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INVITATION TO BID**Construction of Two Check Dams for DACAAR Program DANIDA
Project in Logar Province**

اعلان داوطلبی برای اعمار و ساختمان دو چک دیم برای پروگرام داکار
پروژه DANIDA در ولایت لوگر

دفتر مرکزی
گولایی وزیرآباد
پست بکس ۲۰۸
کابل، افغانستان
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Date: February 04, 2026

DACAAR ITB 02 PRF-138 and 139/DANIDA/2501-DANIDA/DAN2.1/01.2026

DACAAR needs Construction of Two Check Dam for DACAAR Program DANIDA Project in Logar Province and invites interested parties to submit their sealed offers for the required job mentioned in Annex (I).

داکار برای اعمار و ساختمان دو چک دیم که در ضمیمه (I) از آن به تفصیل ذکر گردیده برای پروگرام داکار پروژه DANIDA در ولایت لوگر ضرورت دارد، و از تمام داوطلبان واجد شرایط دعوت بعمل میآورد تا آفر های سربسته شانرا قبل از معیاد تعیین شده به دفتر داکار مرکزی 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 February 24, 2026.

آفرها باید الی تاریخ 24 فیروری 2026 ساعت 4:00 عصر به شعبه لوجستیک دفتر مرکزی داکار واقع پروژه تایمنی پایکوب نصور سرک 12 قلعه فتح الله ولایت کابل سپرده شود.

The offers will be opened on February 25, 2026 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 تاریخ 25 فیروری 2026 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**

1. Contractor should Construct Two Check Dams in Logar Province based on completion plan mentioned in Annex (II).
2. Priority is given to construction companies.
3. The company must have at least one Similar Contract in the construction of at least one works in nature and complexity equivalent.
4. The company is required to assign a qualified engineer for the construction works. The curriculum vitae (CV) of the proposed engineer must be attached to the offer.
5. Provision of all tools and equipment's required for the Construction of Check Dam belongs to the contractor.

1. قرارداد گیرنده مکلف است تا اعمار دو دانه چک دیم را که در ولایت لوگر موقعیت دارد، طبق پلان کاری که در ضمیمه (II) ذکر گردیده تکمیل نماید.
2. حق اولویت به شرکت های ساختمانی داده میشود.
3. قرارداد گیرنده باید تجربه کاری مشابه حداقل یک پروژه که ماهیت و پیچیدگی آن مشابه به این پروژه باشد را داشته باشد.
4. شرکت مکلف است یک انجنیر واجد شرایط را برای اجرای کارهای ساختمانی تعیین نماید. خلاص سوانح (CV) انجنیر پیشنهادی باید با آفر ضمیمه گردد.
5. تهیه تمام وسایل و مواد برای اعمار و ساختمان چک دم معه اعاشه و ابطه بدوش قرارداد گیرنده میباشد.

6. The company is required to conduct a site visit to the check dam locations and submit its offer in accordance with the site data and conditions. شرکت مکلف است از ساحات چک دم بازدید نموده و آفر خود را مطابق به معلومات و شرایط موجود ساحه ارائه نماید.
7. Evaluation will be conducted starting from the lowest offered price, and DACAAR reserves the right to evaluate companies separately for each lot. پروسه ارزیابی از پایینترین قیمت آغاز می‌گردد و داکار حق دارد شرکت‌ها را به صورت جداگانه برای هر لات مورد ارزیابی قرار دهد.
8. Payment will be made within 25 working days after technical team confirmation and successfully completion of the contract. پرداخت پول بعد از تصدیق بخش تخنیکي داکار و تکمیل نمودن مؤفقاته قرارداد در مدت 25 روز کاری اجرا می‌گردد.
9. 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 مؤفقاته قرارداد قبل از امضای آن به حساب بانکی داکار بپردازد. مبلغ متذکره در صورت اجرای مؤفقاته قرارداد قابل باز پرداخت میباشد.
10. 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.
11. Quotations should be valid for 60 official days. قیمت داده شده باید برای مدت 60 روز کاری مدار اعتبار باشد.
12. 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 نمیباشد. آفرهای قلم خورده گی بطور اتومات رد می‌گردد.
13. 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. هئیت تقنیش 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.
14. 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 گردیده و به وزارت مالیه پرداخت میشود، آغاز مبلغ از 1) افغانی).

15. DACAAR does not accept sub-contract, in case if it is found that the contract has given the contract 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.
16. DACAAR will not be responsible for any changes occurred during the contract such as (increment in custom duties, exchange rate etc.)
17. 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.
18. The Humanitarian Organizations (HO) may conduct on- site visit in the contractor's premises (or may take similar measures) to ensure compliance.
19. 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".
20. 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.
21. All bidders should deposit amount of (50,000 AFN) to DACAAR AIB Bank Afghani Account (0528101008667400) as a Bid Security, otherwise; DACAAR has the right to take the decision.

15. 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.

16. داکار به هیچ عنوان مسئولیت بلند رفتن مالیات گمرکی، اسعار خارجی و غیره مواردی که باعث بلند رفتن قیمت در جریان قرارداد گردد ندارد.

17. دفتر داکار (شعبه لوژیستیک) با در نظر داشت 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 پایبند باشند.

18. 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.

19. داکار دارای پالیسی عدم تحمل در مورد سوء استفاده، بد رفتاری و آزار و اذیت جنسی میباشد و موقف داکار در همچون مسایل بطور تفصیلی در پالیسی مذکور تشریح شده است.

20. 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.

21. تمامی داوطلبان باید مبلغ 50,000 افغانی را بطور تضمین اشتراک در داوطلبی به حساب افغانی داکار (0528101008667400) در بانک بین المللی افغانستان جمع نموده و رسید بانکی آنرا بداخل پاکت آفر بگذارند، در غیر آن داکار حق تصمیم نهایی را دارا میباشد.

Note: All deposits (Bid Security/ Contract Performance Guarantee) will be refunded on proper application of vendors along with original bank deposit slip. The deposit (bid security/ contract performance guarantee) will not be refunded, if the supplier/ bidder withdraws or quits from the process.

نوت: تمام تضمین ها (تضمین اشتراک در داوطلبی / تضمین اجرایی قرارداد) به اساس درخواست اشتراک کننده داوطلبی/ قرارداد کننده و ارایه اصل رسید بانکی پس پرداخت میگردد. داوطلب/ قرارداد گیرنده که از پروسه منصرف میگردد پول تضمین شان دوباره واپس نمیگردد.

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 or wasimullah@dacaar.org

Yours Sincerely,
Manager – Logistics Unit
Date: February 04, 2026

ANNEX (I)

فورم ارایه آفر / Budget Breakdown

DACAAR ITB 02 PRF-138 and 139/DANIDA/2501-DANIDA/DAN2.1/01.2026

Lot (I): Construction of Check Dam for DACAAR Program DANIDA Project in Bidak Village, Pule Alam District of Logar 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	Mobilization	LS	1		
2	Excavation and removal of excess materials up to 500M	M ³	931		
3	Hard Excavation Work (Hard Cutting)	M ³	260		
4	Dense filling completed using well-graded materials with (FDD) test result.	M ³	459		
5	Stone masonry Work M (1:4) including Stone	M ³	859		
6	15cm Thick Sea Gravel layer in the lower part of the foundation	M ³	76		
7	Plain Cement Concrete (PCC) M (1:1.5:3)	M ³	35		
8	Plain Cement Concrete (PCC) M (1:2:4)	M ³	51		
9	Pointing Work M (1:3)	M ³	518		
10	Installation of Water Stopper with waterproof PCC Concrete (1:4)	M	12		
Grand Total: AFN					

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 (I)
Budget Breakdown/ فورم ارایه آفر
DACAAR ITB 02 PRF-138 and 139/DANIDA/2501-DANIDA/DAN2.1/01.2026

Lot (I): Construction of Check Dam for DACAAR Program DANIDA Project in Dado Khail Village, Pule Alam District of Logar 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	Mobilization	LS	1		
2	Excavation and removal of excess materials up to 500M	M ³	955		
3	Dense filling completed using well-graded materials with (FDD) test result.	M ³	350		
4	Stone masonry Work M (1:4) including Stone	M ³	780		
5	15cm Thick Sea Gravel layer in the lower part of the foundation	M ³	66		
6	Plain Cement Concrete (PCC) M (1:1.5:3)	M ³	27		
7	Plain Cement Concrete (PCC) M (1:2:4)	M ³	44		
8	Pointing Work M (1:3)	M ²	663		
9	Installation of Water Stopper with waterproof PCC Concrete (1:4)	M	19		
Grand Total: AFN					

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 ITB 02 PRF-138 and 139/DANIDA/2501-DANIDA/DAN2.1/01.2026

Lot (I): Construction of Check Dam for DACAAR Program DANIDA Project in Bidak Village, Pule Alam District of Logar Province:

S/No	Specifications	Unit	Quantity of Work	Start Date of the Contract	End Date of the Contract
1	Mobilization	LS	1	Starts After DACAAR Contract Final Approval	80 Working Days after Contract Final Approval
2	Excavation and removal of excess materials up to 500M	M ³	931		
3	Hard Excavation Work (Hard Cutting)	M ³	260		
4	Dense filling completed using well-graded materials with (FDD) test result.	M ³	459		
5	Stone masonry Work M (1:4) including Stone	M ³	859		
6	15cm Thick Sea Gravel layer in the lower part of the foundation	M ³	76		
7	Plain Cement Concrete (PCC) M (1:1.5:3)	M ³	35		
8	Plain Cement Concrete (PCC) M (1:2:4)	M ³	51		
9	Pointing Work M (1:3)	M ³	518		
10	Installation of Water Stopper with waterproof PCC Concrete (1:4)	M	12		

ANNEX (II)
Tentative Work Plan/ پلان کاری تخمینی
DACAAR ITB 02 PRF-138 and 139/DANIDA/2501-DANIDA/DAN2.1/01.2026

Lot (II): Construction of Check Dam for DACAAR Program DANIDA Project in Dado Khail Village, Pule Alam District of Logar Province:

S/No	Specifications	Unit	Quantity of Work	Start Date of the Contract	End Date of the Contract
1	Mobilization	LS	1	Starts After DACAAR Contract Final Approval	80 Working Days after Contract Final Approval
2	Excavation and removal of excess materials up to 500M	M ³	955		
3	Dense filling completed using well-graded materials with (FDD) test result .	M ³	350		
4	Stone masonry Work M (1:4) including Stone	M ³	780		
5	15cm Thick Sea Gravel layer in the lower part of the foundation	M ³	66		
6	Plain Cement Concrete (PCC) M (1:1.5:3)	M ³	27		
7	Plain Cement Concrete (PCC) M (1:2:4)	M ³	44		
8	Pointing Work M (1:3)	M ²	663		
9	Installation of Water Stopper with waterproof PCC Concrete (1:4)	M	19		

ANNEX (III)
Technical Specification and Design Work Plan/ مشخصات تخنیکى و دیزاین
DACAAR ITB 02 PRF-138 and 139/DANIDA/2501-DANIDA/DAN2.1/01.2026

DACAAR
Program/Technical & Coordination Unit
Survey & Design Team



Bidak Check Dam Drawings

Project Location:

Province:.....Logar

District:.....Center

Village:..... Bidak

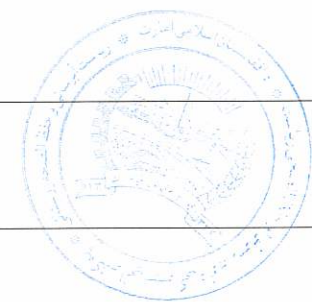


Date: July 2025

LIST OF DRAWINGS



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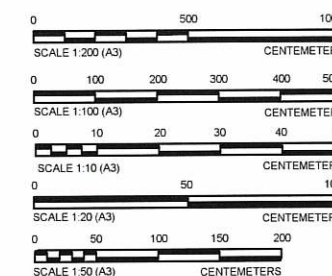
DACAAR / PROGRAM	Funded By	DANIDA	Village	Bidak	Survey by	Eng. Najmuddin/Wahidullah			Sheet Index 	Project Title	CheckDam
	Implemented By	DACAAR	District	Center	Drawn & Designed by	Eng. Sayed Zaki Sadat				Drawing Title	LIST OF DRAWINGS
			Province	Kabul	Reviewed By	Eng. Sayed Najib Jalal				Date :	July-2025
					Checked & Approved By	Eng. Abdul Wali Muslih					

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 is (100m) in section view
	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	DANIDA	Village	Bidak	Survey by	Eng. Naimuddin/Wahidullah	Scale Meter	Sheet Index 02 12	Project Title	CheckDam
	Implemented By	DACAAR	District	Center	Drawn & Designed by	Eng. Sayed Zaki Sadat			Drawing Title	LIST OF DRAWINGS
			Province	Kabul	Reviewed By	Eng. Sayed Najiib Jalal			Date :	July-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 (2500kg/cm^2).

MASONRY WORKS:

- 1 - Plum / Mass air - entraining concrete shall contain a maximum of 40% stone with a maximum stone size as 20-30cm.
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:

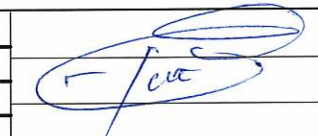
- 1 - Backfilling material should be properly tested and selected to be suitable as per standard practice.
- 2 - For backfilling maximum thickness of each loose soil layer should not more than 15cm. According to general specification.
- 3 - Standard compaction tests should be carried out for the backfilling.
- 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:

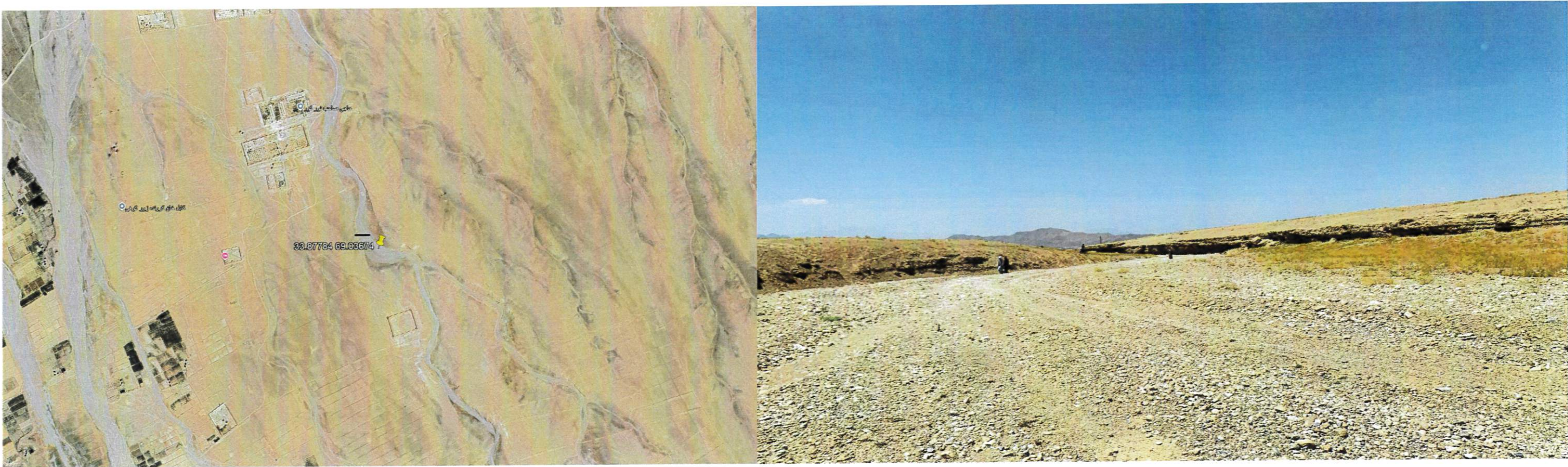
- 1 - Stone size for gabion shall range from (20 - 30cm) dia. According to general specification.
- 2 - Galvanized iron wier of specified thickness (2.7- 3.0)mm Should be properly woven and knotted together to form the required mesh in hexagonal / rectangular shape of size (8 - 10cm) for gabion basket 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 / mm^2).

OTHERS:

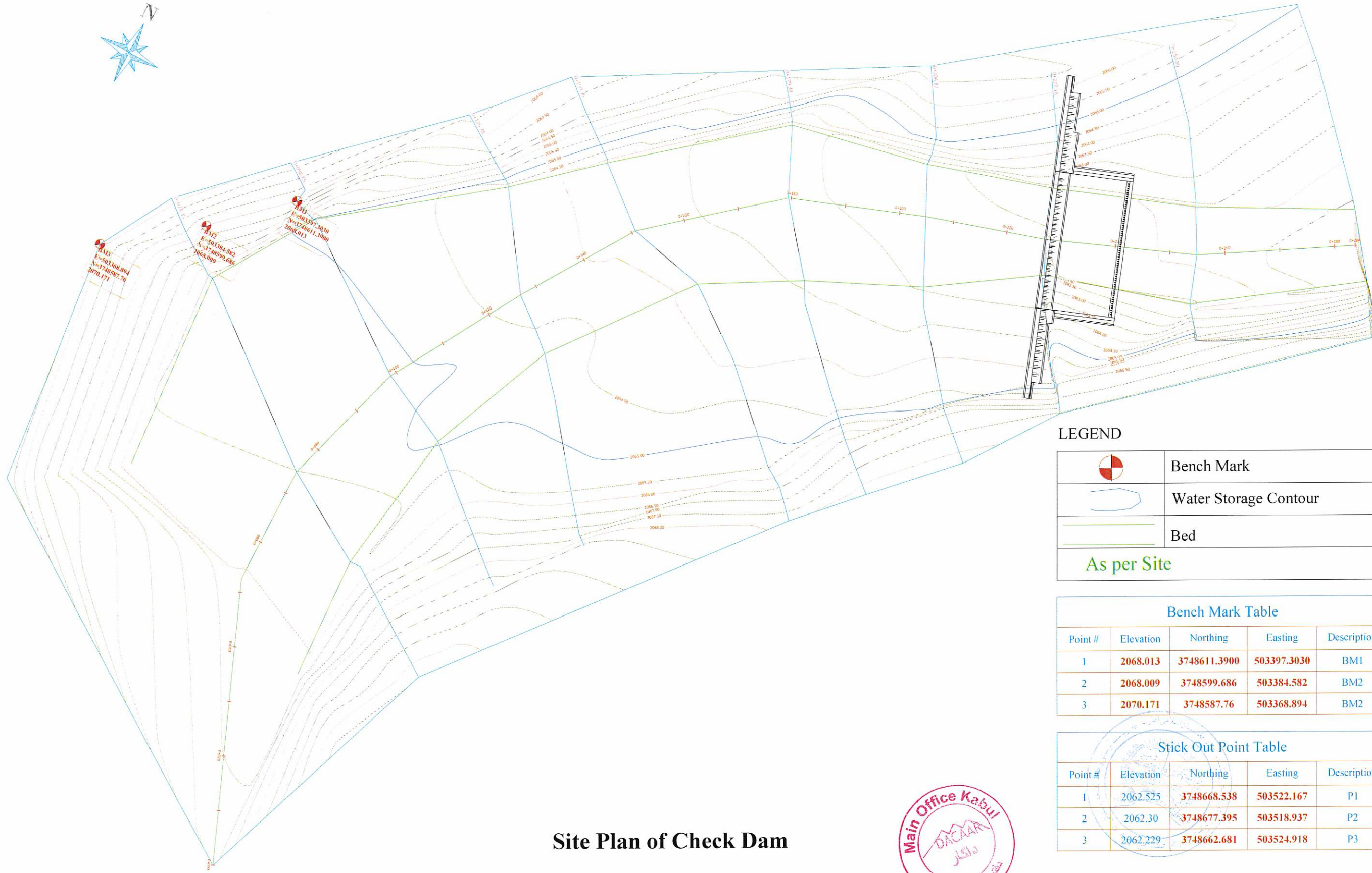
- 1 - Bitumen coating should be used in all contraction / Expansion joints.
- 2 - All quality control field tests should be carried out by the contractor in a specified laboratory as accepted by the client.
- 3 - Construction joints for PCC and masonry walls should be provided as (- 15 - 20m) center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

DACAAR / PROGRAM	Funded By	DANIDA	Village	Bidak	Survey by	Eng. Naimuddin/Wahidullah		Scale Meter	Sheet Index 	Project Title	CheckDam
	Implemented By	DACAAR	District	Center	Drawn & Designed by	Eng. Sayed Zaki Sadat				Drawing Title	LIST OF DRAWINGS
			Province	Kabul	Reviewed By	Eng. Sayed Naiib Jalal				Date :	July-2025
					Checked & Approved By	Eng. Abdul Wali Muslih					

Site Map Of Check Dam



DACAAR / PROGRAM	Funded By	DANIDA	Village	Bidak	Survey by	Eng. Naimuddin/Wahidullah		Scale Meter	Sheet Index 04 12	Project Title	CheckDam
	Implemented By	DACAAR	District	Center	Drawn & Designed by	Eng. Sayed Zaki Sadat				Drawing Title	LIST OF DRAWINGS
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LEGEND

	Bench Mark
	Water Storage Contour
	Bed
As per Site	

Bench Mark Table

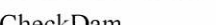
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2	2068.009	3748599.686	503384.582	BM2
3	2070.171	3748587.76	503368.894	BM2

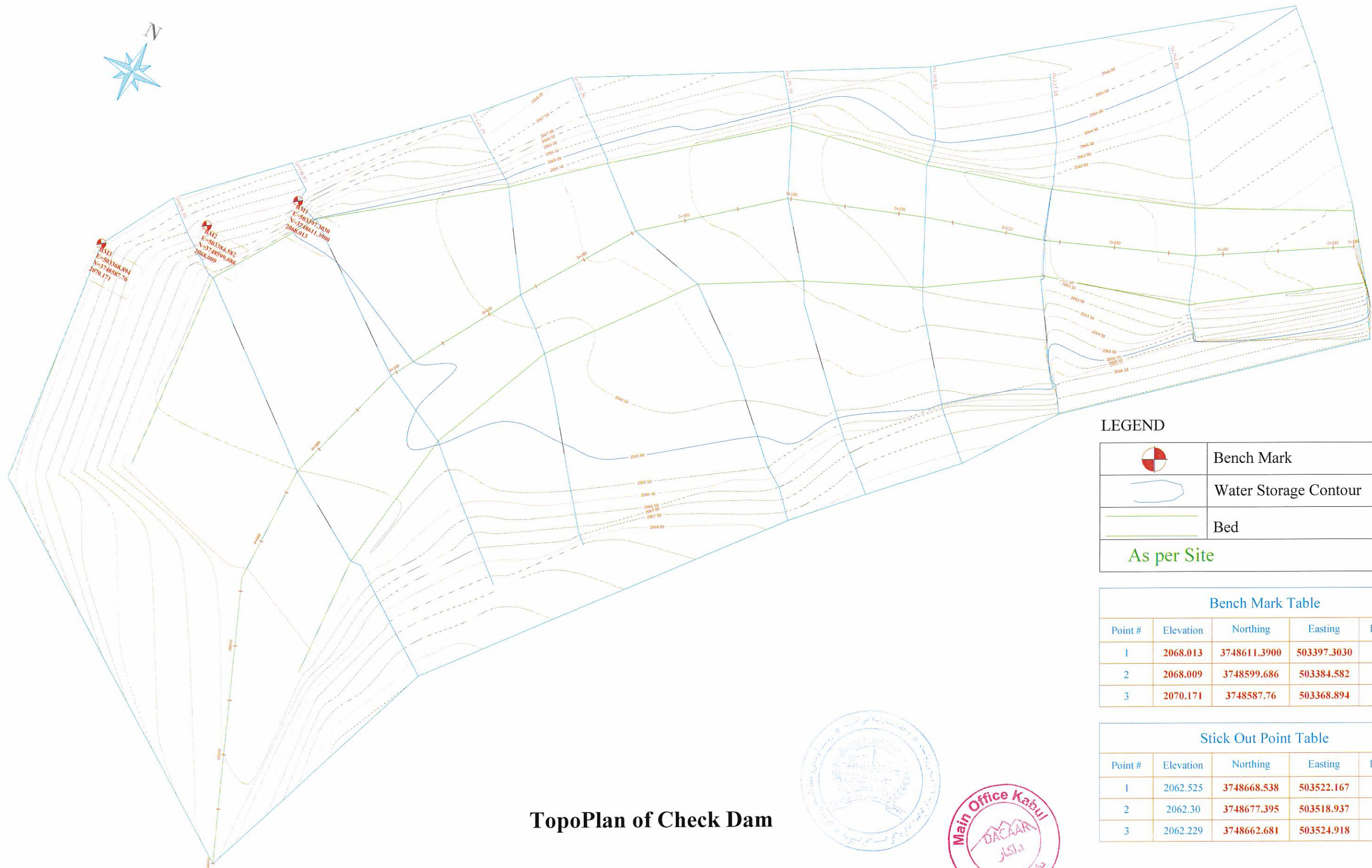
Stick Out Point Table

Point #	Elevation	Northing	Easting	Description
1	2062.525	3748668.538	503522.167	P1
2	2062.30	3748677.395	503518.937	P2
3	2062.229	3748662.681	503524.918	P3

Site Plan of Check Dam



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			Checked & Approved By							Eng. Abdul Wali Muslih	



LEGEND

	Bench Mark
	Water Storage Contour
	Bed
As per Site	

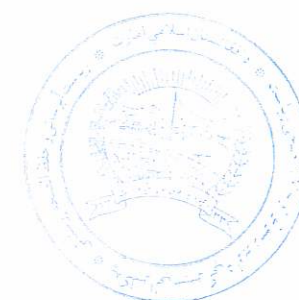
Bench Mark Table

Point #	Elevation	Northing	Easting	Description
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3	2070.171	3748587.76	503368.894	BM2

Stick Out Point Table

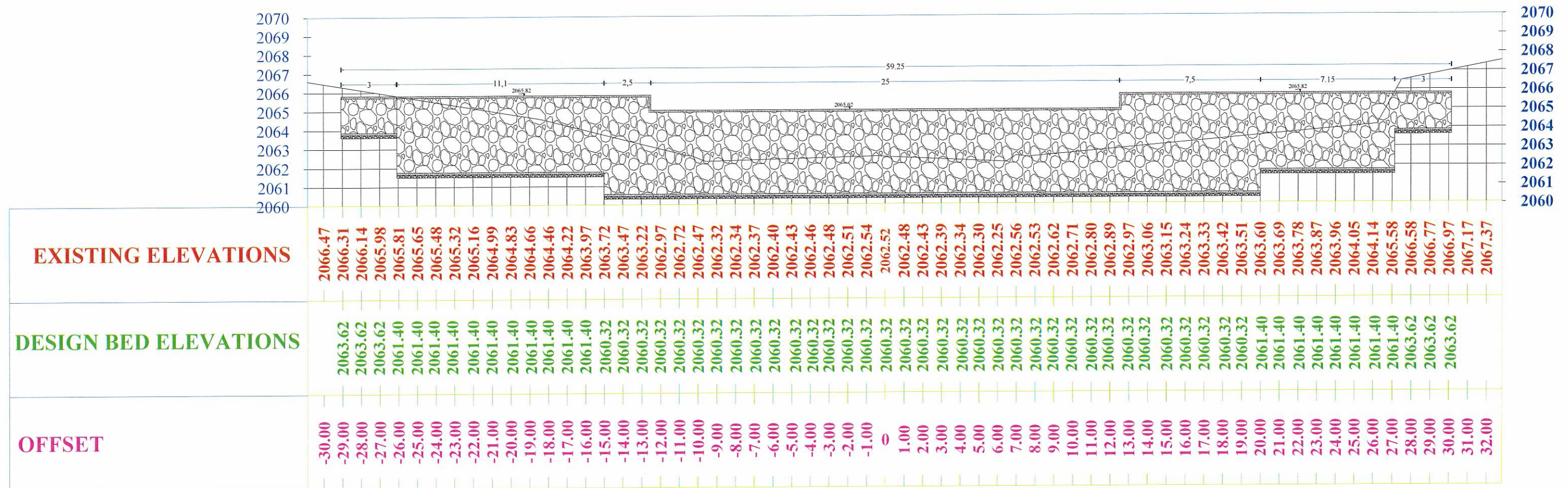
Point #	Elevation	Northing	Easting	Description
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2	2062.30	3748677.395	503518.937	P2
3	2062.229	3748662.681	503524.918	P3

TopoPlan of Check Dam

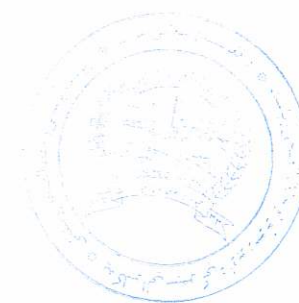


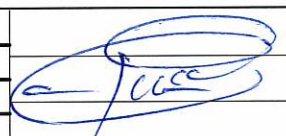
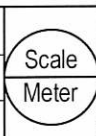
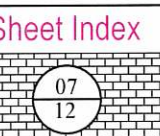
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	Implemented By	DACAAR	District	Center	Drawn & Designed by	Eng. Sayed Zaki Sadat			Drawing Title	LIST OF DRAWINGS
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					Checked & Approved By	Eng. Abdul Wali Muslih				

0+227.18

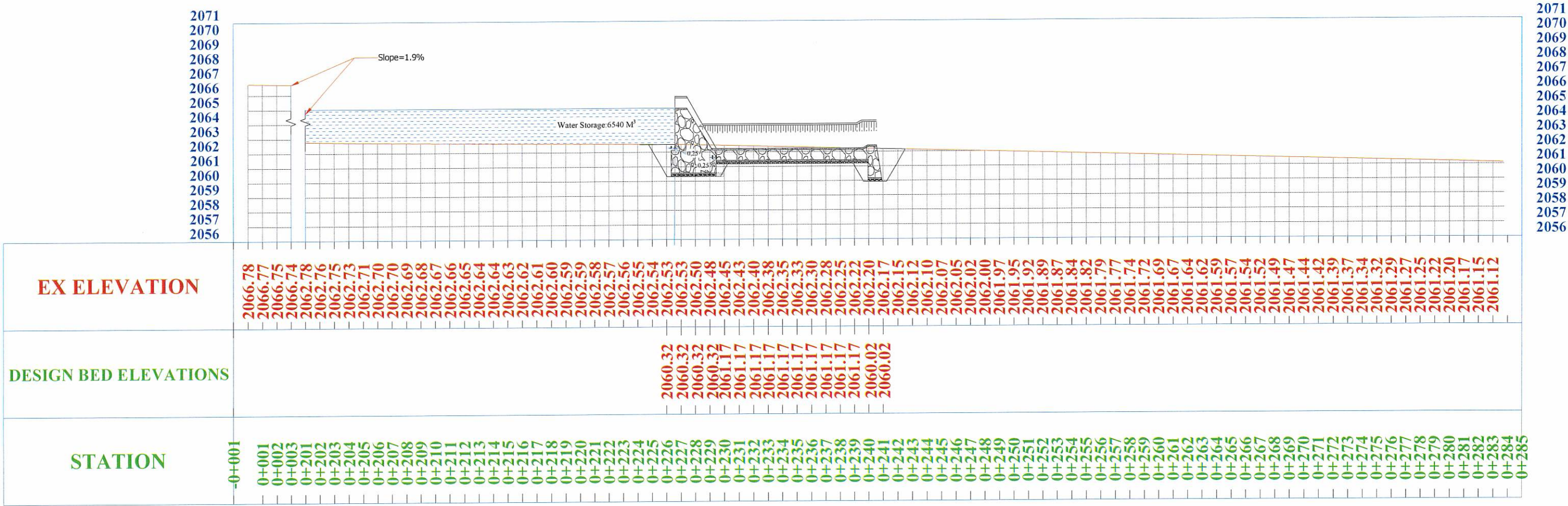


BIDAK CHECK DAM ON RIVER X-SECTION AT CH:0+037.18

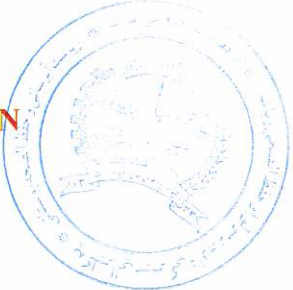


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			Province	Kabul	Reviewed By	Eng. Sayed Najib Jalal					Date :
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BIDAK PROJECT PROFILE

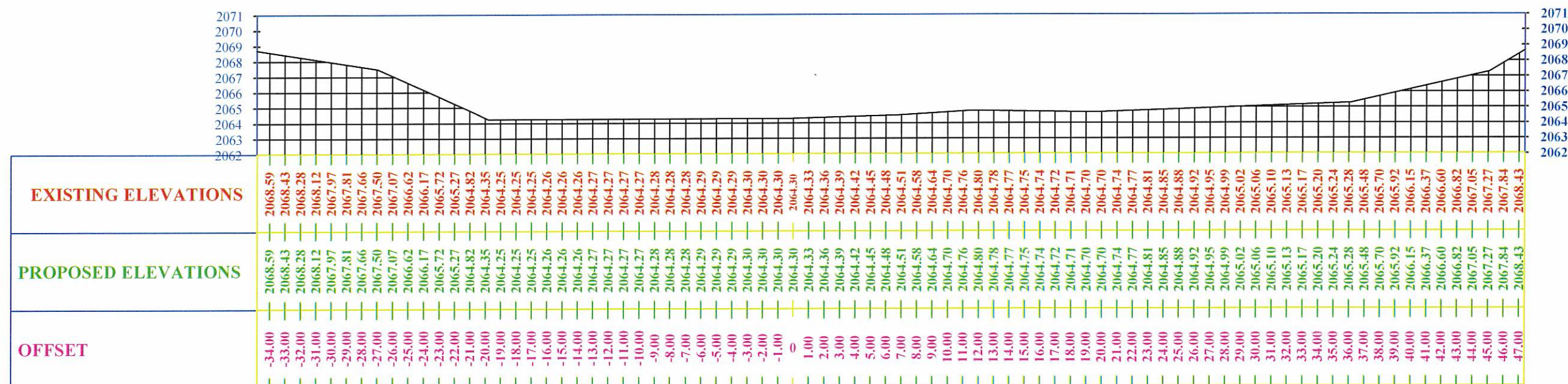


BIDAK CHECK DAM ON RIVER L- SECTION

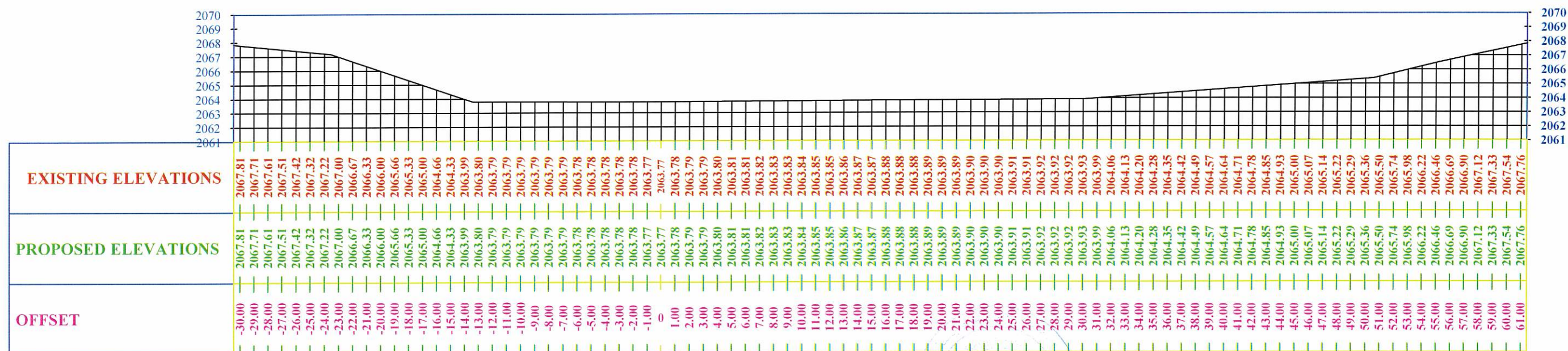


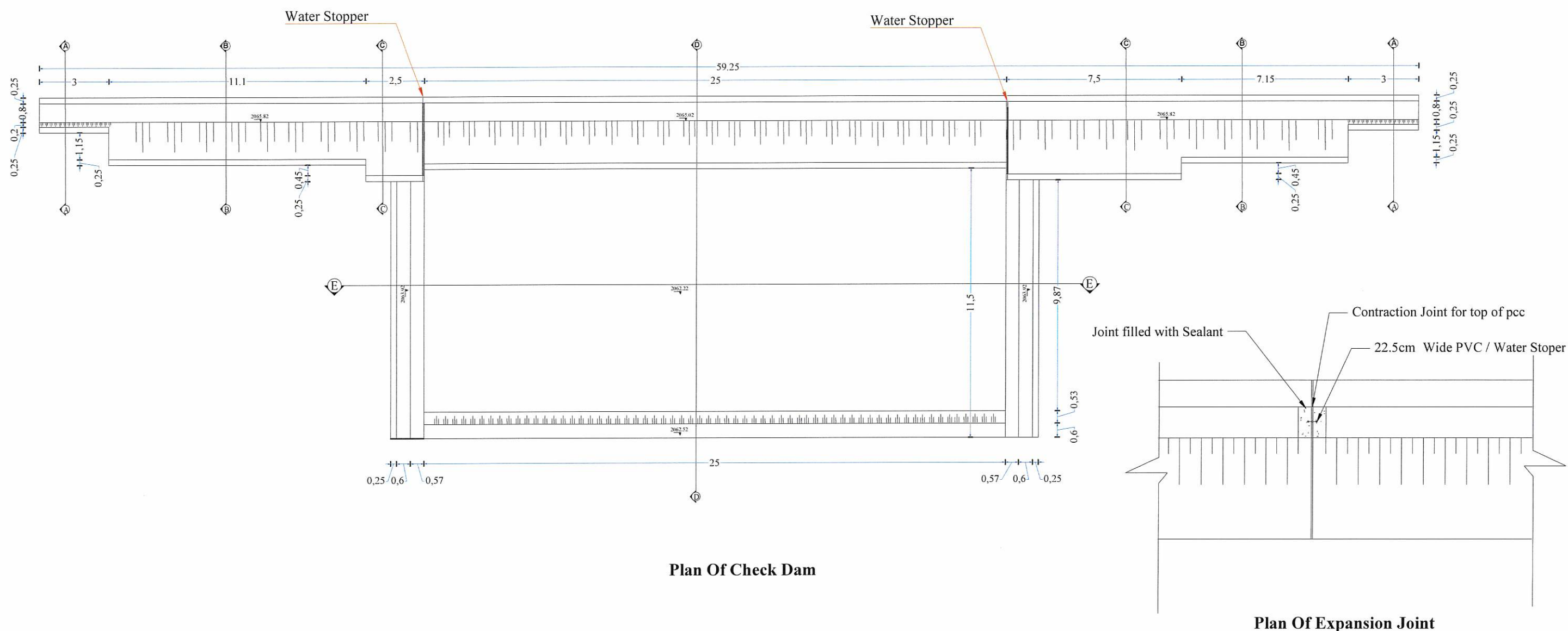
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0+126.78



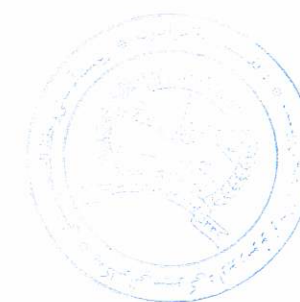
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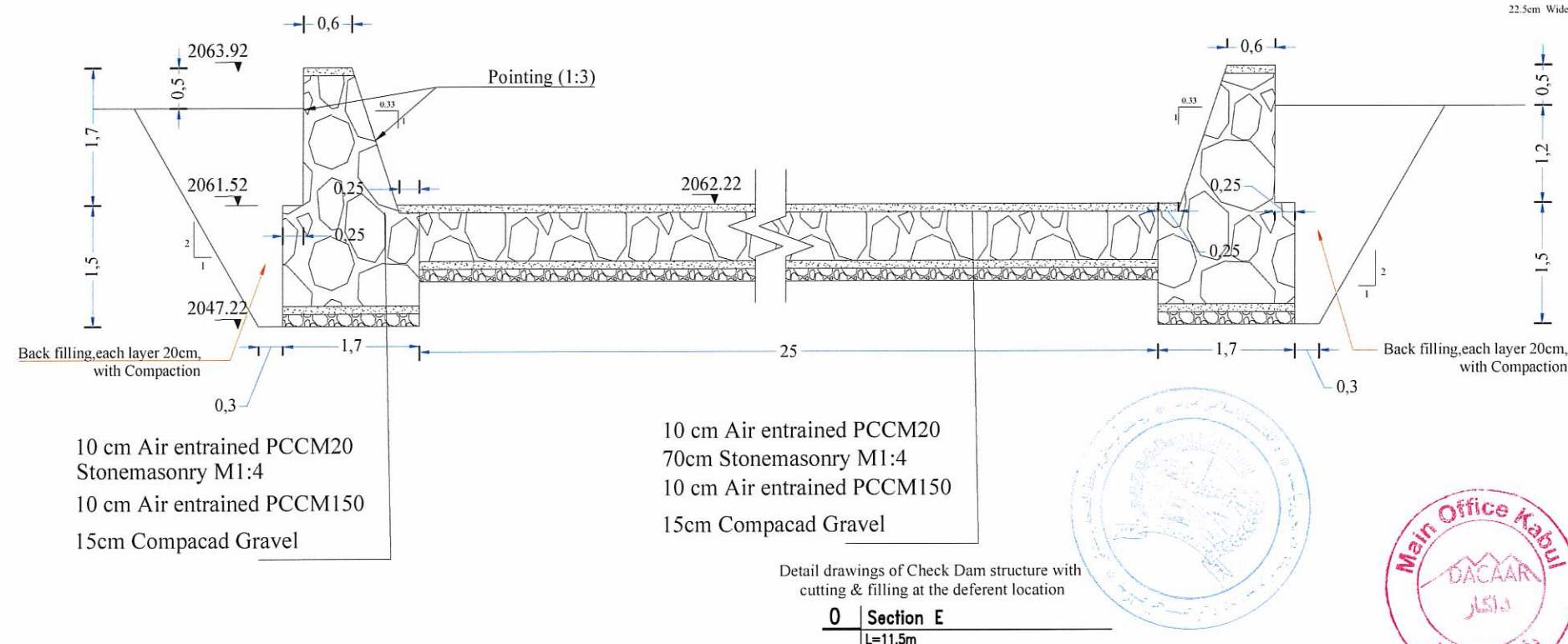
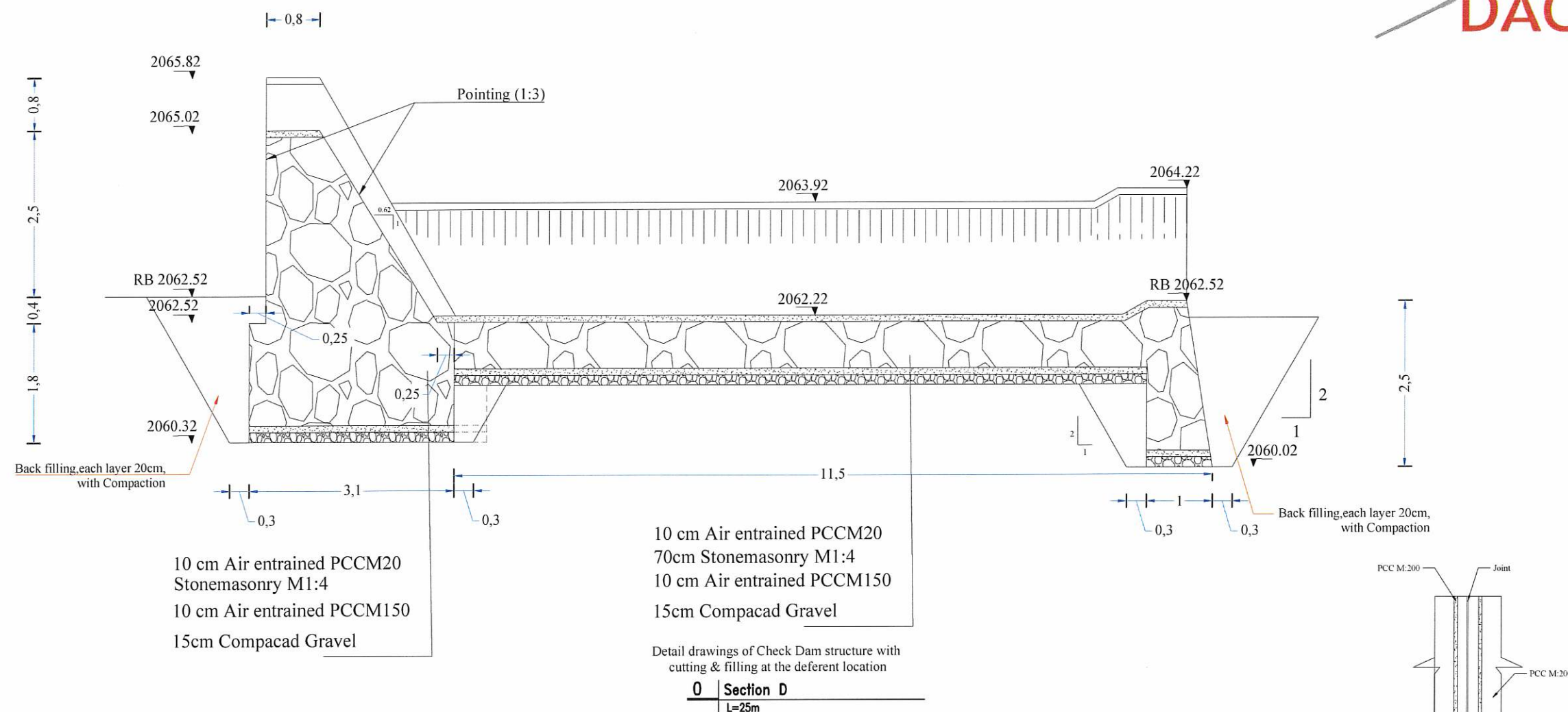


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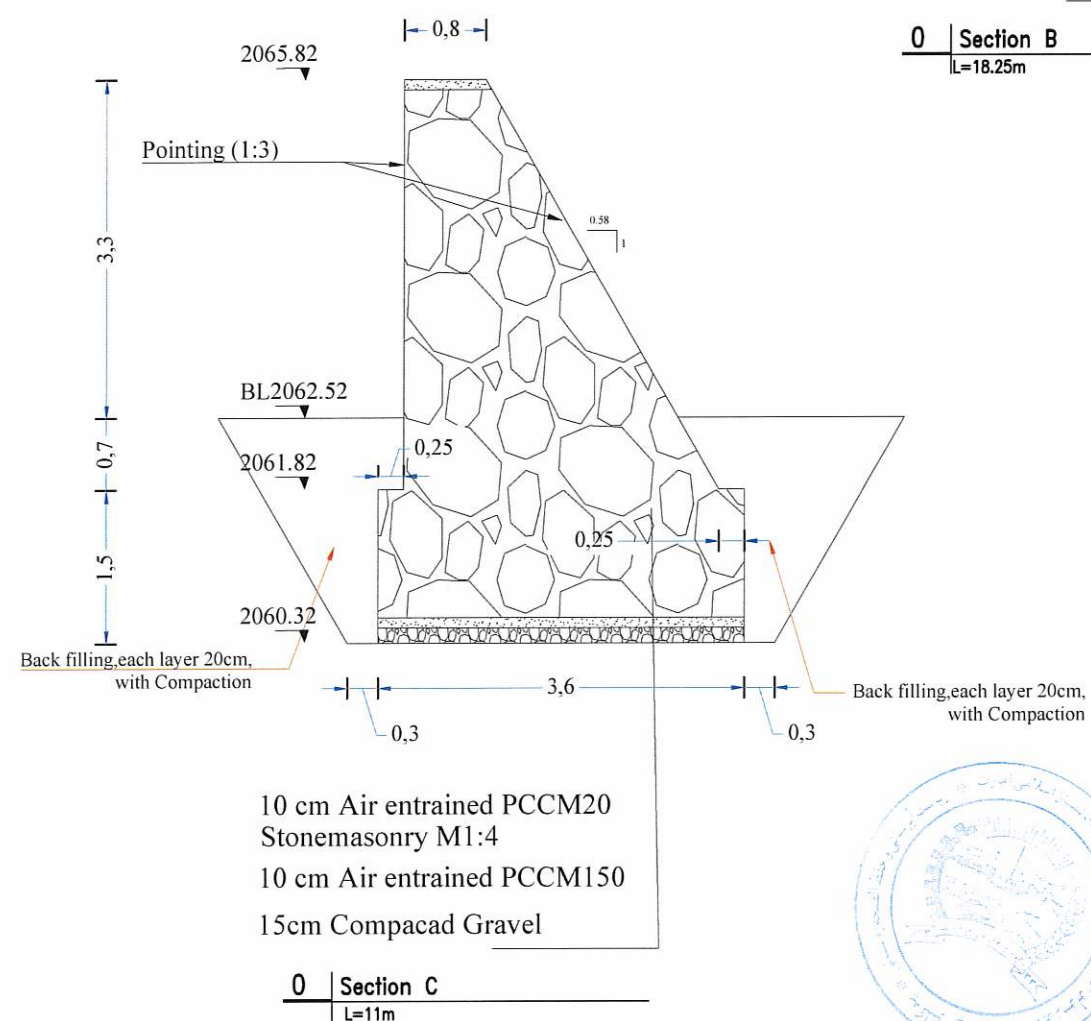
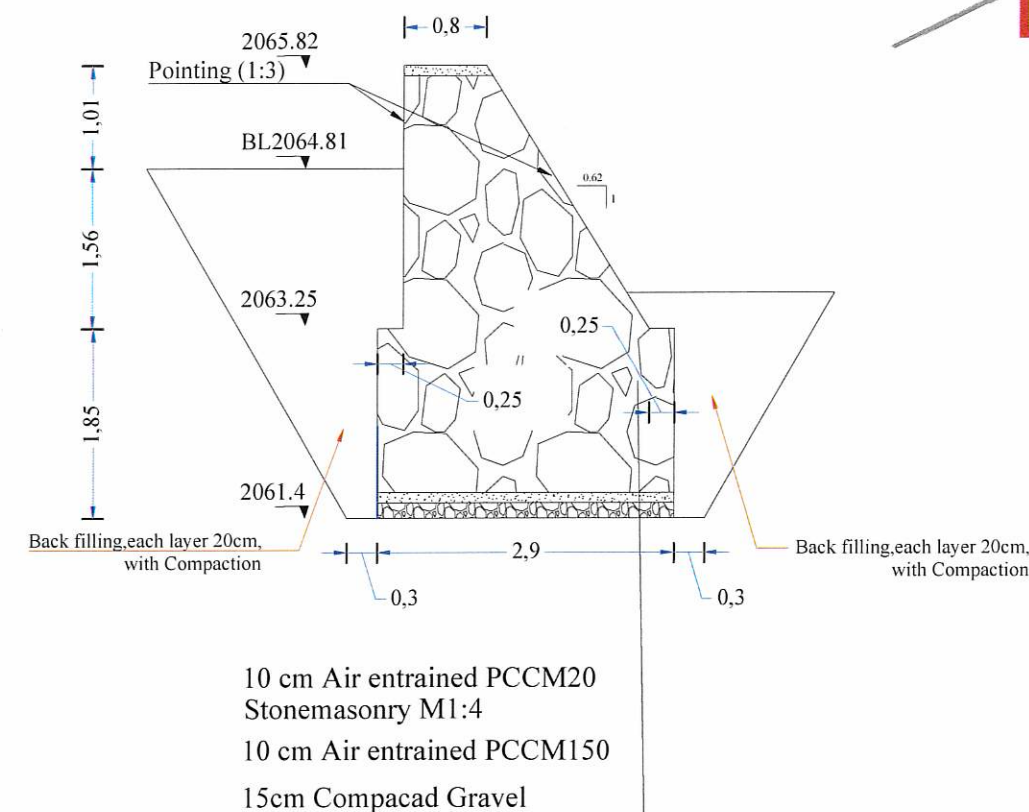
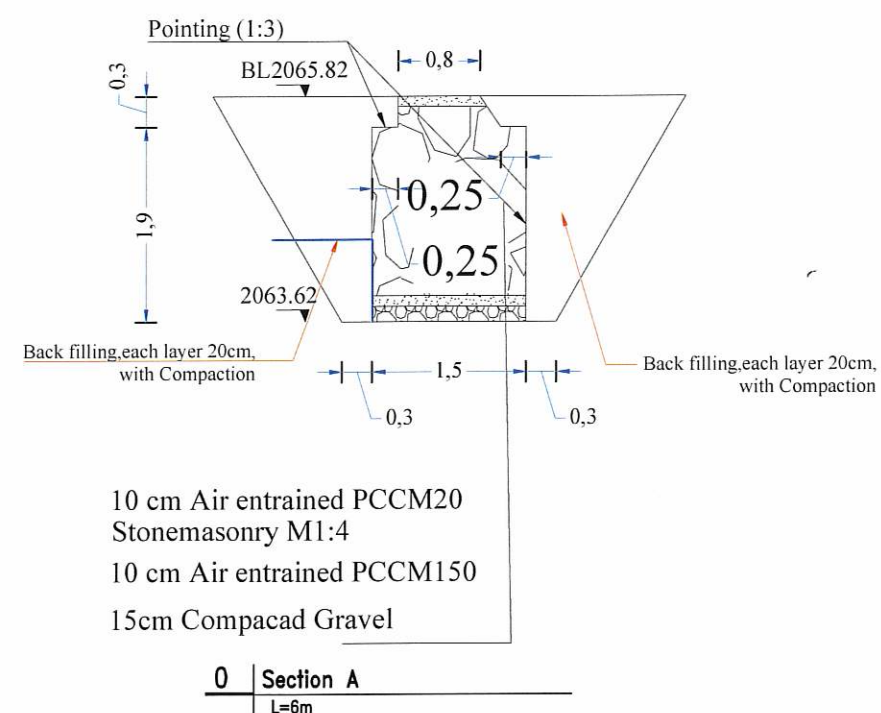
- All dimensions are in M.
- All Excavated material can be use it upstream and downstream faces fillings with 90% Compaction.
- Filling layers must not be Pave more than (15-20)cm thickness.



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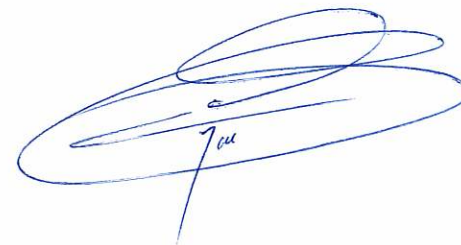


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DACAAR
Program/Technical & Coordination Unit
Survey & Design Team



Dado Khail Check Dam Drawings



Project Location:

Province:.....Logar

District:.....Center

Village:..... Dado Khail

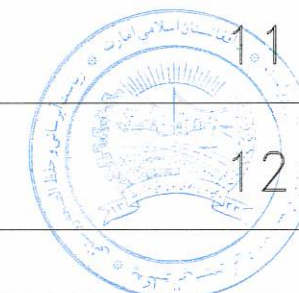


Date: July 2025

LIST OF DRAWINGS

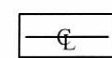
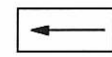
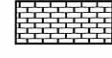
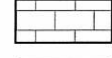
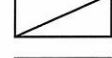
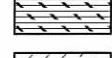
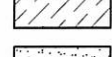
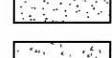
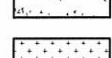
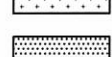
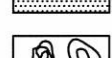
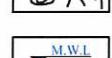
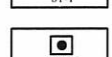
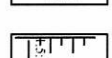
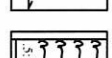
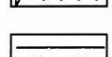
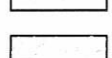


DISCRIPTION	DRAWING NO.
LIST OF DRAWINGS	01
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TECHNICAL SPECIFICATION	03
Site photographs	04
TOPO PLAN	05
Site Plan	06
Cross Section	07
Long Section	08
Survey Sections	09
Plan Of Check Dam	10
Section A-A,B-B,C-C,E-E	11
Section D-D,F-F	12



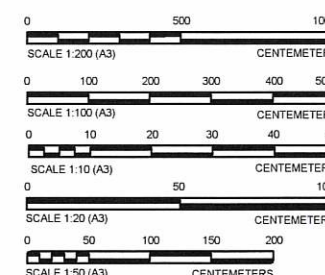
DACAAR / PROGRAM	Funded By	DANIDA	Village	Dado Khail	Survey by	Eng. Najmuddin/Wahidullah	Scale Meter	Sheet Index 01 12	Project Title	CheckDam
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LEGEND:-

	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 is (100m) in section view
	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

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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 (2500kg/cm^2).

MASONRY WORKS:

- 1 - Plum / Mass air - entraining concrete shall contain a maximum of 40% stone with a maximum stone size as 20-30cm.
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:

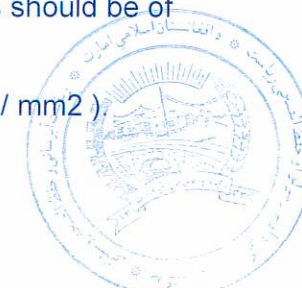
- 1 - Backfilling material should be properly tested and selected to be suitable as per standard practice.
- 2 - For backfilling maximum thickness of each loose soil layer should not more than 15cm. According to general specification.
- 3 - Standard compaction tests should be carried out for the backfilling.
- 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 / mm²).

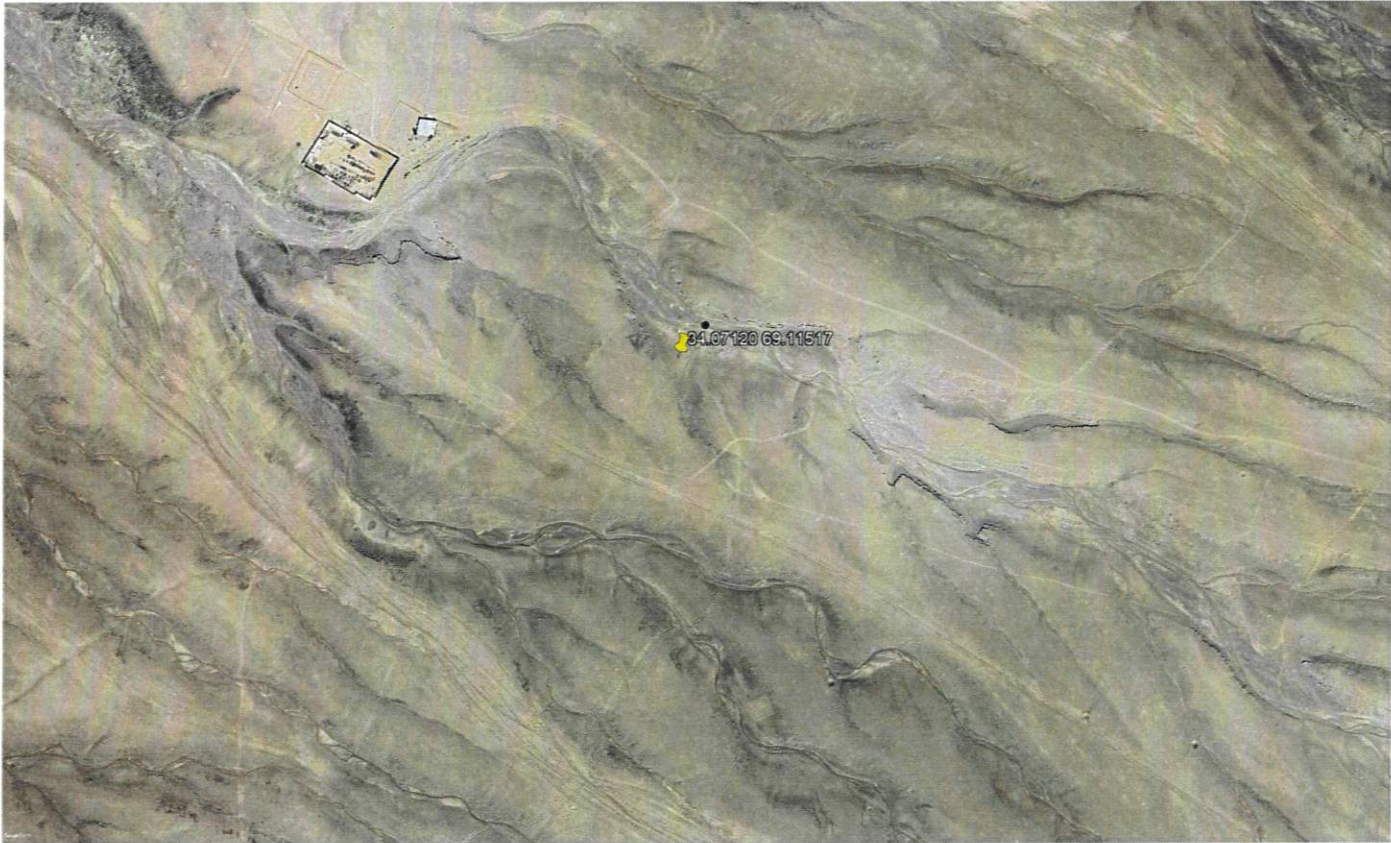
OTHERS:

- 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,



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			Province	Kabul	Reviewed By	Eng. Sayed Najib Jalal			Date :	July-2025
					Checked & Approved By	Eng. Abdul Wali Muslih				

Site Map Of Check Dam



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	Implemented By	DACAAR	District	Center	Drawn & Designed by	Eng. Sayed Zaki Sadat				Drawing Title	MAP
			Province	Kabul	Reviewed By	Eng. Sayed Najib Jalal				Date :	July-2025
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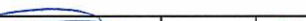
Topo Plan of Check Dam



LEGEND

	Bench Mark
	Water Storage Contour
	Bed
As per Site	

Bench Mark Table				
Point #	Elevation	Northing	Easting	Description
1	1996.080	3770056.5510	510627.3970	BM1
2	1996.626	3770065.9020	510600.0670	BM2

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LEGEND

	Bench Mark
	Water Storage Contour
	Bed
As per Site	

Bench Mark Table

Point #	Elevation	Northing	Easting	Description
1	1996.080	3770056.5510	510627.3970	BM1
2	1996.626	3770065.9020	510600.0670	BM2

Stick Out Point Table

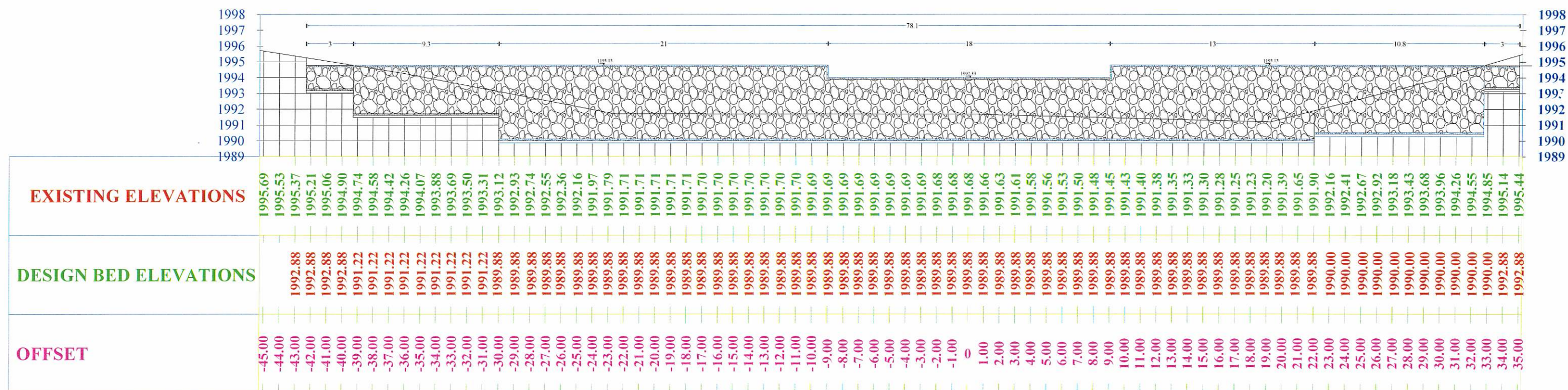
Point #	Elevation	Northing	Easting	Description
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2	1993.13	3770143.379	510565.355	P2
3	1993.13	3770176.846	510604.236	P3
4	1993.13	3770176.846	510604.236	P4
5	1991.53	3770153.153	510556.859	P5
6	1991.53	3770166.077	510571.272	P6

Site Plan of Check Dam



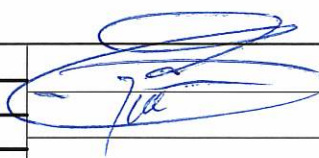
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	Implemented By	DACAAR	District	Center	Drawn & Designed by	Eng. Sayed Zaki Sadat				Drawing Title	LIST OF DRAWINGS
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0+037.18

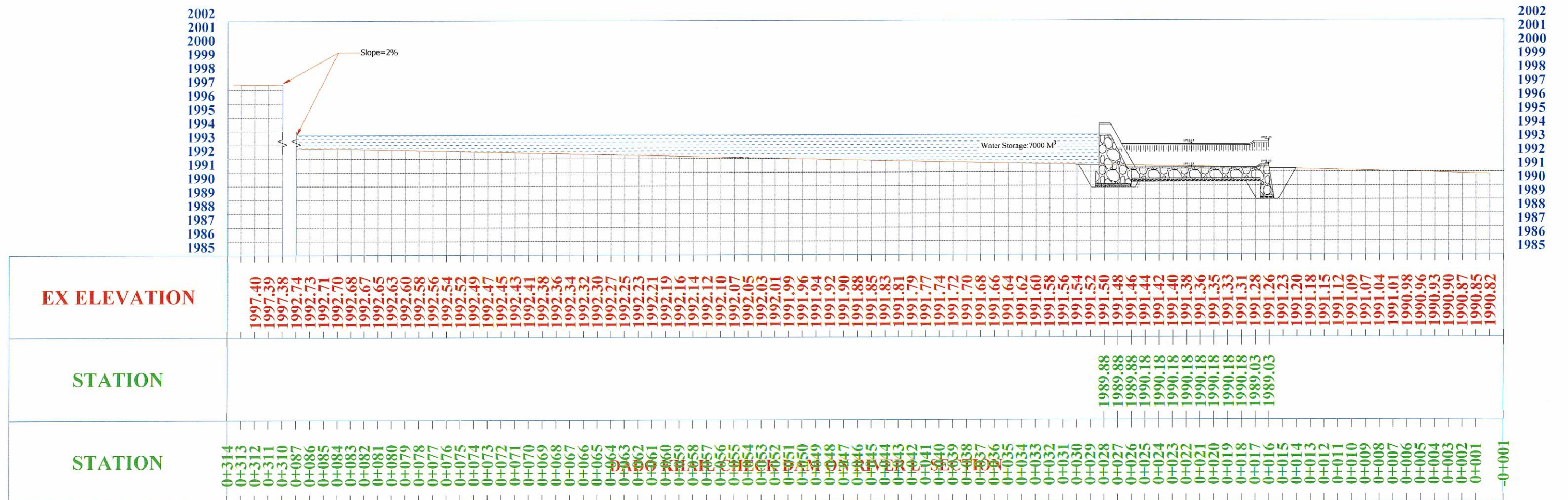


DADO KHAIL CHECK DAM ON RIVER X-SECTION AT CH:0+037.18



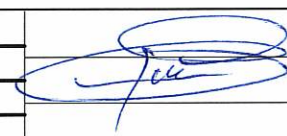
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	Implemented By	DACAAR	District	Center	Drawn & Designed by	Eng. Sayed Zaki Sadat				Drawing Title	LIST OF DRAWINGS
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DADO KHAIPROJECT PROFILE

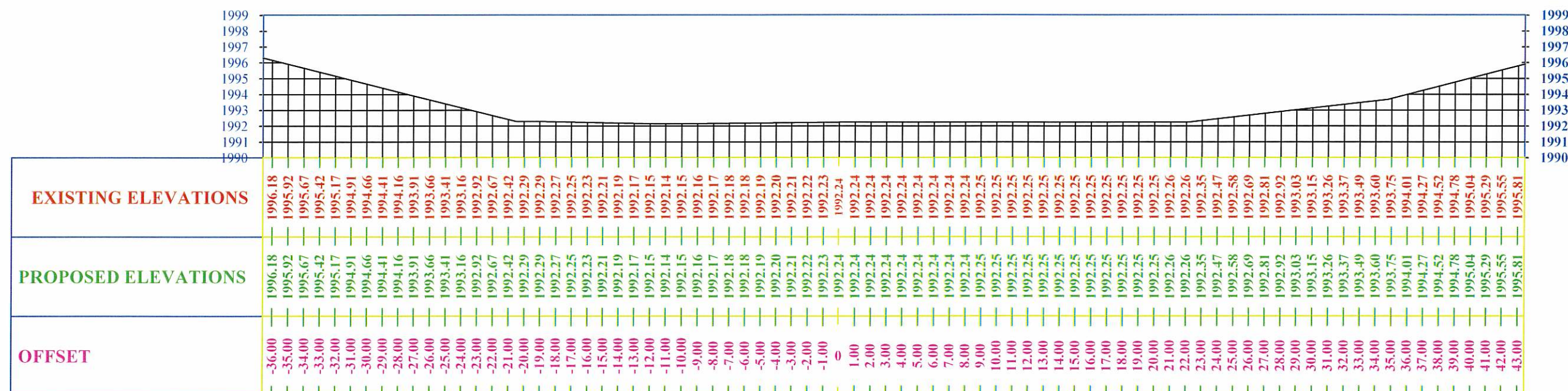


DADO KHAIL CHECK DAM ON RIVER L- SECTION

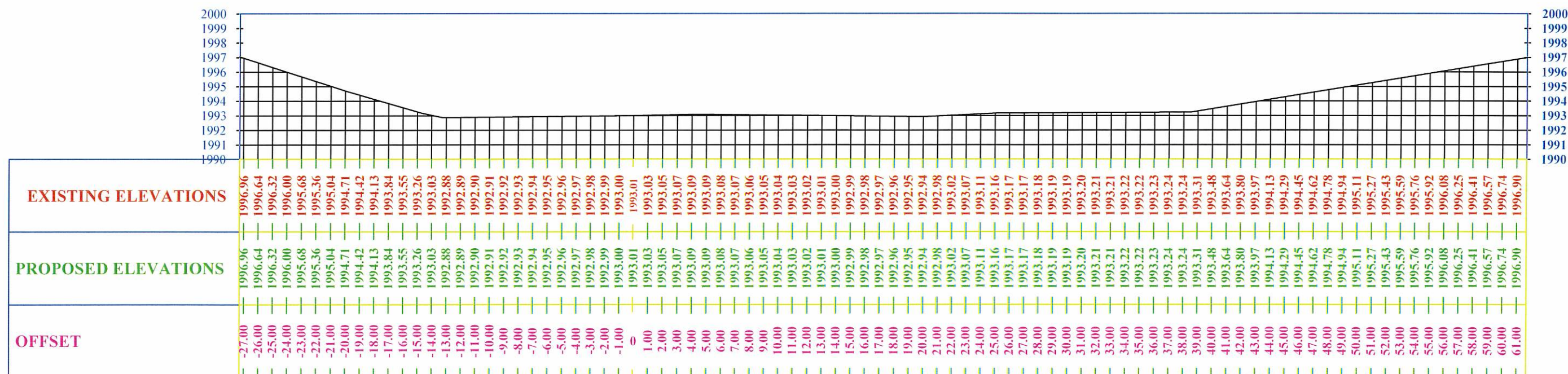


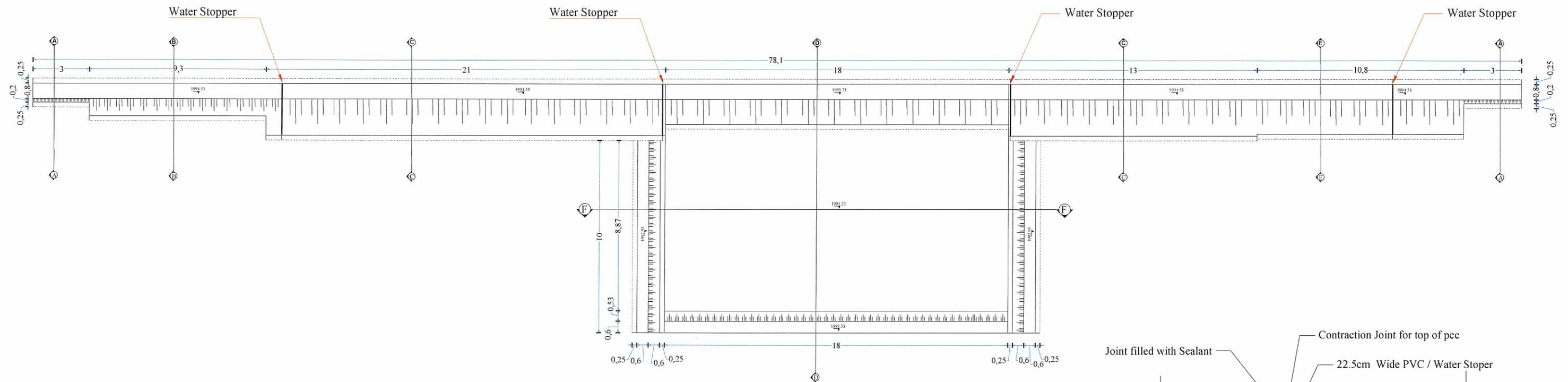
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0+062.39

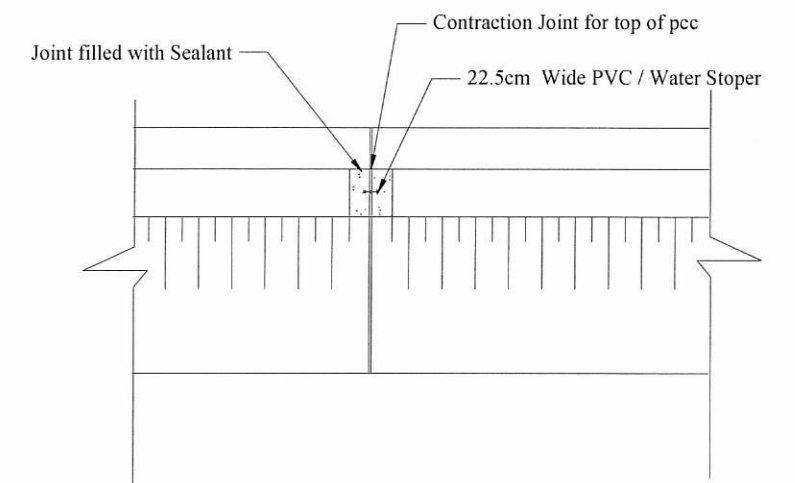


0+104.10





Plan Of Check Dam



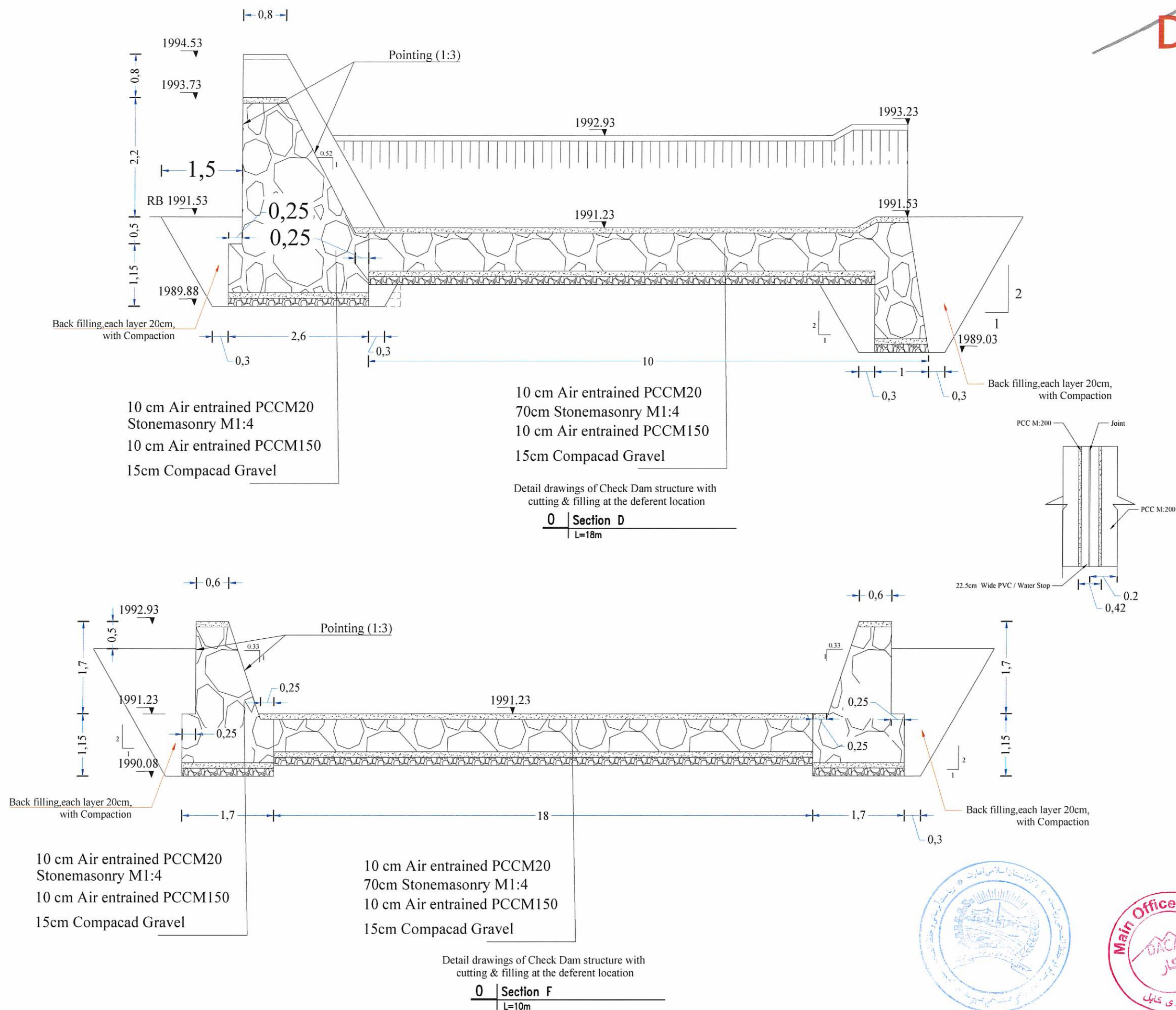
Plan Of Expansion Joint

Note:

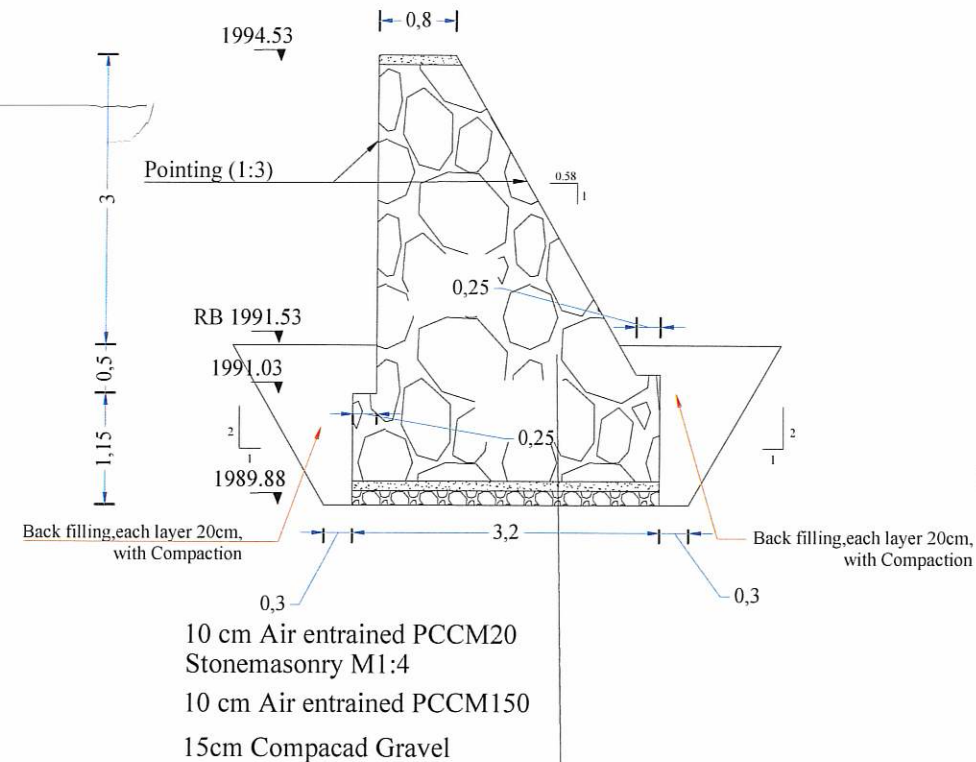
- All dimensions are in M.
- All Excavated material can be use it upstream and downstream faces fillings with 90% Compaction.
- Filling layers must not be Pave more than (15-20)cm thickness.



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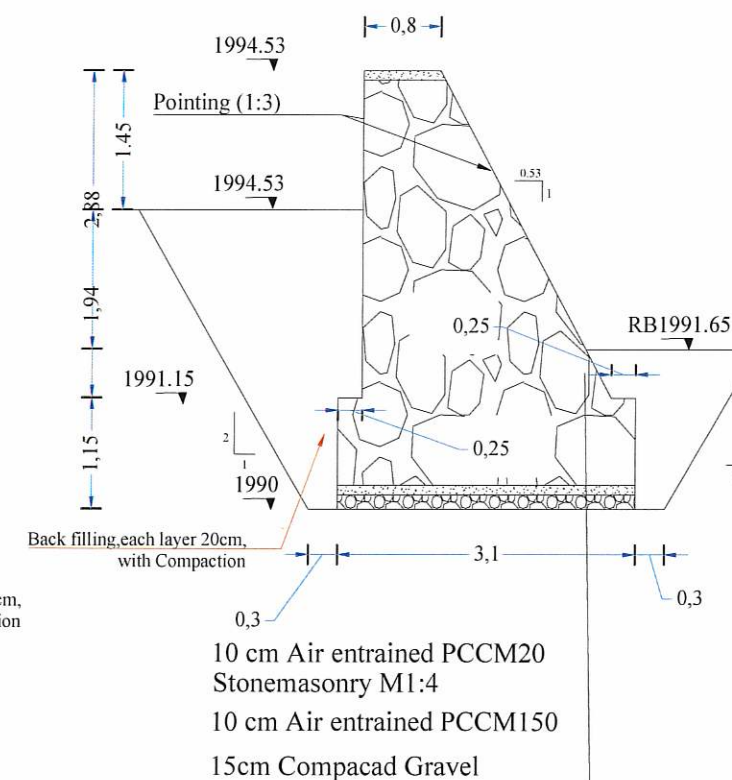


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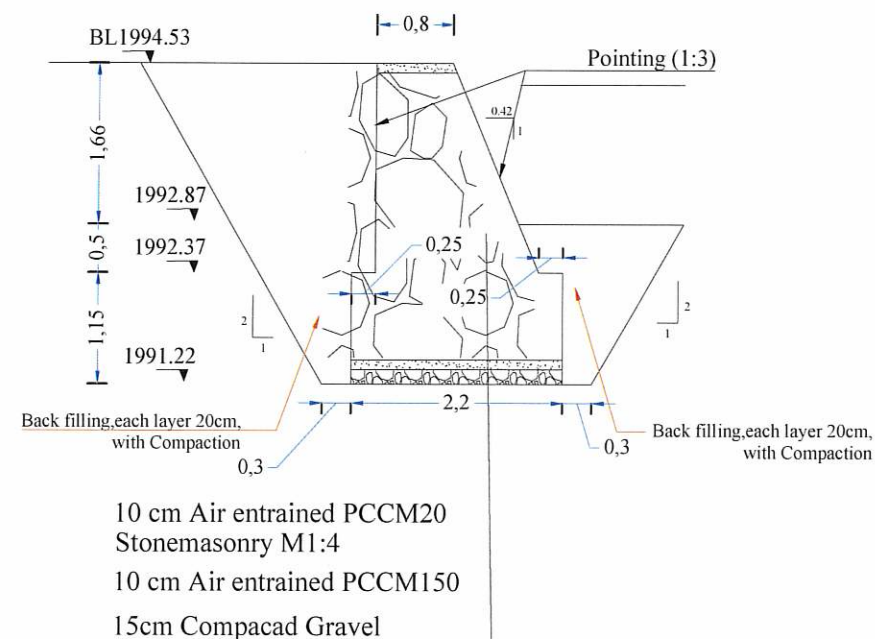
Detail drawings of Check Dam structure with cutting & filling at the deferent location

0 Section C
L=34m



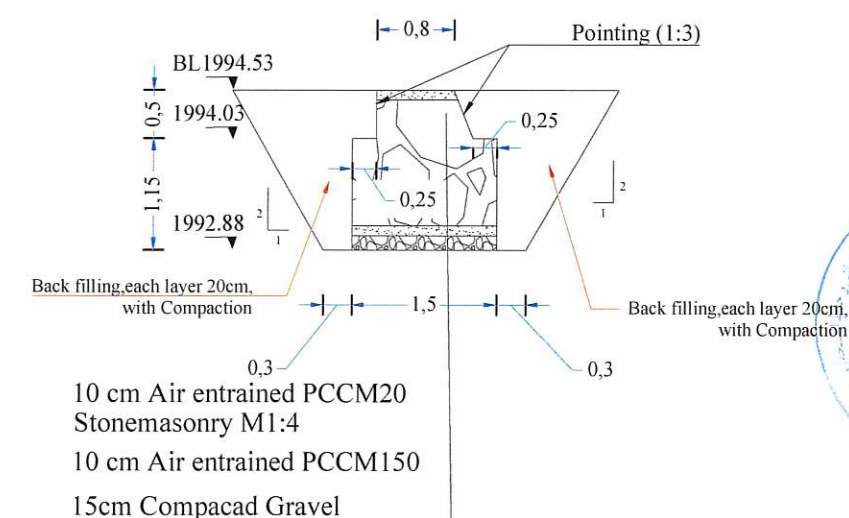
Detail drawings of Check Dam structure with cutting & filling at the deferent location

0 Section E
L=10.8m



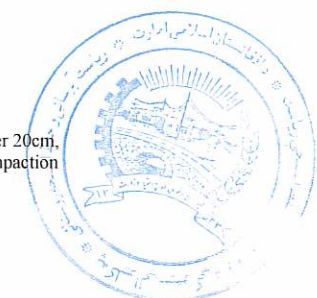
Detail drawings of Check Dam structure with cutting & filling at the deferent location

0 Section B
L=9.3m



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

0 Section A
L=6m



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