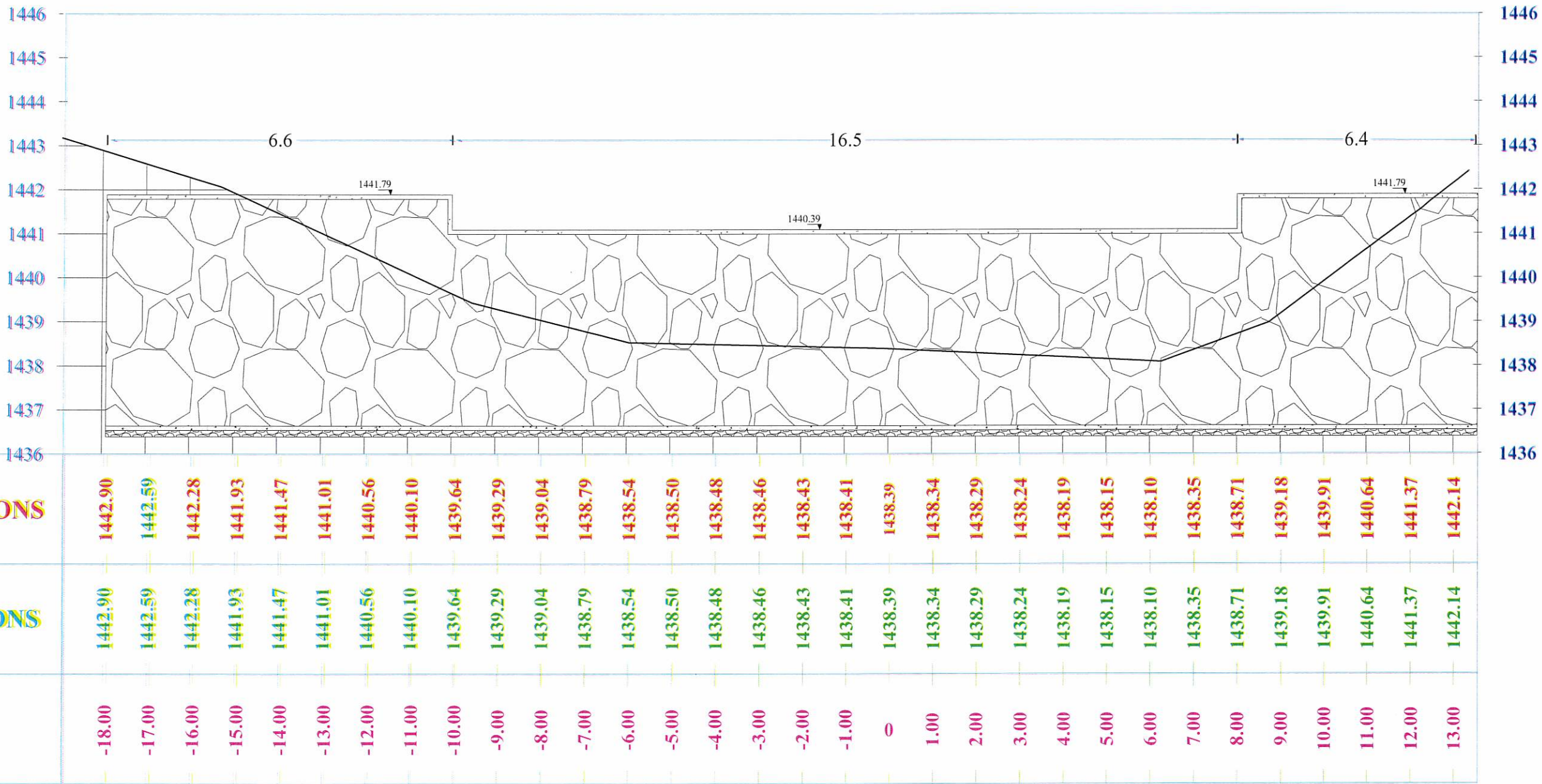
Jan-2025



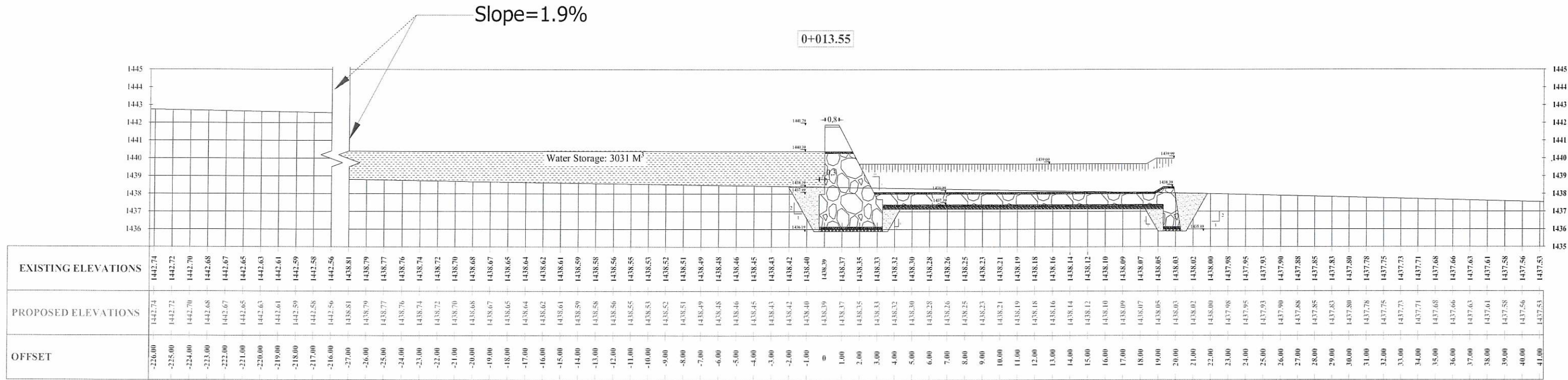




0+226.26



GHORYAN CHECK DAM 0N RIVER X- SECTION AT CH:0+226.26



GHORYAN CHECK DAM ON RIVER L- SECTION AT CH:0+013.55