



REQUEST FOR PROPOSAL

CZ Chiller replacement feasibility study

Non Safety Related

Specification Number
SP-ES5139

KRŠKO NUCLEAR POWER PLANT

Revision 0
MAY 2026

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Date: 22/05/2026

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Date: 25/5/2026

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1 BACKGROUND

Modification 182-CZ-L removed original CZ system water cooled chillers installed inside CCB building and replaced them with air cooled units installed partially inside CCB and partially outside on yard. According to the USAR Section 3.2 Table 3-2-1 (sh 34 of 48) MCR HVAC chillers are classified to ANSI N18.2 as Safety class 3 and Seismic category I components, and therefore the whole chillers replacement modification is classified NUCLEAR SAFETY RELATED.

The installed air-cooled chiller units have a design life of 20 years, which will be reached within the next five years. Their current condition was assessed in analysis 2023-1081. The analysis concludes that, due to the extension of NPP operation from 2023 to 2043, continued operation of the existing chillers is no longer sustainable because of spare-parts obsolescence and an increased frequency of failures leading to inoperability. Therefore, a decision was made to replace the existing air-cooled units. The replacement is planned within the next five years to ensure safe and reliable operation during the extended plant lifetime.

This specification sets forth the scope of services to conduct a feasibility study identifying optimal solution for replacement of three existing air-cooled chiller units in next five years. The cooling system **shall be designed primarily for maximum robustness, long service life, and high reliability.**

2 SCOPE OF SERVICES

The Contractor's scope of services is to conduct a feasibility study identifying different types and variations of types of chillers with maximum reliability and robustness. All the solutions must have operating experience in other facilities to be able to prove their long-term reliability and operation (avoiding first of a kind). Proposals also must obey space limitations inside CCB building and outside on yard.

The final report shall be developed based on the completion of the following tasks:

Task 1: Familiarize with currently installed system that is to be replaced

- a) Gain knowledge of existing system through available documentation (drawings)
- b) Human machine interface of currently installed system
- c) Perform walkdown to confirm equipment AS build status in walkdown report
- d) Define maximum possible dimensions of equipment with no or minimum interferences to existing systems

Task 2: Installations of chillers in other NPPs during last 10 years

Identify heat sink, type, manufacturer, and safety classification, for a minimum of 10 chiller units installed in other NPPs over the past decade. Evaluate established manufacturers with demonstrated expertise in high-quality chiller production. Address the availability of spare parts and service technicians, as well as the responsiveness of technical support in the event of equipment malfunction.

Task 3: Comparison of different chiller type/options with below parameters with aim to define best possible option/type:

Different safety classification options:

- Original Safety related
- Commercial grade dedicated

Equipment ability to do long-term work at different load levels:

- Absolute peak 100%
- Normal 50%
- Minimum 5-10%

Equipment ability to work in different environmental conditions:

- Extremely high temperature
- Extremely low temperature

Equipment vulnerability to:

- Ice formation
- Biological organisms
- Biological fouling
- High air humidity (corrosion)

The study shall define additional parameters for comparison. The parameters shall cover equipment vulnerability to potential flaws, extreme operating conditions, reliability and refrigerant GWP (Global Warming Potential). Throughout study find (define) the best possible option to fit all requirements defined in this document and references. Before continuing further Tasks, decision shall be approved by NEK.

Task 4: Functional Description

Functional requirements for operating of best possible option (result of Task 3) shall be described:

- a) Marked-up system, layout and arrangement drawings or sketches to Identify location and extent of the design change (One line diagram, Flow diagrams, elementaries, piping layouts and isometrics)
- b) Preliminary list of affected design drawings and documents, vendor manuals, operating and surveillance procedures
- c) Operation requirements shall be screened, and impact of the potential design change shall be identified

Task 5: Required/needed human machine interface design changes

The existing affected Systems and Components HMI shall be evaluated and potential design changes identified. Ability of MCR and local control shall remain enabled.

Task 6: Estimate required time and cost for selected option (result of Task 3)

Estimate of engineering and installation man-hours and costs by discipline and craft, material and equipment costs. Estimate of the time required for completion of major milestones development of detailed design modification package installation and testing. Qualitative and quantitative benefits derived from the modification in comparison to currently installed equipment including cost-benefit analysis, operability, and maintainability.

3 SAFETY CLASSIFICATION OF SERVICES

This order is classified as Non Safety Related (NSR).

4 DESIGN INPUTS

The potential Contractor shall prepare the list of any necessary inputs (drawings, calculation notes, reports, documents, USAR sections) needed for performing the requested scope of work and include it in the proposal. NEK will inform the potential Contractor about availability of such documents from the list and terms under which they can be handed over, solely as required inputs for the scope of services. Please note that some of these documents may be available for review only at NEK premises.

Environmental conditions:

CCB environment:

CCB is mild ambient area properly heated and vented by plant VA system. There are no requirements from the environmental point of view related to design of components in the CCB.

Yard environment:

Units in the yard shall withstand the weather conditions of high temperature, sun, wind, rain, fog, snow and ice.

- low design temperature –28 °C (ref.: USAR 20.1.2.3),
- high design temperature 40 °C (ref.: USAR 20.1.2.3),
- 100% humidity due to the nearness of Sava River, fog and cooling towers,
- wind – velocity of 140 km/h

Seismic load:

Equipment shall be capable of withstanding the seismic load in accordance with SP-S702. Applicable floor response spectra can be found in Appendix 1 of this specification.

CZ system performance:

System capacity (reference D-302-841):

- Chilled water flow per chiller: 120.5 m³/h
- Return temperature: 12,2 °C (water inlet to evaporator),
- Discharge temperature: 7.2 °C (chilled water from evaporator).

Chilled water distribution for VA system (reference D-302-841):

- Main control room AHU: 52,3 m³/h
- Electrical rooms AHU: 43,2 m³/h
- Controlled access area AHU: 25,0 m³/h

Chillers capacity performance:

- Originally installed WESTINGHOUSE/McQuay type PE225 (operating with R12 refrigerant): cooling capacity 774 kW (equivalent to 220 tons)
- Replacement AAF/McQuay type ALS “E” XE 196.2 ST 134 (operating with R134a refrigerant): cooling capacity: 700 kW (equivalent to 199.2 tons) Currently operating chillers capacity (700 kW in relation to 775 kW to existing ones) has been analyzed by NEK and approved sufficient for all possible plant operation modes. Cooling capacity was re-evaluated inside technical report ESD-TR-17/02 (Emergency Diesel Generator Load List), its appurtenant analysis DC-ME-728-0001 rev.1 (Chiller Cooling Capacity Calculation) and CZ System Performance Diagrams developed during CZ system load monitoring stage. The new calculated and later by cooling load measurements confirmed the required CZ chillers cooling load shall be 185T (or 650 kW). Margine of 10% of cooling capacity shall also be addressed as design input for new chiller.

System output:

Modified CZ system shall operate with the existing CZ pumps CZ841PMP-01A, - 01B and -01C with the original chilled water flow 120,5 m³/h per unit and temperatures (12.2 °C inlet, 7.2 °C outlet).

VA system performance:

- Main control room AHU units A and B VA531AHU-01A and -01B use 52,3 m³/h of chilled water at 7,2 °C. They discharge normally 45050 m³/h of conditioned air to MCR

(reference D-912-531),

- Electrical rooms AHU units A and B VA541AHU-01A and - 01B use 43,2 m³/h of chilled water of at 7,2 °C. They discharge normally 37400 m³/h of conditioned air to electrical rooms (reference D-912-541),
- Controlled access area AHU VA561AHU-001 uses 25,0 m³/h of chilled water at 7,2 °C and normally discharges 4020 m³/h of conditioned air for CAA (reference 912-561).

System output:

The existing operating performances of VA system shall remain not changed working with modified CZ chilled water system.

Electrical systems performances:

- a) The new chiller unit CZ841CHL-01A and its associated pump shall be powered from the same source as existing chiller - Train A 400VAC switchgear EE104SWGLD11, unit 3A, and via local MCC unit EE106PNLR102. The MCC will be replaced with a new, dedication qualified, unit. The new total power load per unit is 275kW.
- b) The new chiller unit CZ841CHL-01B and its associated pump shall be powered from the same source as existing chiller - Train B 400VAC switchgear EE104SWGLD21, unit 3A, and via local MCC unit EE106PNLR302. The new total power load per unit is 275kW.
- c) The new chiller unit CZ841CHL-01C and its associated pump shall be powered from the same sources as existing chiller - Train A 400VAC source is switch gear EE104SWGLD11, unit 4C or Train B 400VAC source is switchgear EE104SWGLD21, unit 4D via the existing train selection / transfer switch EE903SWG002 and MCC unit EE106PNLR502. The new total power load per unit is 275kW.

Available input documents:

- SP-B503A, New Replacement Air Cooled CZ Water Chillers
- DSP-B504, Chilled Water Generating and Distributing System Piping Design/Stress analysis Specification
- DCM-SD-040, Chilled Water Generating and Distributing System-System Design Description
- DCM-SD-073, Essential Service Water System-System Design Description
- NEK USAR
- NEK Technical Specification
- NEK Fluid System Diagrams: D-302-841, D-302-252, D-302-152, D-912-531, D-912-541.
- NEK Piping Layout Drawings E-304-841 to 843, E-304-251 to 253
- NEK Equipment Arrangement Drawings E-004-009, 010, 200, 201, 202, 231, 233
- NEK Electrical Drawings CZ, ESW & EE Systems series 200 to 215
- NEK System Functional Diagrams B-802-840; pages 1 – 5
- NEK Instrument Loop Diagrams (B-808-840; pages 1 to 3 & B-808-250 page 4)
- NEK Process Information System Diagrams; series 816
- SU-CZ-01 "Start-up postopek za CZ sistem"
- SOP-3.2.214 Hladična voda za prezračevalni sistem kontrolne zgradbe (CZ Chilled Water System)
- SOP-3.2.108 Sistem bistvene oskrbne vode (ESW)
- NEK Databases MECL, DCM, WOS Data Base,

- DC-ME-611-1001, ESW System Original Hydraulic Calculation
- SCALC-M-SW-001, ESW Thermal Analysis
- Calc. No. 611-2, ESW System Flow Distribution
- VA72841, Chilled Water Generating and Distributing System Calculation
- ESD-TR-17/02, Emergency Diesel Generator Load List
- SP-G438, Grelniki zraka za ogrevanje CZ hladilne enote pri temperature zraka nižji
- NP-5652, Guideline for the Utilisation of Commercial Grade Items in Nuclear Safety Related Applications
- NP-6406, Guideline for the technical evaluation of the replacement items in Nuclear Power Plants
- 3002008014, Chiller Replacement Guideline for Nuclear Power Plants
- TR-107330, Generic Requirements Specification for Qualifying a Commercially Available PLC for Safety-Related Applications in Nuclear Power Plants
- TR-105951, Electric Chiller Handbook

5 APPLICABLE DESIGN CONTROL PROGRAM

All services shall be provided according to Chapter 6 and applicable Contractor's quality assurance program. If Contractor does not have such design control program, the NEK quality assurance program must be applied.

6 APPLICABLE CODES, STANDARDS, AND DESIGN CRITERIA

10CFR50 Appendix A, General Design Criteria

Modification shall meet the requirements of 10CFR Part 50, Appendix A, General Design Criterion GDC 19, and NEK USAR to permit access and occupancy of the Main Control Room under the postulated accident conditions. The system shall continuously supply chilled water to HVAC cooling coils under normal, post-accident and loss of off-site power conditions.

7 AFFECTED SYSTEMS

CZ (Chilled Water System)

EP (Electrical Systems)

ES (Electrical Control System)

8 IDENTIFICATION OF AFFECTED EQUIPMENT

Chiller CZ841CHL01A

Chiller CZ841CHL01B

Chiller CZ841CHL01C

9 REVIEW AND/OR VERIFICATION OF SERVICES

NEK will perform internal preliminary and final review. The Contractor shall prepare response to preliminary review, comment it and take it into full consideration as part of the contracted services.

10 SCHEDULE

Item	Requirement	Schedule
Phase 1	Walkdown report to confirm as build of installed equipment	T0 + 2 months
	NEK review and approval	T0 + 2 months+2 weeks
Phase 2	Technical report (task 3 completed)	T0 + 3 months
	Technical report (task 3 completed) NEK review and approval	T0 + 3 months+2 weeks
Phase 3	Final technical report	T0 + 5 months
	Final technical report NEK review and approval	T0 + 5 months + 2 weeks

T0 - date of contract signature by both parties

All above deliverables shall be completed and submitted to NEK for review. NEK will formally respond with comments and/or acceptance to each technical report within two weeks.

11 STATUS REPORTING REQUIREMENTS

Regular communication will be used during the project. The communication channels are going to be defined for the kick-off meeting. Formal status reports are not required.

12 NEK RESPONSIBILITIES

NEK will provide documents according to Section 4 of this technical specification

13 WORK SCOPE CHANGES

The Contractor shall notify NEK about any required scope change, including the reasons for such request.

NEK shall provide a formal response within eight working days.

14 DELIVERABLES

The Contractor shall prepare and hand over the following deliverables:

Deliverable Item:	No. of hard copies	No. of el. copies (docx and pdf format)
Walkdown Report	1	1
Final Technical Report	1	1

All deliverables must be reviewed and approved by NEK. NEK will formally review and comment on any of deliverables within one month. Contractor shall resolve all open items based on NEK comments. Each deliverable shall be issued in two 1 month after

obtaining NEK approval. All documentation shall be written in English. Electronic versions shall be provided in MS Word (.docx) format, as well as searchable Adobe Acrobat (.pdf) format.

15 RECORDS

Not applicable.

16 NEK CONTACTS

Contractor shall co-ordinate all technical and scheduling matters with the assigned NEK project manager and responsible engineer.

NEK technical contacts:
Responsible engineer:

Mitja Trefalt
Phone: ++ 386 7 4802 613
E-mail: mitja.trefalt@nek.si

Deputy Responsible engineer:

Robert Rostohar
Phone: ++ 386 7 4802 948
E-mail: robert.rostohar@nek.si

17 CONTRACTOR TECHNICAL APPROACH

Not applicable.

18 ACCESS TO CONTRACTOR FACILITY AND DOCUMENTS

Not Applicable.

19 SUBCONTRACTED WORK

The Contractor shall not subcontract any portion of the required services without the written approval of the NEK. Subcontractors will be required to be technically qualified to satisfy all NEK criteria.

20 QUALITY ASSURANCE REQUIREMENTS

All work shall be prepared according to Contractor's QA program.

21 NEK PROPRIETARY DATA

NEK has a proprietary interest in all drawings, design, specifications, documents, information and know-how that may be furnished pursuant contract execution. Also, NEK has a proprietary interest in any know-how, improvement, discovery, and invention which may be made, developed, or conceived in the performance of work hereunder or which

may arise or result therefrom (hereinafter collectively referred to as the "Information"). All such information shall be considered as a proprietary of NEK.

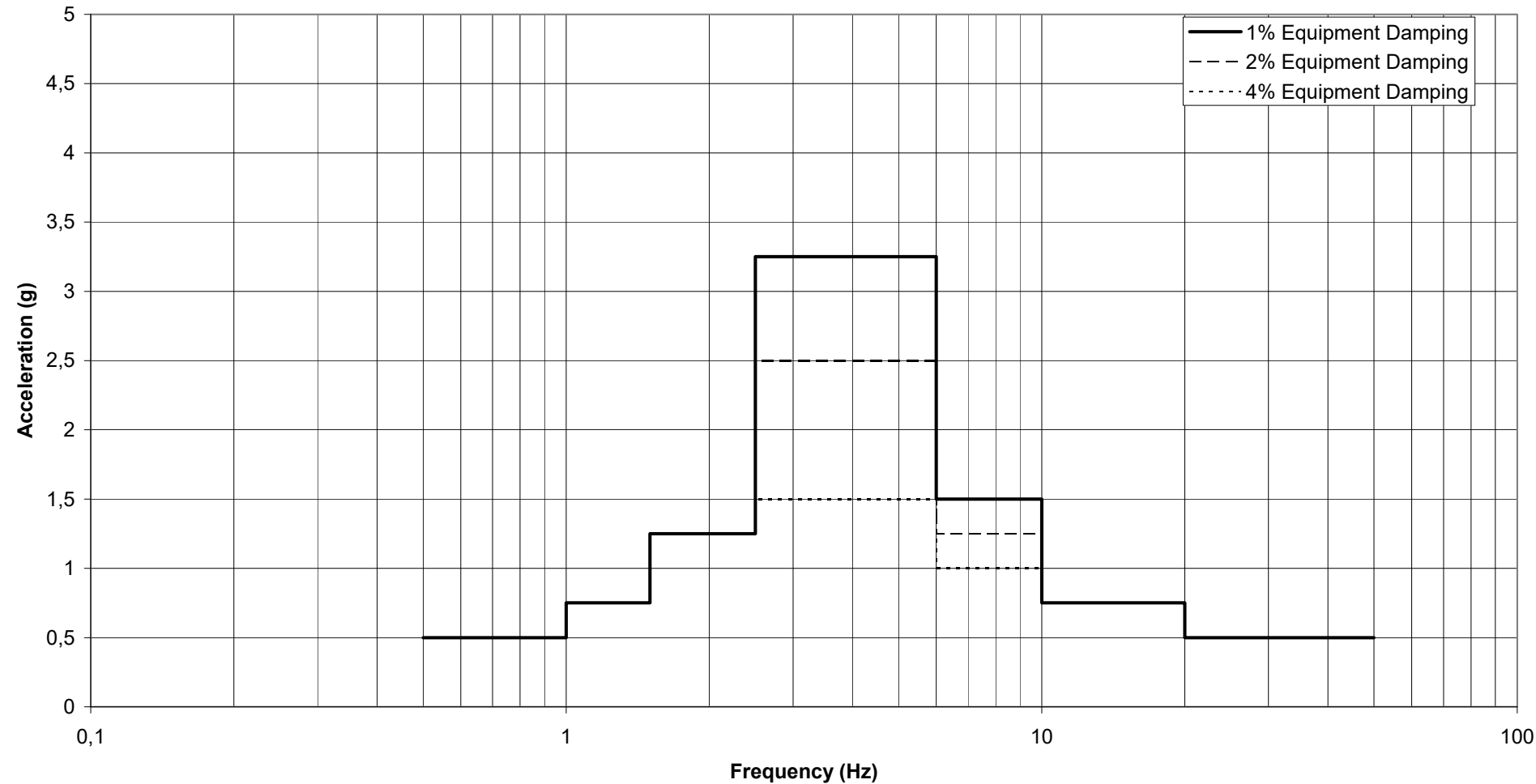
The right to use any such Information shall be restricted to the Contractor only, for its internal use, and shall be entirely tied to the performance of the Contract.

All such Information is subject to the confidentiality provision.

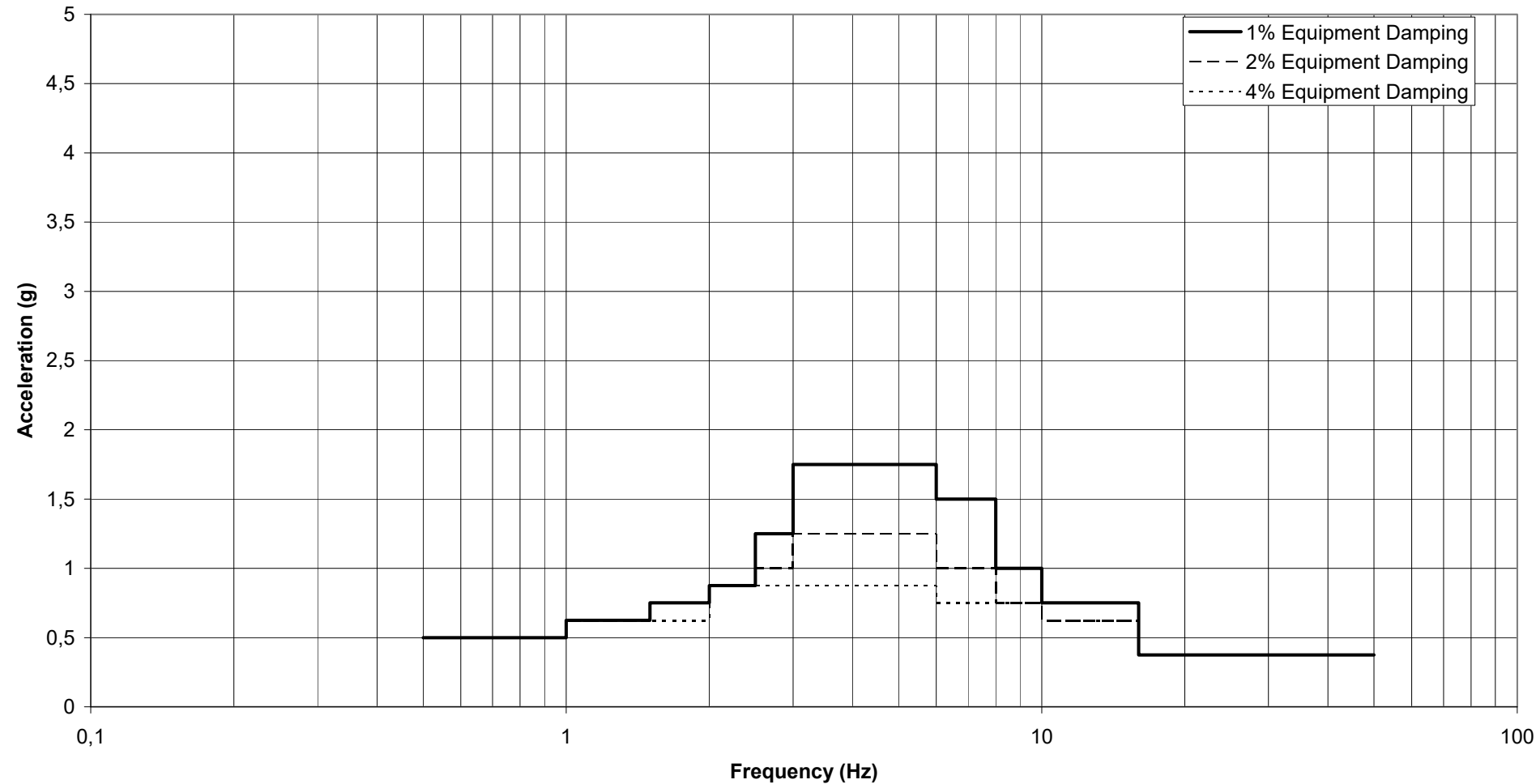
22 APPENDIX

- 22.1 Appendix 1: Applicable floor response spectra
- 22.2 Appendix 2: Applicable flow diagrams
- 22.3 Appendix 3: Applicable civil drawings
- 22.4 Appendix 4: Mechanical equipment drawings

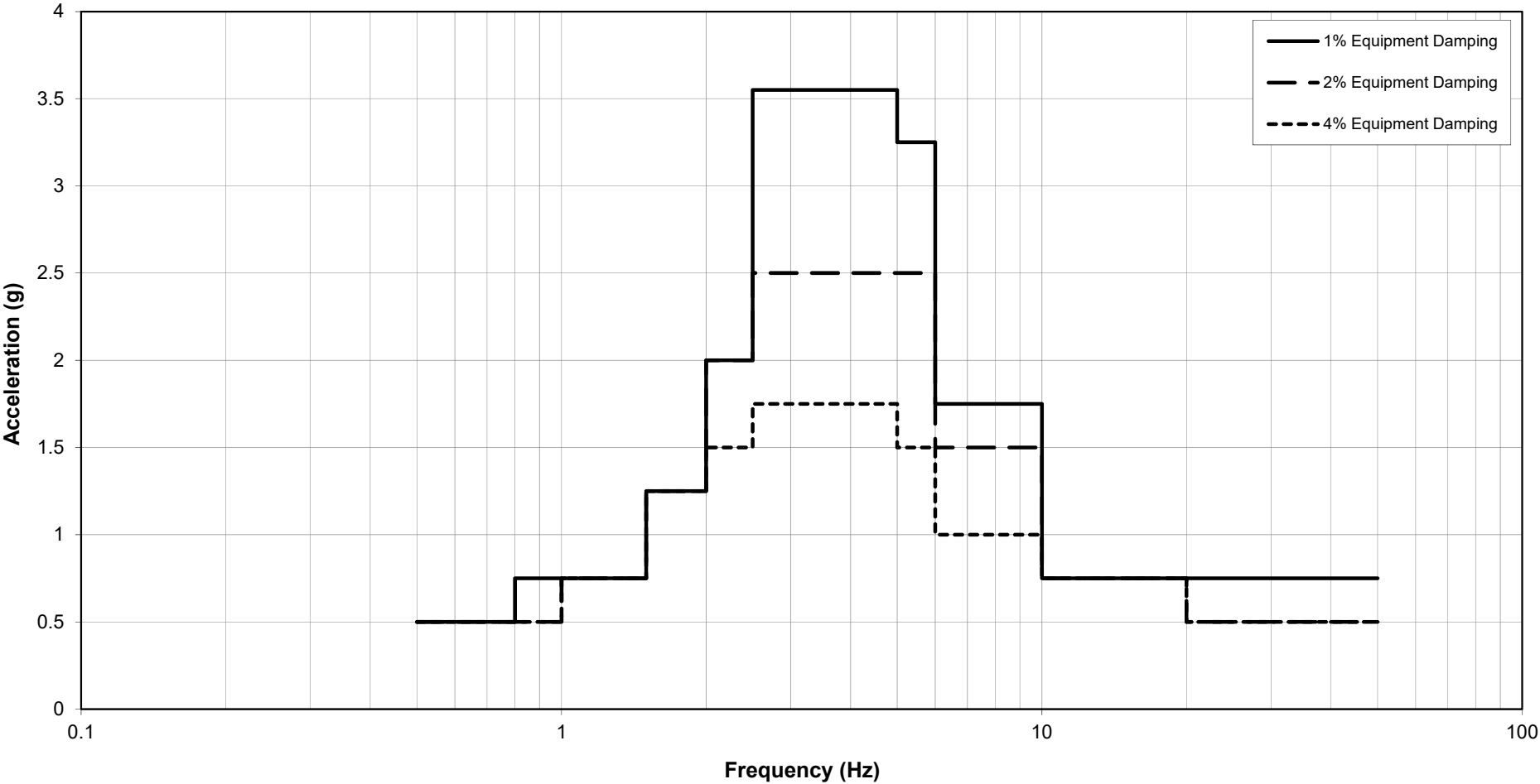
Krsko NPP
Floor Response Spectra
Auxiliary Building EL. 100.3 M
Horizontal OBE



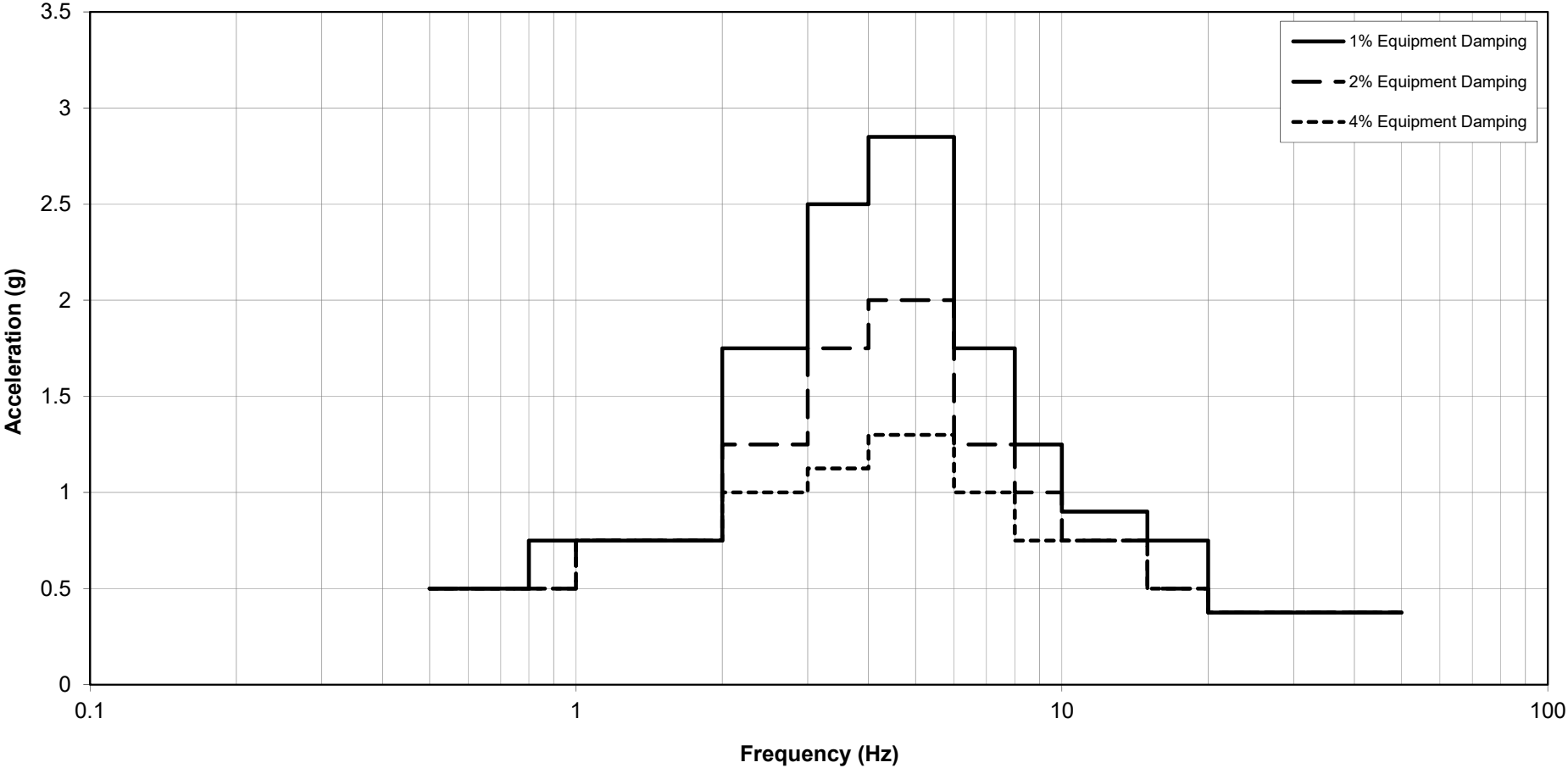
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Floor Response Spectra
Auxiliary Building EL. 100.3 M
Vertical OBE

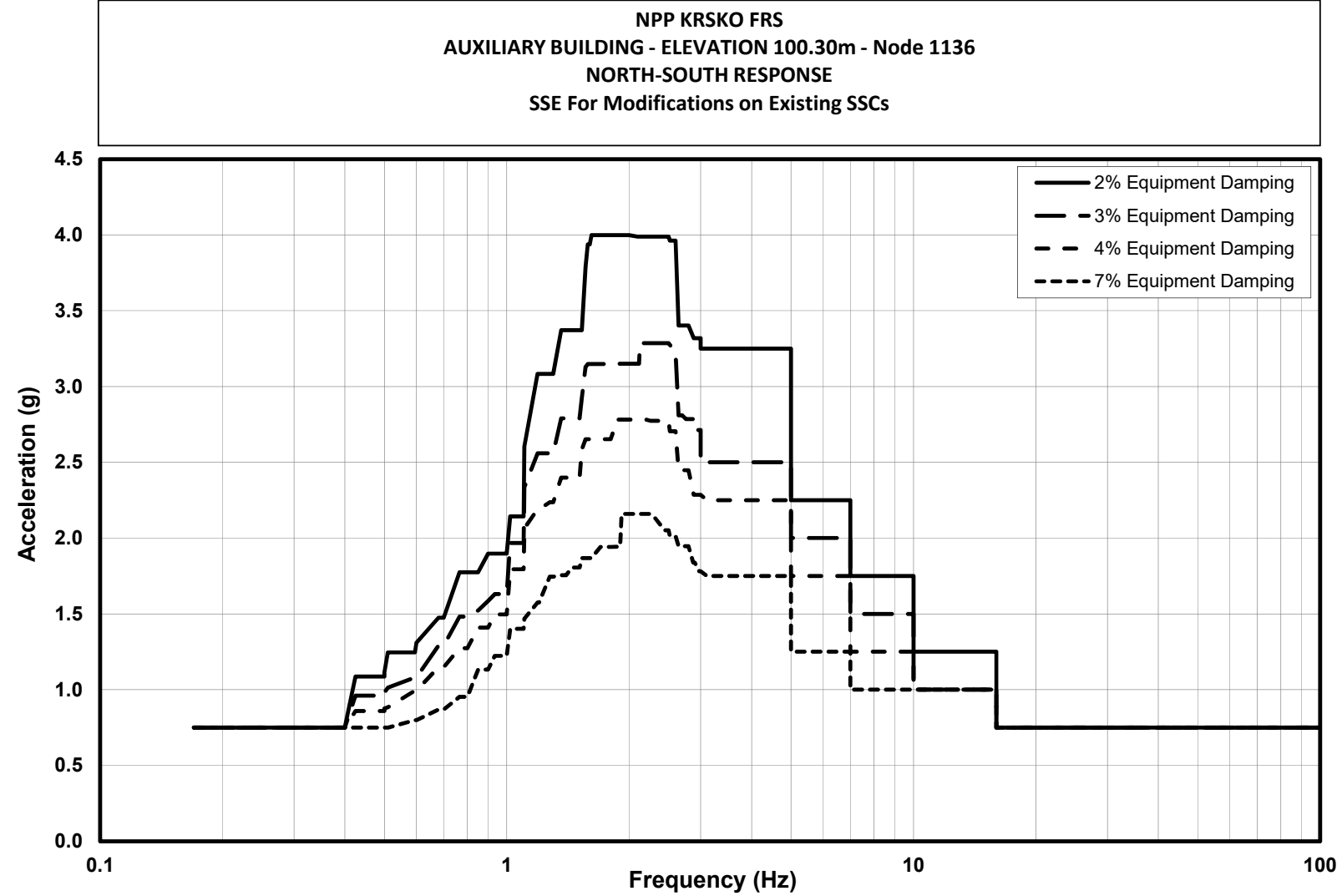


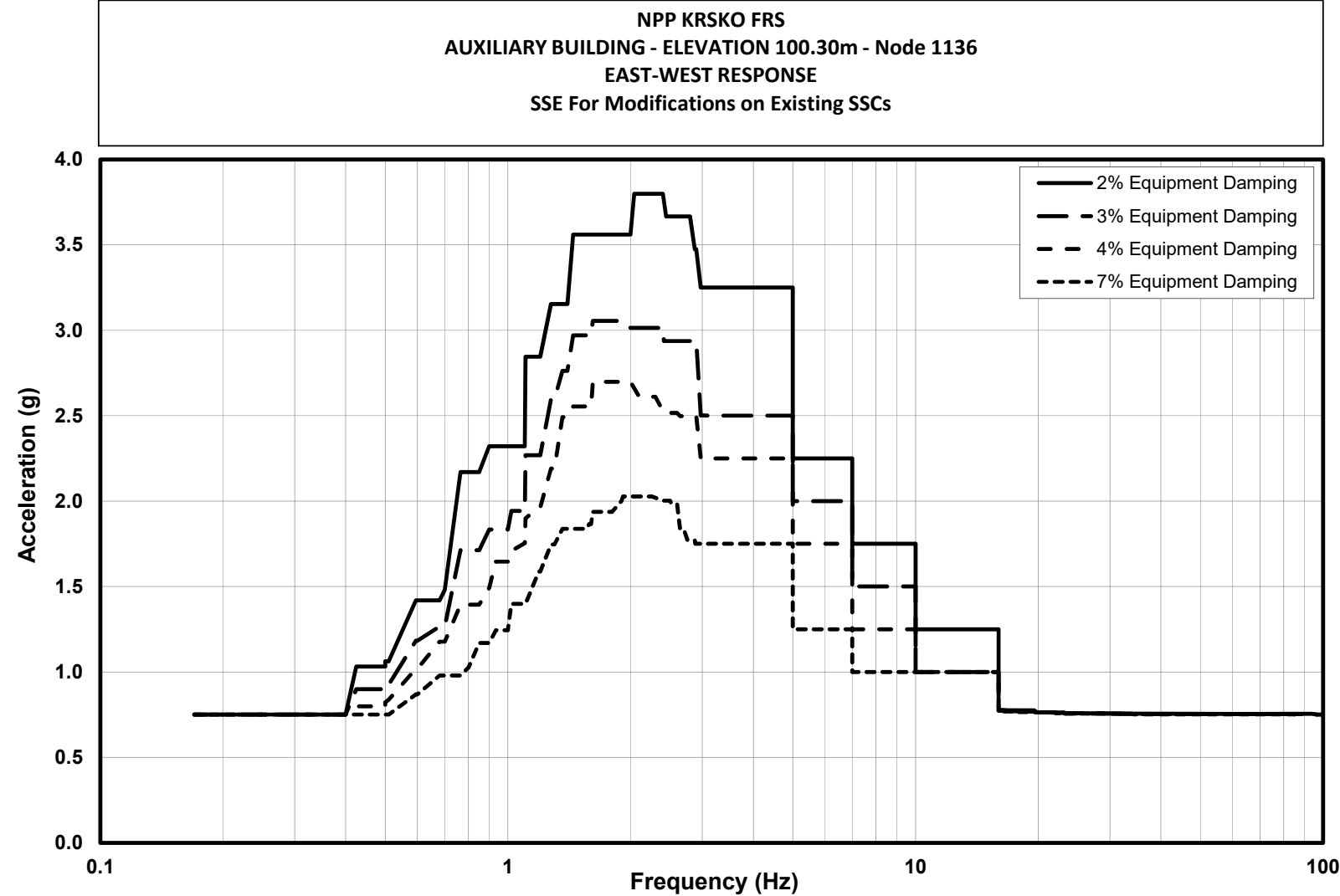
Krsko NPP
Ground Response Spectra EI 100.0 m
Horizontal OBE

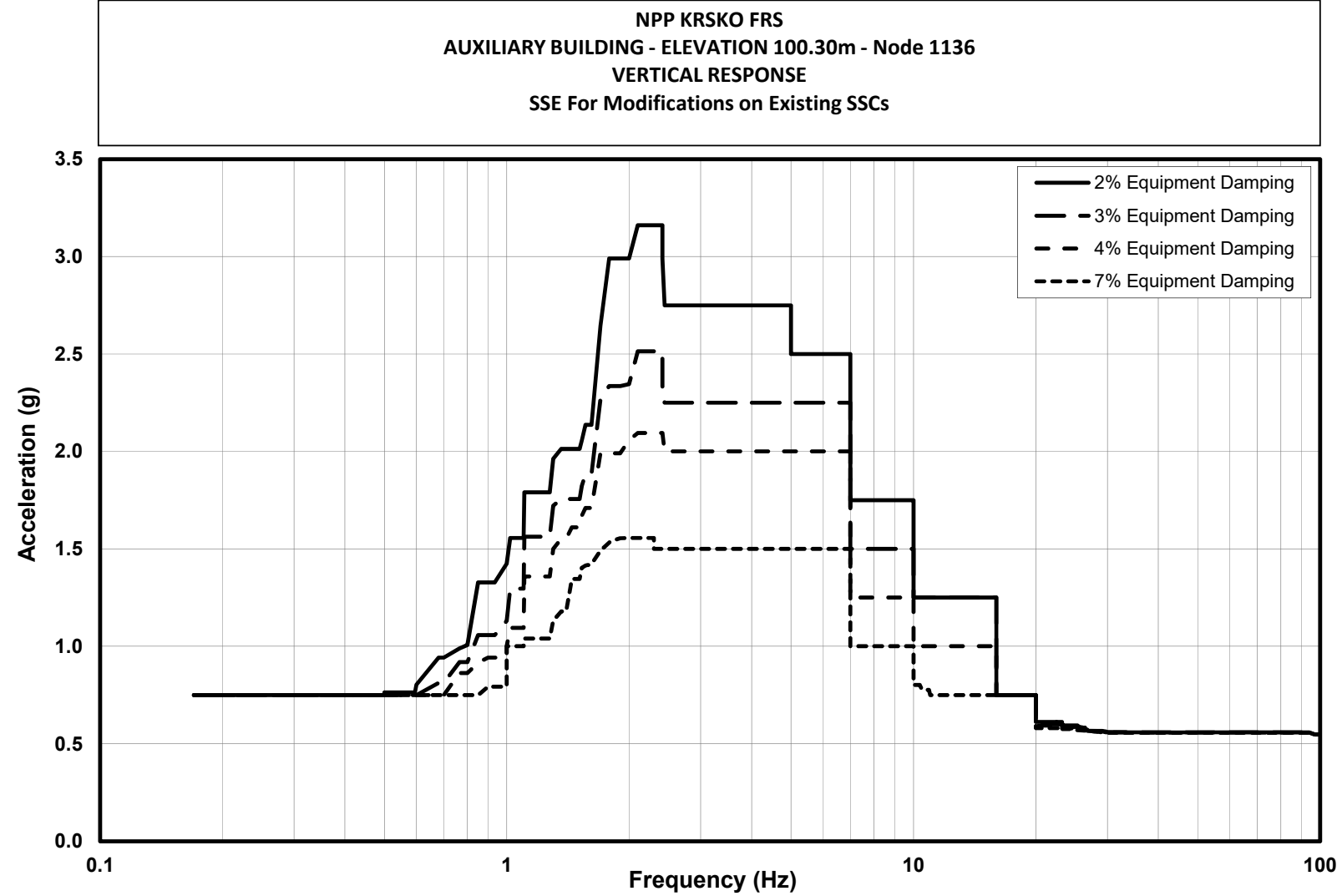


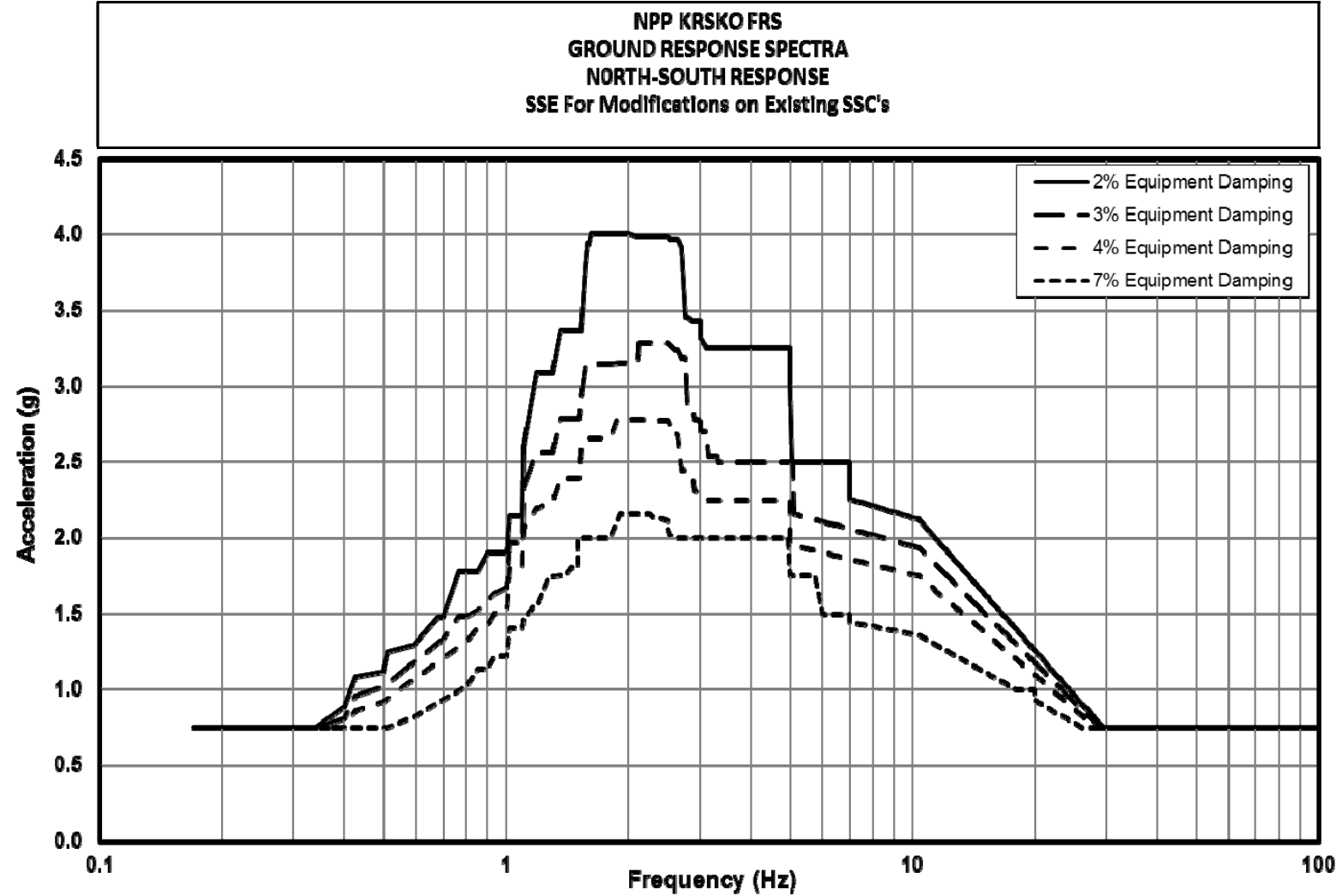
Krsko NPP
Ground Response Spectra EI 100.0 m
Vertical OBE

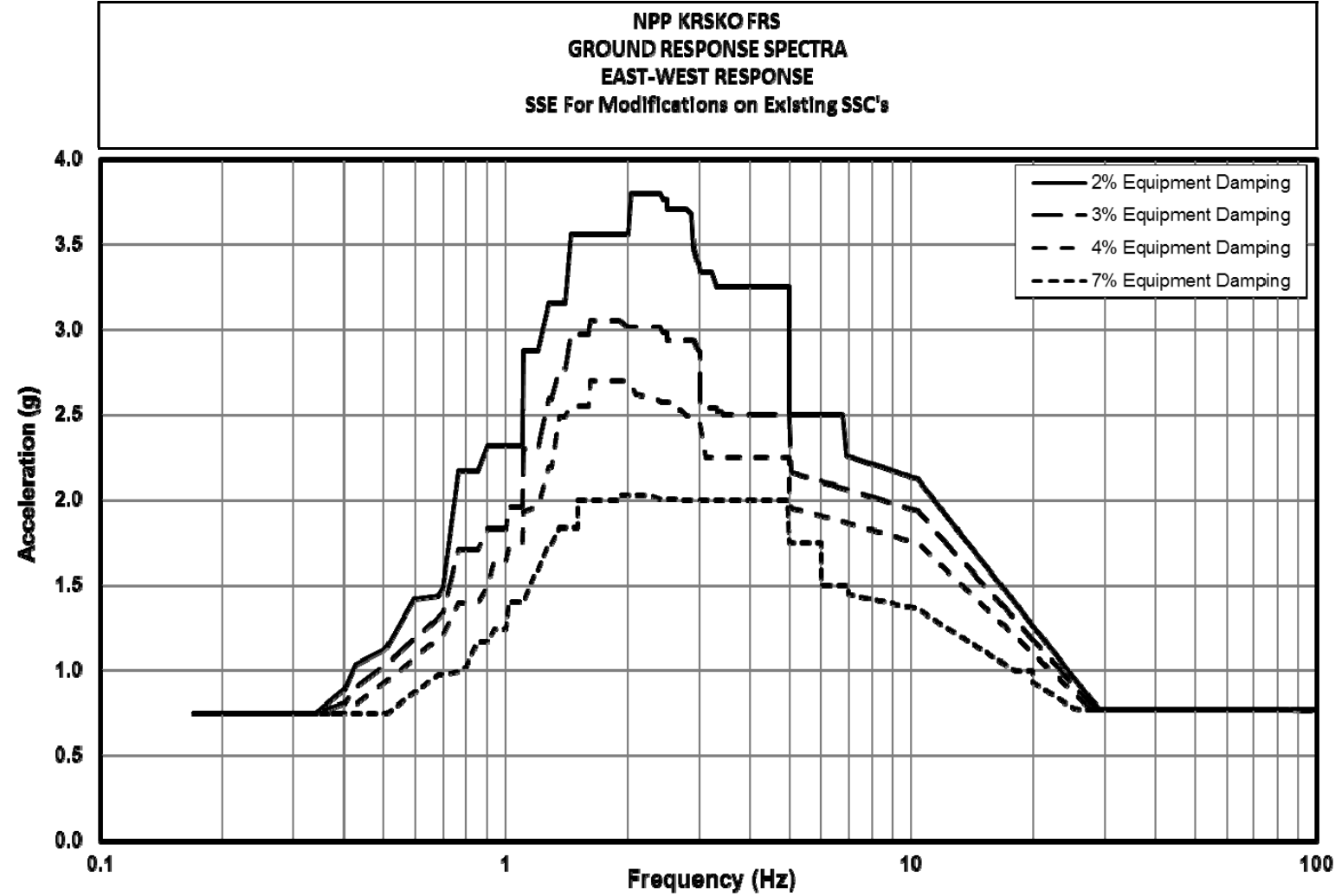


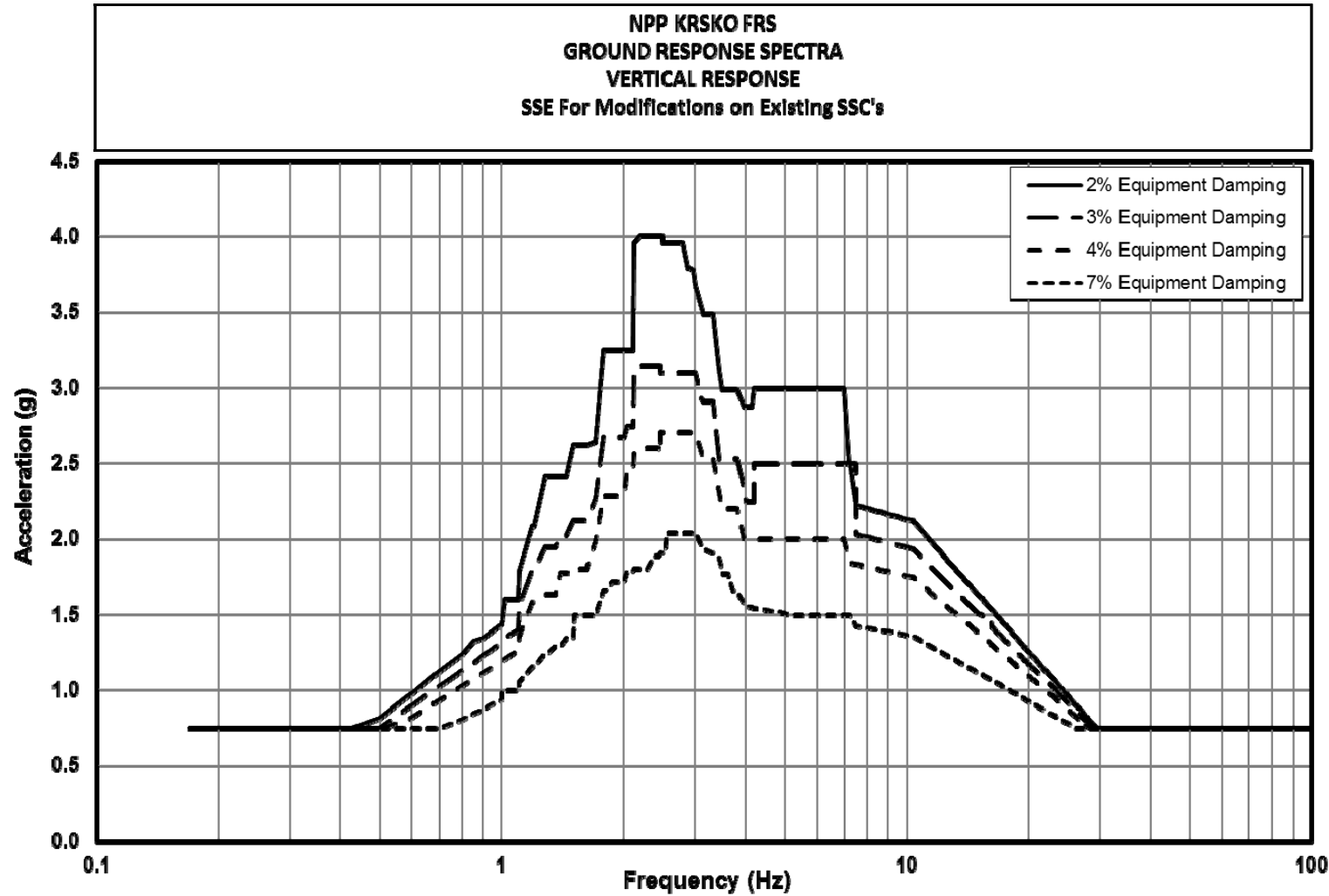












OPERATING DATA						
NORMAL						
#	FLOW M ³ /HR	PRESS. KG/CM ²	TEMP. °C	BY	REMARKS	REV
1	120.5	8.5	12.8			1
2	120.5	8.5	7.2			1
3	25.0	5.0	7.2			1
4	25.0	5.0	12.8			1
5	52.3	5.0	7.2			1
6	43.2	5.0	7.2			1
POST ACCIDENT						
#	FLOW M ³ /HR	PRESS. KG/CM ²	TEMP. °C	BY	REMARKS	REV
1	120.7	8.5	12.8			1
2	120.7	8.5	7.2			1
3	0	N.A.	N.A.			1
4	0	N.A.	N.A.			1
5	60.25	6.0	7.2			1
6	60.25	6.0	7.2			1

DESIGN DATA						
#	NORMAL PRESS. KG/CM ²	UPSET TEMP. °C	PRESS. KG/CM ²	TEMP. °C	TIME	BY
1	8.8	12.8	8.8	12.8		
2	8.8	7.2	8.8	7.2		
3	8.8	7.2	0.0	-		

REFERENCE	FUNCTIONAL DIAGRAM	LOOP DIAGRAM
A	802-840	808-840
B	802-840	808-840
C	802-840	808-840
D	802-840	808-840
E	802-840	-
F	-	808-840
G	-	808-840
H	-	808-840
I	-	808-840
J	802-840	808-840
K	802-840	808-840
L	802-840	808-840
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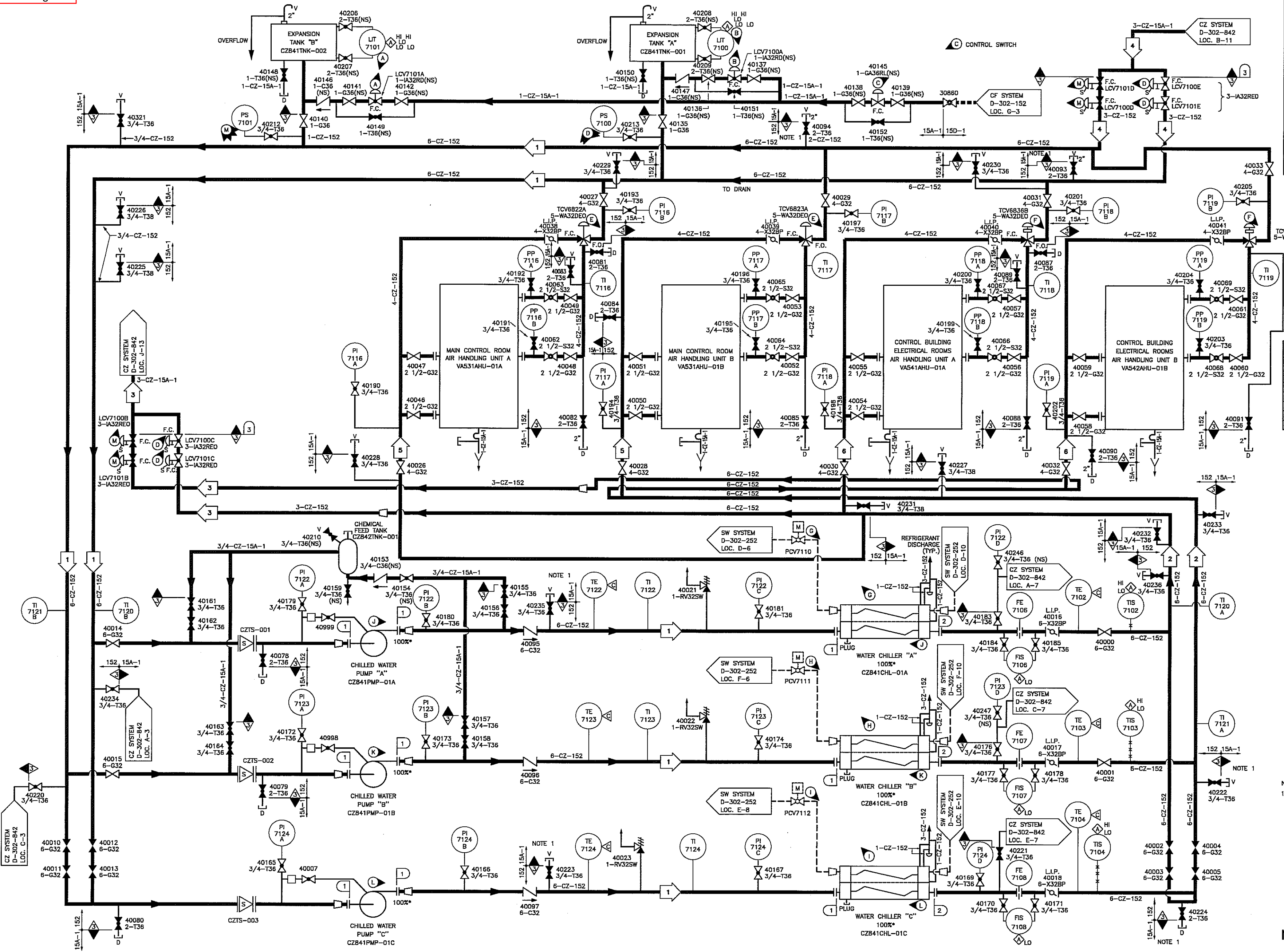
SEISMIC CATEGORY 1
SAFETY CLASS 3

NOTE:
1. PIPING DOWNSTREAM OF VENT OR DRAIN VALVES IS NOT REQUIRED TO BE SAFETY CLASS, ALTHOUGH INSTALLED PIPING & FITTINGS ARE SC-3.

Nuklearna Elektranja Krško
MASTER DOCUMENT
Date Received: 25-07-2006
Log Number: 35378

NUCLEAR SAFETY RELATED

NUKLEARNA ELEKTRARNA KRŠKO NUCLEAR POWER PLANT KRŠKO		
CZ FLUID SYSTEM DIAGRAM CHILLED WATER		
GENERATING AND DISTRIBUTION SYSTEM		
DESIGN ENGINEERING		
MADE	CHECKED	APPROVED
M. KODRČ	R.R. BREMS	K. NEMČIČ
REFERENCE DRAWINGS:		
D-302-841 CZ 07		
DRAWING NUMBER		



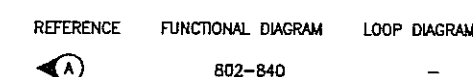
* 100% OF NORMAL LOAD

Original Design Firm: GAI-Gilbert Assoc. Inc.
Replaced Manual Drawing: D-302-841
Last Revision And Date: 2 06.1991

THIS IS A CAD DRAWING AND SHOULD NOT BE REVISED OR MODIFIED MANUALLY.

NO.	DATE	BY	REVISION	NO.	DATE	BY	REVISION
01	20.07.98	M.K.	REVISED FOR CHL-01A	02	20.07.98	M.K.	REVISED FOR CHL-01A
02	20.07.98	M.K.	REVISED FOR CHL-01A	03	20.07.98	M.K.	REVISED FOR CHL-01A
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12	20.07.98	M.K.	REVISED FOR CHL-01A	13	20.07.98	M.K.	REVISED FOR CHL-01A
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26	20.07.98	M.K.	REVISED FOR CHL-01A	27	20.07.98	M.K.	REVISED FOR CHL-01A
27	20.07.98	M.K.	REVISED FOR CHL-01A	28	20.07.98	M.K.	REVISED FOR CHL-01A
28	20.07.98	M.K.	REVISED FOR CHL-01A	29	20.07.98	M.K.	REVISED FOR CHL-01A
29	20.07.98	M.K.	REVISED FOR CHL-01A	30	20.07.98	M.K.	REVISED FOR CHL-01A
30	20.07.98	M.K.	REVISED FOR CHL-01A	31	20.07.98	M.K.	REVISED FOR CHL-01A
31	20.07.98	M.K.	REVISED FOR CHL-01A	32	20.07.98	M.K.	REVISED FOR CHL-01A
32	20.07.98	M.K.	REVISED FOR CHL-01A	33	20.07.98	M.K.	REVISED FOR CHL-01A
33	20.07.98	M.K.	REVISED FOR CHL-01A	34	20.07.98	M.K.	REVISED FOR CHL-01A
34	20.07.98	M.K.	REVISED FOR CHL-01A	35	20.07.98	M.K.	REVISED FOR CHL-01A
35	20.07.98	M.K.	REVISED FOR CHL-01A	36	20.07.98	M.K.	REVISED FOR CHL-01A
36	20.07.98	M.K.	REVISED FOR CHL-01A	37	20.07.98	M.K.	REVISED FOR CHL-01A
37	20.07.98	M.K.	REVISED FOR CHL-01A	38	20.07.98	M.K.	REVISED FOR CHL-01A
38	20.07.98	M.K.	REVISED FOR CHL-01A	39	20.07.98	M.K.	REVISED FOR CHL-01A
39	20.07.98	M.K.	REVISED FOR CHL-01A	40	20.07.98	M.K.	REVISED FOR CHL-01A
40	20.07.98	M.K.	REVISED FOR CHL-01A	41	20.07.98	M.K.	REVISED FOR CHL-01A
41	20.07.98	M.K.	REVISED FOR CHL-01A	42	20.07.98	M.K.	REVISED FOR CHL-01A
42	20.07.98	M.K.	REVISED FOR CHL-01A	43	20.07.98	M.K.	REVISED FOR CHL-01A
43	20.07.98	M.K.	REVISED FOR CHL-01A	44	20.07.98	M.K.	REVISED FOR CHL-01A
44	20.07.98	M.K.	REVISED FOR CHL-01A	45	20.07.98	M.K.	REVISED FOR CHL-01A
45	20.07.98	M.K.	REVISED FOR CHL-01A	46	20.07.98	M.K.	REVISED FOR CHL-01A
46	20.07.98	M.K.	REVISED FOR CHL-01A	47	20.07.98	M.K.	REVISED FOR CHL-01A
47	20.07.98	M.K.	REVISED FOR CHL-01A	48	20.07.98	M.K.	REVISED FOR CHL-01A
48	20.07.98	M.K.	REVISED FOR CHL-01A	49	20.07.98	M.K.	REVISED FOR CHL-01A
49	20.07.98	M.K.	REVISED FOR CHL-01A	50	20.07.98	M.K.	REVISED FOR CHL-01A
50	20.07.98	M.K.	REVISED FOR CHL-01A	51	20.07.98	M.K.	REVISED FOR CHL-01A
51	20.07.98	M.K.	REVISED FOR CHL-01A	52	20.07.98	M.K.	REVISED FOR CHL-01A
52	20.07.98	M.K.	REVISED FOR CHL-01A	53	20.07.98	M.K.	REVISED FOR CHL-01A
53	20.07.98	M.K.	REVISED FOR CHL-01A	54	20.07.98	M.K.	REVISED FOR CHL-01A
54	20.07.98	M.K.	REVISED FOR CHL-01A	55	20.07.98	M.K.	REVISED FOR CHL-01A
55	20.07.98	M.K.	REVISED FOR CHL-01A	56	20.07.98	M.K.	REVISED FOR CHL-01A
56	20.07.98	M.K.	REVISED FOR CHL-01A	57	20.07.98	M.K.	REVISED FOR CHL-01A
57	20.07.98	M.K.	REVISED FOR CHL-01A	58	20.07.98	M.K.	REVISED FOR CHL-01A
58	20.07.98	M.K.	REVISED FOR CHL-01A	59	20.07.98	M.K.	REVISED FOR CHL-01A
59	20.07.98	M.K.	REVISED FOR CHL-01A	60	20.07.98	M.K.	REVISED FOR CHL-01A
60	20.07.98	M.K.	REVISED FOR CHL-01A	61	20.07.98	M.K.	REVISED FOR CHL-01A
61	20.07.98	M.K.	REVISED FOR CHL-01A	62	20.07.98	M.K.	REVISED FOR CHL-01A
62	20.07.98	M.K.	REVISED FOR CHL-01A	63	20.07.98	M.K.	REVISED FOR CHL-01A
63	20.07.98	M.K.	REVISED FOR CHL-01A	64	20.07.98	M.K.	REVISED FOR CHL-01A
64	20.07.98	M.K.	REVISED FOR CHL-01A	65	20.07.98	M.K.	REVISED FOR CHL-01A
65	20.07.98	M.K.	REVISED FOR CHL-01A	66	20.07.98	M.K.	REVISED FOR CHL-01A
66	20.07.98	M.K.	REVISED FOR CHL-01A	67	20.07.98	M.K.	REVISED FOR CHL-01A
67	20.07.98	M.K.	REVISED FOR CHL-01A	68	20.07.98	M.K.	REVISED FOR CHL-01A
68	20.07.98	M.K.	REVISED FOR CHL-01A	69	20.07.98	M.K.	REVISED FOR CHL-01A
69	20.07.98	M.K.	REVISED FOR CHL-01A	70	20.07.98	M.K.	REVISED FOR CHL-01A
70	20.07.98	M.K.	REVISED FOR CHL-01A	71	20.07.98	M.K.	REVISED FOR CHL-01A
71	20.07.98	M.K.	REVISED FOR CHL-01A	72	20.07.98	M.K.	REVISED FOR CHL-01A
72	20.07.98	M.K.	REVISED FOR CHL-01A	73	20.07.98	M.K.	REVISED FOR CHL-01A
73	20.07.98	M.K.	REVISED FOR CHL-01A	74	20.07.98	M.K.	REVISED FOR CHL-01A
74	20.07.98	M.K.	REVISED FOR CHL-01A	75	20.07.98	M.K.	REVISED FOR CHL-01A
75	20.07.98	M.K.	REVISED FOR CHL-01A	76	20.07.98	M.K.	REVISED FOR CHL-01A
76	20.07.98	M.K.	REVISED FOR CHL-01A	77	20.07.98	M.K.	REVISED FOR CHL-01A
77	20.07.98	M.K.	REVISED FOR CHL-01A	78	20.07.98	M.K.	REVISED FOR CHL-01A
78	20.07.98	M.K.	REVISED FOR CHL-01A	79	20.07.98	M.K.	REVISED FOR CHL-01A
79	20.07.98	M.K.	REVISED FOR CHL-01A	80	20.07.98	M.K.	REVISED FOR CHL-01A
80	20.07.98	M.K.	REVISED FOR CHL-01A	81	20.07.98	M.K.	REVISED FOR CHL-01A
81	20.07.98	M.K.	REVISED FOR CHL-01A	82	20.07.98	M.K.	REVISED FOR CHL-01A
82	20.07.98	M.K.	REVISED FOR CHL-01A	83	20.07.98	M.K.	REVISED FOR CHL-01A
83	20.07.98	M.K.	REVISED FOR CHL-01A	84	20.07.98	M.K.	REVISED FOR CHL-01A
84	20.07.98	M.K.	REVISED FOR CHL-01A	85	20.07.98	M.K.	REVISED FOR CHL-01A
85	20.07.98	M.K.	REVISED FOR CHL-01A	86	20.07.98	M.K.	REVISED FOR CHL-01A
86	20.07.98	M.K.	REVISED FOR CHL-01A	87	20.07.98	M.K.	REVISED FOR CHL-01A
87	20.07.98	M.K.	REVISED FOR CHL-01A	88	20.07.98	M.K.	REVISED FOR CHL-01A
88	20.07.98	M.K.	REVISED FOR CHL-01A	89	20.07.98	M.K.	REVISED FOR CHL-01A
89	20.07.98	M.K.	REVISED FOR CHL-01A	90	20.07.98	M.K.	REVISED FOR CHL-01A
90	20.07.98	M.K.	REVISED FOR CHL-01A	91	20.07.98	M.K.	REVISED FOR CHL-01A
91	20.07.98	M.K.	REVISED FOR CHL-01A	92	20.07.98	M.K.	REVISED FOR CHL-01A
92	20.07.98	M.K.	REVISED FOR CHL-01A	93	20.07.98	M.K.	REVISED FOR CHL-01A
93	20.07.98	M.K.	REVISED FOR CHL-01A	94	20.07.98	M.K.	REVISED FOR CHL-01A
94	20.07.98	M.K.	REVISED FOR CHL-01A	95	20.07.98	M.K.	REVISED FOR CHL-01A
95	20.07.98	M.K.	REVISED FOR CHL-01A	96	20.07.98	M.K.	REVISED FOR CHL-01A
96	20.07.98	M.K.	REVISED FOR CHL-01A	97	20.07.98	M.K.	REVISED FOR CHL-01A
97	20.07.98	M.K.	REVISED FOR CHL-01A	98	20.07.98	M.K.	REVISED FOR CHL-01A
98	20.07.98	M.K.	REVISED FOR CHL-01A	99	20.07.98	M.K.	REVISED FOR CHL-01A
99	20.07.98	M.K.	REVISED FOR CHL-01A	100	20.07.98	M.K.	REVISED FOR CHL-01A

DESIGN DATA									
P	NORMAL		UPSET		TIME	BY	CHKD	REMARKS	RE
	PRESS KG/CM ²	TEMP °C	PRESS KG/CM ²	TEMP °C					
1	8.8	7.2	0.0	-					



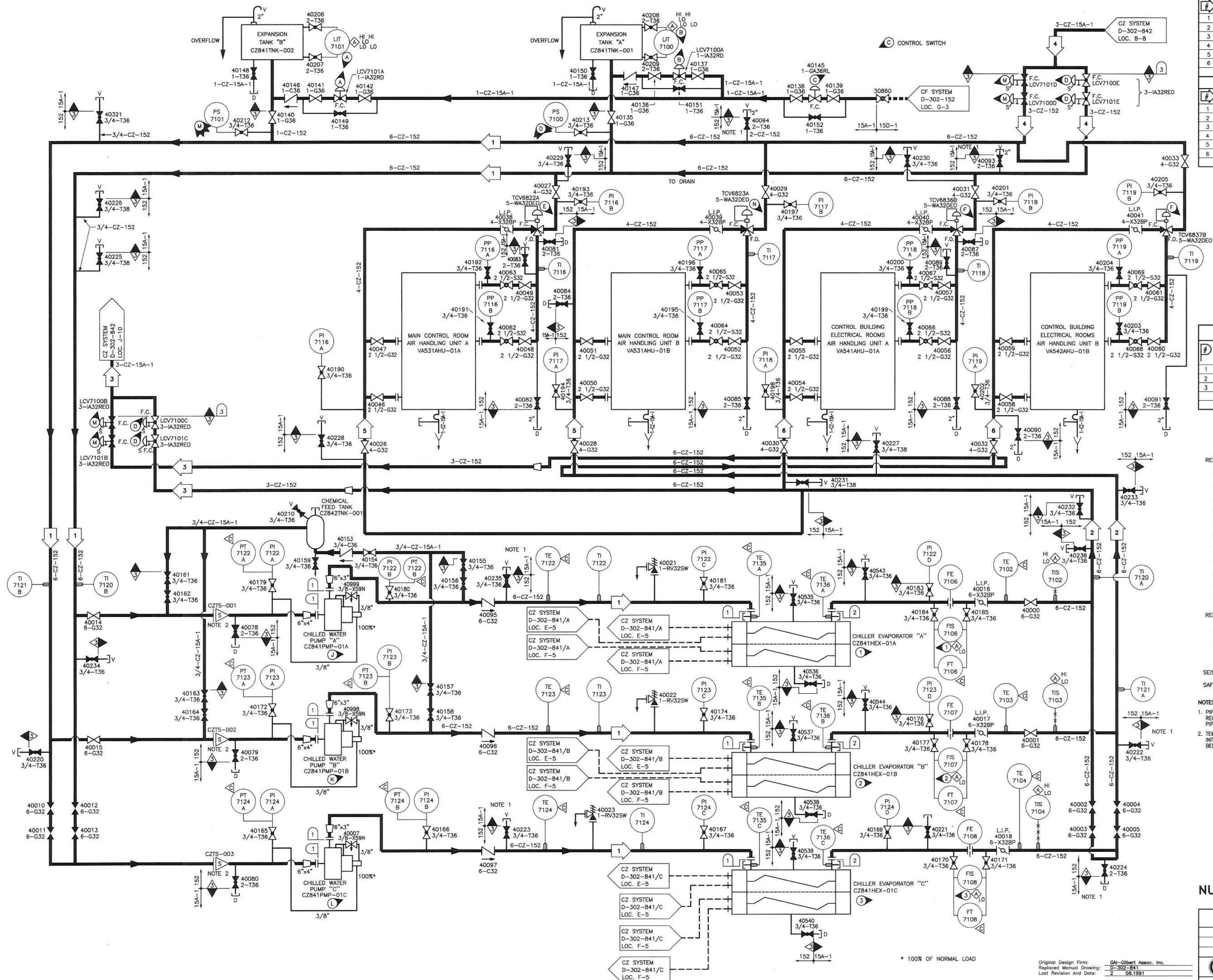
NUKLEARNA ELEKTRARNA KRSKO			
NUCLEAR POWER PLANT KRSKO			
CZ FLUID SYSTEM DIAGRAM			
CHILLED WATER			
GENERATING AND DISTRIBUTING SYSTEM			
 DESIGN ENGINEERING			
NUCLEAR POWER PLANT KRSKO			
MADE		CHECKED	
1. M. KODRČ		2. R. R. BREMS	
		3. K. NEMČOČ	
REFERENCE DRAWINGS:			
SCALE	D-302-842	CZ	06
DRAWING NUMBER		SYSTEM	SHEET REV

Original Design Firm: GAI-Gibert Assoc. Inc.
 Revised Manual Drawing: D-307-642
 Last Revision And Date: 2 06.1991

THIS IS A CAD DRAWING AND SHOULD NOT BE REVISED OR MODIFIED MANUALLY

NO.	DATE	BY	REVISION	CHKD BY
06	26.10.07	MJK	REV'D PER ISO 157-1W-L	PHL
09	09.06.03	MJK	REV'D PER EEAR 03-037 & 03-007	M.B. K.
16	16.05.89	F.J.	CADD VECTORIZATION	M.B. K.
18	19.07.95	M.K.	CADD CONVERSION FROM E2-D-302-642 REV'D	M.B. K.

AND ADDD SYSTEM (C2 & PIPE LINE SPEC.



OPERATING DATA

I	NORMAL					REV
	FLOW M ³ /HR	PRESS. KG/CM ²	TEMP °C	BY	REMARKS	
1	120.5	8.5	12.8			1
2	120.5	8.5	7.2			1
3	25.0	5.0	7.2			1
4	25.0	5.0	12.8			1
5	52.3	5.0	7.2			1
6	43.2	5.0	7.2			1

POST ACCIDENT

I	NORMAL					REV
	FLOW M ³ /HR	PRESS. KG/CM ²	TEMP °C	BY	REMARKS	
1	120.7	8.5	12.8			1
2	120.7	8.5	7.2			1
3	0	N.A.	N.A.			1
4	0	N.A.	N.A.			1
5	60.25	6.0	7.2			1
6	60.25	6.0	7.2			1

DESIGN DATA

I	NORMAL		UPSET		TIME	BY	REMARKS	REV
	PRESS. KG/CM ²	TEMP °C	PRESS. KG/CM ²	TEMP °C				
1	8.8	12.8	8.8	12.8				
2	8.8	7.2	8.8	7.2				
3	8.8	7.2	0.0	—				

REFERENCES	FUNCTIONAL DIAGRAM	LOOP DIAGRAM
A	802-840	808-840
B	802-840	808-840
C	802-840	808-840
D	802-840	808-840
E	801-530	807-530
F	802-840	—
G	802-840	808-840
H	802-840	808-840
I	802-840	808-840
J	802-840	808-840
K	802-840	808-840
L	802-840	808-840
M	802-840	808-840
N	801-530	807-530
REFERENCES	CONTROLLED BY	DRAWINGS
1	CZ100PLC01	816-641
2	CZ200PLC01	816-641
3	CZ300PLC01	816-641

SEISMIC CATEGORY 1

SAFETY CLASS 3

NOTES:

1. PIPING DOWNSTREAM OF VENT OR DRAIN VALVES IS NOT REQUIRED TO BE SAFETY CLASS, ALTHOUGH INSTALLED PIPING & FITTINGS ARE SC-3.
2. TEMPORARY STRAINER IS PLACED IN SPOOL PIECE DURING INITIAL FLUSHING OPERATIONS. STRAINER MUST BE REMOVED BEFORE NORMAL PLANT OPERATION.

Nuklearna Elektrarna Krško
MASTER DOCUMENT

Date Received: 04-02-2020

Log Number: 35378

NUCLEAR SAFETY RELATED

NUKLEARNA ELEKTRARNA KRŠKO		NUCLEAR POWER PLANT KRŠKO	
CZ FLUID SYSTEM DIAGRAM		CHILLED WATER	
GENERATING AND DISTRIBUTION SYSTEM		DESIGN ENGINEERING	
NUCLEAR POWER PLANT KRŠKO		KRŠKO, SLOVENIA	
MADE		CHECKED	
1. M. KODIČ		R.R. BREMS	
2. R.R. BREMS		K. NEMČIČ	
REFERENCE DRAWINGS:		SCALE	
D-302-841		CZ	
DRAWING NUMBER		SYSTEM	
16		SHNO, REV	

THIS IS A CAD DRAWING AND SHOULD NOT BE REVISED OR MODIFIED MANUALLY											
Original Design Firm: G4-Gilbert Assoc. Inc.											
Revised Manual Drawing: 06.1991											
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Original Design Firm: G4-Gilbert Assoc. Inc.											
Revised Manual Drawing:											

OPERATING DATA						
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FLOW	PRESS.	TEMP.	BY	REMARKS	REV	
M ³ /HR	KP/CM ²	°C				
1						
2						
3						
4						
5						
6						
7						
8						

DESIGN DATA						
1	2	3	4	5	6	7
NORMAL	UPSET					
PRESS.	TEMP.	PRESS.	TEMP.	TIME	BY	REMARKS
KP/CM ²	°C	KP/CM ²	°C			
1						
2						
3						
4						
5						
6						
7						

- NOTES:
- SYSTEM IS SAFETY CLASS 3
SEISMIC CATEGORY I.
 - THERMAL ELECTRONIC EXPANSION VALVE
(SEE NOTE 3).
 - COMPRESSORS ARE AUTOMATICALLY
CONTROLLED BY PLC'S CZ100PLC01 AND
CZ100PLC02 IN EE106PNLR204.
THERMAL EXPANSION VALVES ARE
CONTROLLED BY CONTROLLERS
R203-EXVB1 AND R203-EXVB2
IN EE106PNLR203.
 - SIGHT GLASS.
 - REFERENCE DRAWING:
AAF 1849629, rev. D
 - TWO STAGES DOUBLE SUCTION RISERS
WITH OIL TRAPS.
 - STAINLESS STEEL ADAPTOR (Cu to SS).
 - ALL EQUIPMENT INSTALLED IN SKID
CZ841CHL-01A HAVE CZ841CHL01A
PRECEDING ITEM NUMBER SUCH AS
CZ841CHL01A-CND1.
 - DOUBLE SIGHT GLASS.
 - COMPRESSORS HEATED WITH HEAT TRACING
WHEN CHILLER IS NOT OPERATING.
 - OIL SEPARATORS HEATED WITH HEAT TRACING
WHEN CHILLER IS NOT OPERATING.

REFERENCE	FUNCTIONAL DIAGRAM
1	816-641 CZ841CHL-01A CONTROLLER R203-EXVB1
2 THRU 24	816-641 CZ841CHL-01A CONTROLLER CZ100PLC01
25	816-641 CZ841CHL-01A CONTROLLER R203-EXVB2
26 THRU 45	816-641 CZ841CHL-01A CONTROLLER CZ100PLC02

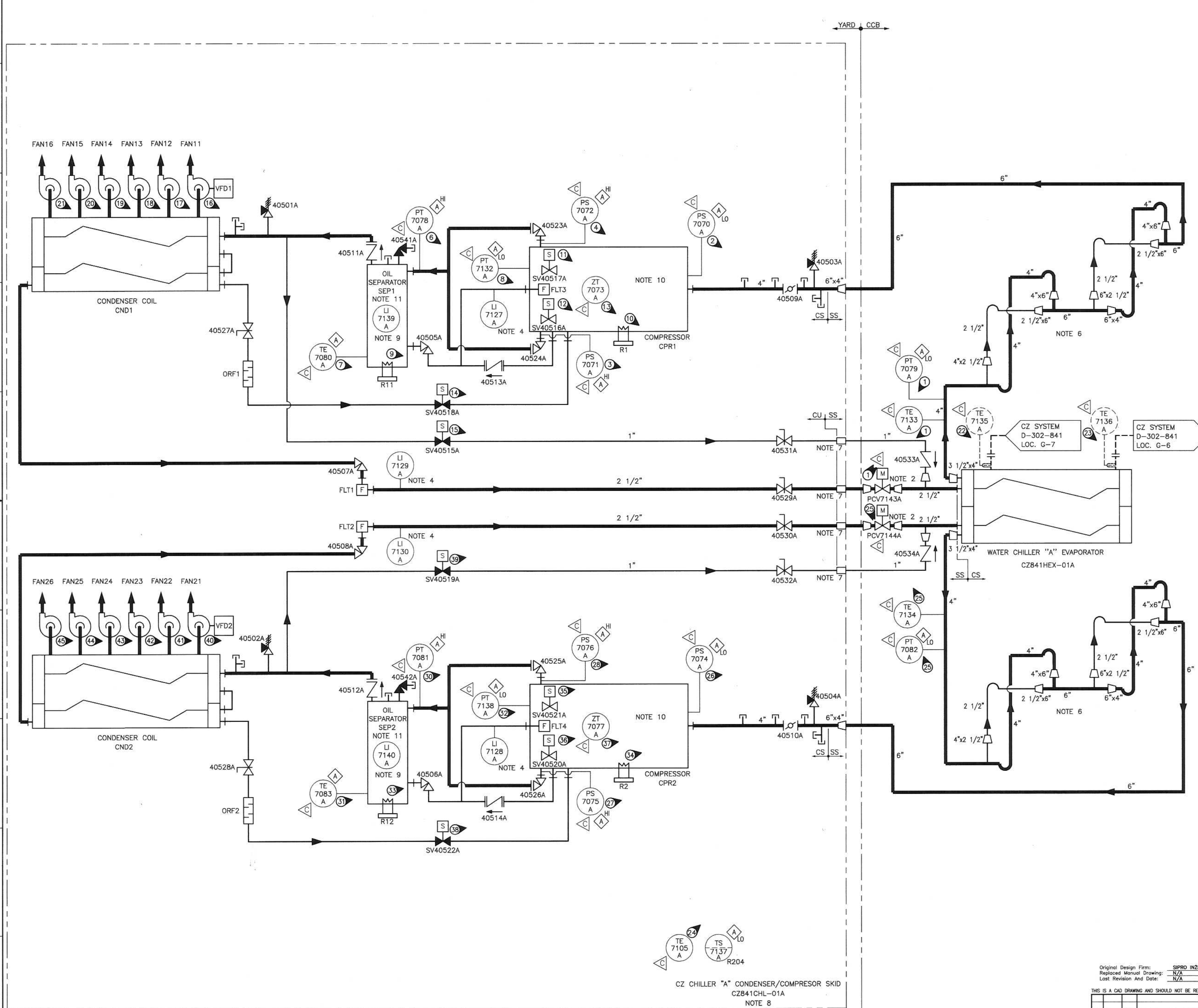
Nuklearna Elektrarna Krško
MASTER DOCUMENT

Date Received: 03-12-2020

Log Number: 236891

NUCLEAR SAFETY RELATED

NUKLEARNA ELEKTRARNA KRŠKO NUCLEAR POWER PLANT KRŠKO CZ FLUID SYSTEM DIAGRAM CHILLED WATER REFRIGERANT		
DESIGN ENGINEERING		
MADE K. KERČ	CHECKED V. BUTKOVIC	LE APPROVAL V. PLANINC
REFERENCE DRAWINGS:		
D-302-841/A CZ 02		
DRAWING NUMBER SYSTEM SKID. REV		



FILE: D302841A.DWG, SPREJEL:

Original Design Firm: SIPO INŽENIRING d.o.o.	
Replaced Manual Drawing: N/A	
Last Revision And Date: N/A	
THIS IS A CAD DRAWING AND SHOULD NOT BE REVISED OR MODIFIED MANUALLY	
NO.	DATE
02	02.12.20
01	25.04.14
0	07.07.08
BY	REVISION
K.K.	REVISED PER MOD 1068-CZ-L & CAP 2008-1004
K.K.	ISSUED PER MOD 182-CZ-L
V.B.	V.P.
CHKD. BY	LE APPR.

OPERATING DATA						
#	FLOW M ³ /HR	PRESS. KPa/CM ²	TEMP. °C	BY	REMARKS	REV
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8						

DESIGN DATA						
#	NORMAL PRESS. KPa/CM ²	TEMP. °C	UPSET PRESS. KPa/CM ²	TEMP. °C	TIME	BY
1						
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4						
5						
6						
7						

- NOTES:
1. SYSTEM IS SAFETY CLASS 3 SEISMIC CATEGORY I
 2. THERMAL ELECTRONIC EXPANSION VALVE (SEE NOTE 3).
 3. COMPRESSORS ARE AUTOMATICALLY CONTROLLED BY PLC'S CZ100PLC01 AND CZ100PLC02 IN EE106PNLR404. THERMAL EXPANSION VALVES ARE CONTROLLED BY CONTROLLERS R403-EXVB1 AND R403-EXVB2 IN EE106PNLR403.
 4. SIGHT GLASS.
 5. REFERENCE DRAWING: AAF 1849629, rev. D
 6. TWO STAGES DOUBLE SUCTION RISERS WITH OIL TRAPS.
 7. STAINLESS STEEL ADAPTOR (Cu to SS).
 8. ALL EQUIPMENT INSTALLED IN SKID CZ841CHL-01B HAVE CZ841CHL01B PRECEDING ITEM NUMBER SUCH AS CZ841CHL01B-CND1.
 9. DOUBLE SIGHT GLASS.
 10. COMPRESSORS HEATED WITH HEAT TRACING WHEN CHILLER IS NOT OPERATING.
 11. OIL SEPARATORS HEATED WITH HEAT TRACING WHEN CHILLER IS NOT OPERATING.

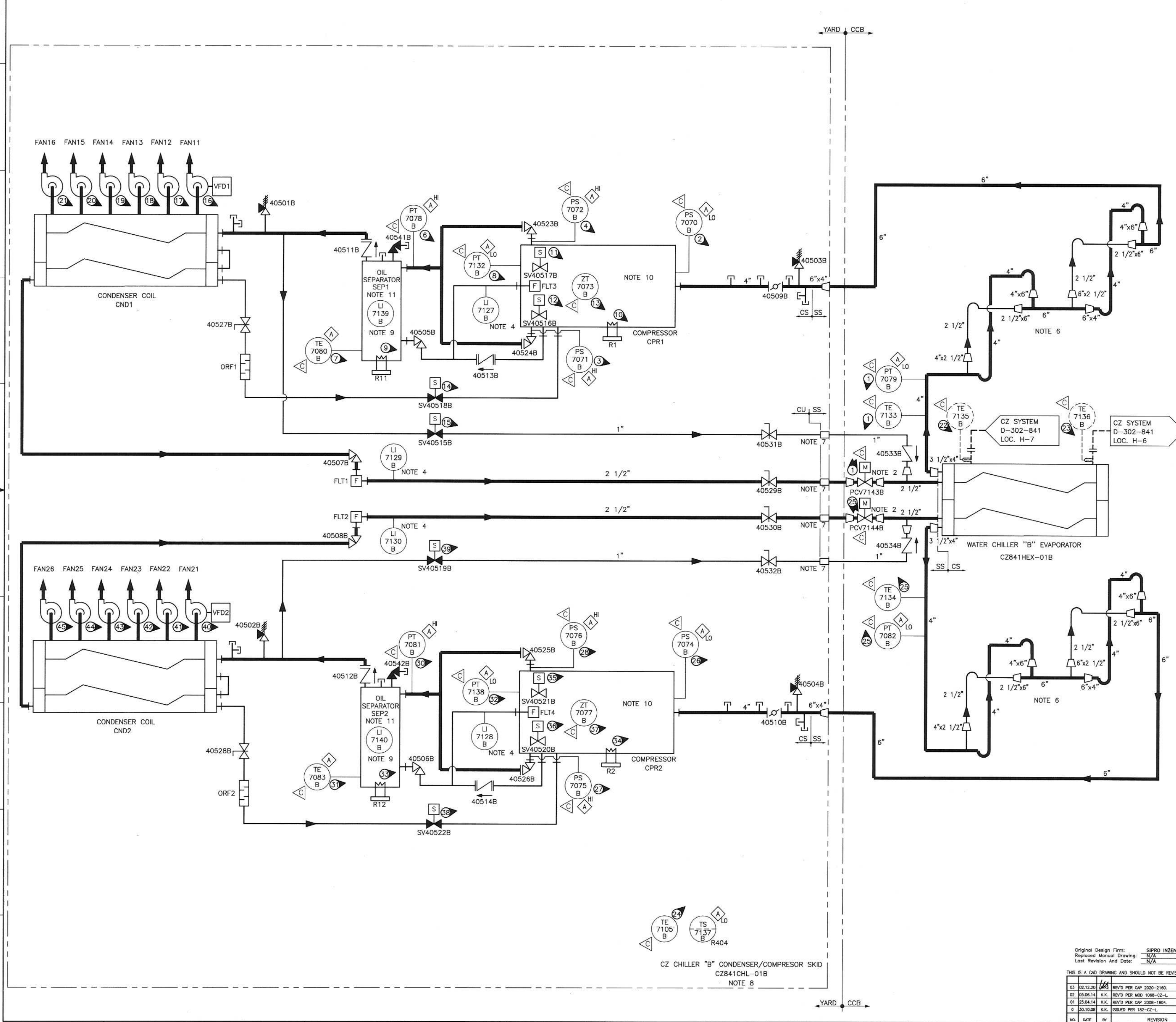
REFERENCE	FUNCTIONAL DIAGRAM
①	816-641 CZ841CHL-01B CONTROLLER R403-EXVB1
② THRU ②4	816-641 CZ841CHL-01B CONTROLLER CZ100PLC01
②5	816-641 CZ841CHL-01B CONTROLLER R403-EXVB2
②6 THRU ②5	816-641 CZ841CHL-01B CONTROLLER CZ100PLC02

Nuklearna Elektra
Nuclear Power Plant
Date Received: 03-12-2020
Log Number: 237319

NUCLEAR SAFETY RELATED

NUKLEARNA ELEKTRARNA KRSKO NUCLEAR POWER PLANT KRSKO		
CZ FLUID SYSTEM DIAGRAM		
CHILLED WATER		
REFRIGERANT		
DESIGN ENGINEERING		
MADE	CHECKED	LE APPROVAL
K. KERIC	V. BUTKOVIC	V. PLANINC
REFERENCE DRAWINGS:		
D-302-841/B CZ I 03		
DRAWING NUMBER SYSTEM SH.NO. REV		

Original Design Firm: SPRO INZINERING d.o.o.	
Replaced Manual Drawing: N/A	
Last Revision And Date: N/A	
THIS IS A CAD DRAWING AND SHOULD NOT BE REVISED OR MODIFIED MANUALLY	
NO.	DATE
03	02.12.20
02	05.06.14
01	25.04.14
0	30.10.08
BY	
REVISION	
O.D. BY/LE APPR.	



OPERATING DATA						
#	FLOW M ³ /HR	PRESS. KP/CM ²	TEMP °C	BY	REMARKS	REV
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5						
6						
7						
8						

DESIGN DATA						
#	NORMAL PRESS. KP/CM ²	TEMP °C	UPSET PRESS. KP/CM ²	TEMP °C	TIME	BY
1						
2						
3						
4						
5						
6						
7						

- NOTES:
- SYSTEM IS SAFETY CLASS 3 SEISMIC CATEGORY I.
 - THERMAL ELECTRONIC EXPANSION VALVE (SEE NOTE 3).
 - COMPRESSORS ARE AUTOMATICALLY CONTROLLED BY PLC'S CZ100PLC01 AND CZ100PLC02 IN EE106PNLR602. THERMAL EXPANSION VALVES ARE CONTROLLED BY CONTROLLERS R603-EXVB1 AND R603-EXVB2 IN EE106PNLR603.
 - SIGHT GLASS.
 - REFERENCE DRAWING: AAF 1849629, rev. D
 - THREE STAGES DOUBLE SUCTION RISERS WITH OIL TRAPS.
 - STAINLESS STEEL ADAPTOR (Cu to SS).
 - ALL EQUIPMENT INSTALLED IN SKID CZ841CHL-01C HAVE CZ841CHL01C PRECEDING ITEM NUMBER SUCH AS CZ841CHL01C-CND1.
 - DOUBLE SIGHT GLASS.
 - COMPRESSORS HEATED WITH HEAT TRACING WHEN CHILLER IS NOT OPERATING.
 - OIL SEPARATORS HEATED WITH HEAT TRACING WHEN CHILLER IS NOT OPERATING.

REFERENCE	FUNCTIONAL DIAGRAM
①	816-641 CZ841CHL-01C CONTROLLER R603-EXVB1
② THRU ②④	816-641 CZ841CHL-01C CONTROLLER CZ100PLC01
②⑤	816-641 CZ841CHL-01C CONTROLLER R603-EXVB2
②⑥ THRU ④⑤	816-641 CZ841CHL-01C CONTROLLER CZ100PLC02

Nuklearna Elektrarna Krško
NUCLEAR POWER PLANT KRŠKO

Date Received: 03-12-2020

Log Number: 236.386

NUCLEAR SAFETY RELATED

NUKLEARNA ELEKTARNIA KRŠKO NUCLEAR POWER PLANT KRŠKO			
CZ FLUID SYSTEM DIAGRAM			
CHILLED WATER			
REFRIGERANT			
DESIGN ENGINEERING			
NUCLEAR POWER PLANT KRŠKO KRŠKO, SLOVENIA			
MADE	CHECKED	LE APPROVAL	
1. Z. STOLAR	2. V. BUTKOVIC	3. V. PLANINC	
DRAWINGS:			
D-302-841/C CZ 03			
DRAWING NUMBER			
SYSTEM			
S/N			
REV			

Original Design Firm: SIPIRO INZENERING d.o.o.

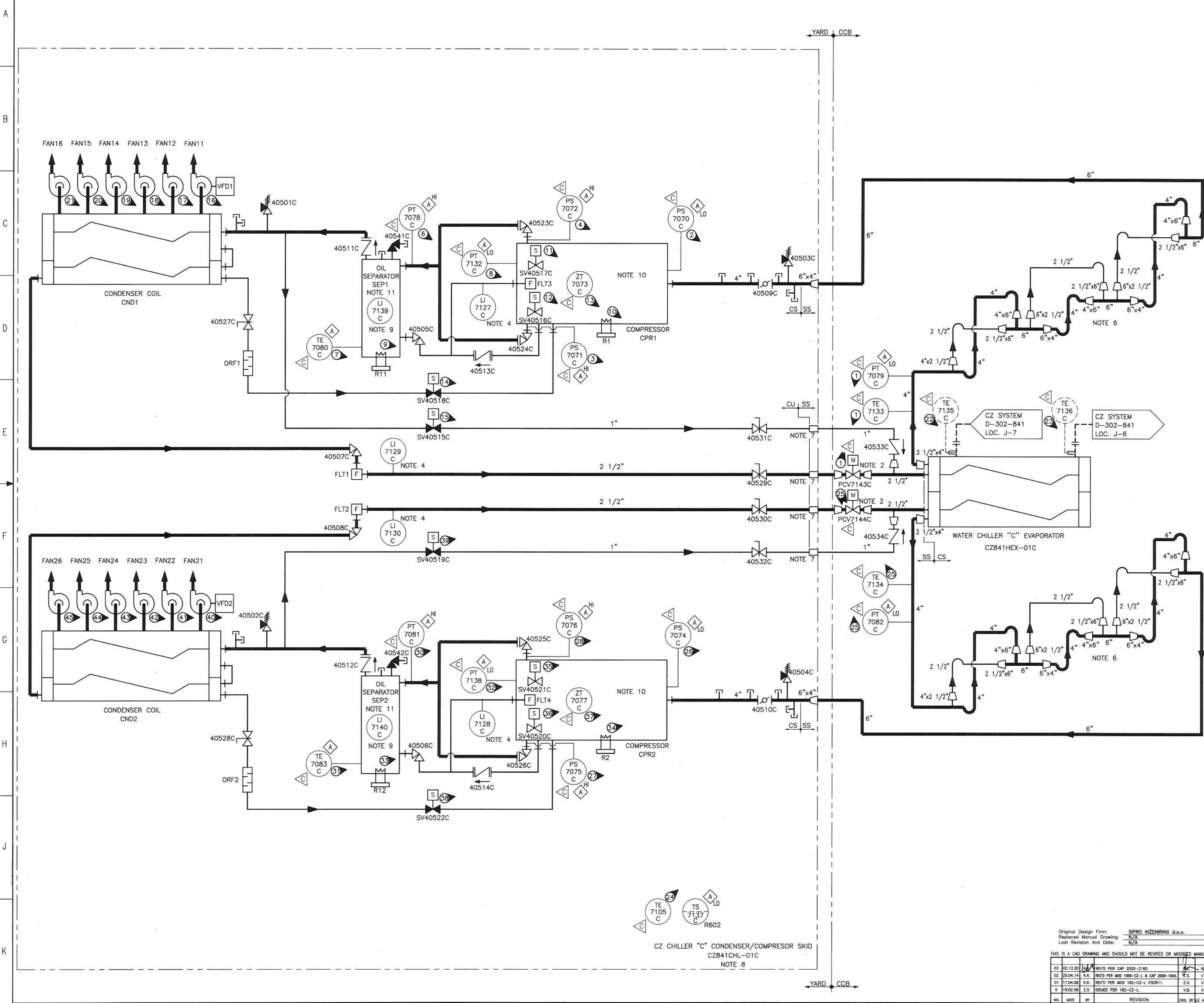
Replaced Manual Drawing: N/A

Last Revision And Date: N/A

THIS IS A CAD DRAWING AND SHOULD NOT BE REVISED OR MODIFIED MANUALLY

03	02.12.20	REV'D PER CAP 2020-2160	Z.S.	V.P.
02	25.04.14	K.K. REV'D PER MOD 1069-CZ-L A CAP 2008-1804	Z.S.	V.P.
01	17.04.08	K.K. REV'D PER MOD 182-CZ-L FDCR11	Z.S.	V.P.
0	19.02.08	Z.S. ISSUED PER 182-CZ-L	Z.S.	V.P.

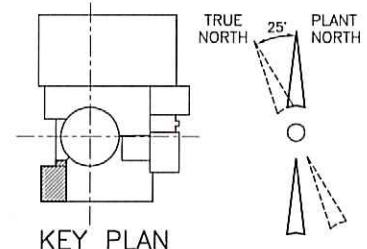
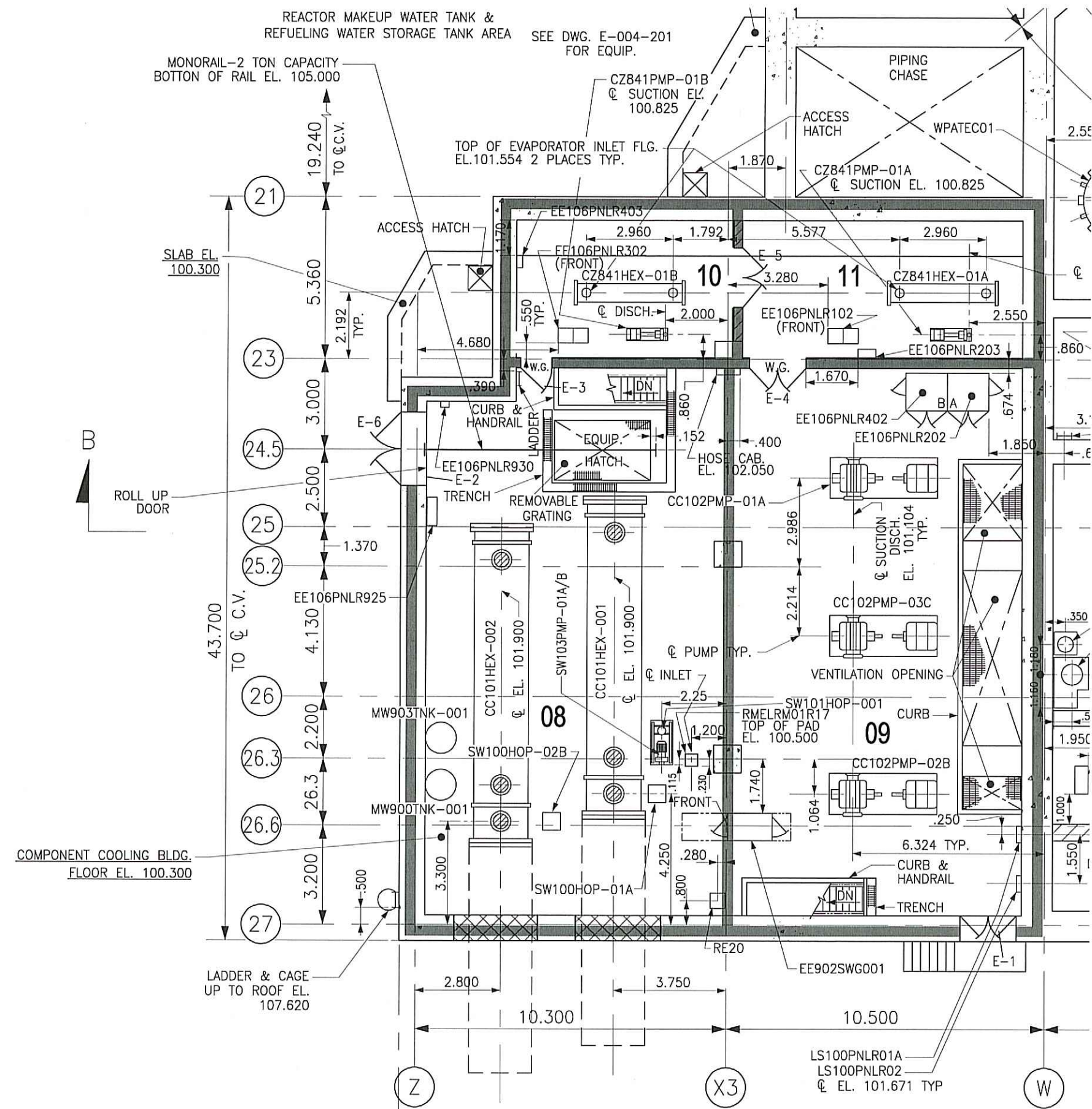
NO.	DATE	BY	REVISION	CHK. BY	LE APPR.



TE 7105 C
TS 7137 C
R602

CZ CHILLER "C" CONDENSER/COMPRESSOR SKID
CZ841CHL-01C
NOTE 8

FILE: D302841C DWG, SPREJEL



FIRE AREA	FIRE ZONE	MECL ROOM	ROOM DESCRIPTION
CC	CC-1	08	COMPONENT COOLING HEAT EXCHANGERS AREA
		09	COMPONENT COOLING PUMPS AREA
		10	CZ EVAPORATOR 01B AREA
		11	CZ EVAPORATOR 01A AREA

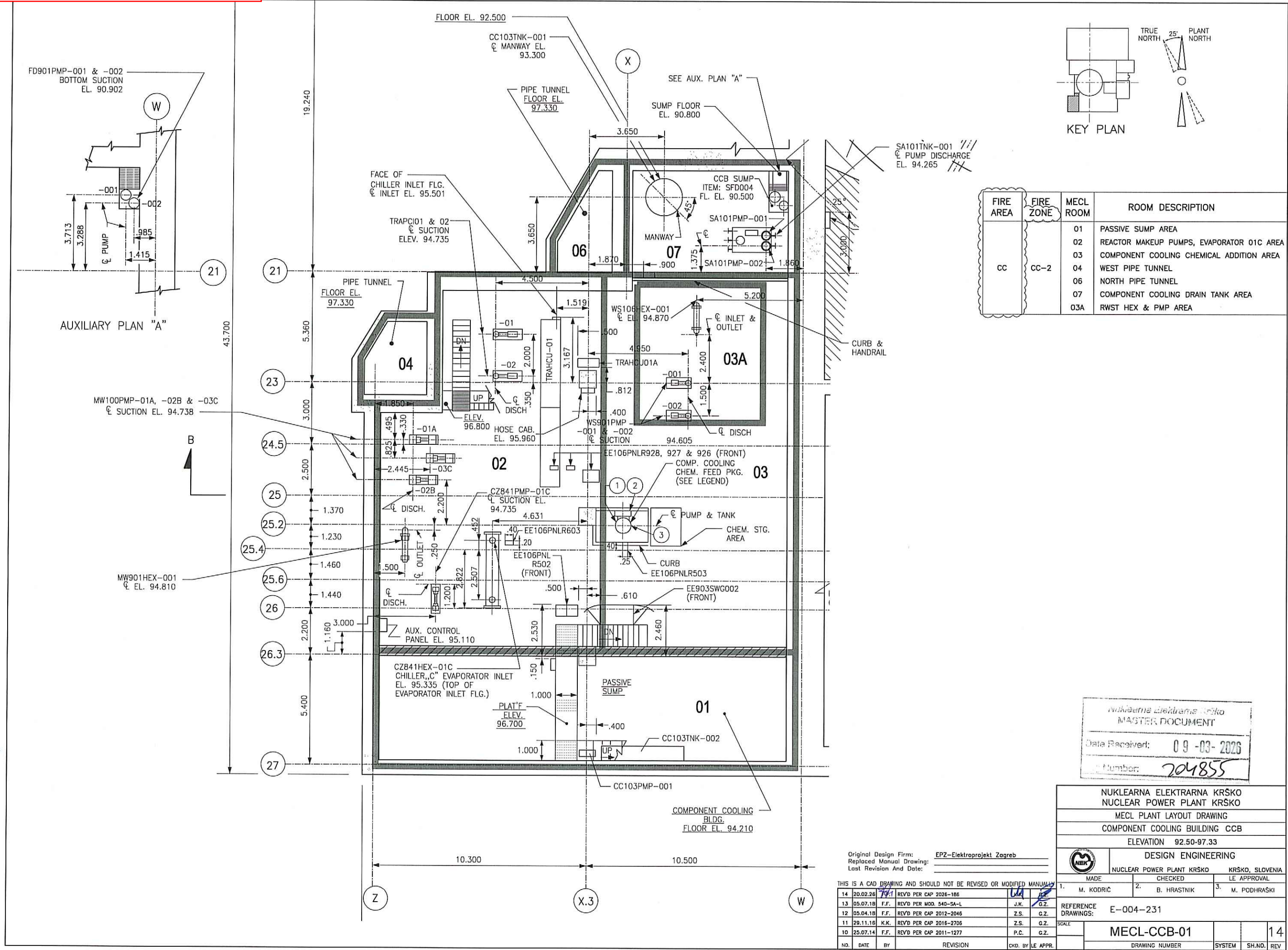
NUKLEARNA ELEKTRARNA KRŠKO
MASTER DOCUMENT
Date Received: 09-03-2026
Number: 204856

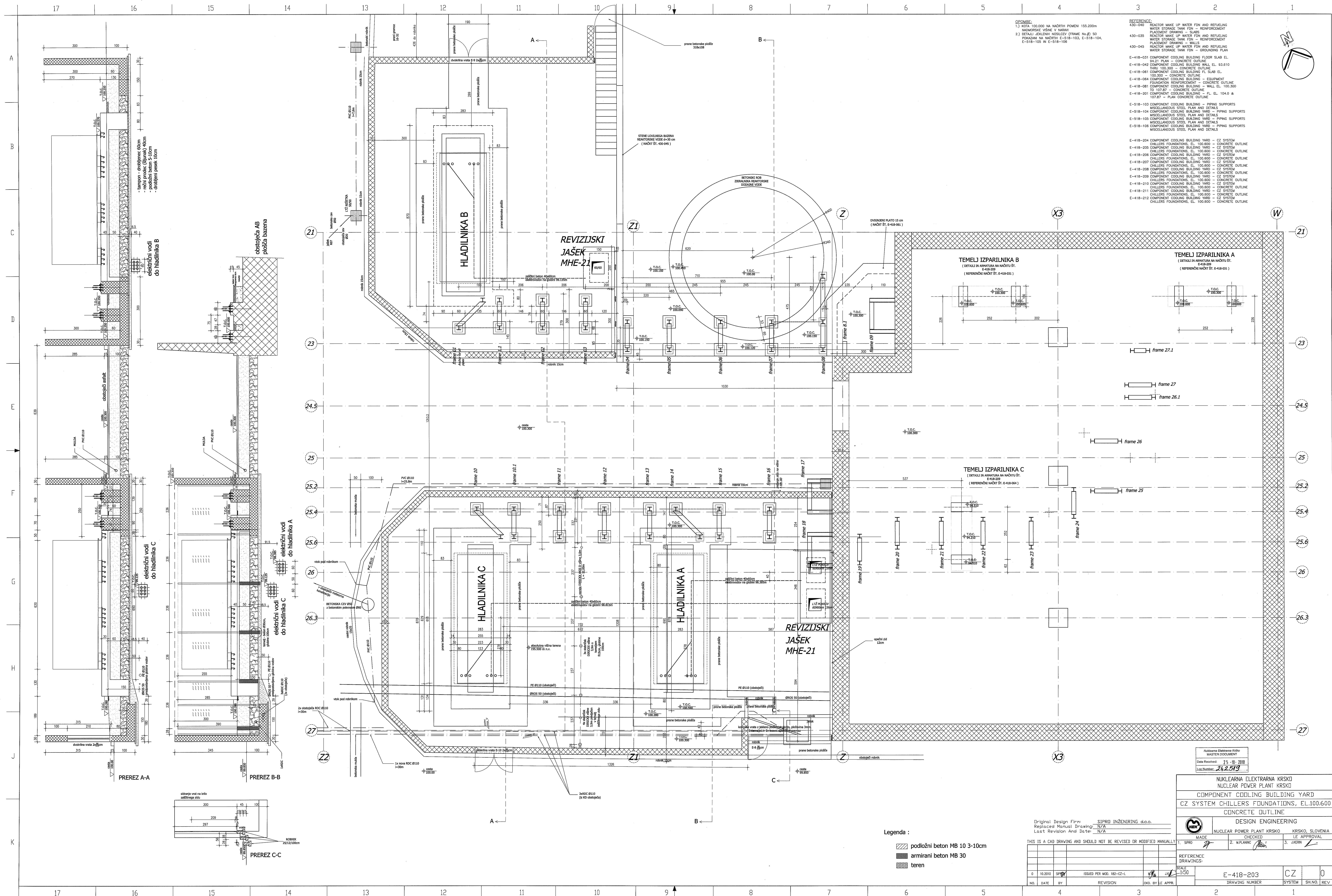
NUKLEARNA ELEKTRARNA KRŠKO NUCLEAR POWER PLANT KRŠKO		
MECL PLANT LAYOUT DRAWING		
COMPONENT COOLING BUILDING CCB		
ELEVATION 100.30		
DESIGN ENGINEERING		
MADE	CHECKED	KRŠKO, SLOVENIA
1. M. KODRICH	2. B. HRASTNIK	3. M. PODHRASKI
REFERENCE DRAWINGS: E-004-233		
MECL-CCB-02		
DRAWING NUMBER	SYSTEM	SH.NO. REV

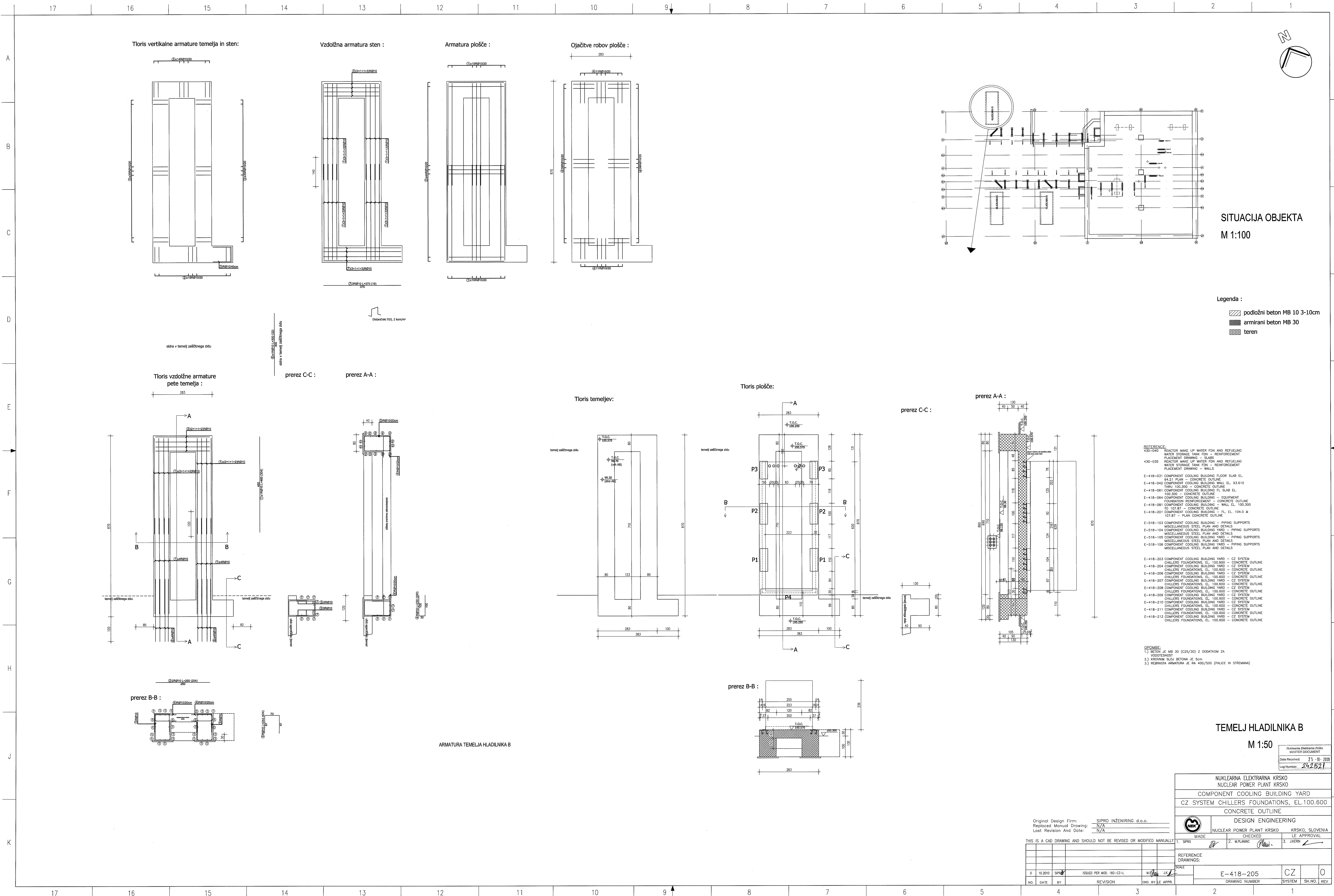
Original Design Firm: EPZ-Elektroprojekt Zagreb		
Replaced Manual Drawing:		
Last Revision And Date:		
THIS IS A CAD DRAWING AND SHOULD NOT BE REVISED OR MODIFIED MANUALLY		
18	20.02.26	REV'D PER CAP 2026-186
17	29.01.25	K.K. REV'D PER CAP 2025-213
16	17.12.20	F.F. REV'D PER CAP 2017-2614
15	29.11.16	K.K. REV'D PER CAP 2016-2706
14	25.07.14	F.F. REV'D PER CAP 2011-1277
NO.	DATE	BY
REVISION		CHK. BY LE APPR.

FILE: MECL-CCB-02 DWG, SPREJEL:

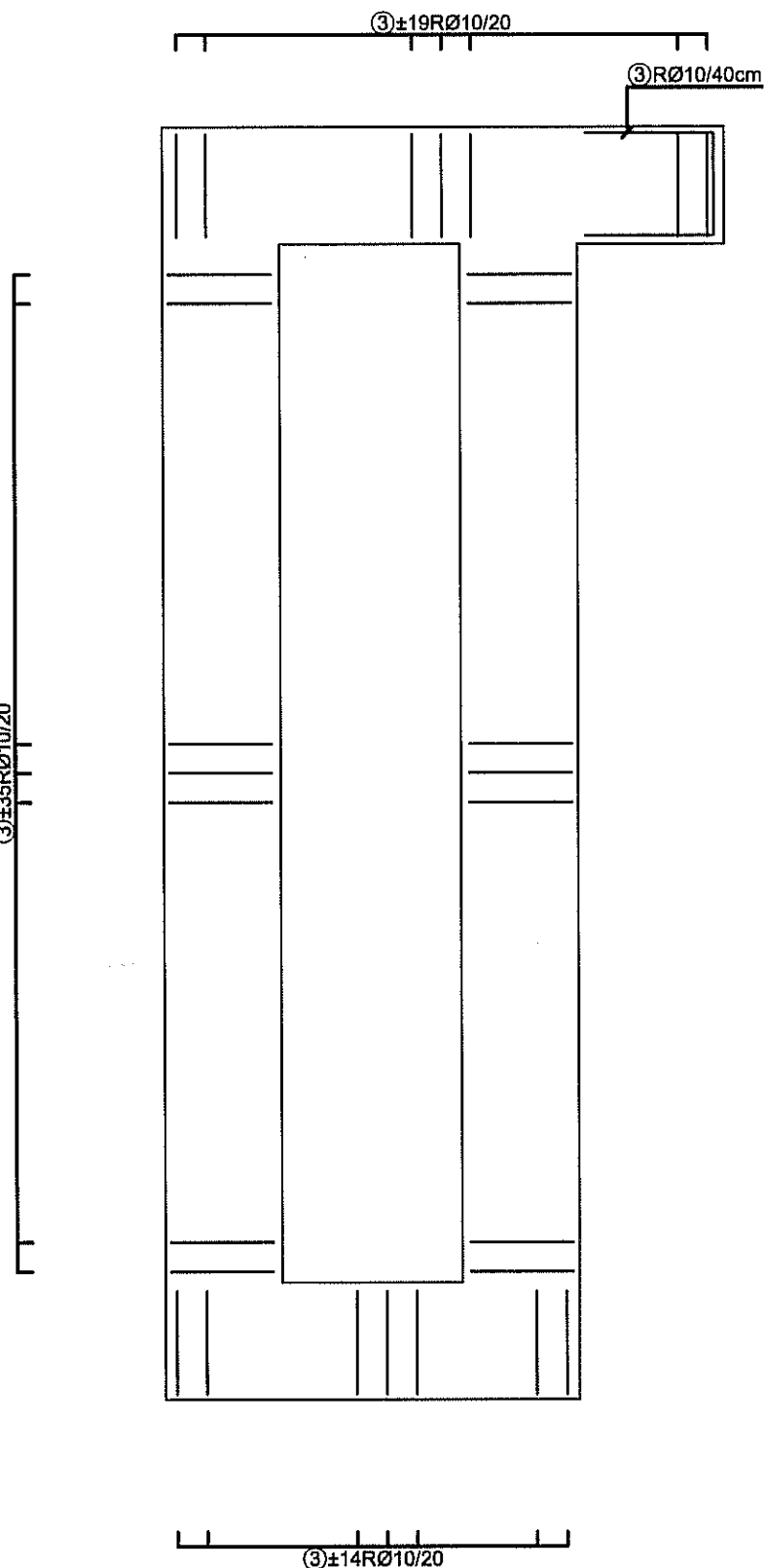
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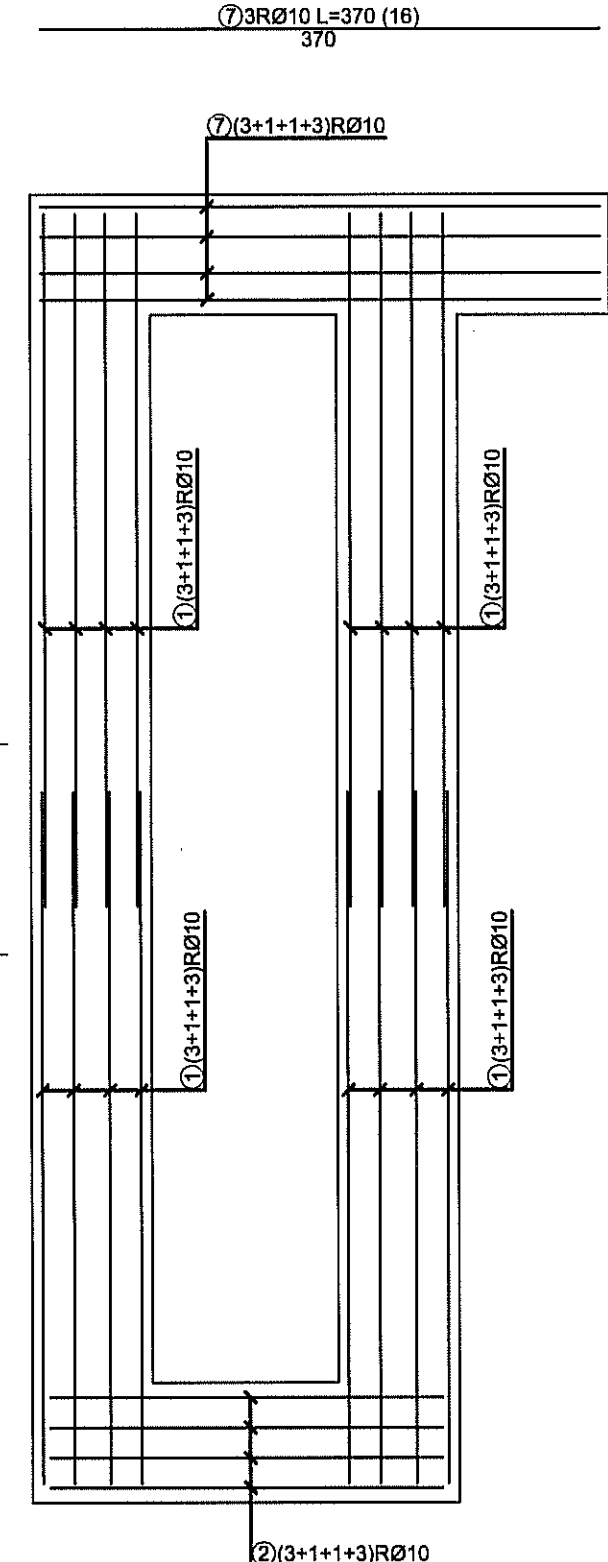




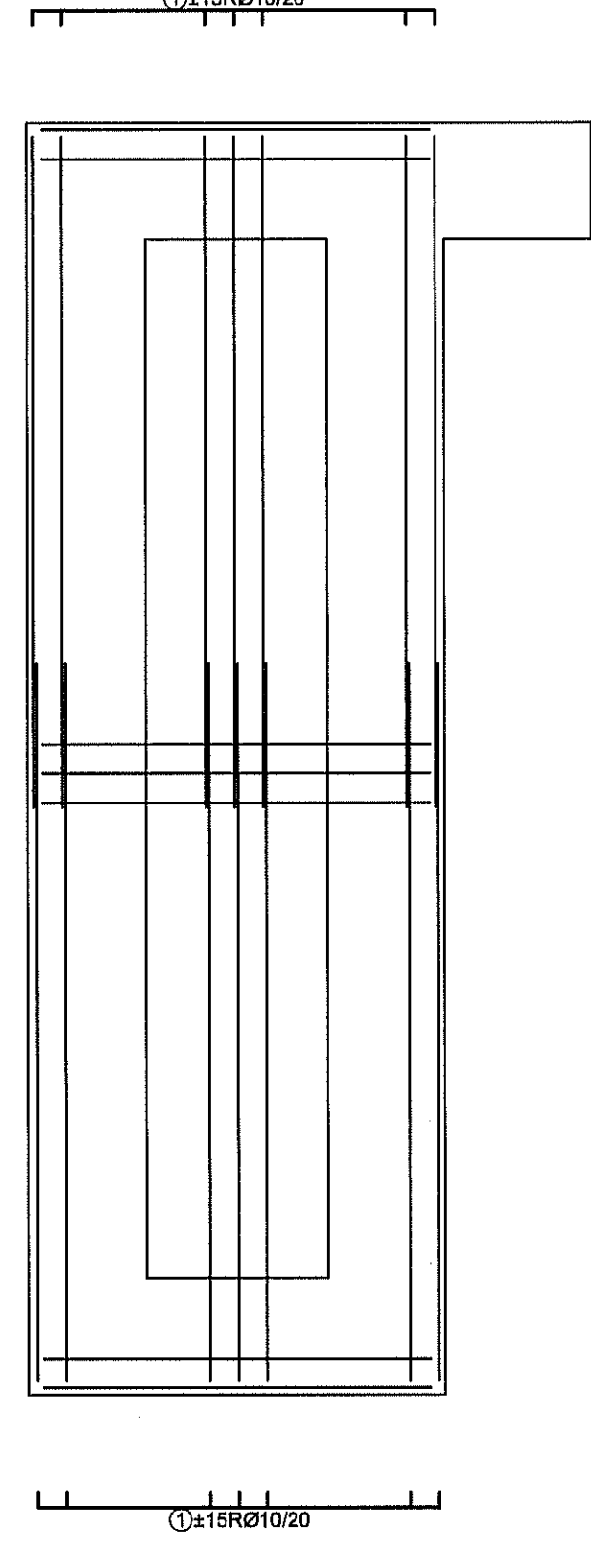
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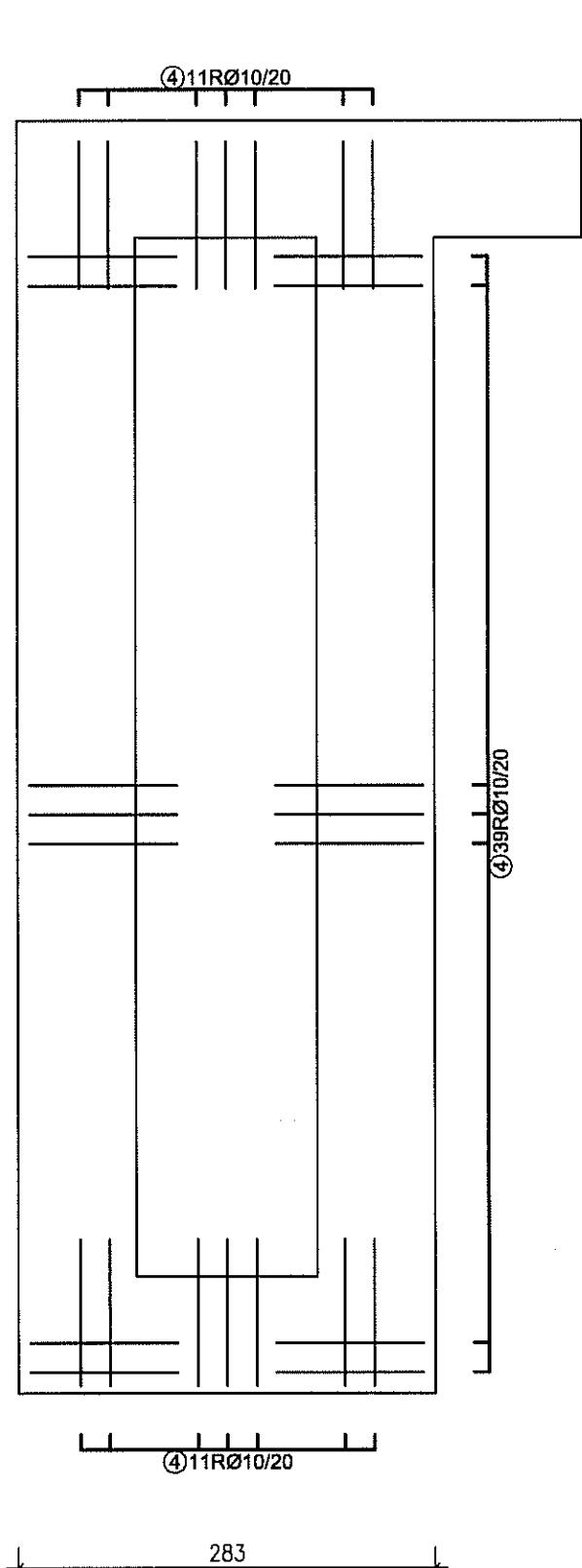
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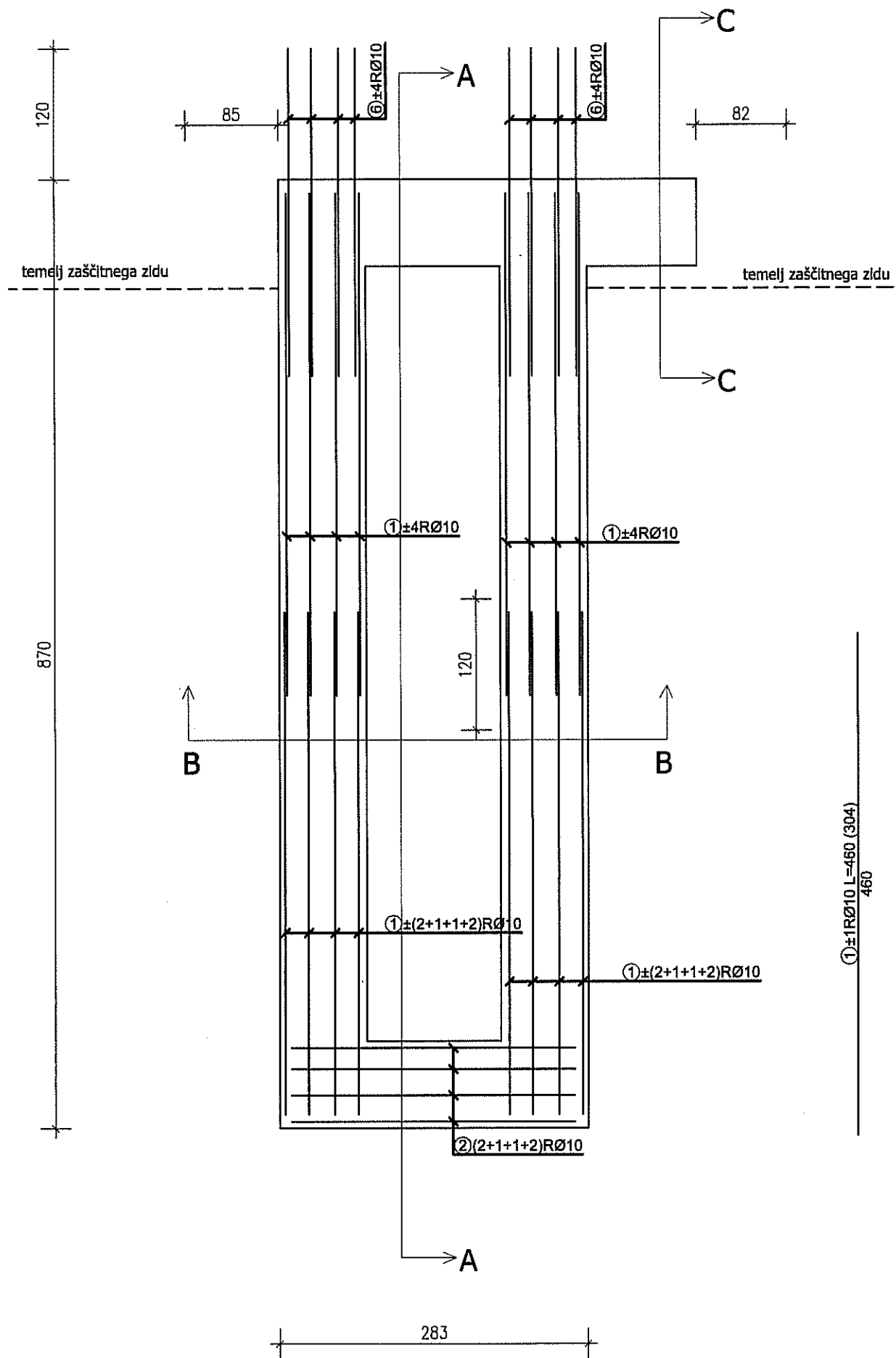
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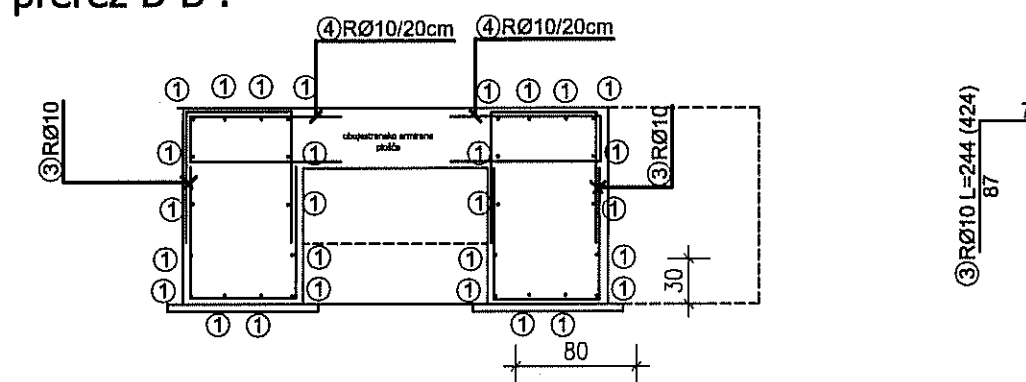
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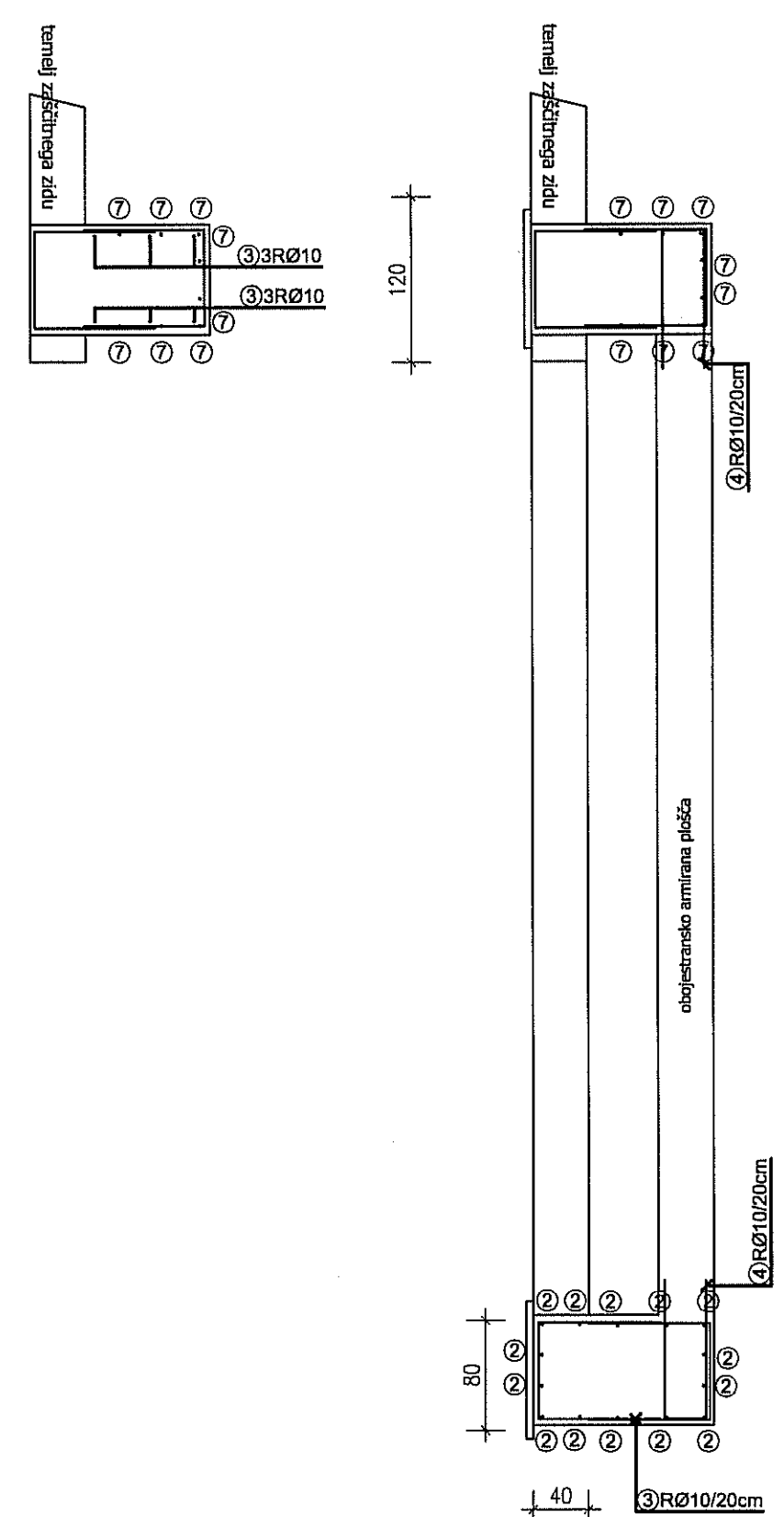
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pete temelja :



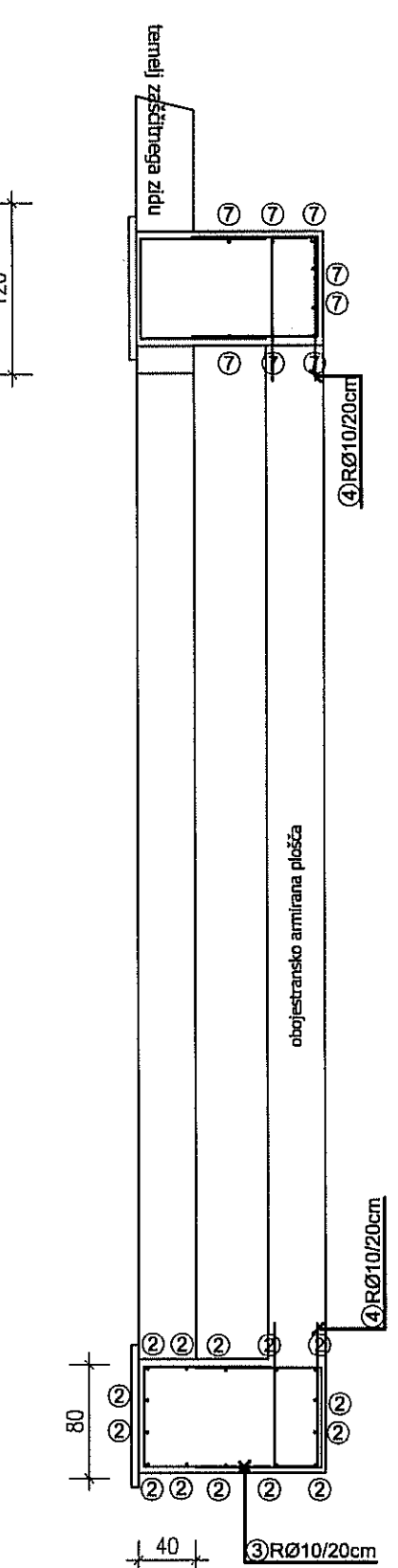
prerez B-B :



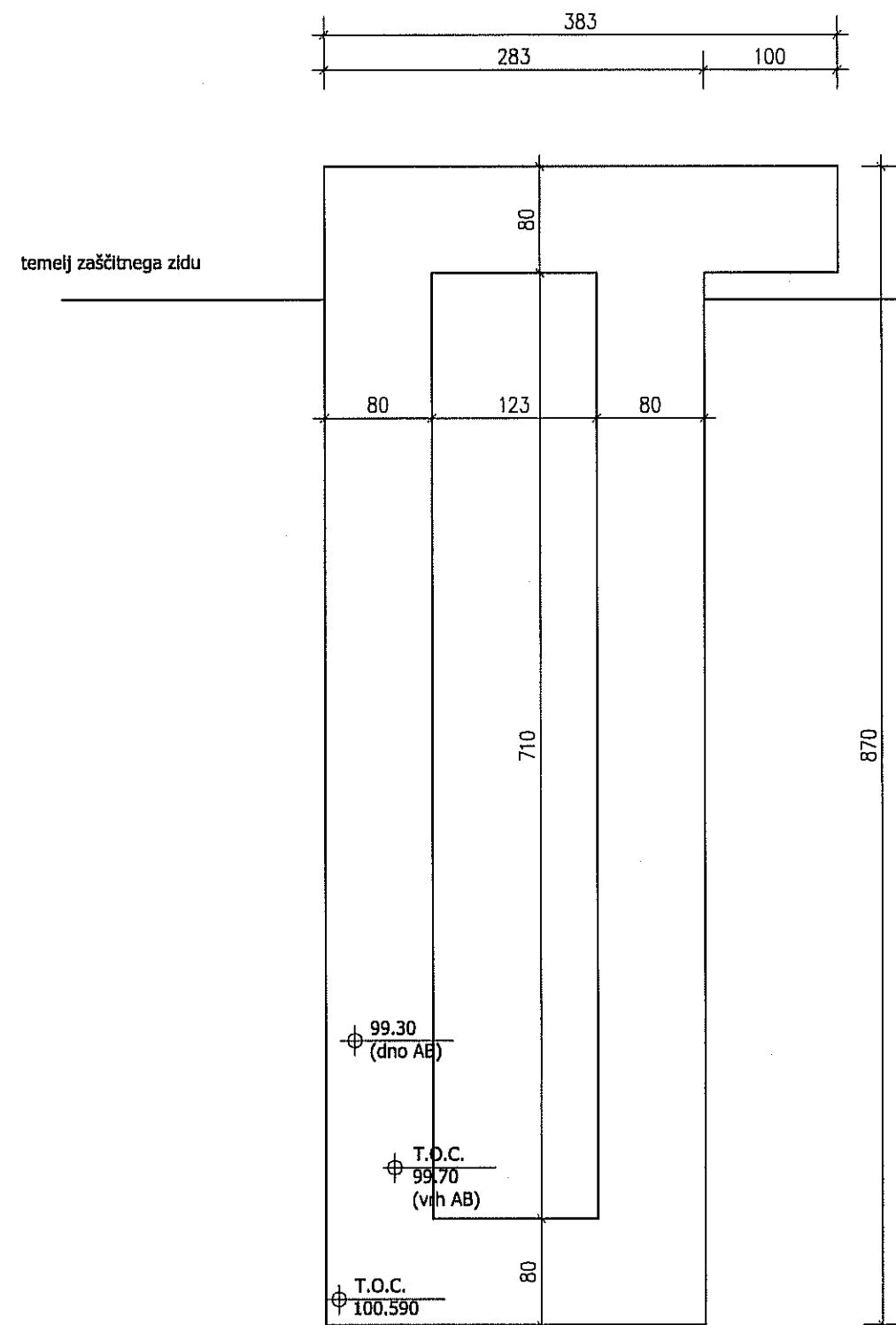
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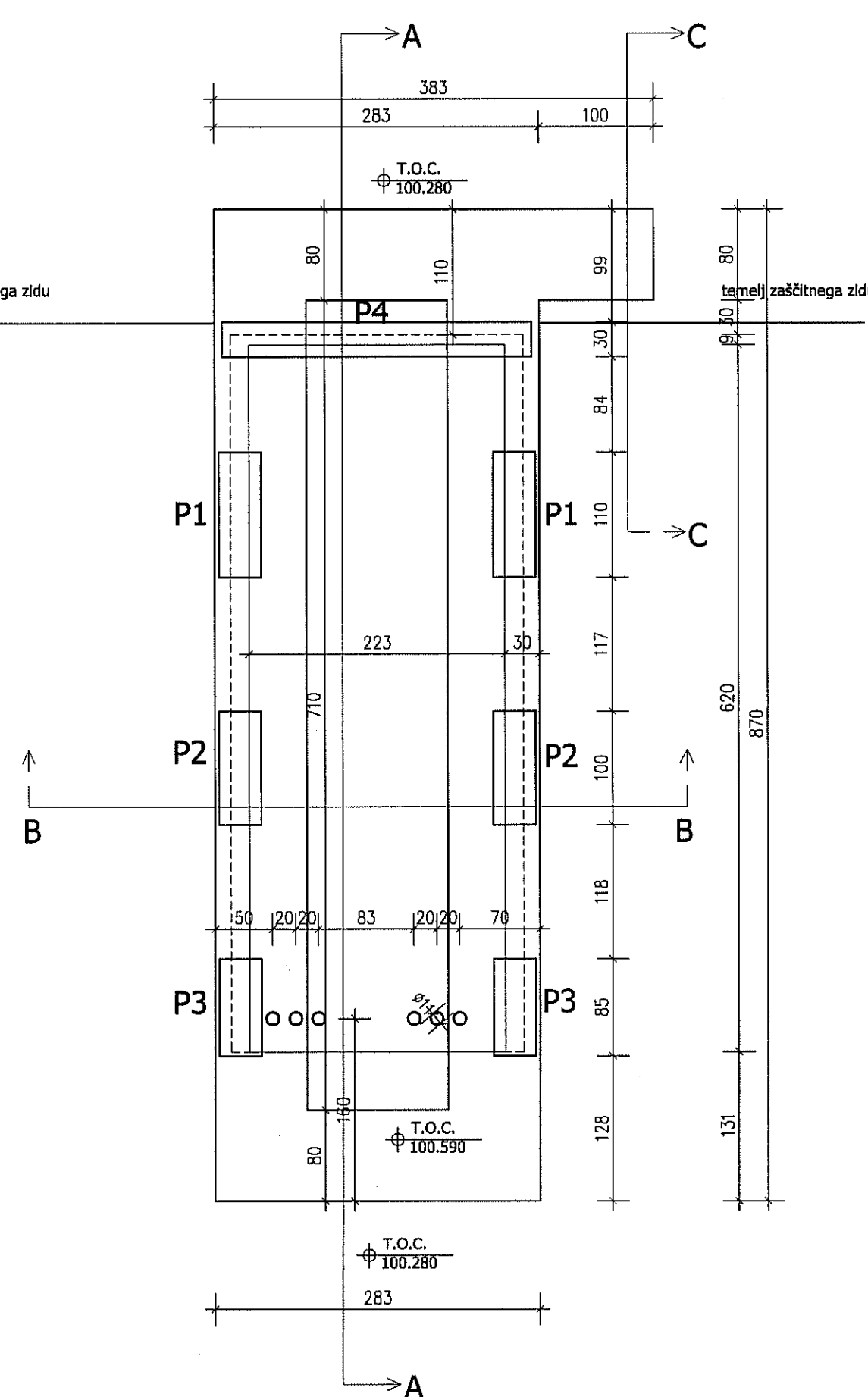
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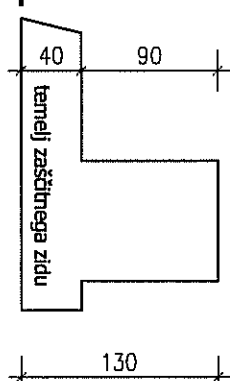
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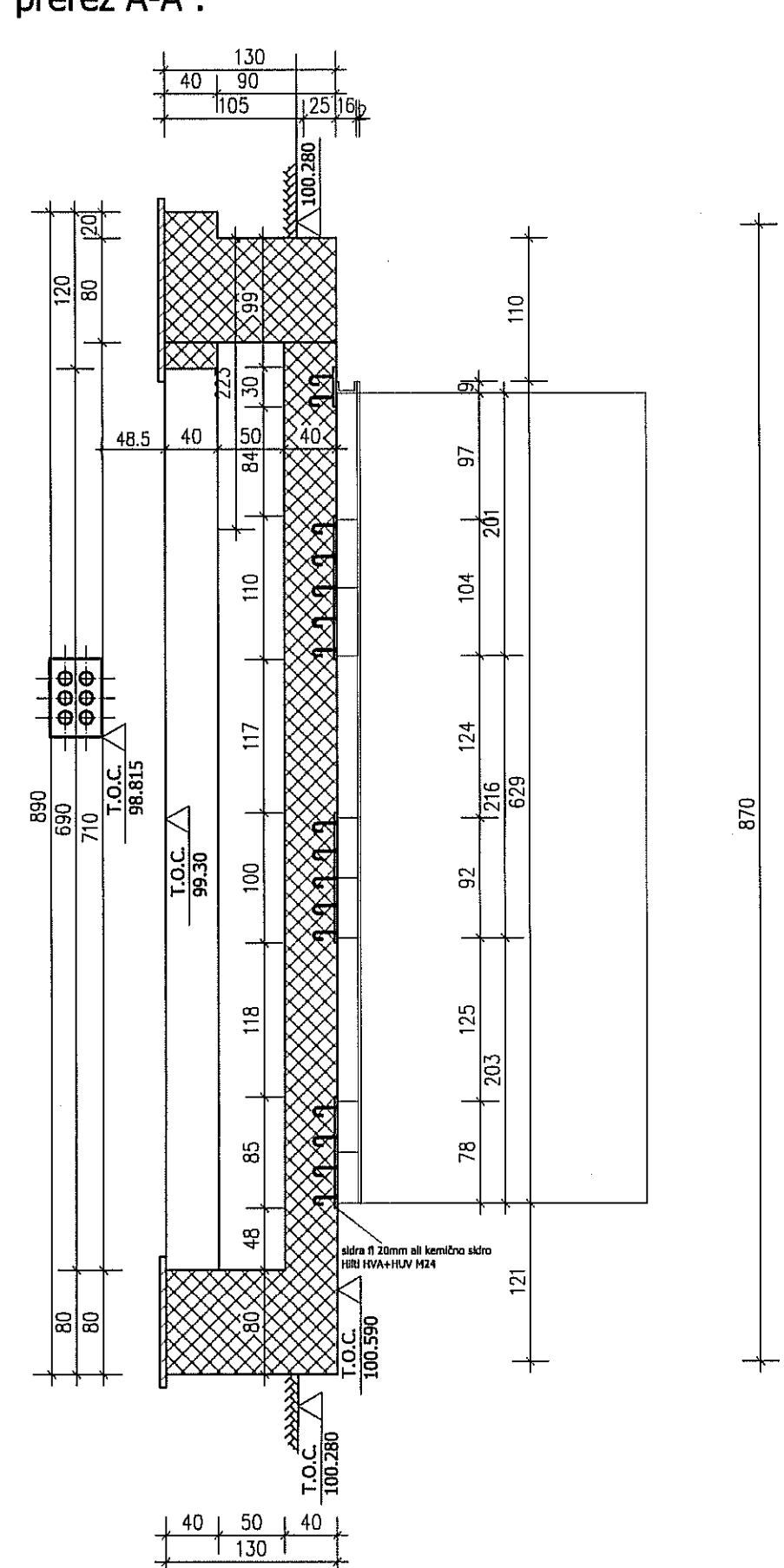
Tloris plošče:



prerez C-C :



prerez A-A :



- REFERENCE:
- 430-040 REACTOR MAKE UP WATER FDN AND REFUELING WATER STORAGE TANK FDN - REINFORCEMENT PLACEMENT DRAWING - SLABS
 - 430-035 REACTOR MAKE UP WATER FDN AND REFUELING WATER STORAGE TANK FDN - REINFORCEMENT PLACEMENT DRAWING - WALLS
 - E-418-031 COMPONENT COOLING BUILDING FLOOR SLAB EL. 94.21 PLAN - CONCRETE OUTLINE
 - E-418-042 COMPONENT COOLING BUILDING WALL EL. 93.610 WALL 100.300 - CONCRETE OUTLINE
 - E-418-061 COMPONENT COOLING BUILDING FL SLAB EL. 100.300 - CONCRETE OUTLINE
 - E-418-064 COMPONENT COOLING BUILDING - EQUIPMENT FOUNDATION REINFORCEMENT - CONCRETE OUTLINE
 - E-418-081 COMPONENT COOLING BUILDING - WALL EL. 100.300 TO 107.87 - CONCRETE OUTLINE
 - E-418-201 COMPONENT COOLING BUILDING - FL. EL. 104.0 & 107.87 - PLAN CONCRETE OUTLINE
 - E-518-103 COMPONENT COOLING BUILDING - PIPING SUPPORTS MISCELLANEOUS STEEL PLAN AND DETAILS
 - E-518-104 COMPONENT COOLING BUILDING YARD - PIPING SUPPORTS MISCELLANEOUS STEEL PLAN AND DETAILS
 - E-518-105 COMPONENT COOLING BUILDING YARD - PIPING SUPPORTS MISCELLANEOUS STEEL PLAN AND DETAILS
 - E-518-106 COMPONENT COOLING BUILDING YARD - PIPING SUPPORTS MISCELLANEOUS STEEL PLAN AND DETAILS
 - E-418-203 COMPONENT COOLING BUILDING YARD - CZ SYSTEM CHILLERS FOUNDATIONS, EL. 100.600 - CONCRETE OUTLINE
 - E-418-204 COMPONENT COOLING BUILDING YARD - CZ SYSTEM CHILLERS FOUNDATIONS, EL. 100.600 - CONCRETE OUTLINE
 - E-418-205 COMPONENT COOLING BUILDING YARD - CZ SYSTEM CHILLERS FOUNDATIONS, EL. 100.600 - CONCRETE OUTLINE
 - E-418-207 COMPONENT COOLING BUILDING YARD - CZ SYSTEM CHILLERS FOUNDATIONS, EL. 100.600 - CONCRETE OUTLINE
 - E-418-208 COMPONENT COOLING BUILDING YARD - CZ SYSTEM CHILLERS FOUNDATIONS, EL. 100.600 - CONCRETE OUTLINE
 - E-418-209 COMPONENT COOLING BUILDING YARD - CZ SYSTEM CHILLERS FOUNDATIONS, EL. 100.600 - CONCRETE OUTLINE
 - E-418-210 COMPONENT COOLING BUILDING YARD - CZ SYSTEM CHILLERS FOUNDATIONS, EL. 100.600 - CONCRETE OUTLINE
 - E-418-211 COMPONENT COOLING BUILDING YARD - CZ SYSTEM CHILLERS FOUNDATIONS, EL. 100.600 - CONCRETE OUTLINE
 - E-418-212 COMPONENT COOLING BUILDING YARD - CZ SYSTEM CHILLERS FOUNDATIONS, EL. 100.600 - CONCRETE OUTLINE

- REMARKS:
- 1.) BETON JE MB 30 (C25/30) Z DODATKOM ZA VODOTESNOST
 - 2.) KROVNI SLOJ BETONA JE 50mm
 - 3.) REBRASTA ARMATURA JE RA 400/500 (PALICE IN STREMIČA)

TEMELJ HLADILNIKA C

M 1:50

Nuklearna Elektrarna Krško
MASTER DOCUMENT
Datum Revizije: 25.11.2010
Log Number: 242522

NUKLEARNA ELEKTRARNA KRŠKO
NUCLEAR POWER PLANT KRŠKO
COMPONENT COOLING BUILDING YARD
CZ SYSTEM CHILLERS FOUNDATIONS, EL.100.600
CONCRETE OUTLINE
DESIGN ENGINEERING

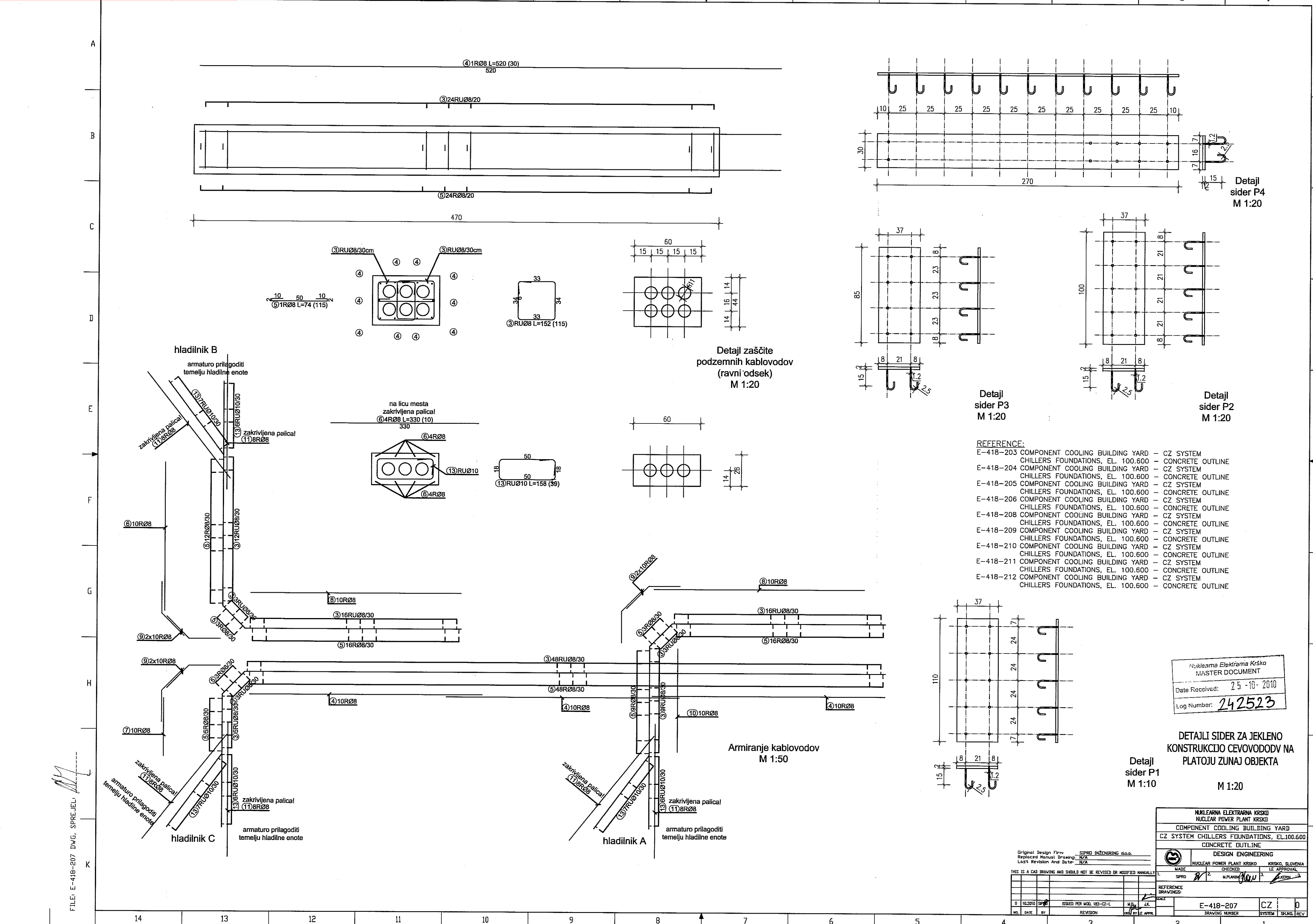
MADE BY: SPRO
CHECKED BY: M. PLANNING
KRŠKO, SLOVENIA
LE APPROVAL
3. J. KERN

Original Design Firm: SPRO INŽENIRING d.o.o.
Replaced Manual Drawing: N/A
Last Revision And Date: N/A

THIS IS A CAD DRAWING AND SHOULD NOT BE REVISED OR MODIFIED MANUALLY

NO.	DATE	BY	REVISION	OKD. BY	LE APPR.
0	10.2010	SPRO	ISSUED PER MSD, 182-CZ-L	M. PLANNING	

SCALE	1:50
E-418-206	
DRAWING NUMBER	
SYSTEM	CZ
SH.NO.	REV



- REFERENCE:
- E-418-203 COMPONENT COOLING BUILDING YARD - CZ SYSTEM
 - CHILLERS FOUNDATIONS, EL. 100.600 - CONCRETE OUTLINE
 - E-418-204 COMPONENT COOLING BUILDING YARD - CZ SYSTEM
 - CHILLERS FOUNDATIONS, EL. 100.600 - CONCRETE OUTLINE
 - E-418-205 COMPONENT COOLING BUILDING YARD - CZ SYSTEM
 - CHILLERS FOUNDATIONS, EL. 100.600 - CONCRETE OUTLINE
 - E-418-206 COMPONENT COOLING BUILDING YARD - CZ SYSTEM
 - CHILLERS FOUNDATIONS, EL. 100.600 - CONCRETE OUTLINE
 - E-418-208 COMPONENT COOLING BUILDING YARD - CZ SYSTEM
 - CHILLERS FOUNDATIONS, EL. 100.600 - CONCRETE OUTLINE
 - E-418-209 COMPONENT COOLING BUILDING YARD - CZ SYSTEM
 - CHILLERS FOUNDATIONS, EL. 100.600 - CONCRETE OUTLINE
 - E-418-210 COMPONENT COOLING BUILDING YARD - CZ SYSTEM
 - CHILLERS FOUNDATIONS, EL. 100.600 - CONCRETE OUTLINE
 - E-418-211 COMPONENT COOLING BUILDING YARD - CZ SYSTEM
 - CHILLERS FOUNDATIONS, EL. 100.600 - CONCRETE OUTLINE
 - E-418-212 COMPONENT COOLING BUILDING YARD - CZ SYSTEM
 - CHILLERS FOUNDATIONS, EL. 100.600 - CONCRETE OUTLINE

Nuklearna Elektra Krško
NUCLEAR POWER PLANT KRŠKO
MASTER DOCUMENT
Date Received: 25-10-2010
Log Number: 242523

DETAJI SIDER ZA JEKLENO
KONSTRUKCIJO CEVOVODOV NA
PLATOJU ZUNAJ OBJEKTA

Detaji sider P1
M 1:10

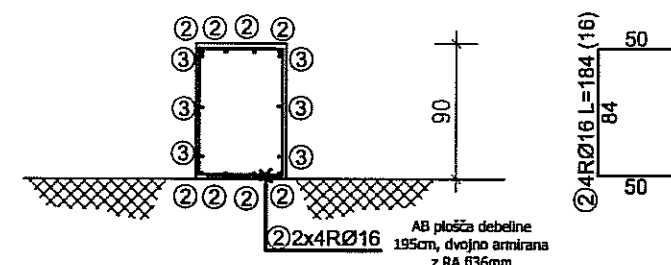
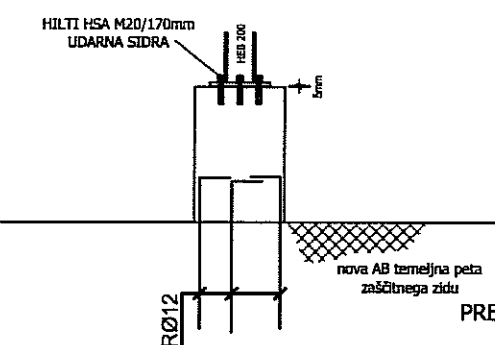
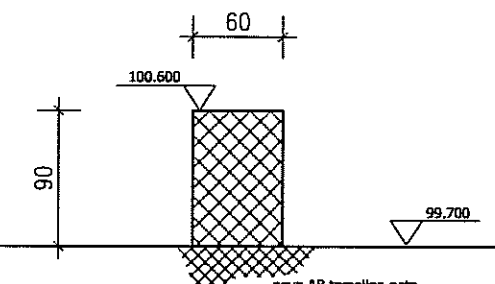
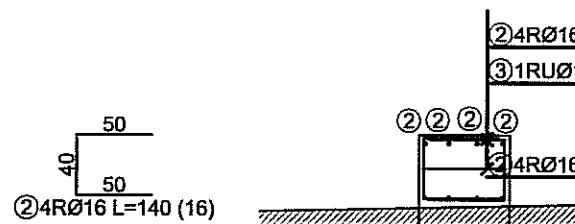
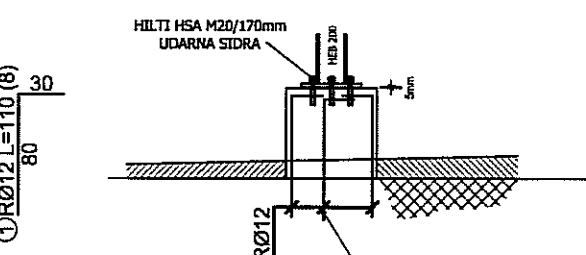
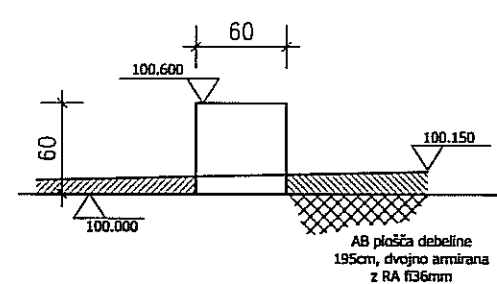
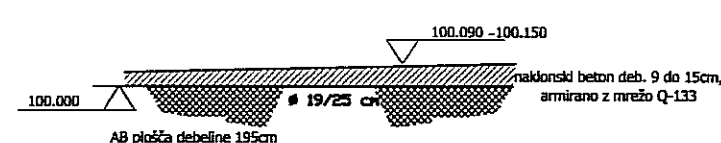
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Original Design Firm: SIPRO INŽENIRING d.o.o.
Replaced Manual Drawing: N/A
Last Revision And Date: N/A

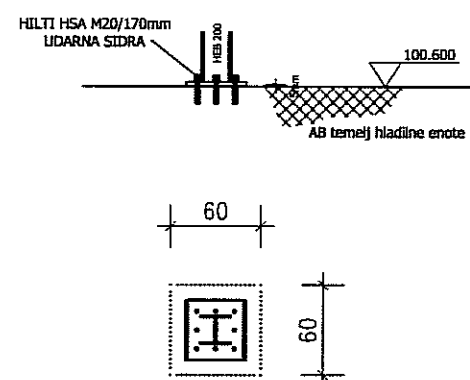
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NO.	DATE	BY	REVISION	CON. BY	LE. APPROV.
1	10.2010	SIPRO	ISSUED PER MOD. 182-CZ-L	M.B.	J.K.

NUKLEARNA ELEKTRARNA KRŠKO NUCLEAR POWER PLANT KRŠKO	
COMPONENT COOLING BUILDING YARD	
CZ SYSTEM CHILLERS FOUNDATIONS, EL.100.600	
CONCRETE OUTLINE	
DESIGN ENGINEERING	
MADE SIPRO	CHECKED M. PLANIN
LE. APPROVAL J.K.	LE. APPROVAL J.K.
REFERENCE DRAWINGS:	
E-418-207 CZ 0	
DRAWING NUMBER	
SYSTEM	
SUNG. REV.	

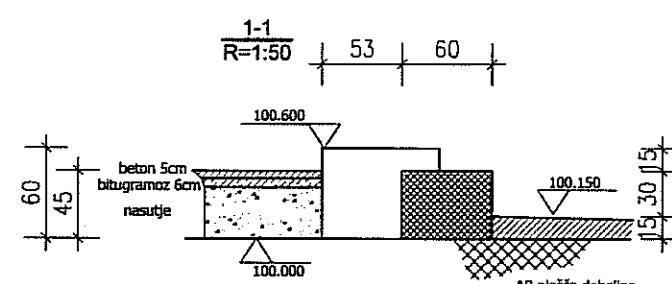
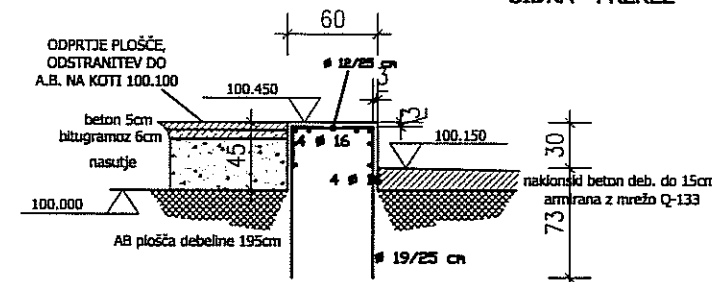
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ARMATURA - PREREZPREDVIDENO STANJE -
SIDRA - PREREZPREDVIDENO STANJE -
PREREZPREDVIDENO STANJE -
ARMATURA - PREREZPREDVIDENO STANJE -
SIDRA - PREREZPREDVIDENO STANJE -
PREREZ

OBSTOJEČE STANJE - PREREZ

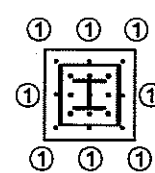
PREDVIDENO STANJE -
SIDRA - TLOVIS (na koti
100.500)

TEMELJI NASTAVKVI OGRODJA
CEVOVODOV NA TEMELJIH
HLADILNIH ENOT
7 kom.
(okvirji 01-01.1, 10-10.1, 13-15)

M 1:50

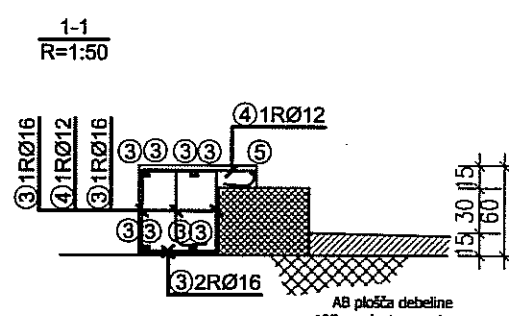
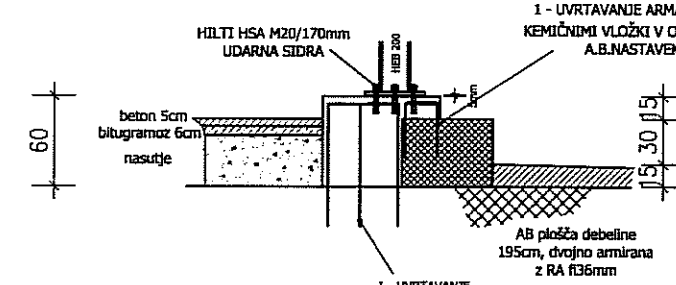
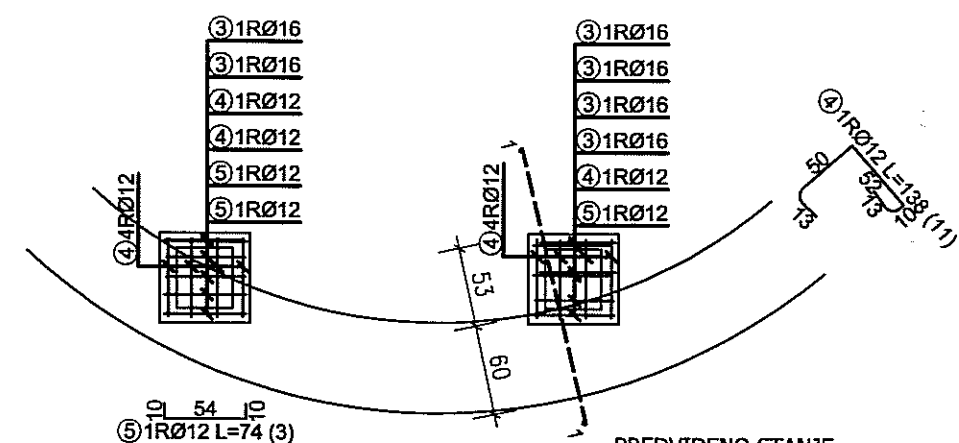
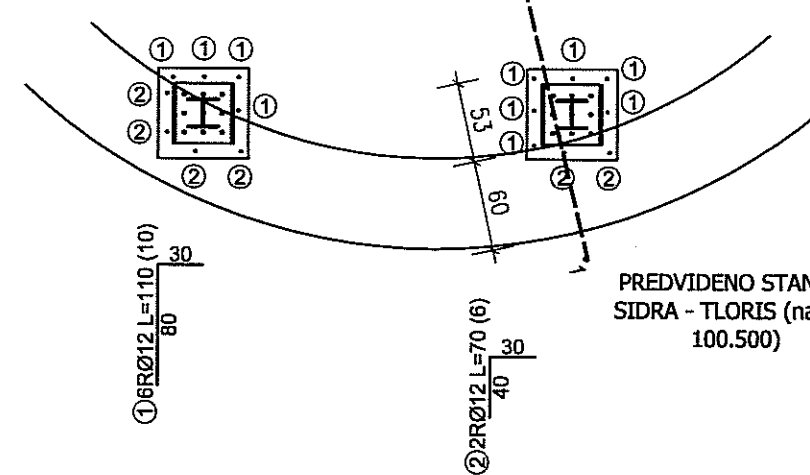
PREDVIDENO STANJE -
SIDRA - PREREZ

OBSTOJEČE STANJE - PREREZ

PREDVIDENO STANJE -
SIDRA - TLOVIS (na koti
100.500)

TEMELJI NASTAVKVI
OGRODJA CEVOVODOV
8kom.
(okvirji 04 do 08)

M 1:50

PREDVIDENO STANJE -
ARMATURA - PREREZPREDVIDENO STANJE -
SIDRA - PREREZPREDVIDENO STANJE -
ARMATURA - TLOVISPREDVIDENO STANJE -
SIDRA - TLOVIS (na koti
100.500)

REFERENCE:

430-040 REACTOR MAKE UP WATER FDN AND REFUELING
WATER STORAGE TANK FDN - REINFORCEMENT
PLACEMENT DRAWING - SLABS
430-035 REACTOR MAKE UP WATER FDN AND REFUELING
WATER STORAGE TANK FDN - REINFORCEMENT
PLACEMENT DRAWING - WALLS

E-418-031 COMPONENT COOLING BUILDING FLOOR SLAB EL.
94.21 PLAN - CONCRETE OUTLINE
E-418-042 COMPONENT COOLING BUILDING WALL EL. 93.610
THRU 100.300 - CONCRETE OUTLINE
E-418-061 COMPONENT COOLING BUILDING FL SLAB EL.
100.300 - CONCRETE OUTLINE
E-418-064 COMPONENT COOLING BUILDING - EQUIPMENT
FOUNDATION REINFORCEMENT - CONCRETE OUTLINE
E-418-081 COMPONENT COOLING BUILDING - WALL EL. 100.300
TO 107.87 - CONCRETE OUTLINE
E-418-201 COMPONENT COOLING BUILDING - FL. EL. 104.0 &
107.87 - PLAN CONCRETE OUTLINE

E-518-103 COMPONENT COOLING BUILDING - PIPING SUPPORTS
MISCELLANEOUS STEEL PLAN AND DETAILS
E-518-104 COMPONENT COOLING BUILDING YARD - PIPING SUPPORTS
MISCELLANEOUS STEEL PLAN AND DETAILS
E-518-105 COMPONENT COOLING BUILDING YARD - PIPING SUPPORTS
MISCELLANEOUS STEEL PLAN AND DETAILS
E-518-106 COMPONENT COOLING BUILDING YARD - PIPING SUPPORTS
MISCELLANEOUS STEEL PLAN AND DETAILS

E-418-203 COMPONENT COOLING BUILDING YARD - CZ SYSTEM
CHILLERS FOUNDATIONS, EL. 100.600 - CONCRETE OUTLINE
E-418-204 COMPONENT COOLING BUILDING YARD - CZ SYSTEM
CHILLERS FOUNDATIONS, EL. 100.600 - CONCRETE OUTLINE
E-418-205 COMPONENT COOLING BUILDING YARD - CZ SYSTEM
CHILLERS FOUNDATIONS, EL. 100.600 - CONCRETE OUTLINE
E-418-206 COMPONENT COOLING BUILDING YARD - CZ SYSTEM
CHILLERS FOUNDATIONS, EL. 100.600 - CONCRETE OUTLINE
E-418-207 COMPONENT COOLING BUILDING YARD - CZ SYSTEM
CHILLERS FOUNDATIONS, EL. 100.600 - CONCRETE OUTLINE
E-418-209 COMPONENT COOLING BUILDING YARD - CZ SYSTEM
CHILLERS FOUNDATIONS, EL. 100.600 - CONCRETE OUTLINE
E-418-210 COMPONENT COOLING BUILDING YARD - CZ SYSTEM
CHILLERS FOUNDATIONS, EL. 100.600 - CONCRETE OUTLINE
E-418-211 COMPONENT COOLING BUILDING YARD - CZ SYSTEM
CHILLERS FOUNDATIONS, EL. 100.600 - CONCRETE OUTLINE
E-418-212 COMPONENT COOLING BUILDING YARD - CZ SYSTEM
CHILLERS FOUNDATIONS, EL. 100.600 - CONCRETE OUTLINE

OPOMBE:

- 1.) KOTA 100.000 NA NAČRTIH POMENI 155.200m
NADMORSKE VIŠINE V NARAVI
- 2.) ARMATURNE RABRASTE SIDRNE PALICE SO Ø12mm,
NOSILNOST 50kN/cm²
- 3.) IZVRTINE ZA SIDRNE PALICE SO Ø16mm
- 4.) GLOBINA IZVRTINE JE 30cm

Original Design Firm: **SIPRO INŽENIRING d.o.o.**
Replaced Manual Drawing: **N/A**
Last Revision And Date: **N/A**

THIS IS A CAD DRAWING AND SHOULD NOT BE REVISED OR MODIFIED MANUALLY

REFERENCE DRAWINGS:

DATE: 10.2010 BY: **SIPRO** REVISION: **1** DOK. BY: **LE APPL.**

DATE: 10.2010 BY: **SIPRO** REVISION: **1** DOK. BY: **LE APPL.**

DATE: 10.2010 BY: **SIPRO** REVISION: **1** DOK. BY: **LE APPL.**

DATE: 10.2010 BY: **SIPRO** REVISION: **1** DOK. BY: **LE APPL.**

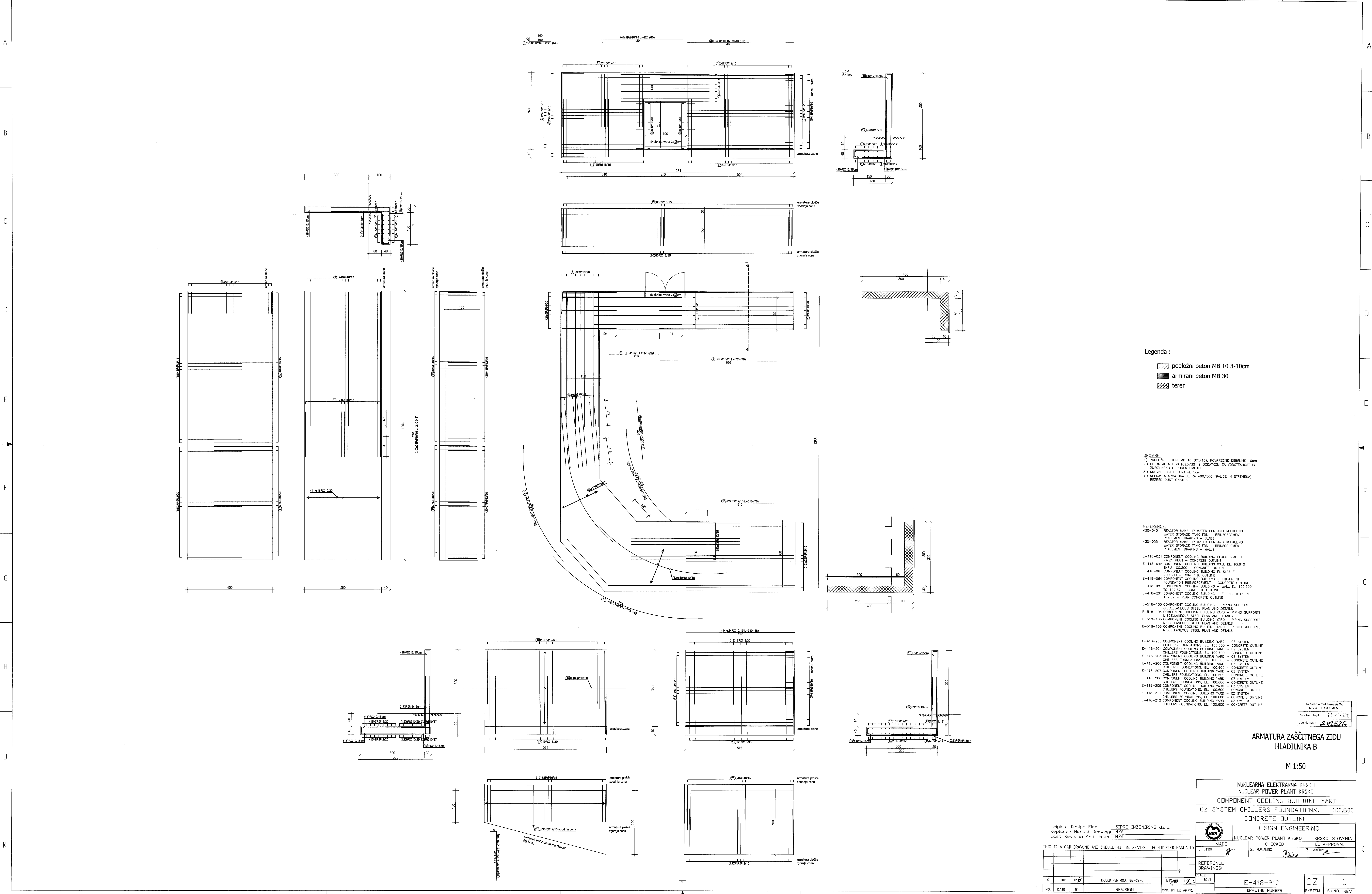
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Date Received:	25-10-2010
Log Number:	242524

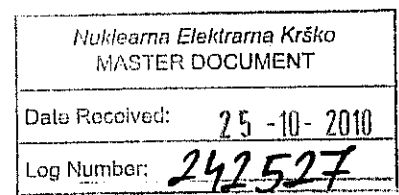
TEMELJI NASTAVKI ZUNANJH
CEVOVODOV

M 1:50

NUKLEARNA ELEKTRARNA KRŠKO NUCLEAR POWER PLANT KRŠKO	
COMPONENT COOLING BUILDING YARD	
CZ SYSTEM CHILLERS FOUNDATIONS, EL.100.600	
CONCRETE OUTLINE	
DESIGN ENGINEERING	
NUCLEAR POWER PLANT KRŠKO, SLOVENIA	
LE APPROVAL	
MADE IN SLOVENIA	
E-418-208	
DRAWING NUMBER	
SYSTEM / SLOVENIA	







NUKLEARNA ELEKTRARNA KRSKO NUCLEAR POWER PLANT KRSKO				
COMPONENT COOLING BUILDING YARD				
CZ SYSTEM CHILLERS FOUNDATIONS, EL.100.600				
CONCRETE OUTLINE				
DESIGN ENGINEERING				
		NUCLEAR POWER PLANT KRSKO		KRSKO, SLOVENIA
LY	MADE	CHECKED	LE APPROVAL	
	SPRO <i>B</i>	M. PLANINC <i>Planinc</i>	3. J. KERN <i>Kern</i>	
REFERENCE DRAWINGS:				
SCALE	E-418-211		CZ	0
1/50	DRAWING NUMBER		SYSTEM	SH.NO. REV

J

I

H

G

F

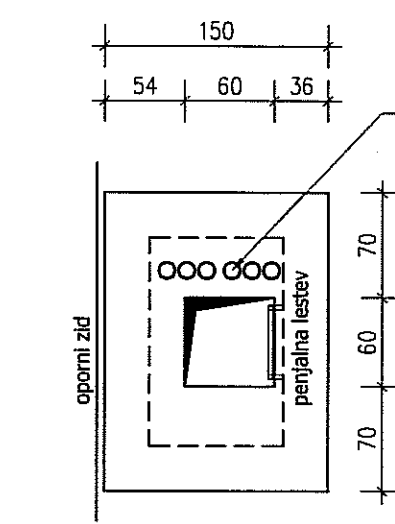
E

D

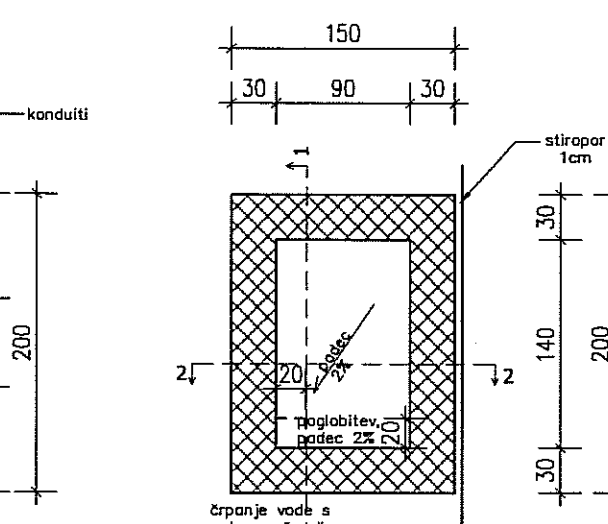
C

B

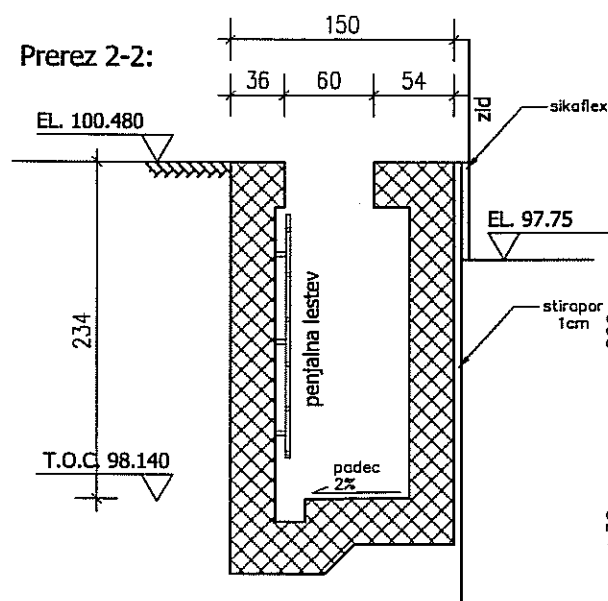
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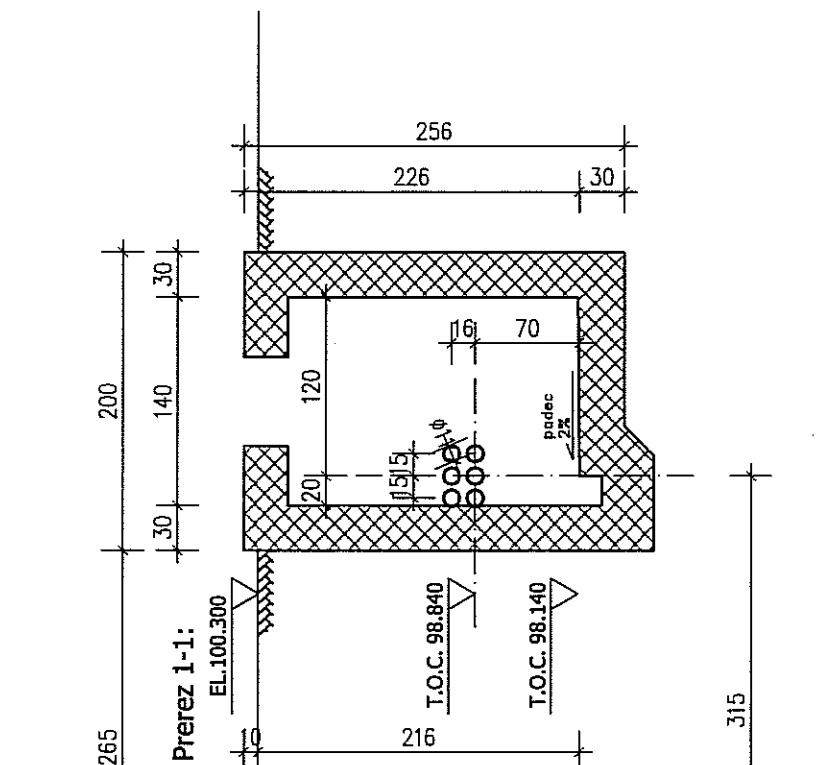
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Tloris na višini 1m nad dnom:

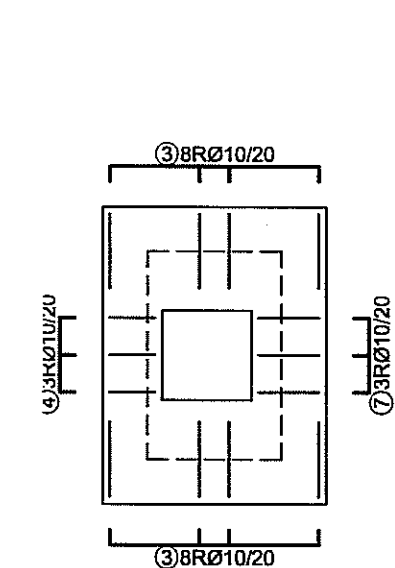


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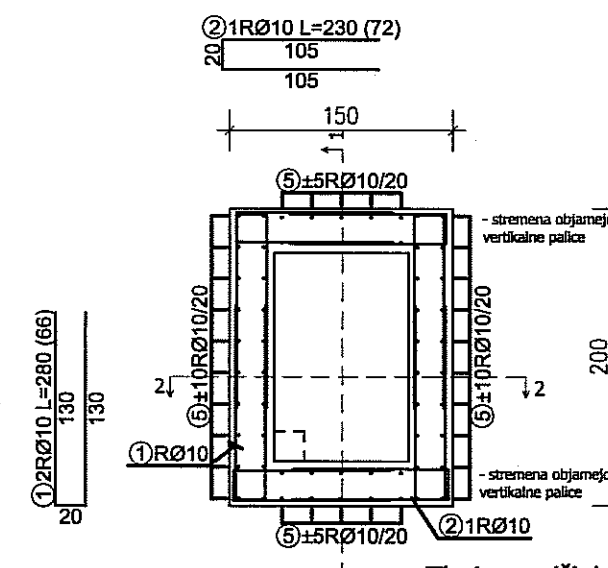


Prerez 1-1:

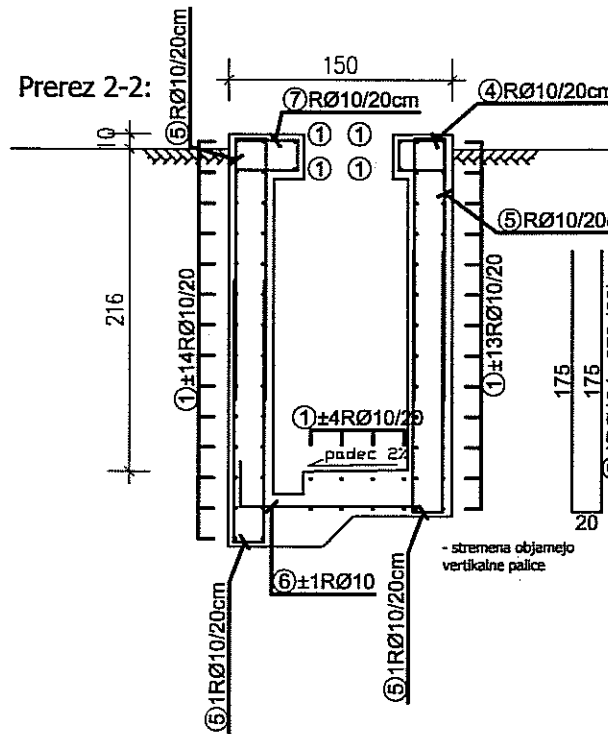
REVIZIJSKI JAŠEK MHE-20



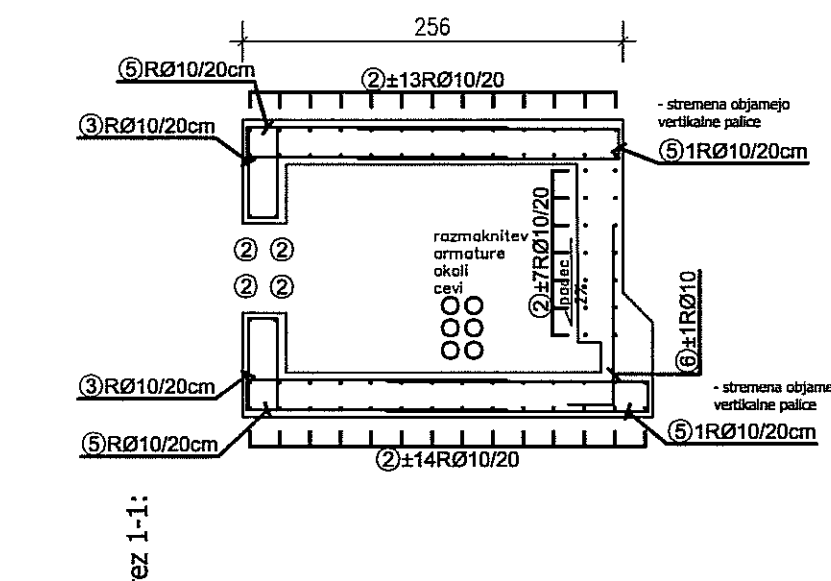
Pogled z vrha:



Tloris na višini 1m nad dnom:

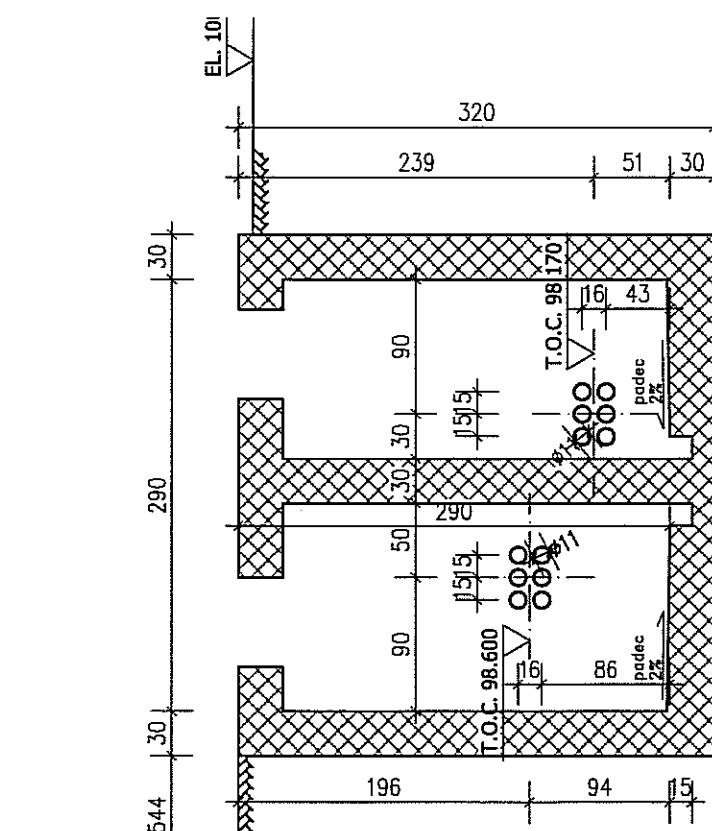


Prerez 2-2:

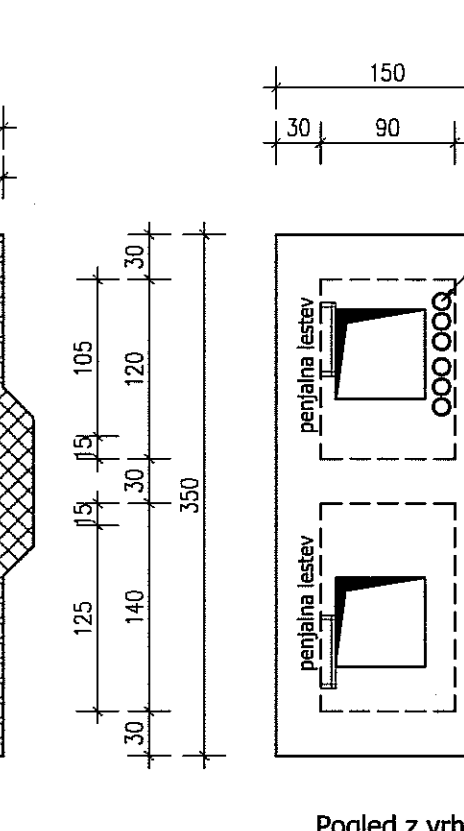


Prerez 1-1:

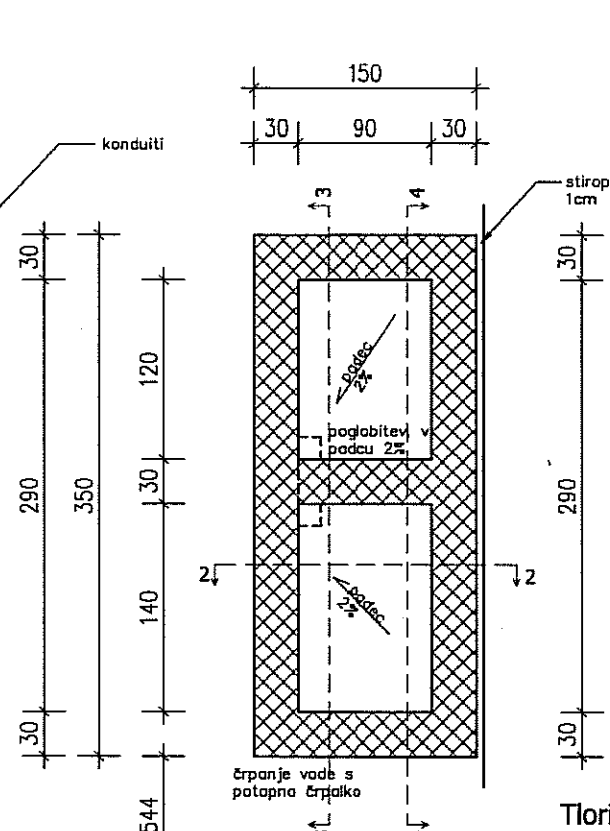
REVIZIJSKI JAŠEK MHE-20



Prerez 3-3:

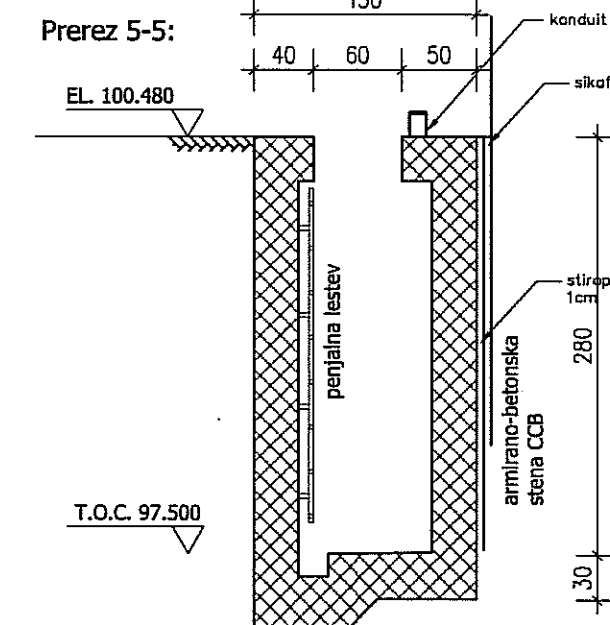


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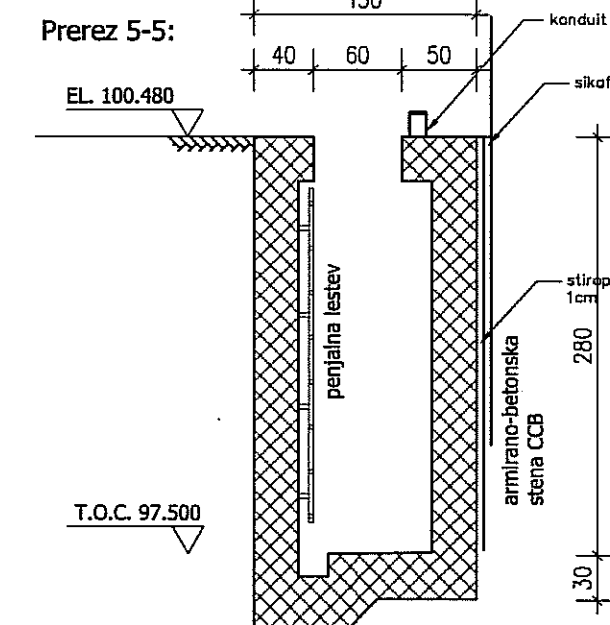


Prerez 5-5:

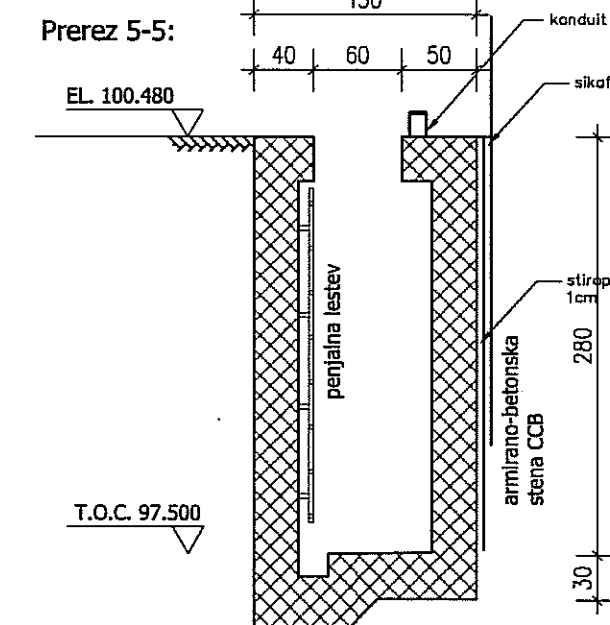
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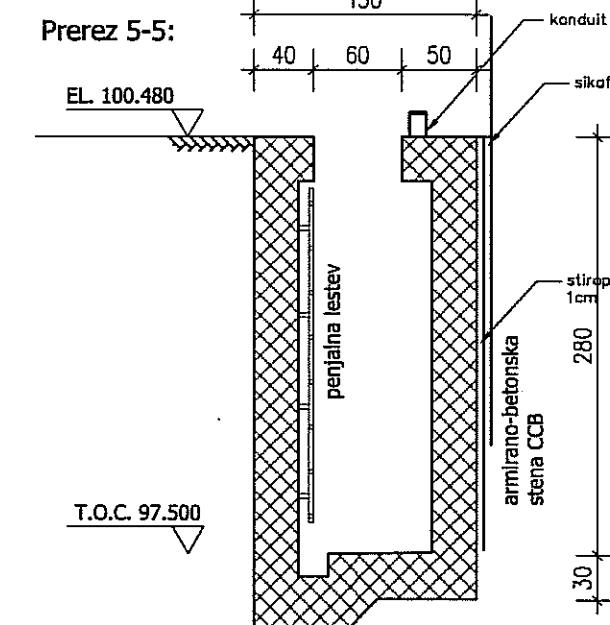
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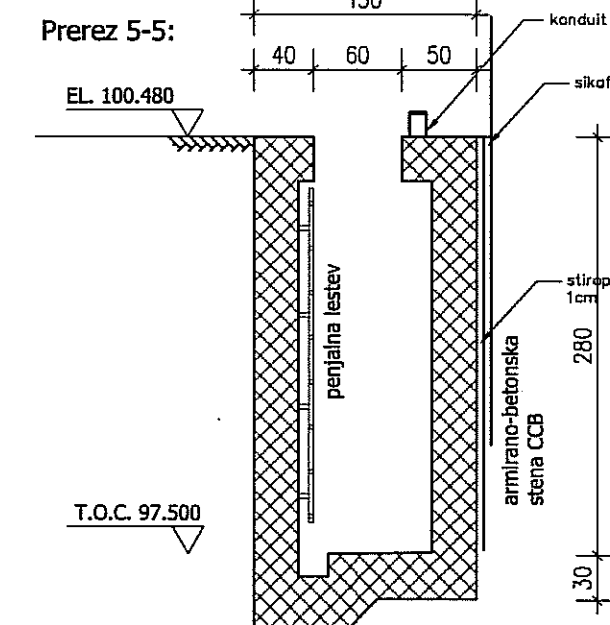
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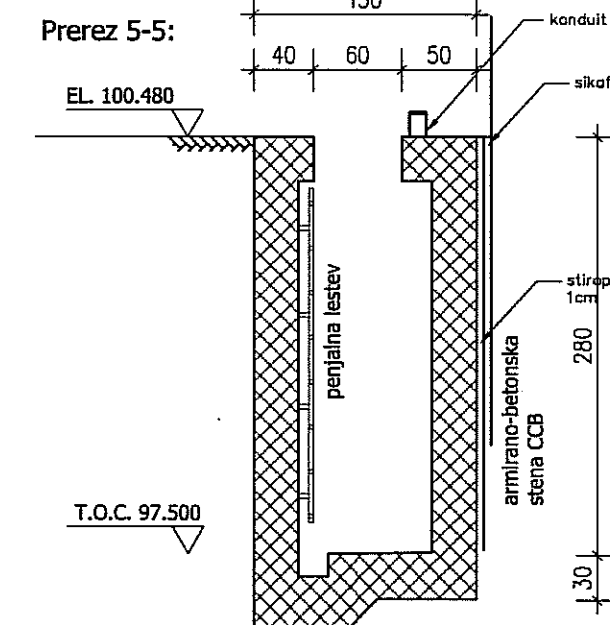
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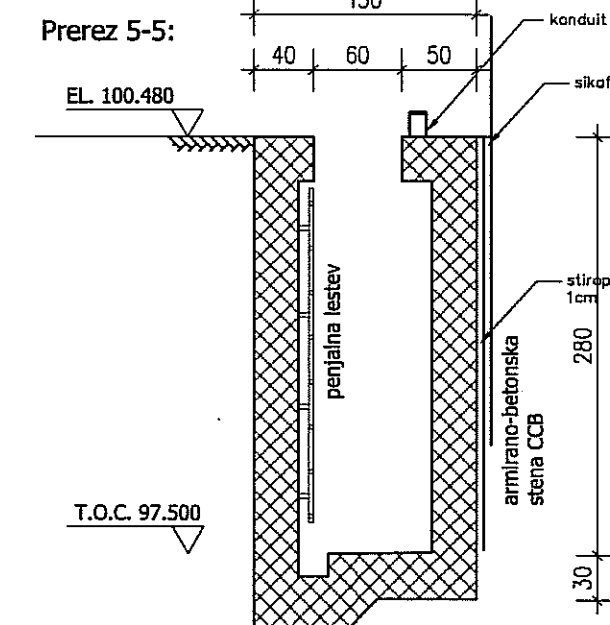
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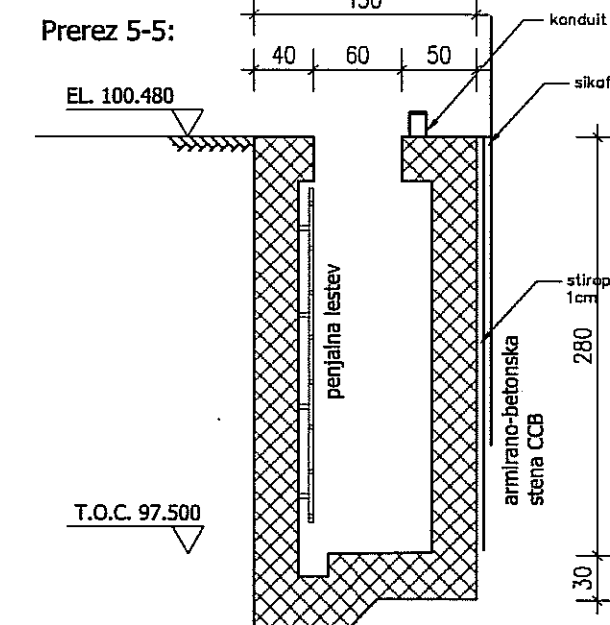
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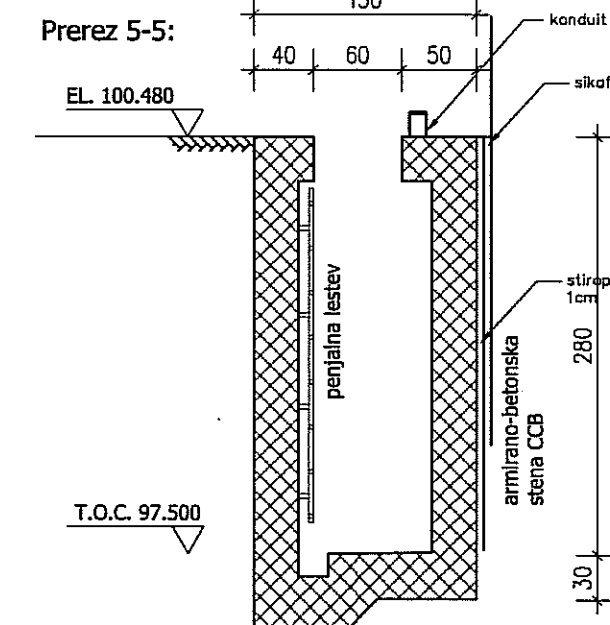
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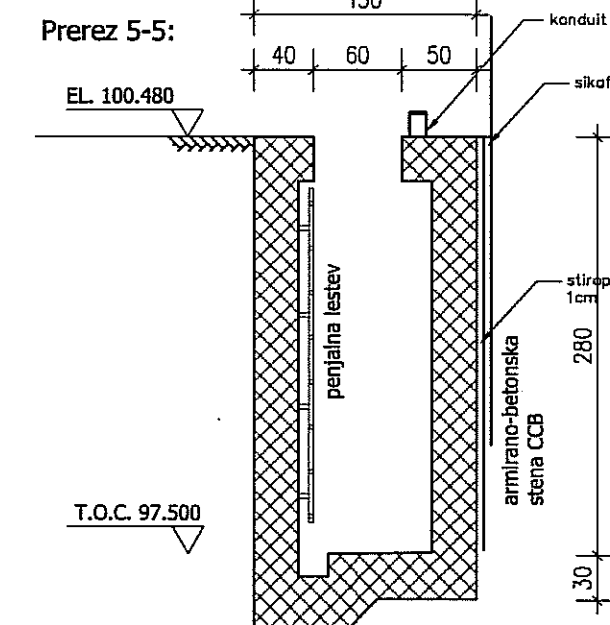
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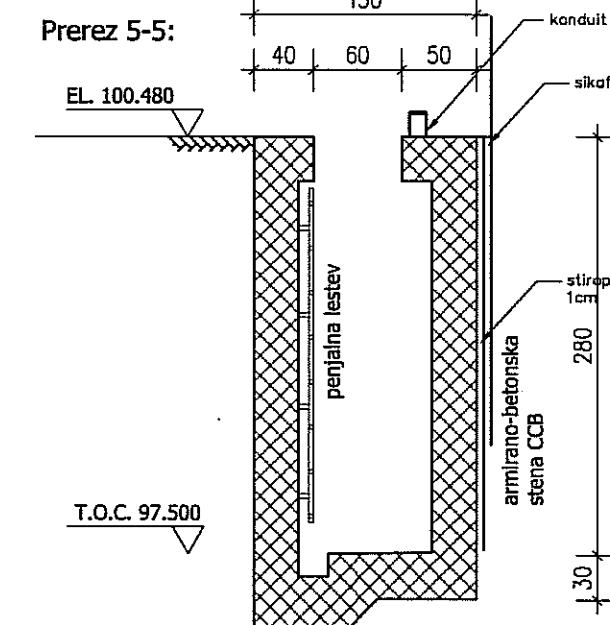
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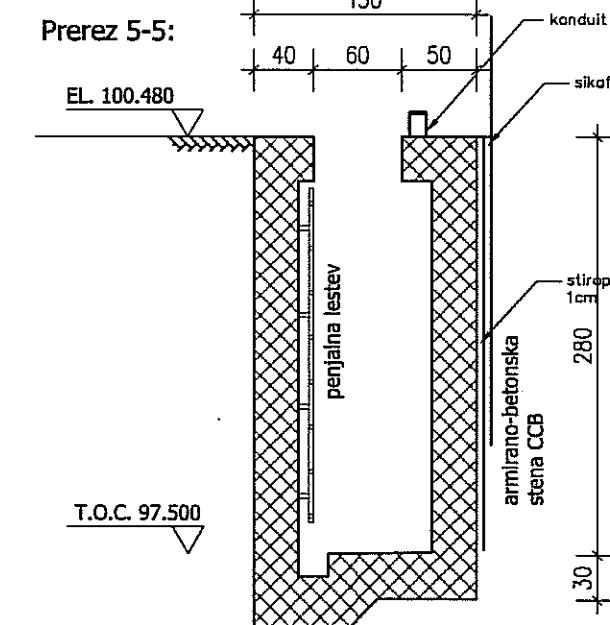
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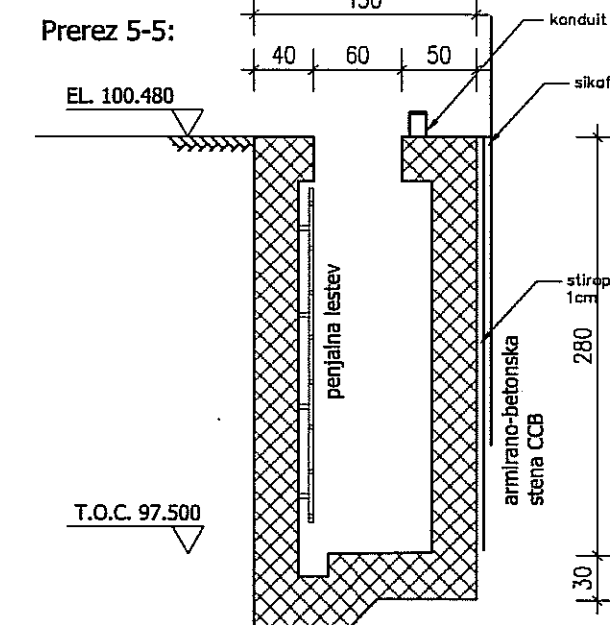
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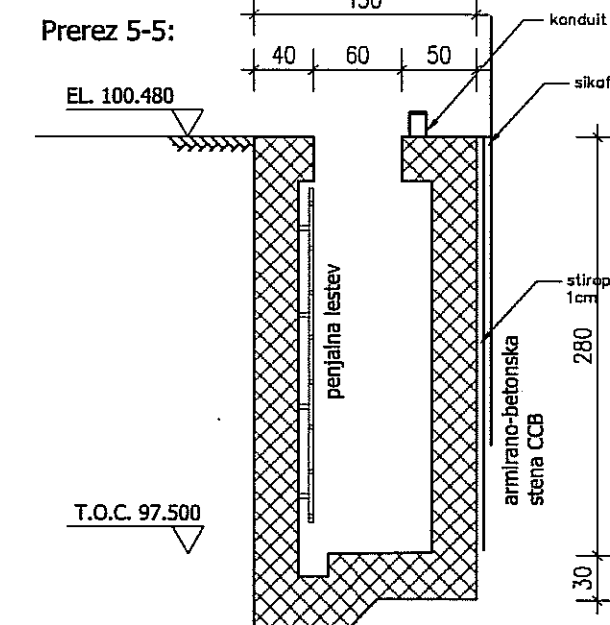
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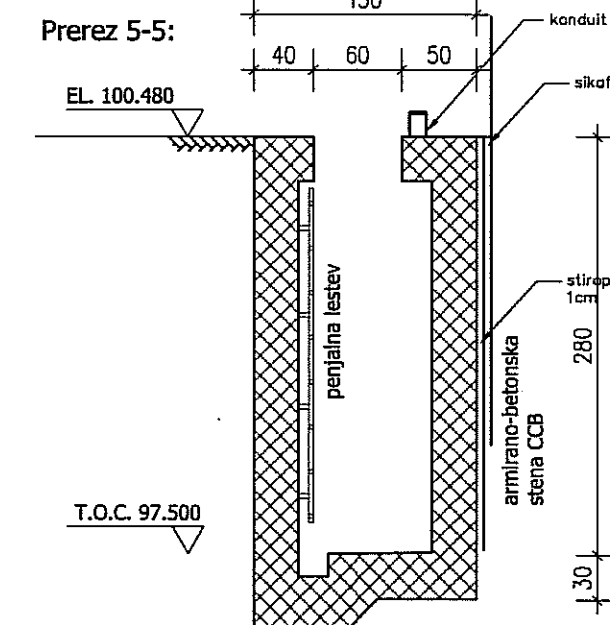
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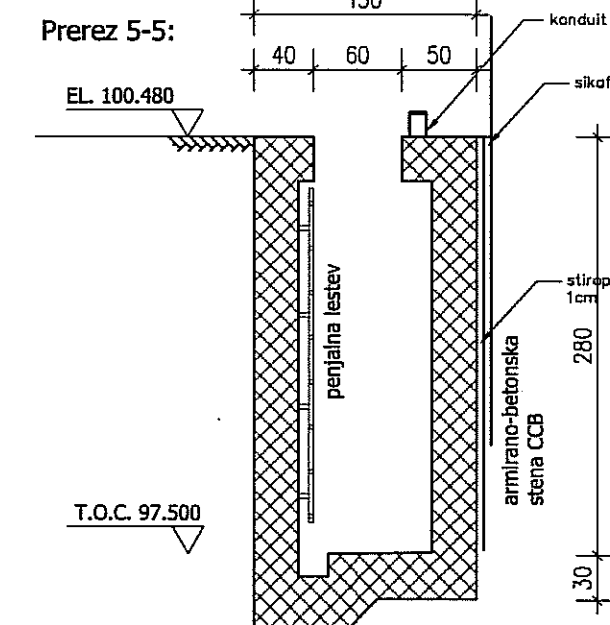
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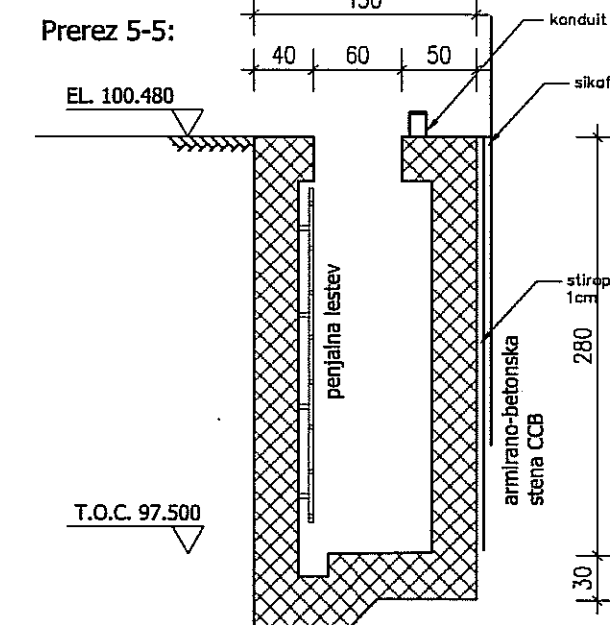
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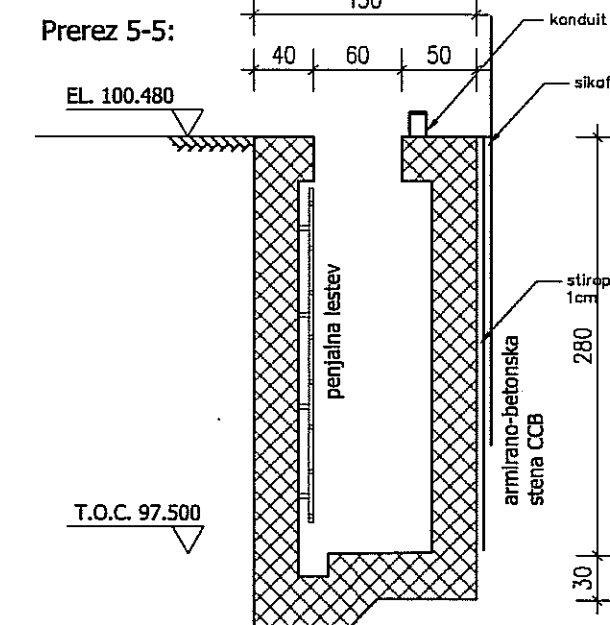
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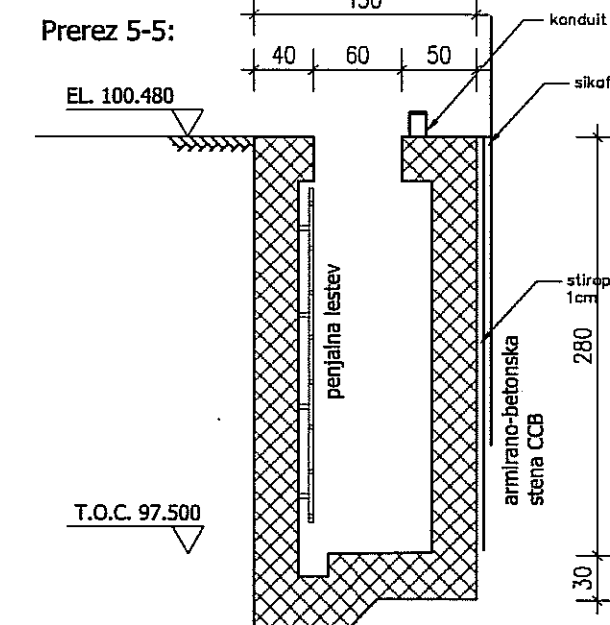
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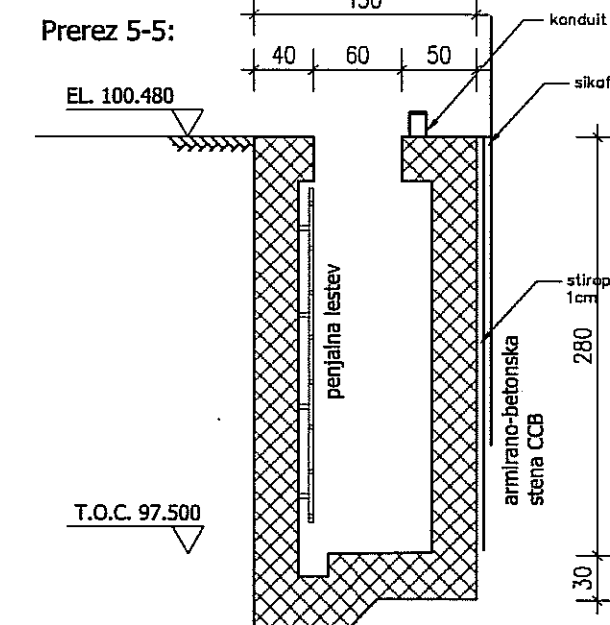
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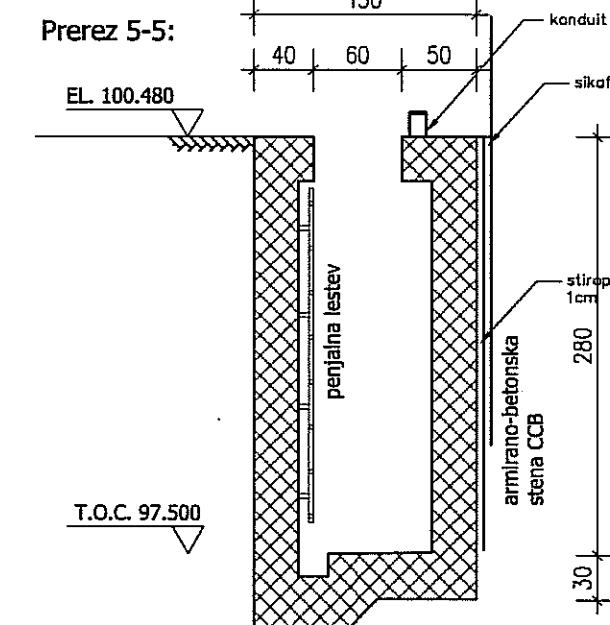
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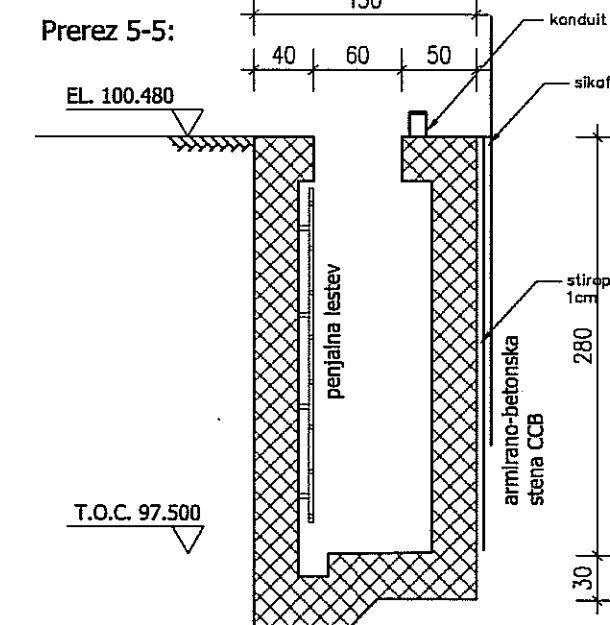
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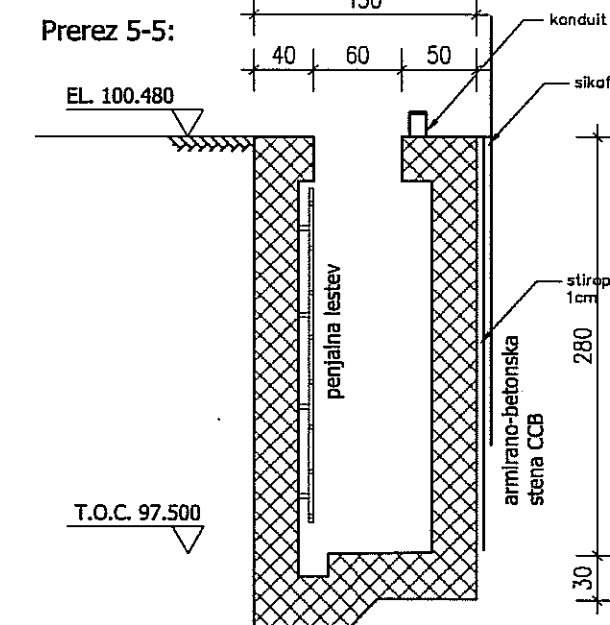
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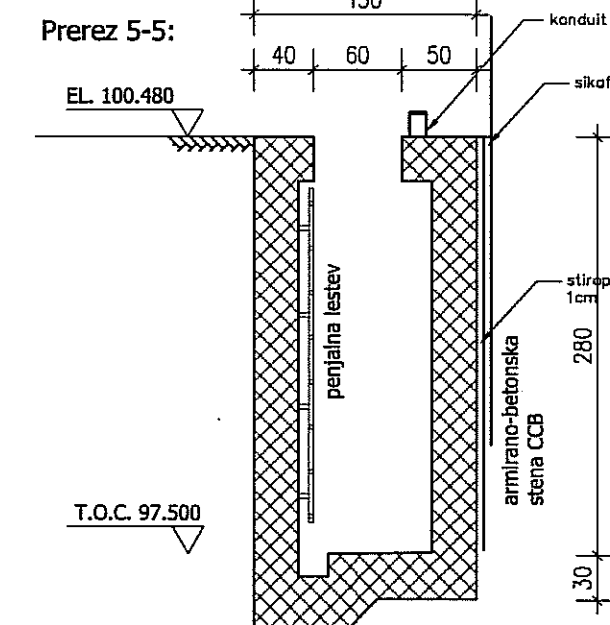
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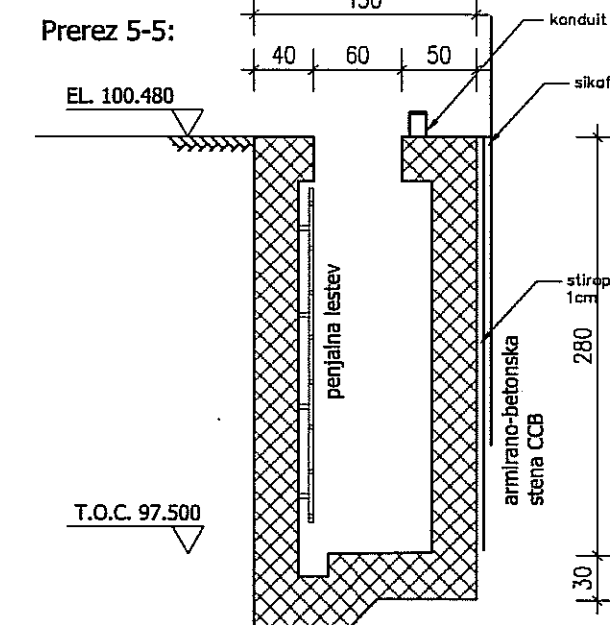
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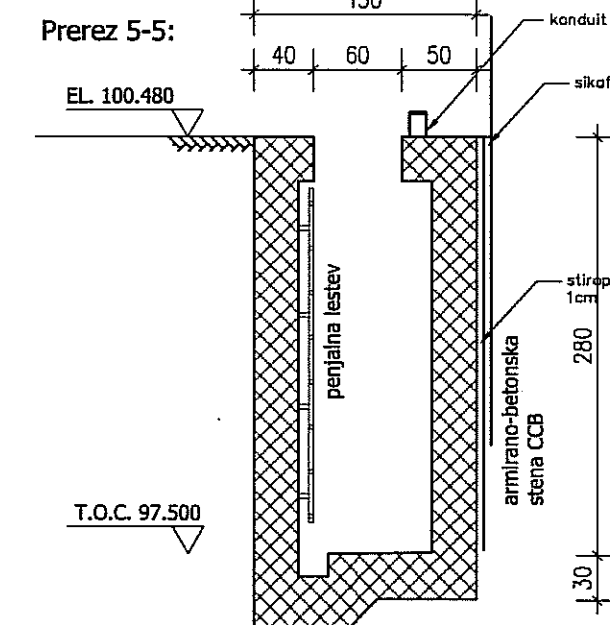
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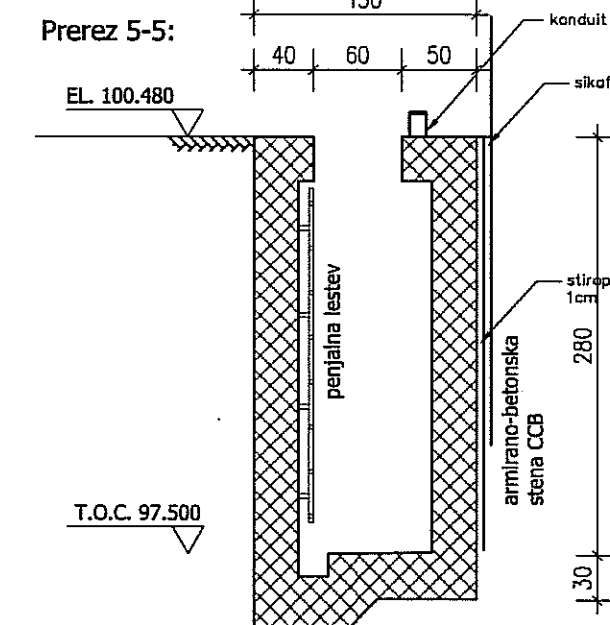
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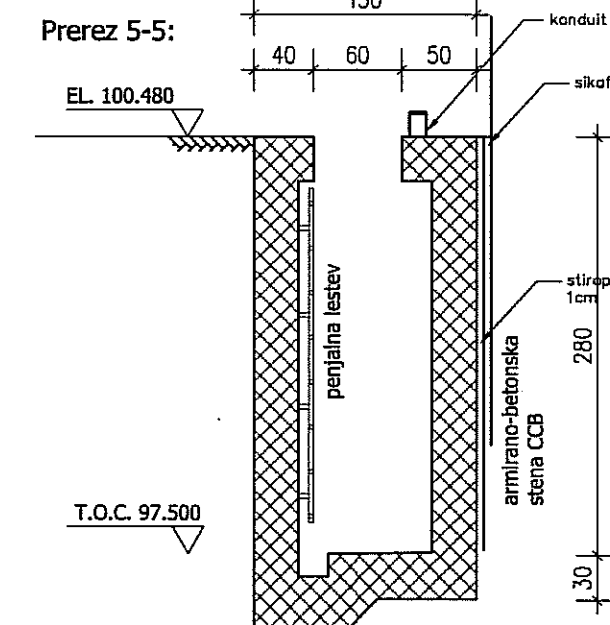
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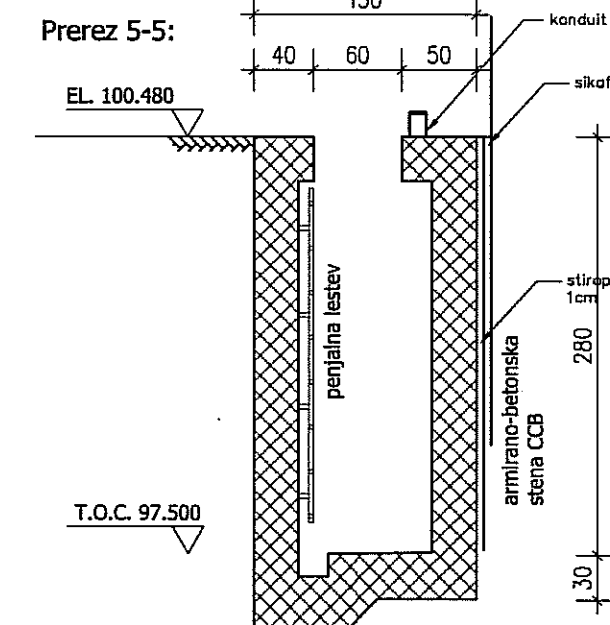
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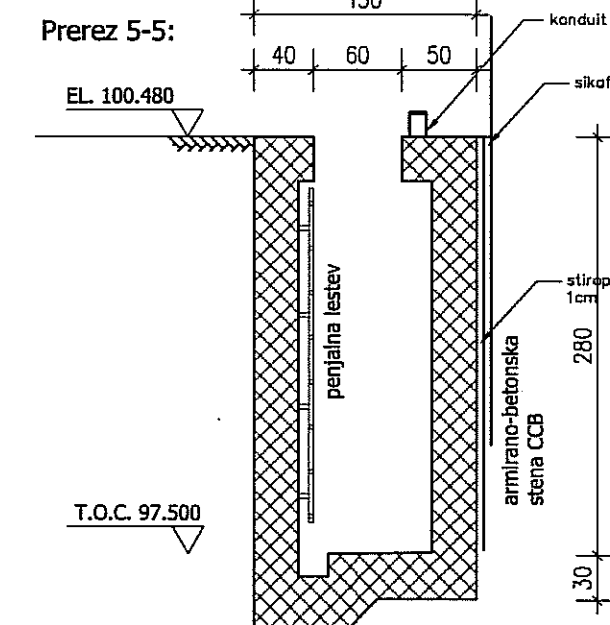
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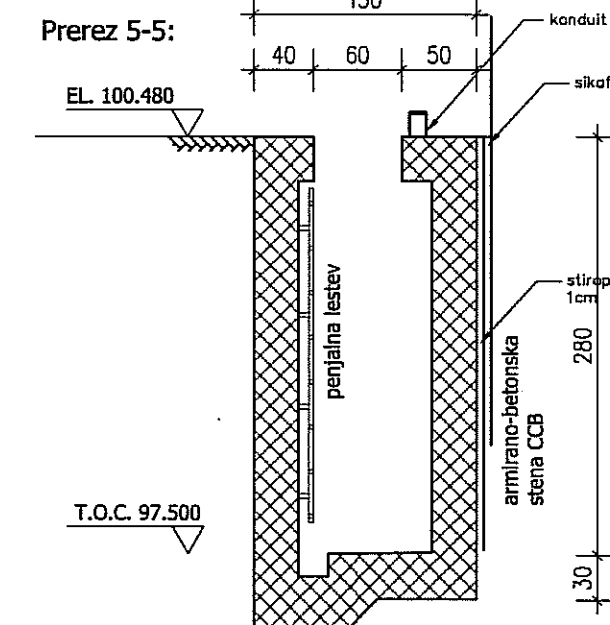
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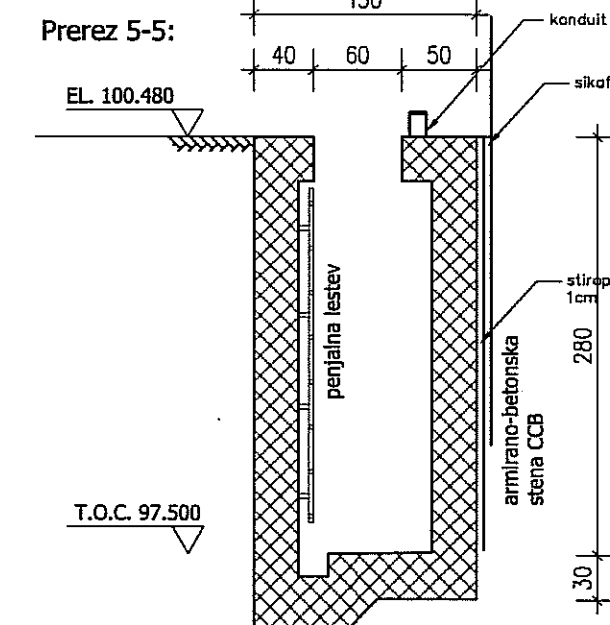
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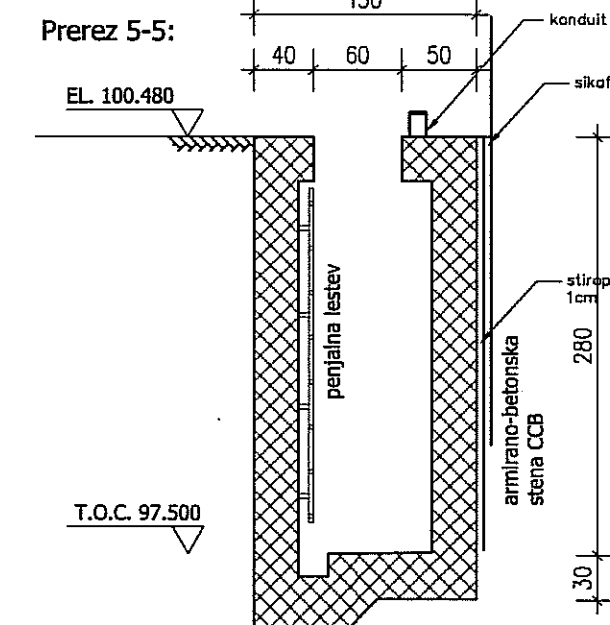
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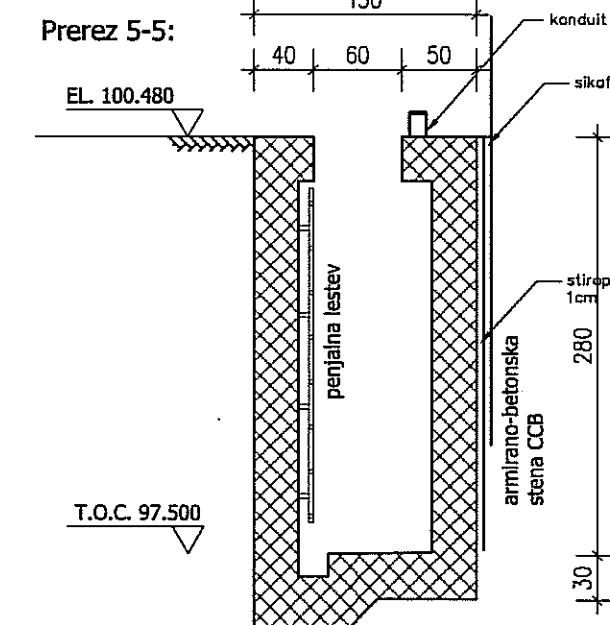
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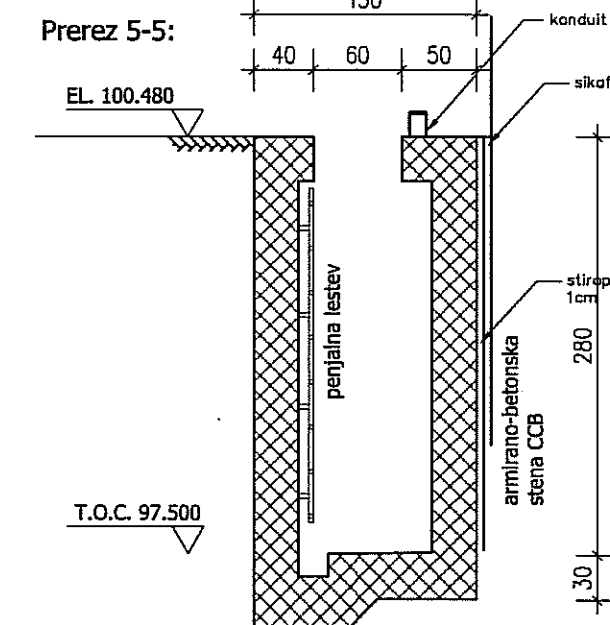
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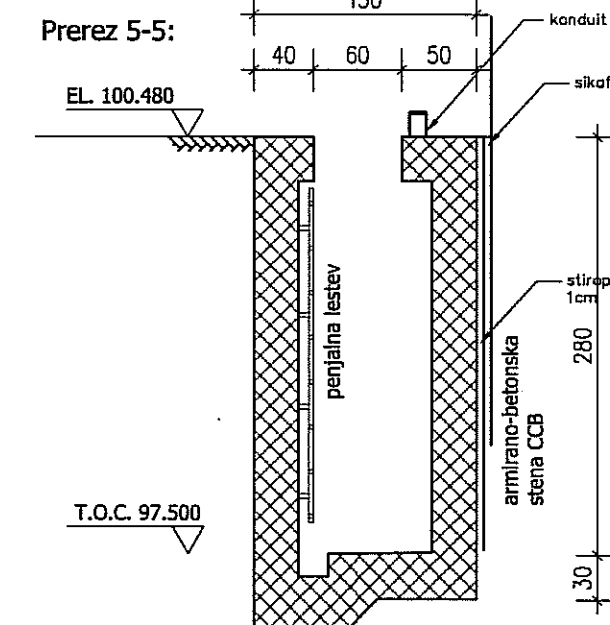
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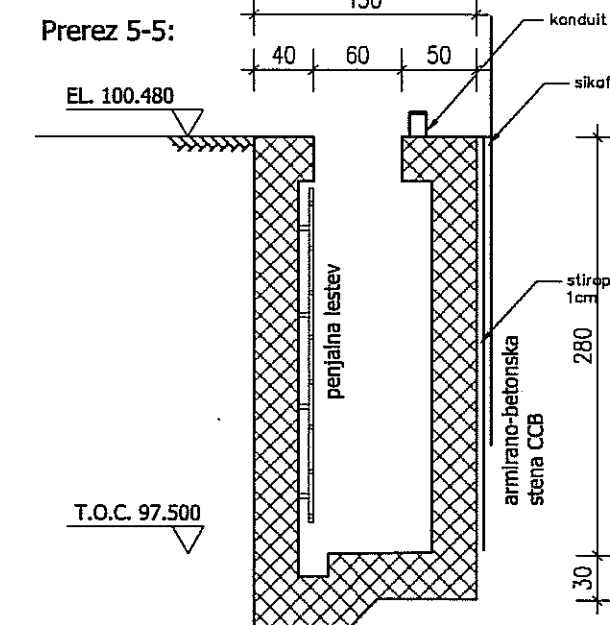
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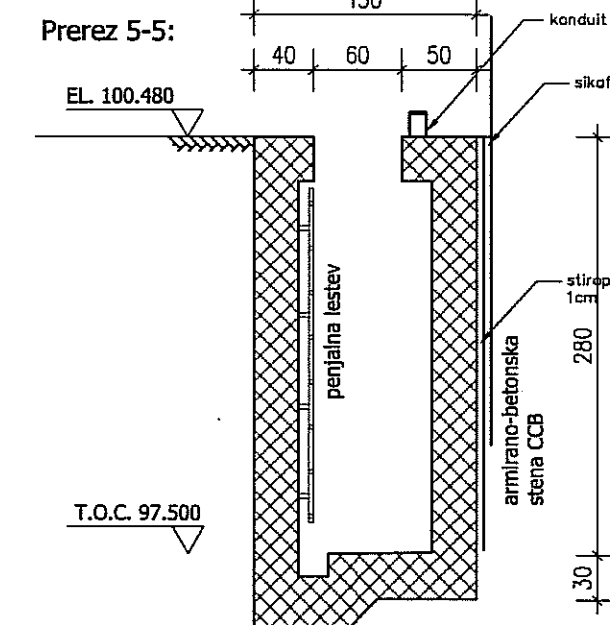
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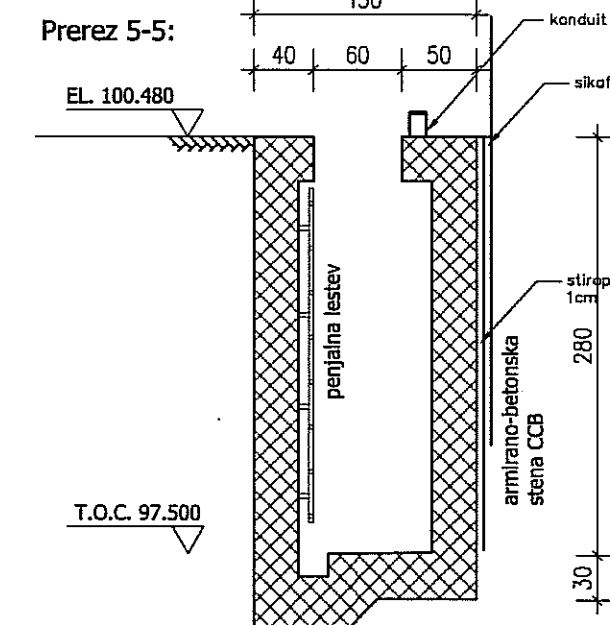
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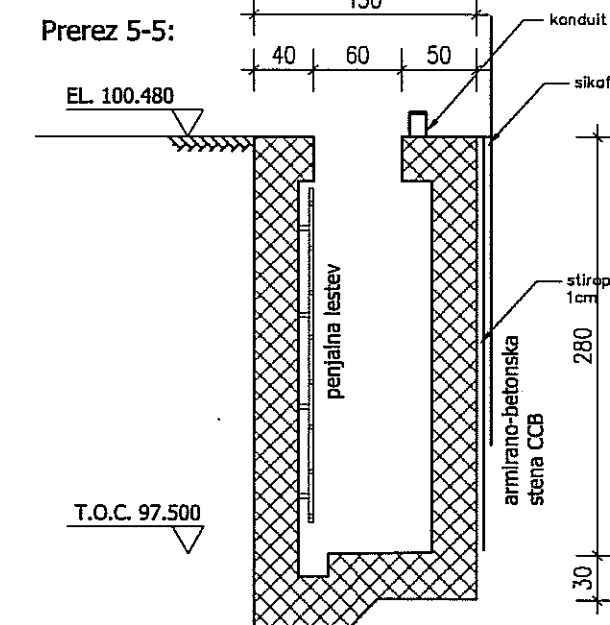
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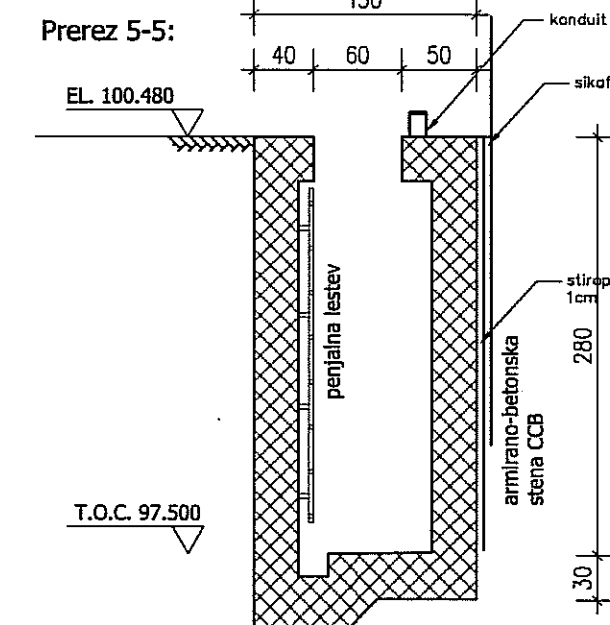
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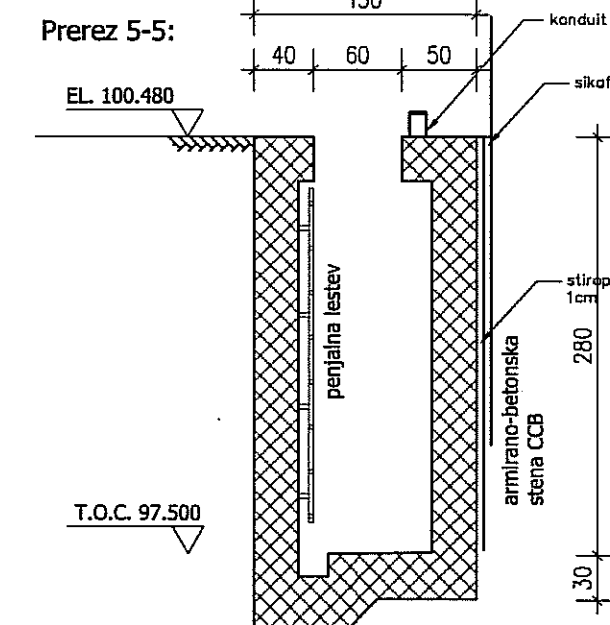
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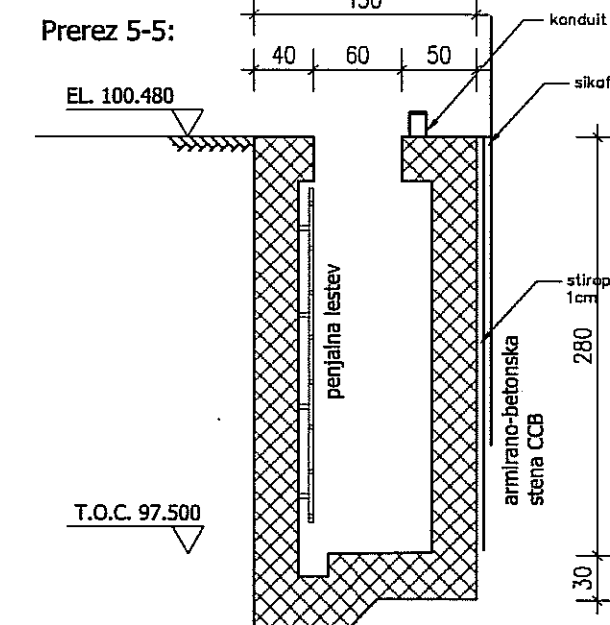
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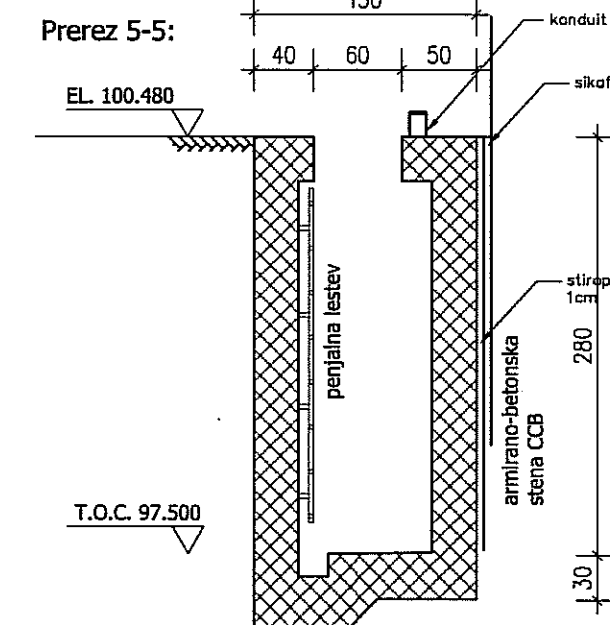
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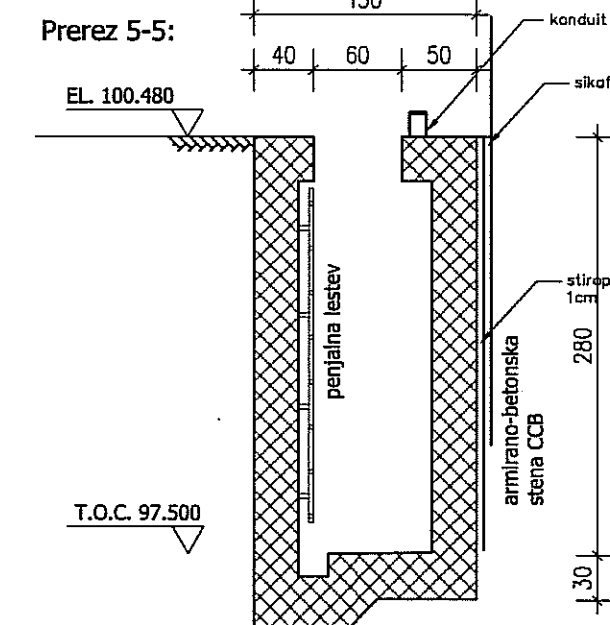
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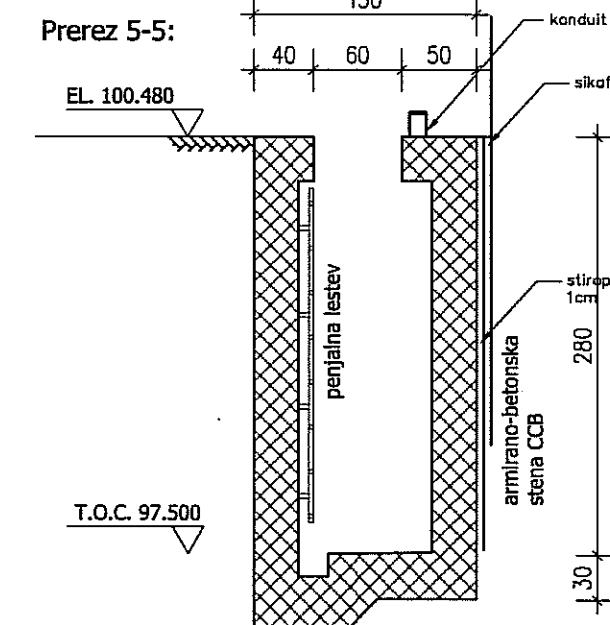
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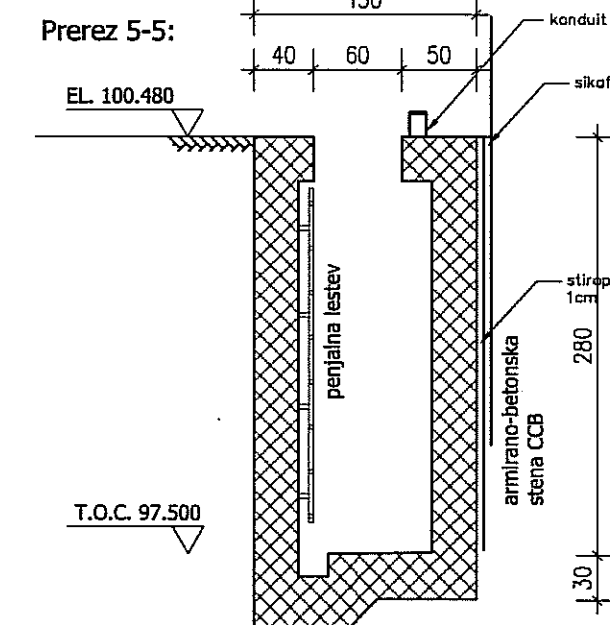
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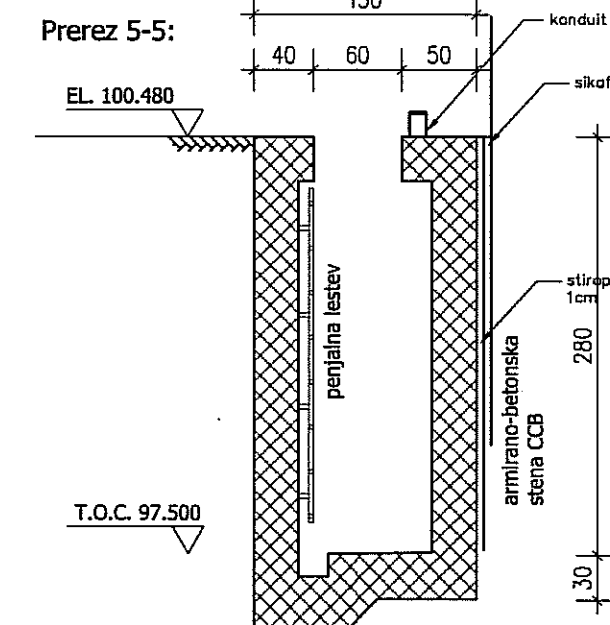
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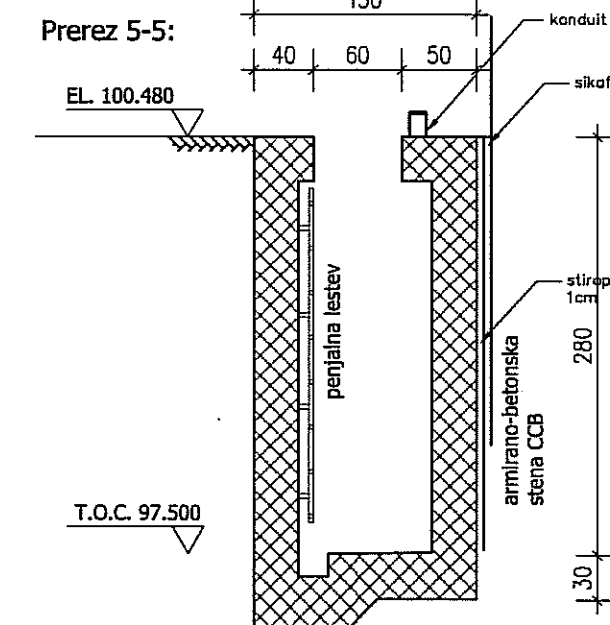
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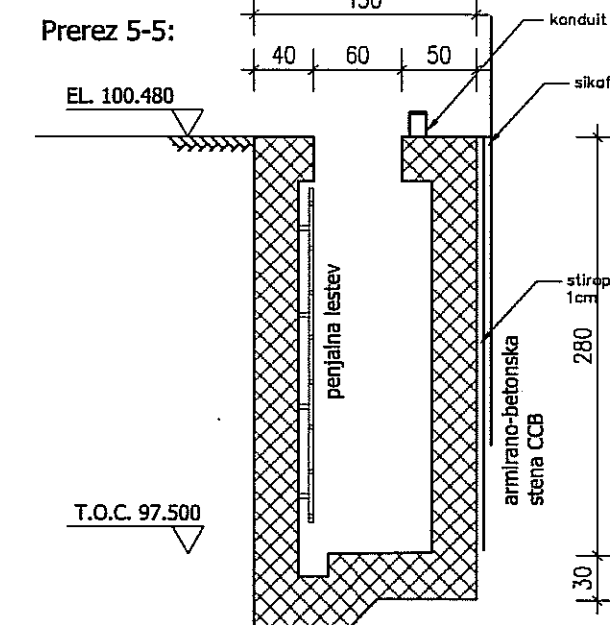
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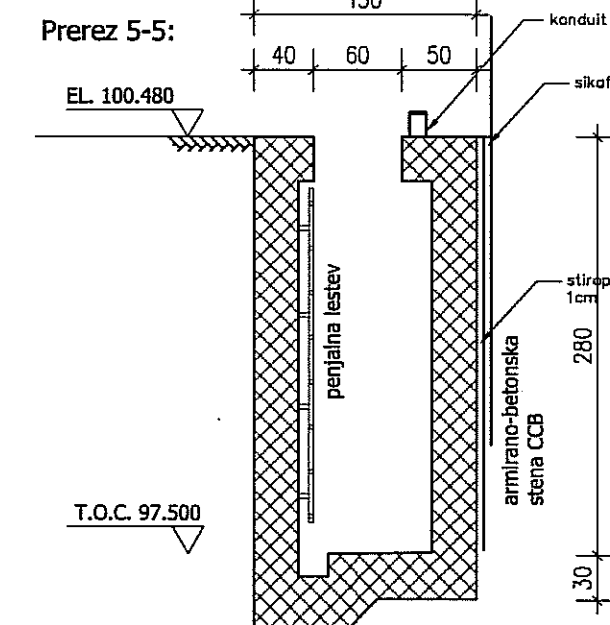
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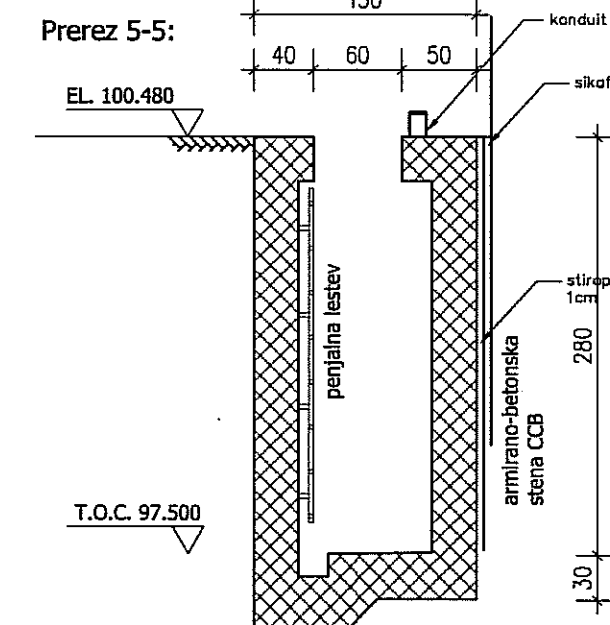
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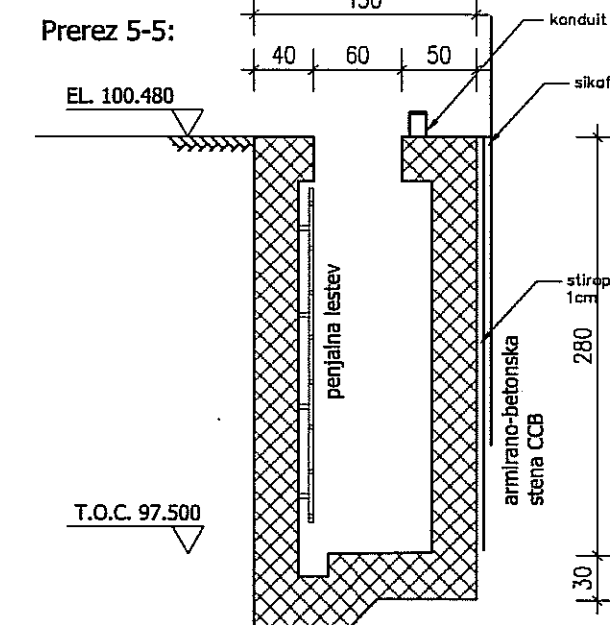
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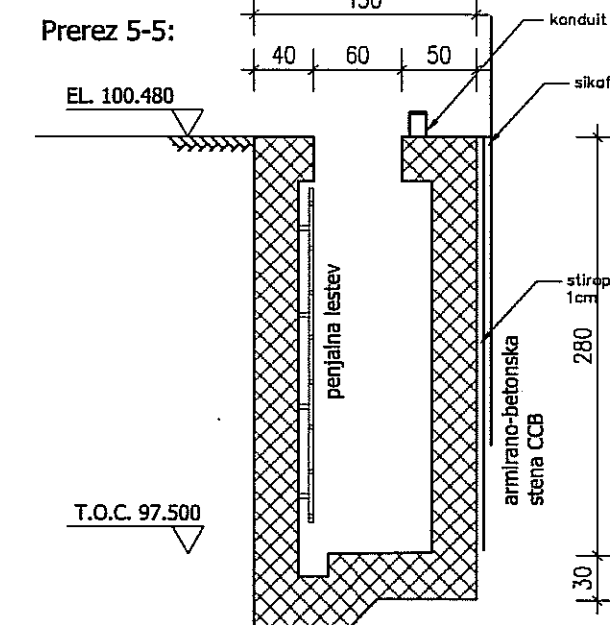
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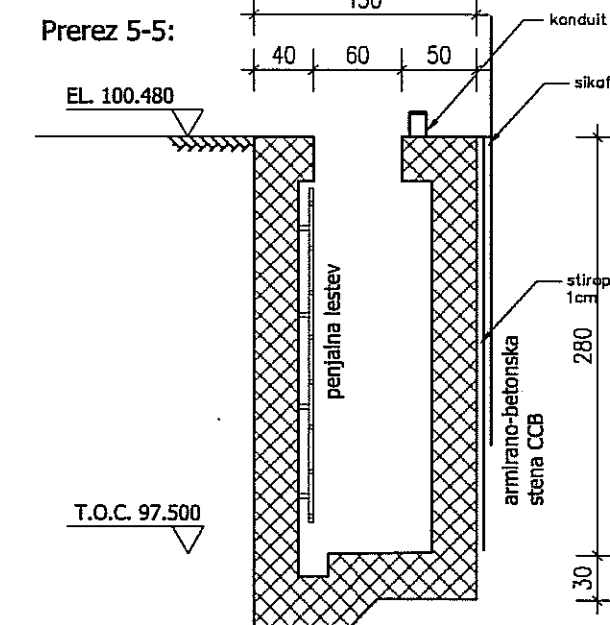
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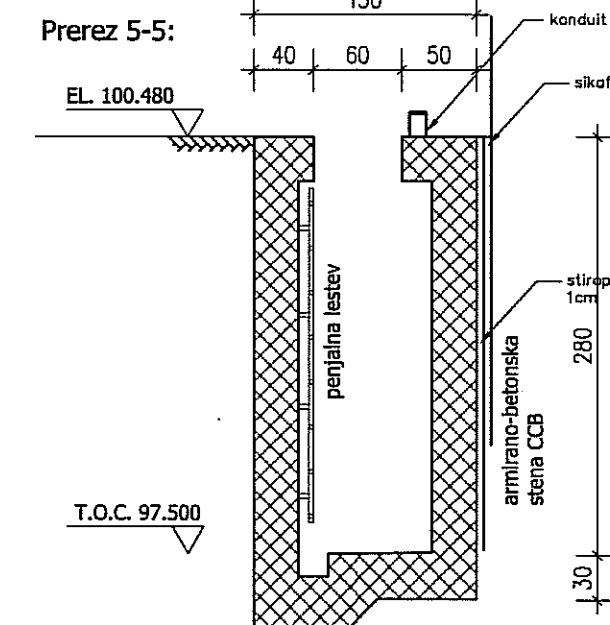
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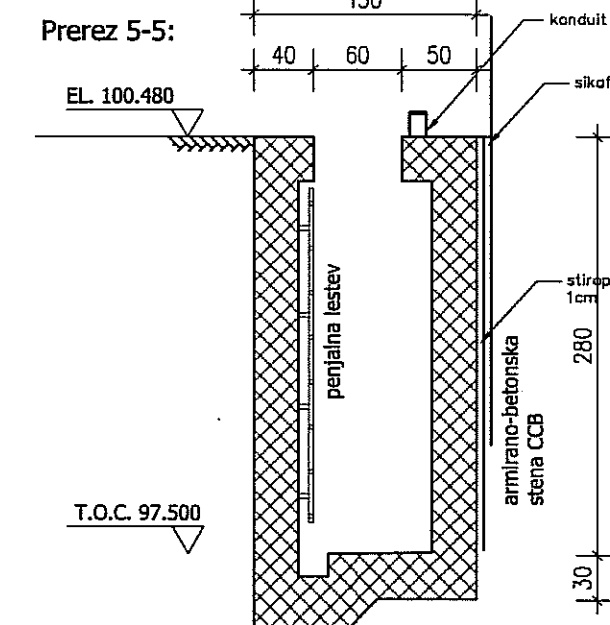
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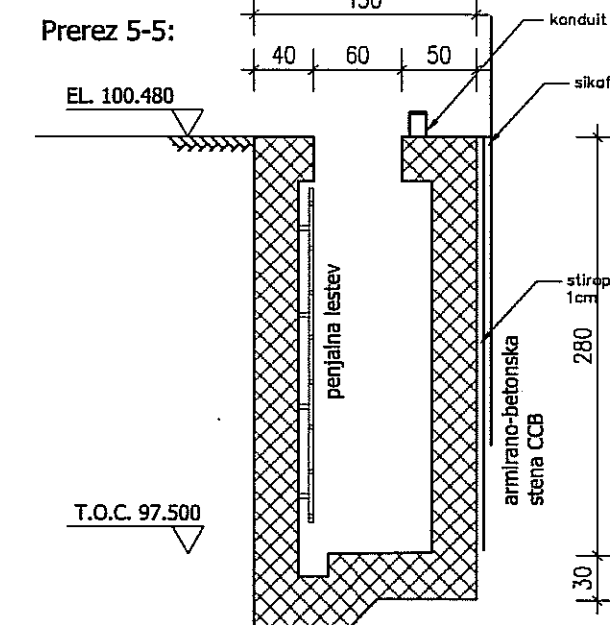
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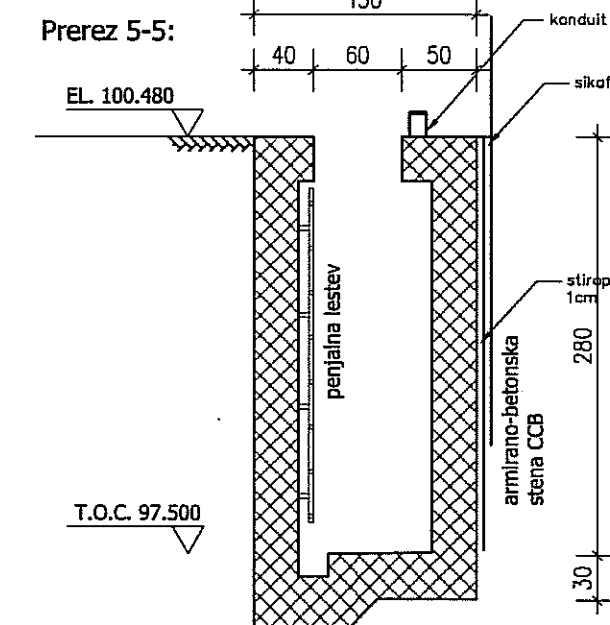
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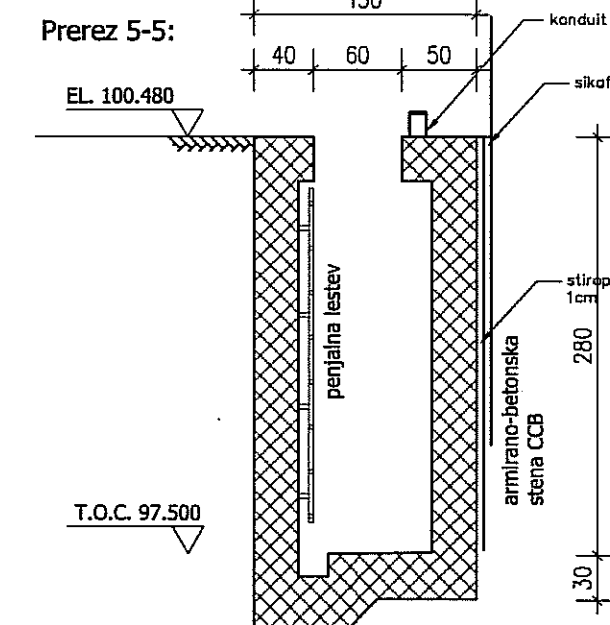
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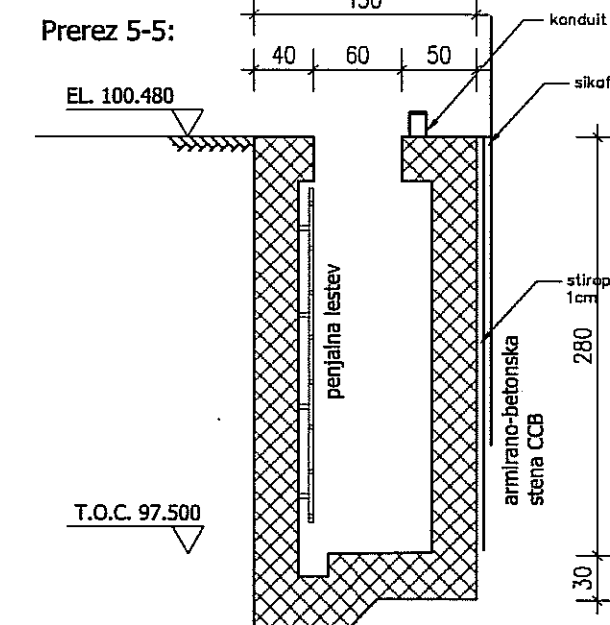
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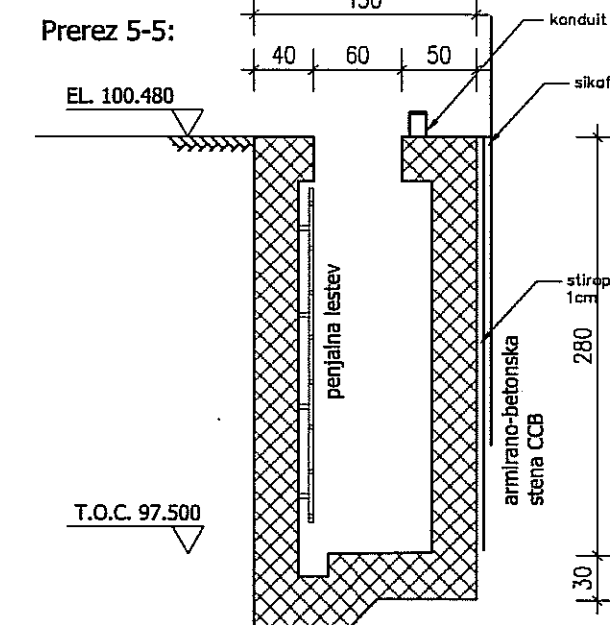
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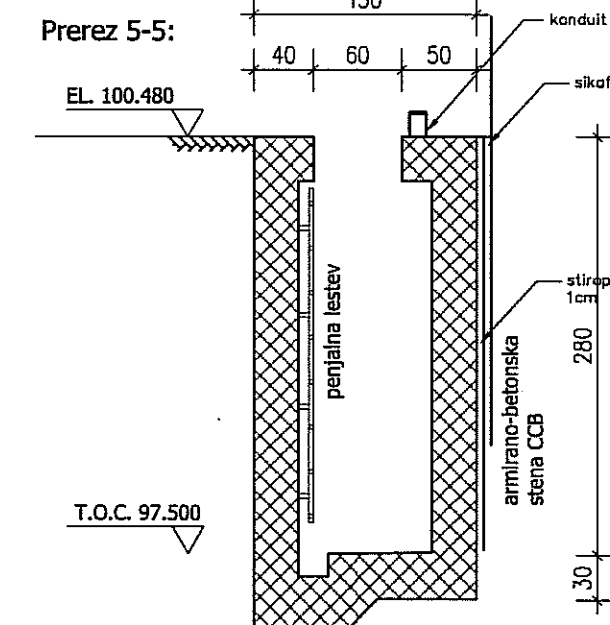
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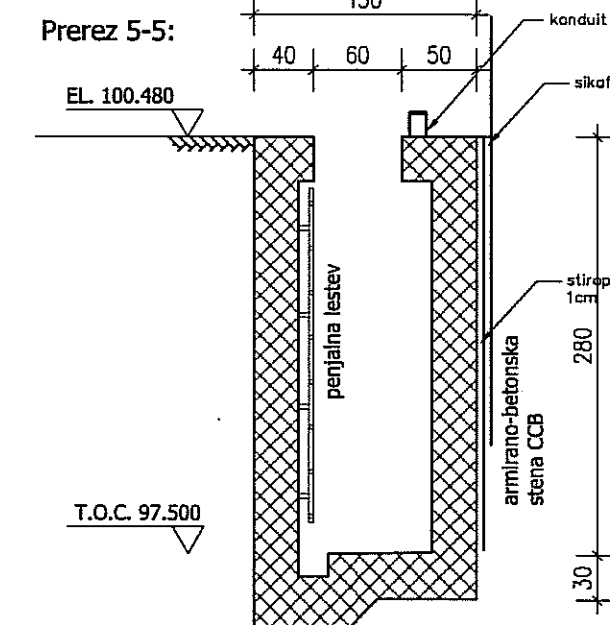
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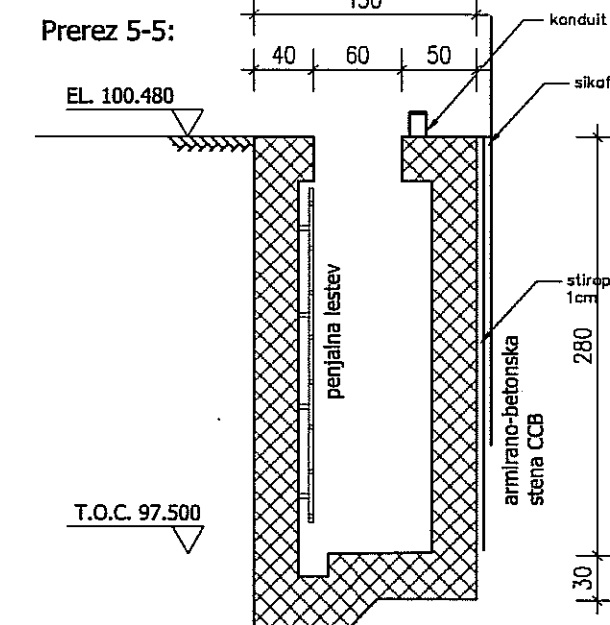
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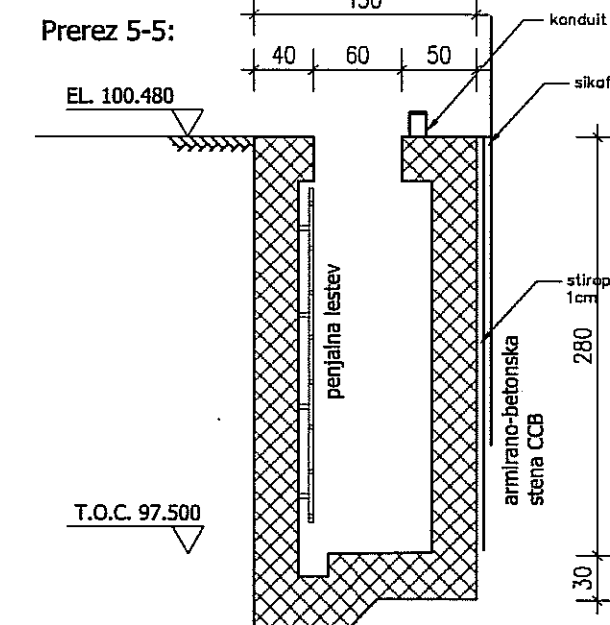
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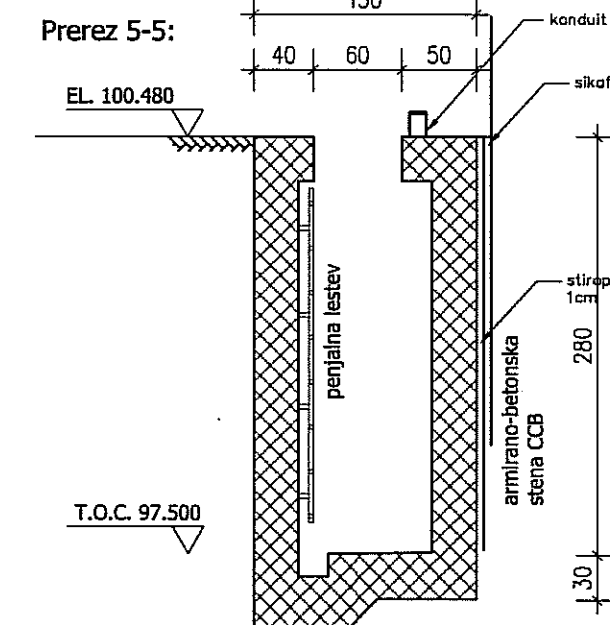
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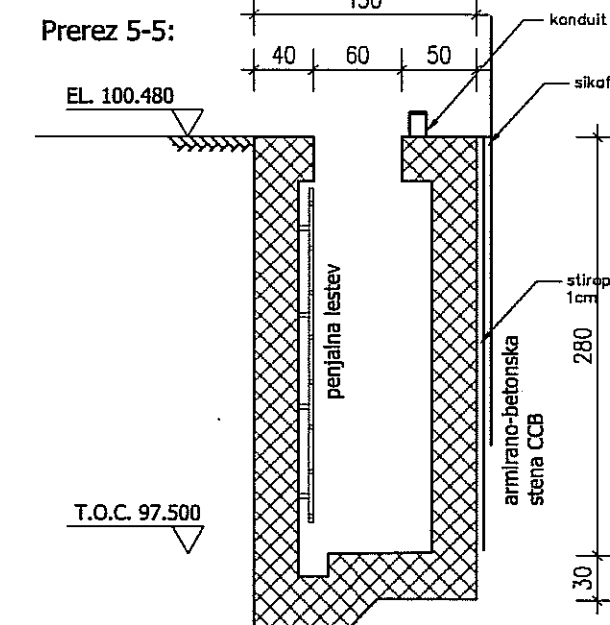
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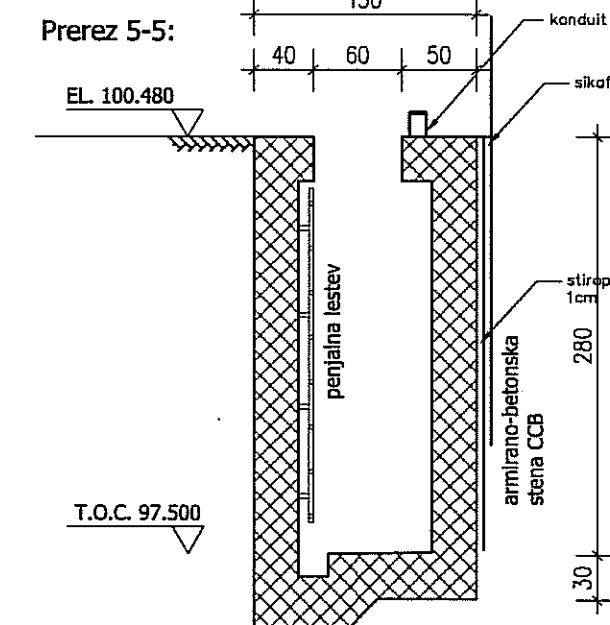
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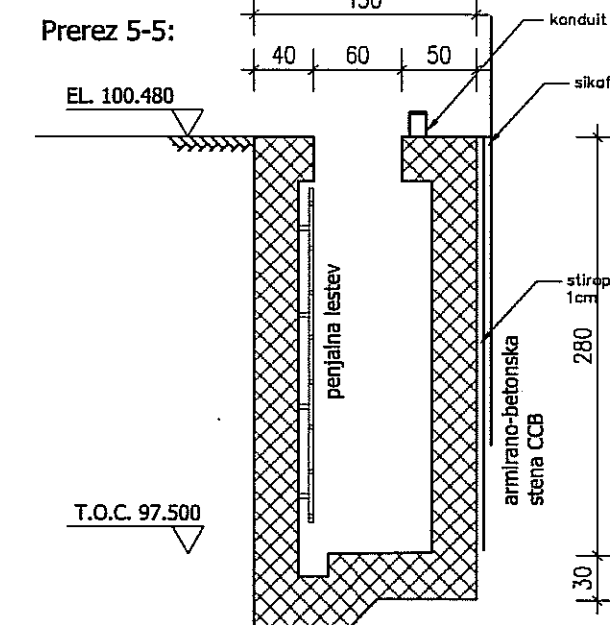
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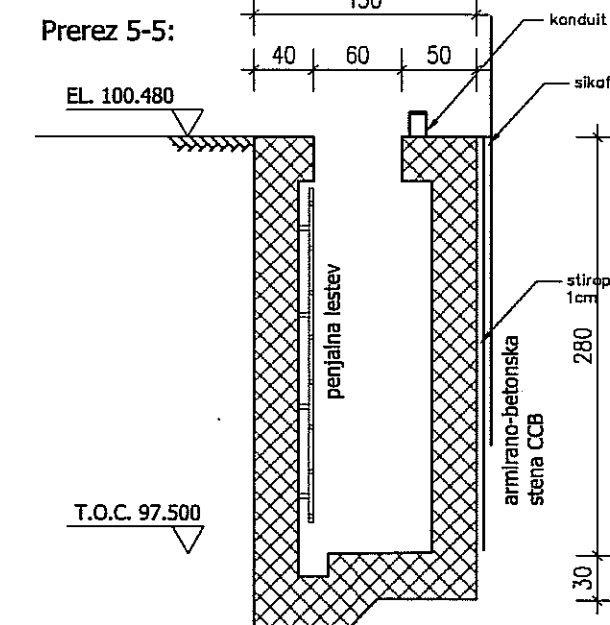
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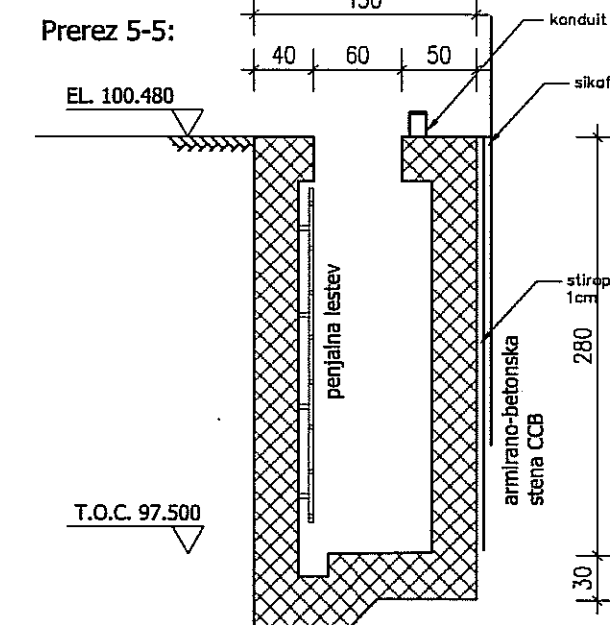
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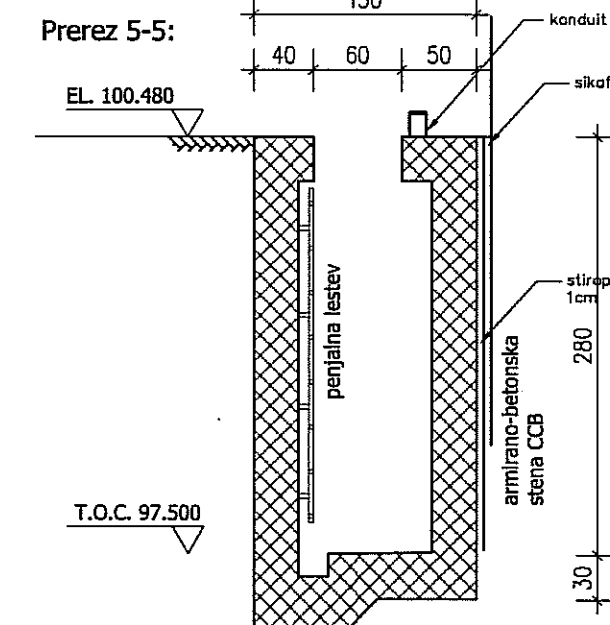
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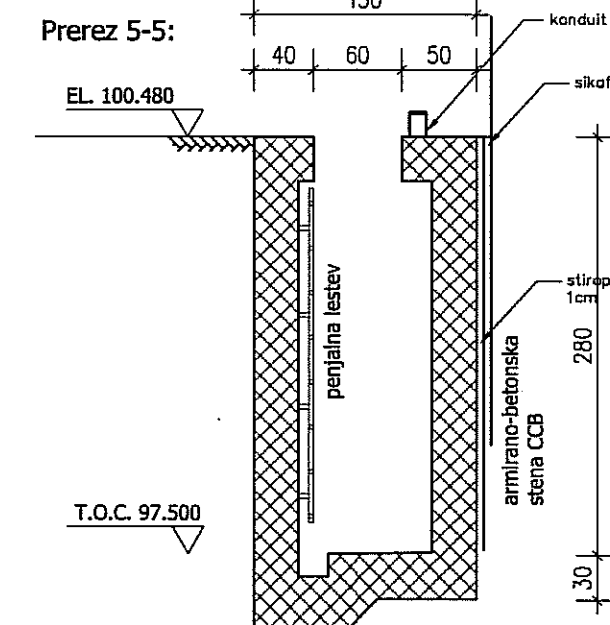
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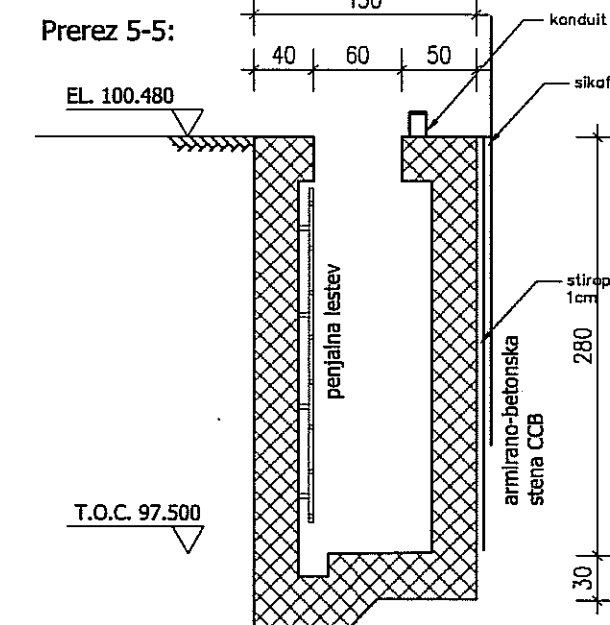
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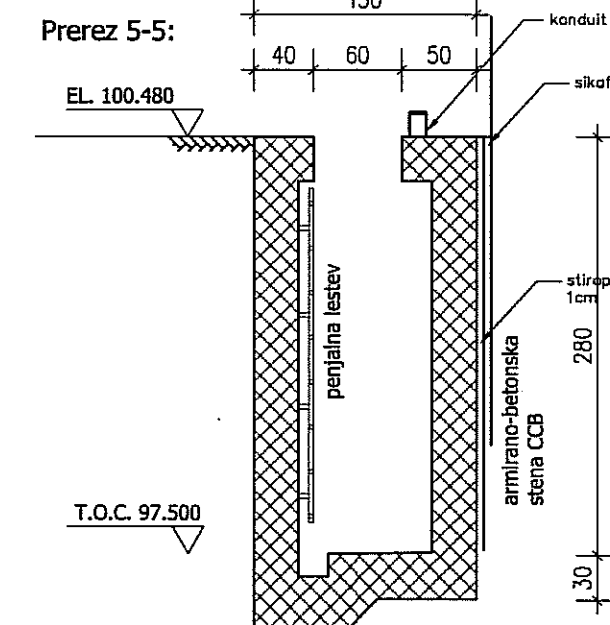
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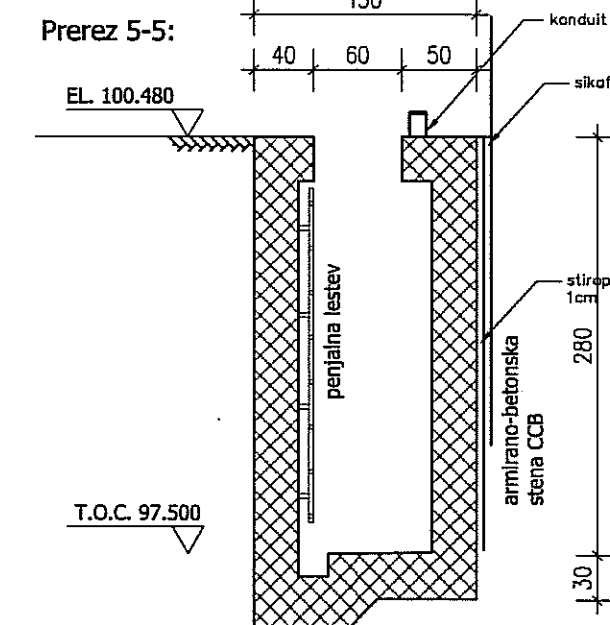
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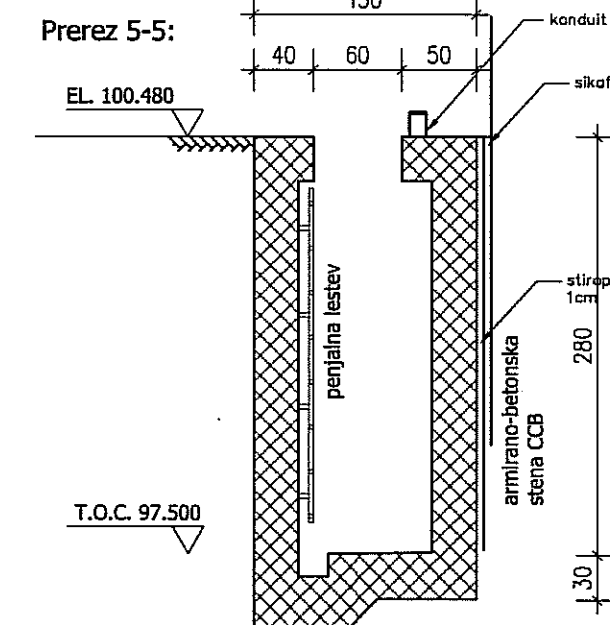
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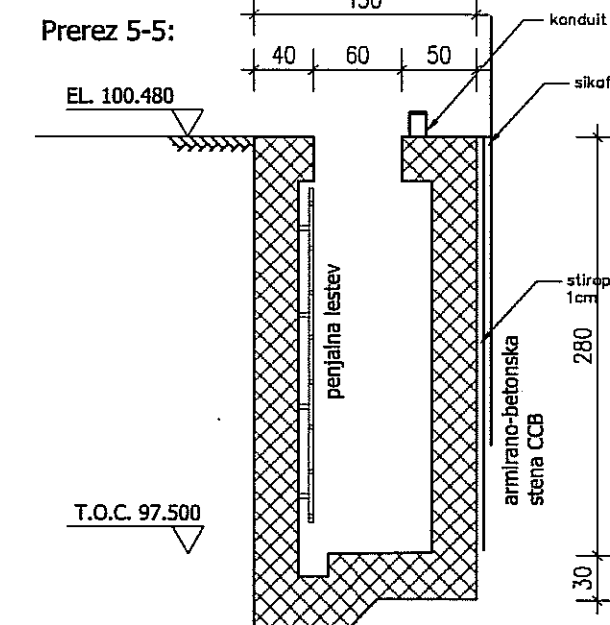
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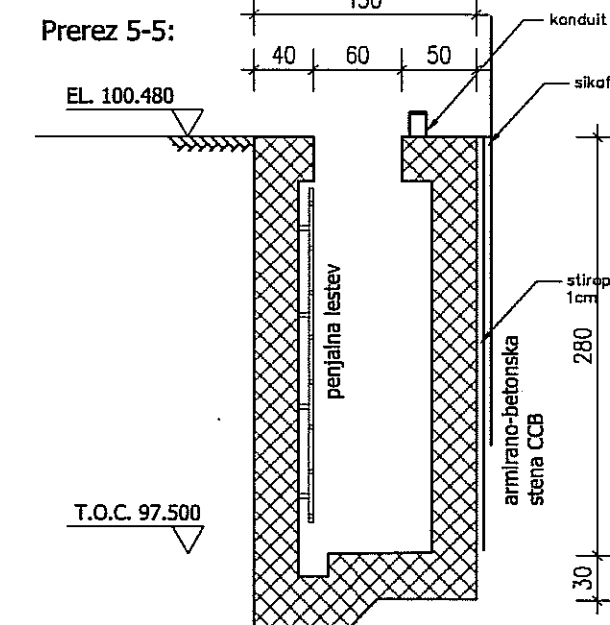
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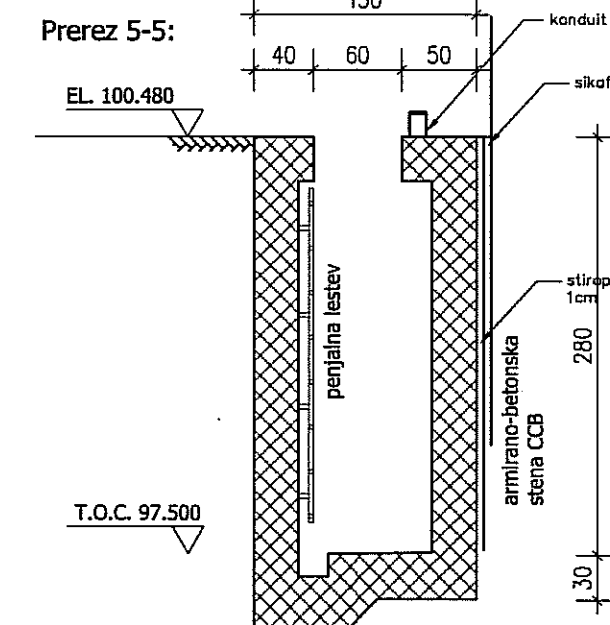
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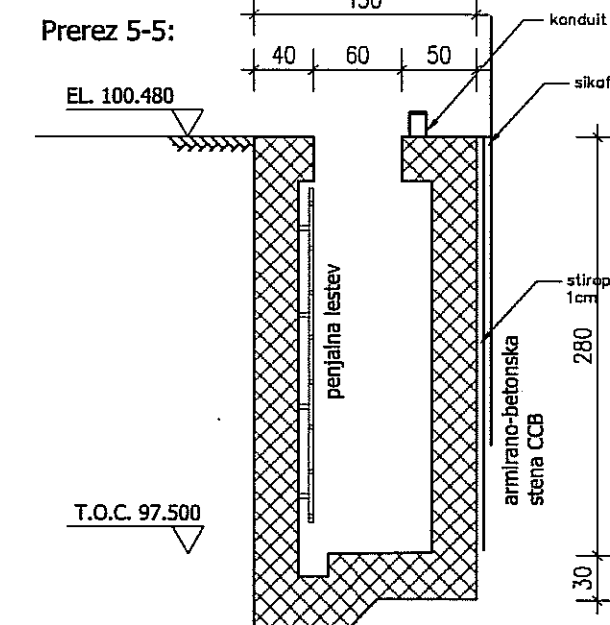
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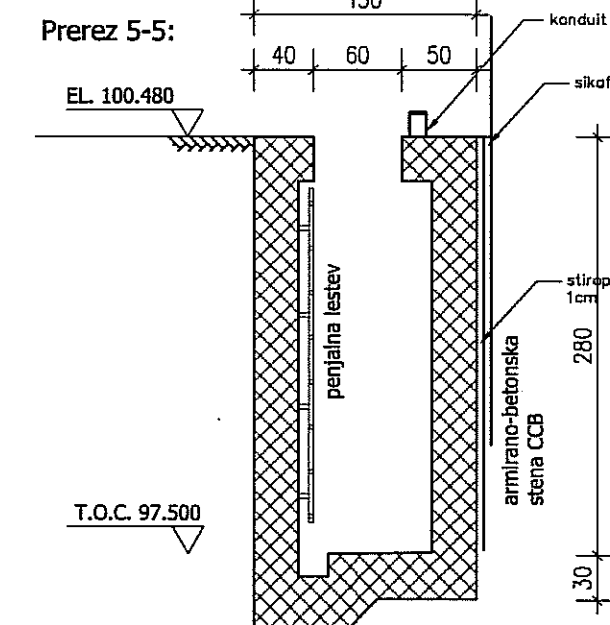
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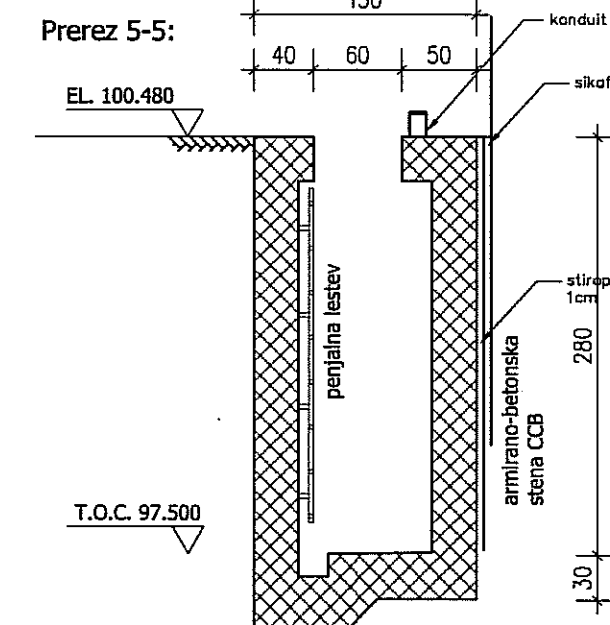
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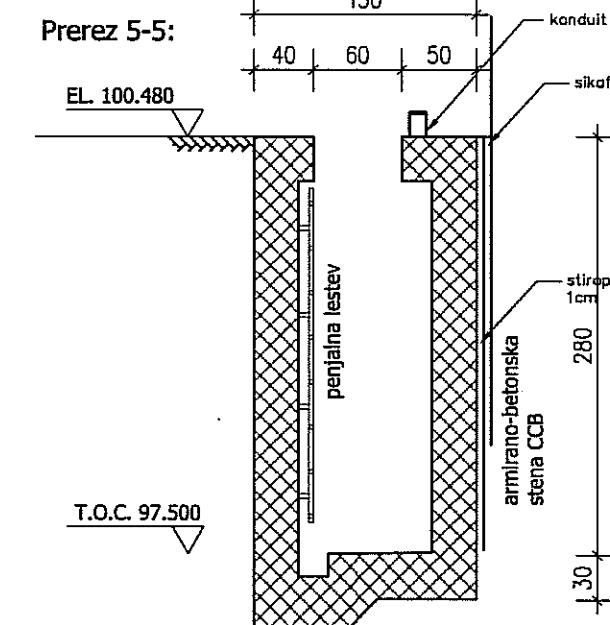
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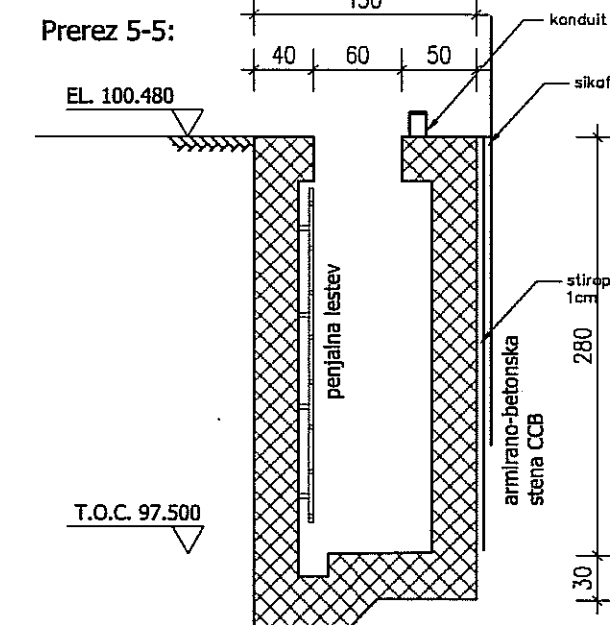
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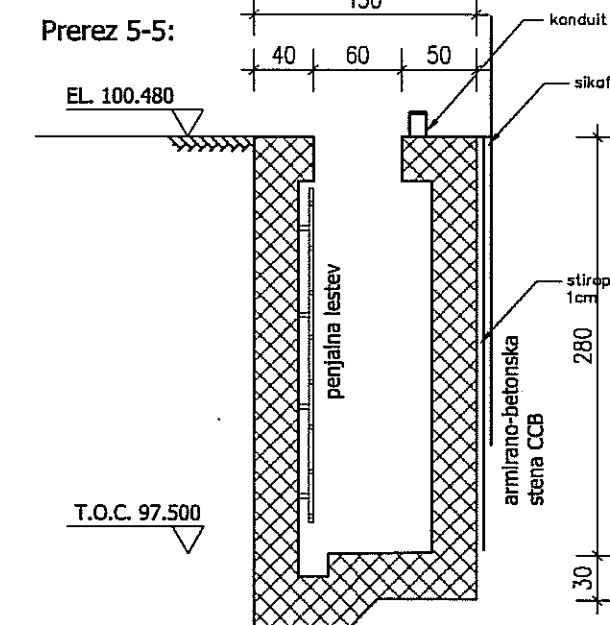
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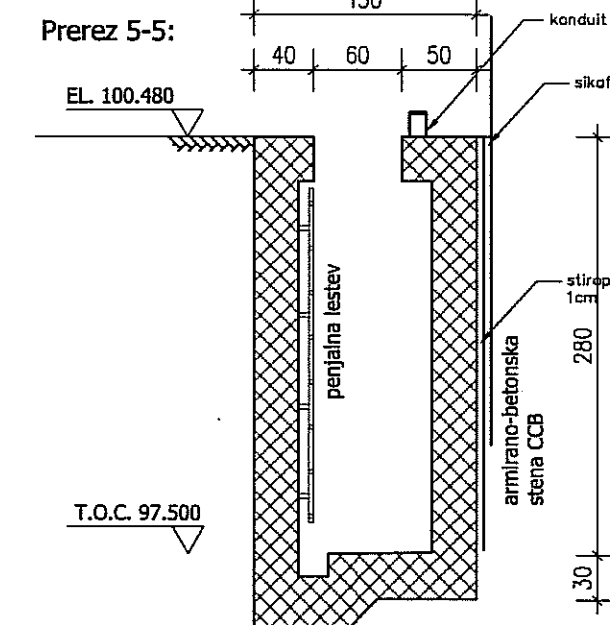
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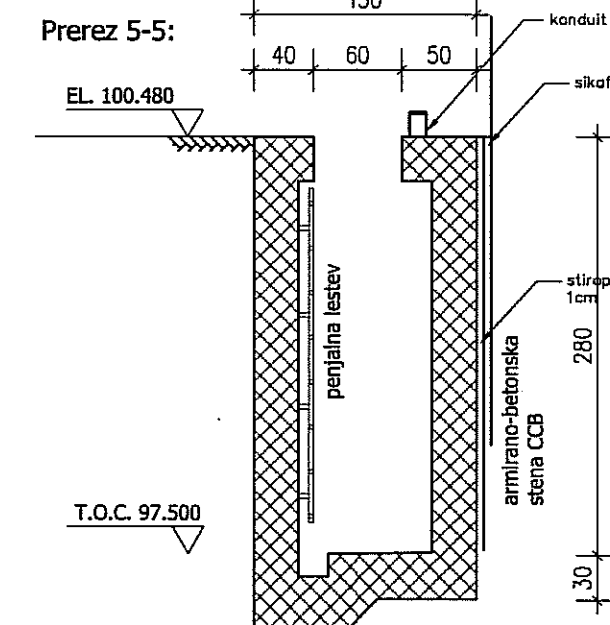
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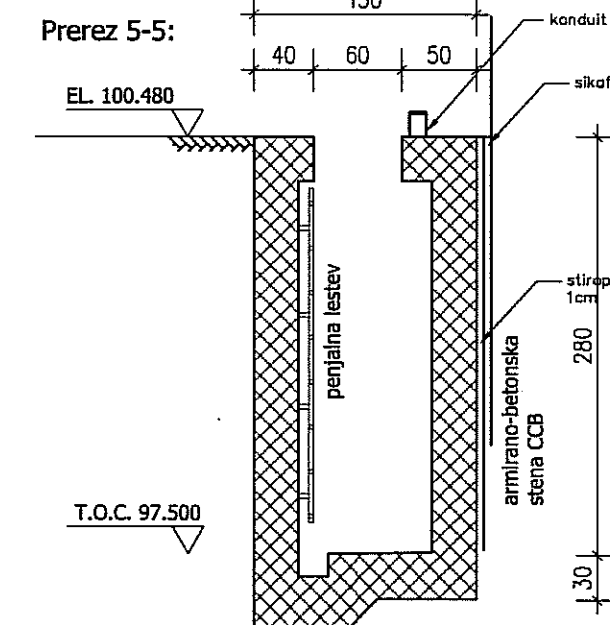
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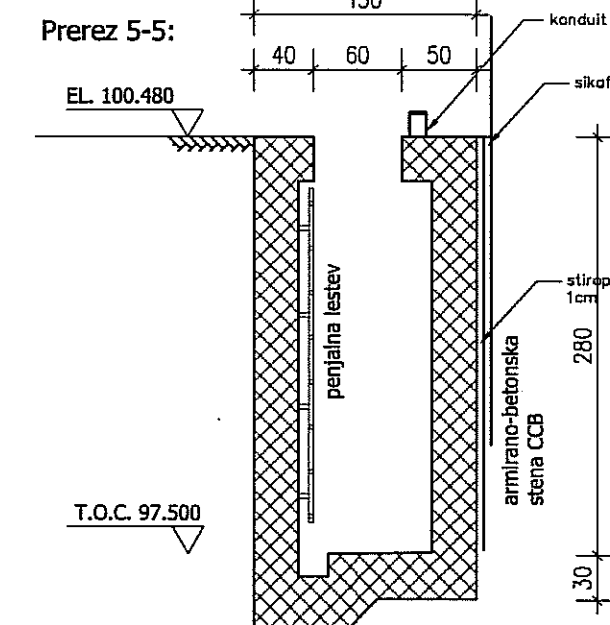
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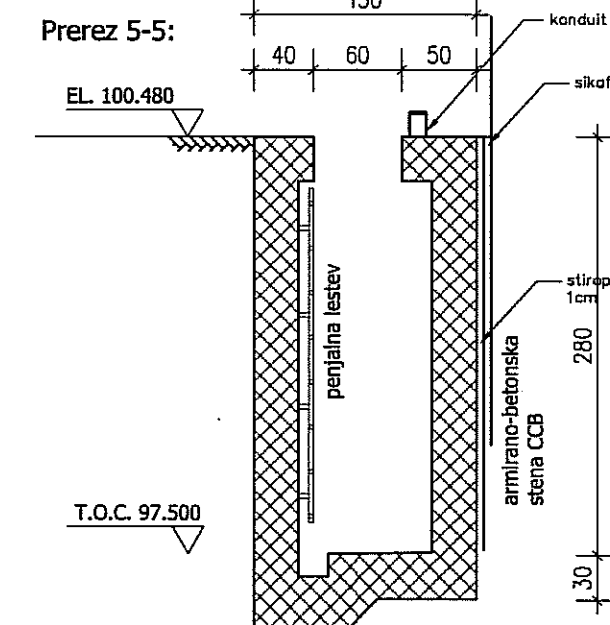
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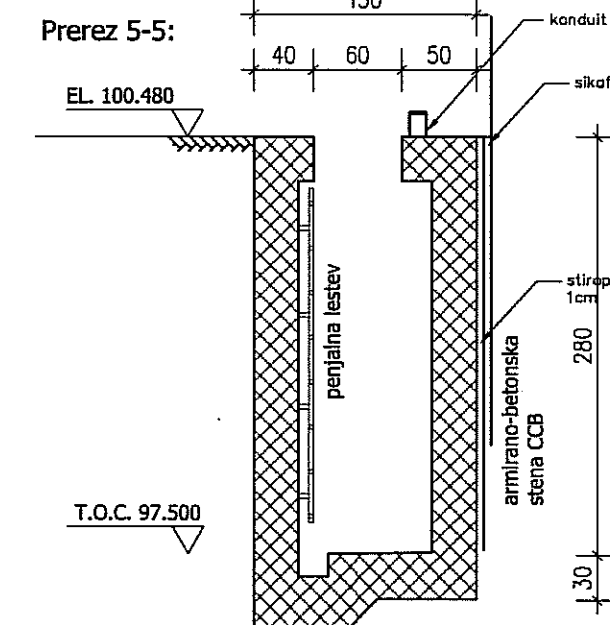
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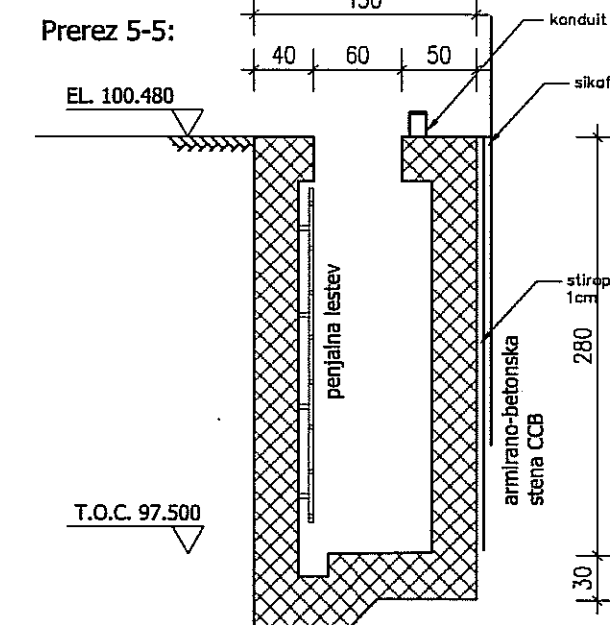
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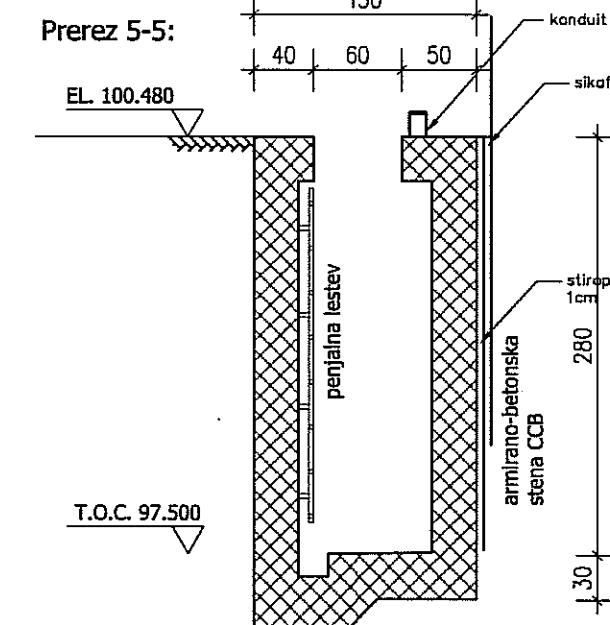
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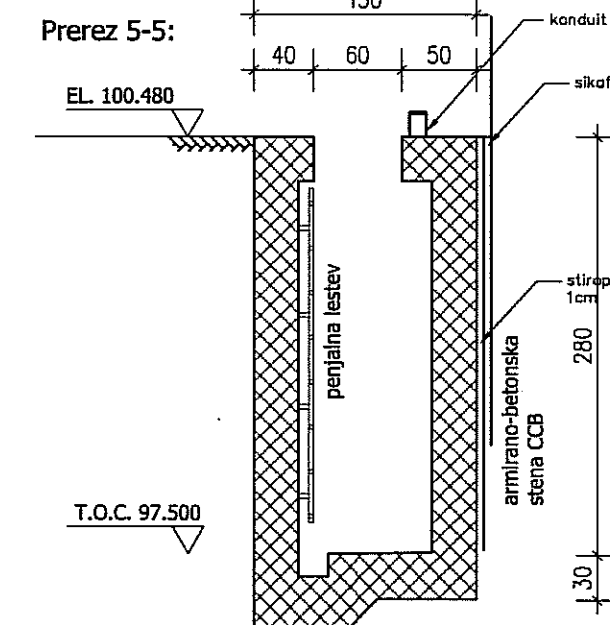
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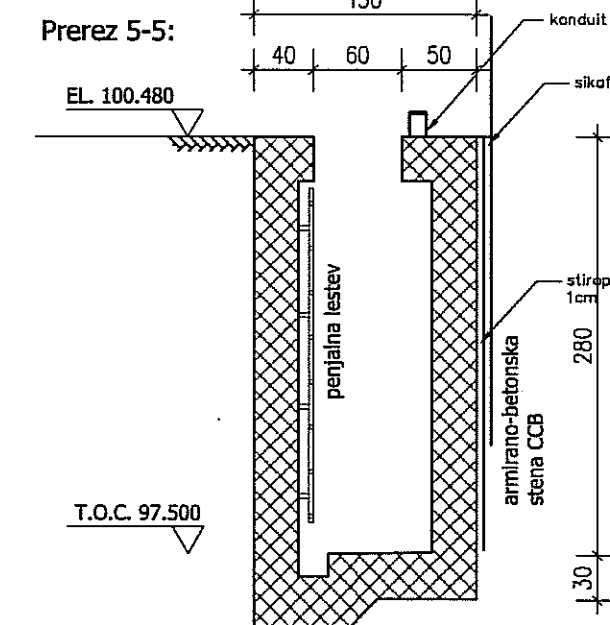
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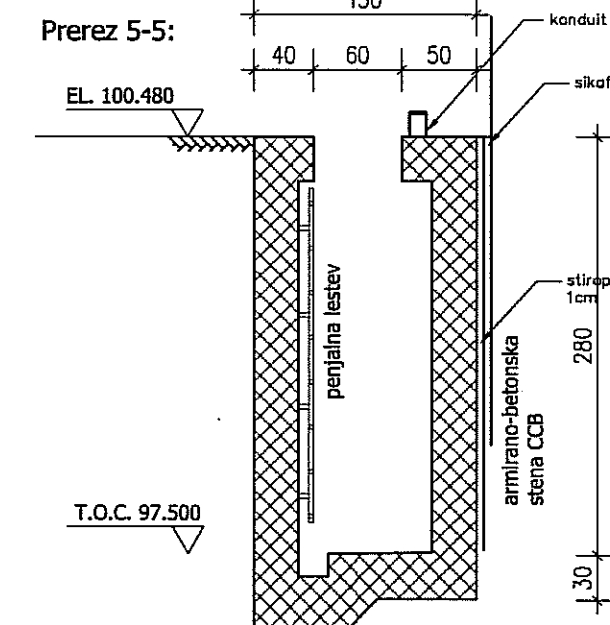
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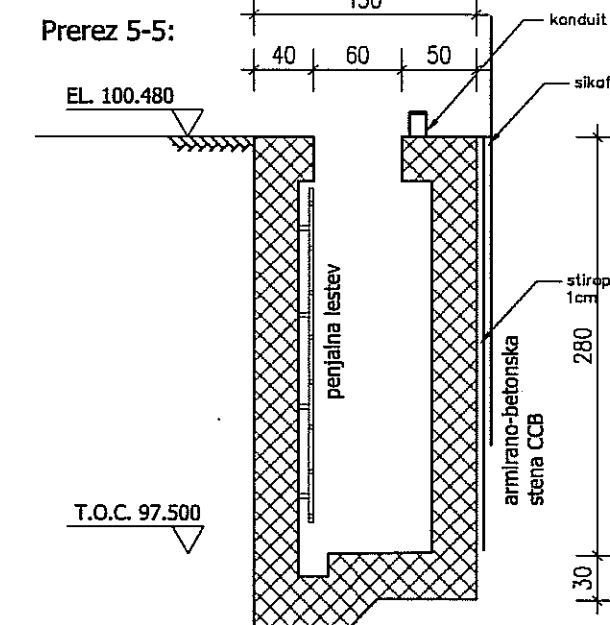
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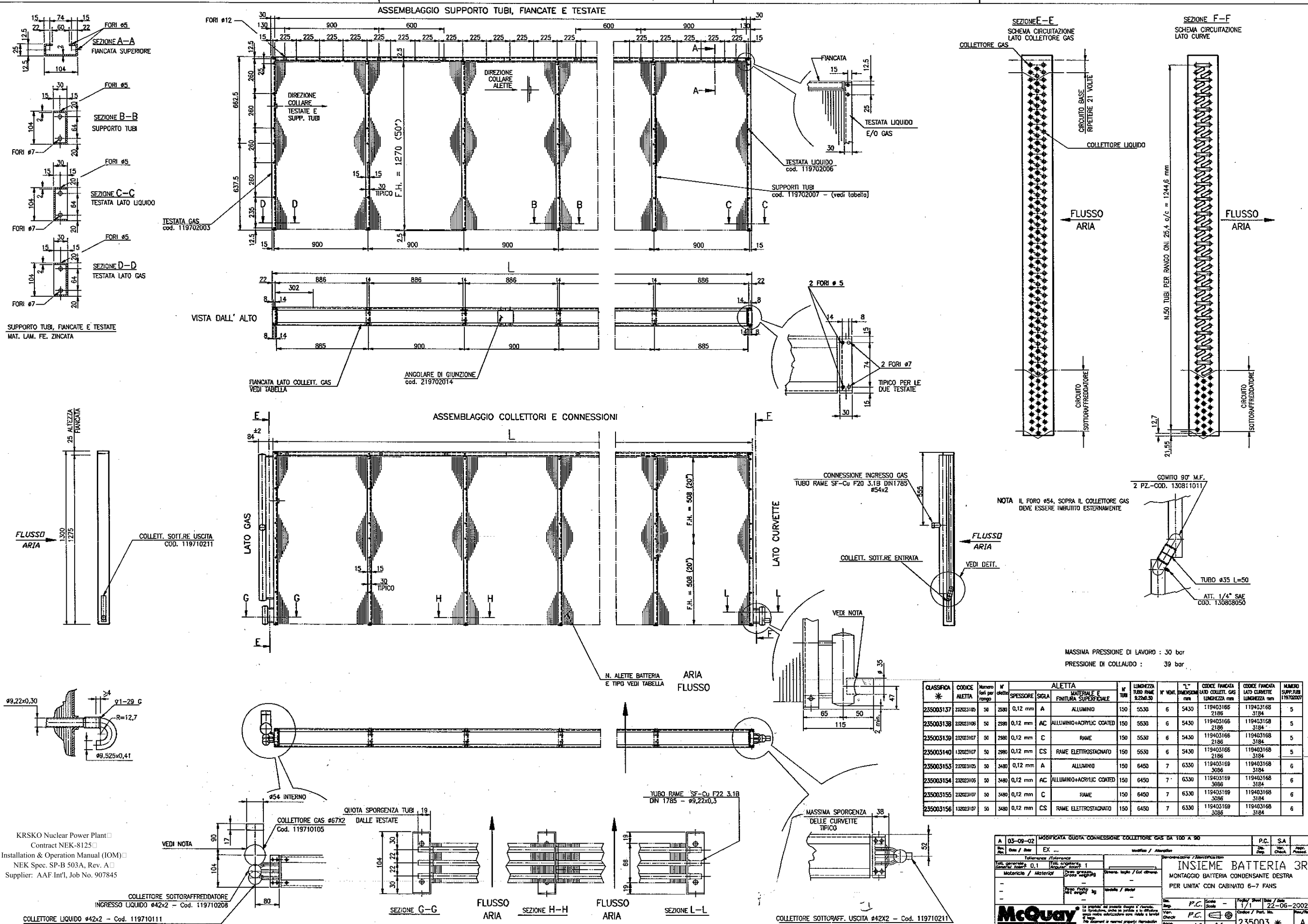
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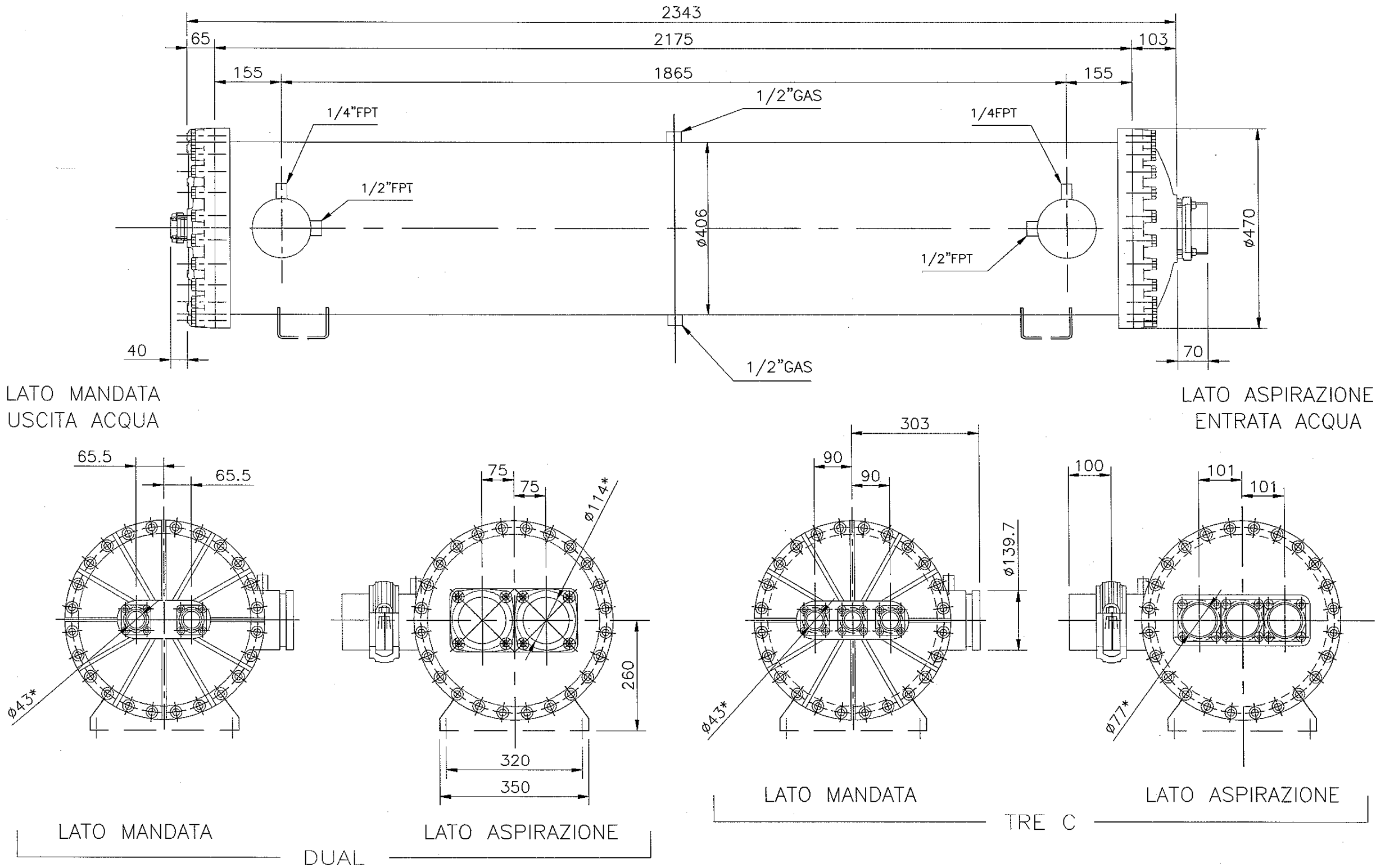
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Prerez



EVAPORATORE SERIE C.C. Ø406 L:2175 – Freon: R134a



KRSKO Nuclear Power Plant
Contract NEK-8125
Installation & Operation Manual (IOM)
NEK Spec. SP-B 503A, Rev. 0
Supplier: AAF Int'l, Job No. 907845

* DIAMETRO INTERNO DELLA BOCCOLA

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