MEAT SOLUTIONS

integratsiyalashgan go‘sht klasteri



3-ALBOM · ARXITEKTURA YECHIMLARI ALBOMI

QUSHXONA VA MUZLATGICH

Qoramol qushxonasi, qayta ishlash va 3 000 t muzlatgich

10,0 ga	6 400 t	3 000 t
uchastka	go‘sht / yil	muzlatgich

TEO oldi (konseptual) bosqichi

ARXITEKTURA YECHIMLARI ALBOMI

3-albom. Qushxona va muzlatgich majmuasi (faqat qoramol, 10,0 ga)

«Meat Solutions» integratsiyalashgan go‘sht klasteri · TEO oldi (konseptual) bosqichi

VARAQLAR RO‘YXATI

Varaq	Nomi	Masshtab
1	Muqova	—
2	Varaqlar ro‘yxati. Umumiy ma’lumotlar	—
3	Qushxona va muzlatgich majmuasi bosh rejasi	1:2000
4	Qushxona binosi: reja, xonalar va pollar	1:400
5	Qushxona binosi: fasadlar va 1–1 kesim	1:400, 1:200
6	Muzlatgich (3 000 t): reja, 2–2 kesim, tarkiblar	1:400, 1:250
7	Muzlatgich va ma’muriy bino fasadlari	1:400, 1:300
8	Qayta ishlash sexi: reja va fasadlar	1:250, 1:400
9	Tomlar rejasi va quyosh panellari	1:2000
10	Eshik, darvoza va derazalar spetsifikatsiyasi	1:150
11	Qushxona: konstruktiv uzellar 1–2	1:25, 1:20
12	Muzlatgich: konstruktiv uzellar 3–4	1:50, 1:20
13	Texnik-iqtisodiy ko‘rsatkichlar	—
14	Vizualizatsiyalar	—

ASOSIY KO‘RSATKICHLAR

Ko‘rsatkich	Qiymat
Uchastka	400 × 250 m = 10,0 ga
Qushxona, smenada	100 qoramol
Go‘sht	≈ 6 400 t/yil
Muzlatgich	3 000 t
Shok-muzlatish	40 t/sutka
Yuklash doklari	8 ta
Quyosh panellari	2,29 MW
Chorva kompleksidan masofa	kamida 1 000 m

Umumiy eslatmalar

1. Albom TEO oldi (konseptual) bosqichida bajarilgan. Ishchi loyihani uchastka tanlangach, topografik syomka, muhandislik-geologik izlanishlar va konstruktiv hisoblardan keyin litsenziyali loyiha tashkiloti tayyorlaydi.
2. Bosh rejalarda o‘lchamlar metrda, bino rejalari, kesimlari va fasadlarida millimetrda. Balandlik belgilari shartli nol (±0,000) ga nisbatan.
3. Quyosh panellari faqat bino tomlarida, naves va soyabonlarda; yerga o‘rnatiladigan quyosh maydoni yo‘q.
4. Chizmalar A3 formatda tayyorlangan va A4 ga 0,71 marta kichraytirilgan; varaqlardagi masshtablar A3 uchun. O‘lchamlarni chizmadagi raqamlardan oling.

Qushxona va muzlatgich majmuasi bosh rejasi · faqat qoramol · 10,0 ga (400 × 250 m) · M 1:2000



Hudud balansi · Binolar va inshootlar eksplikatsiyasi · Izoh

HUDUD BALANSI

№	Nomi	m²	%
1	Binolar va inshootlar	21 046	21,0
2	Yo'llar va maydonchalar	10 366	10,4
3	2-bosqich zaxira maydoni	5 720	5,7
4	Ko'kalamzorlashtirish	62 868	62,9
5	**Uchastka maydoni**	**100 000**	**100**

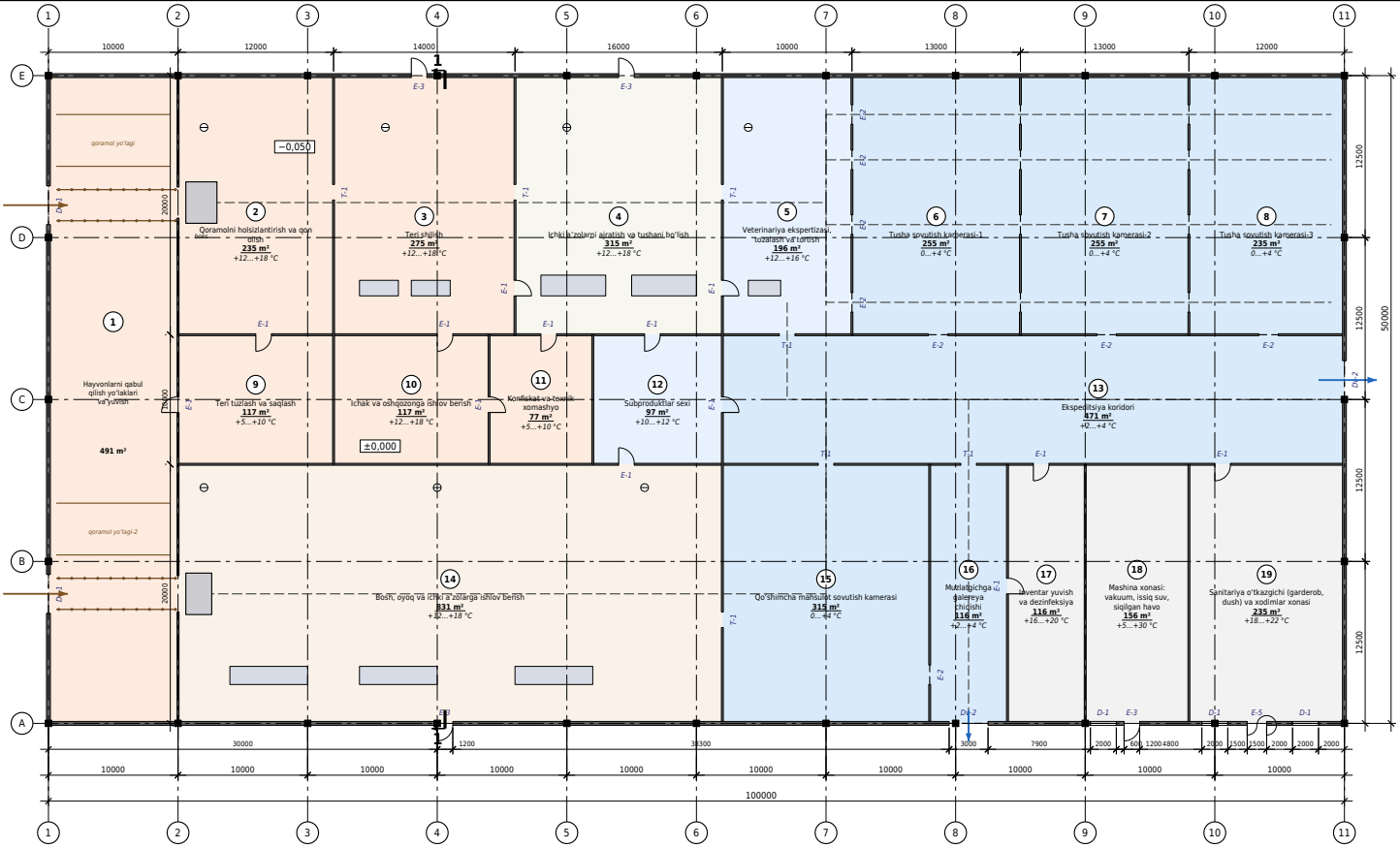
Izoh

1. Iflos oqim (chorva, chiqindilar) va toza oqim (go'sht, mahsulot) alohida darvozalardan yuradi va kesishmaydi; qushxona, muzlatgich va qayta ishlash sexi yopiq galereyalar bilan bog'langan.
2. Majmua chorva kompleksidan kamida 1 000 m uzoqlikda, shahar yaqinidagi sanoat zonasida.
3. Quyosh panellari faqat tomlarda va soyabonlarda (≈ 2,29 MW); yerga panel o'rnatilmaydi.
4. Shamol yo'nalishi aniqlangach, iflos zona va tozalash inshooti shamol bo'yicha pastga joylashtiriladi.

BINOLAR VA INSHOOTLAR EKSPLIKATSIYASI

№	Nomi	O'lchami, m	Maydoni, m²
1	Nazorat-o'tkazish punkti (asosiy)	10 × 7	70
2	Ma'muriy bino (2 qavat)	46 × 18	828
3	Avtoturargoh, quyosh soyaboni (60 joy)	46 × 30	1 380
4	Ekspeditsiya maydonchasi (yuk mashinalari)	120 × 45	5 400
5	Muzlatgich (3 000 t) va sovutish markazi	84 × 48	4 032
6	Qushxona binosi (so'yish va tusha sovutish)	100 × 50	5 000
7	Qayta ishlash sexi	60 × 30	1 800
8	So'yish oldi chorva saqlash binosi	54 × 24	1 296
9	Ochiq qo'ralar (navesli)	60 × 38	2 280
10	Chorva tushirish rampasi va qabul joyi	18 × 8	144
11	Transport yuvish va dezinfeksiya punkti	22 × 12	264
12	Veterinariya laboratoriyasi va chorva qabul ofisi	24 × 12	288
13	Karantin, izolyator va sanitariya so'yish xonasi	30 × 16	480
14	Qo'shimcha mahsulot sexi (yog' eritish, suyak-go'sht uni)	36 × 21	756
15	Teri va texnik chiqindilar ombori	20 × 12	240
16	Oqova suv tozalash inshooti (≈ 250 m³/sutka)	70 × 24	1 680
17	Bug' qozonxonasi	18 × 12	216
18	Bosh transformator podstansiyasi 10/0,4 kV	12 × 8	96
19	Rezerv dizel-generator	8 × 5	40
20	Nasos stansiyasi (suv ta'minoti)	8 × 6	48
21	Yong'inga qarshi suv havzasi	12 × 9	108
22	2-bosqich uchun zaxira (muzlatgich kengaytmasi, kolbasa sexi)	52 × 110	5 720

Qushxona binosi: so‘yish, ishlov berish va tusha sovutish · 100 × 50 m (3-varaq, 6-pozitsiya) · Reja · M 1:400



Xonalar eksplikatsiyasi · Texnologik ko‘rsatkichlar · Shartli belgilar

№	Xona nomi	Maydon, m²	°C	Pol
1	Hayvonlarni qabul qilish yo‘laklari va yuvish	491	+12…+18	P1
2	Qoramolni holsizlantirish va qon olish	235	+12…+18	P1
3	Teri shilish	275	+12…+18	P1
4	Ichki a’zolarni ajratish va tushani bo‘lish	315	+12…+18	P1
5	Veterinariya ekspertizasi, tozalash va tortish	196	+12…+16	P1
6	Tusha sovutish kamerasi-1	255	0…+4	P2
7	Tusha sovutish kamerasi-2	255	0…+4	P2
8	Tusha sovutish kamerasi-3	235	0…+4	P2
9	Teri tuzlash va saqlash	117	+5…+10	P1
10	Ichak va oshqozonga ishlov berish	117	+12…+18	P1
11	Konfiskat va texnik xomashyo	77	+5…+10	P1
12	Subproduktlar sexi	97	+10…+12	P1
13	Sovutilgan tusha ekspeditsiya koridori	471	+2…+4	P2
14	Bosh, oyoq va ichki a’zolarga ishlov berish	831	+12…+18	P1
15	Qo‘shimcha mahsulot sovutish kamerasi	315	0…+4	P2
16	Muzlatgichga galereya chiqishi	116	+2…+4	P2
17	Inventar yuvish va dezinfeksiya	116	+16…+20	P3
18	Mashina xonasi: vakuum, issiq suv, siqilgan havo	156	+5…+30	P3
19	Sanitariya o‘tkazgichi (garderob, dush) va xodimlar xonasi	235	+18…+22	P3

Liniya	Quvvat
Qoramol	12,5 bosh/soat, 100 bosh/smena
Tusha sovutish	3 kamera, ≈ 300 yarim tusha
Ish rejimi	1 smena, 300 kun/yil
Qurilish maydoni	5 000 m²
Qurilish hajmi	≈ 45 000 m³

- Iflos zona
- Toza zona
- Sovutiladigan xonalar
- Texnik va maishiy
- Osma yo‘l (tusha harakati)
- Chorva oqimi
- Mahsulot oqimi

Pollar tarkibi

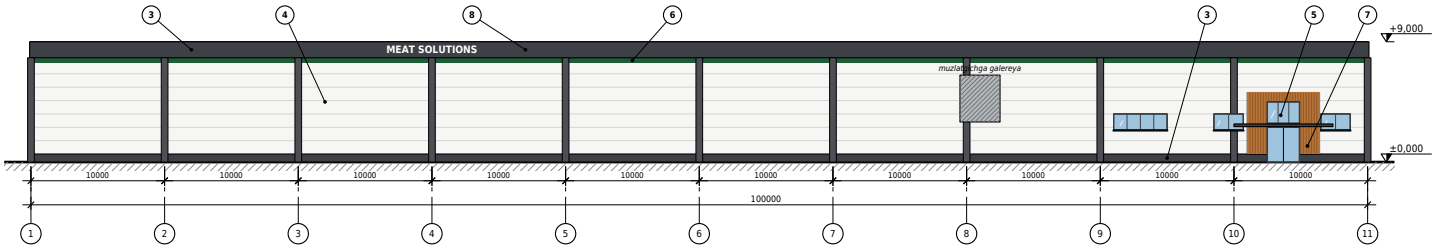
P1 — ishlab chiqarish zallari: kislotaga chidamli plitka 12 mm (nishab 1–2% traplarga); armaturali styajka 60 mm; gidroizolyatsiya 2 qatlam; temir-beton plita 200 mm; shag‘al 200 mm.

P2 — sovutiladigan xonalar: poliuretan qoplama 6 mm; armaturali styajka 80 mm; XPS 100 mm; gidroizolyatsiya; plita 200 mm.

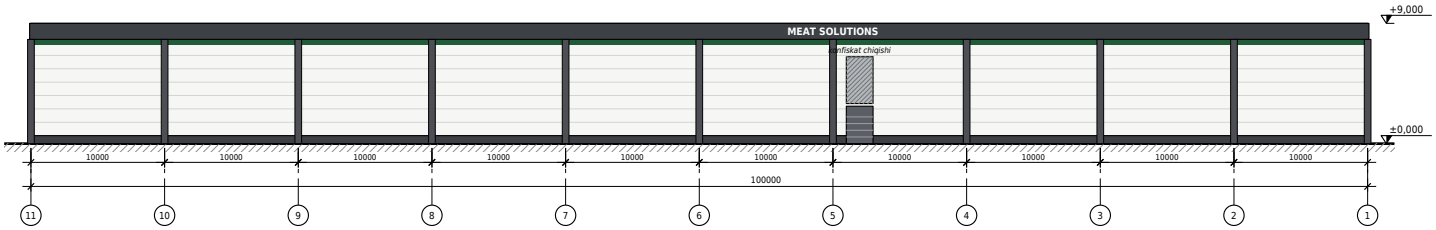
P3 — texnik va maishiy xonalar: keramogranit 10 mm; styajka 50 mm; plita 200 mm.

Belgilar: E — eshik, Dv — darvoza, D — deraza, T — osma yo‘l proyomi. Spetsifikatsiya alohida varaqda.

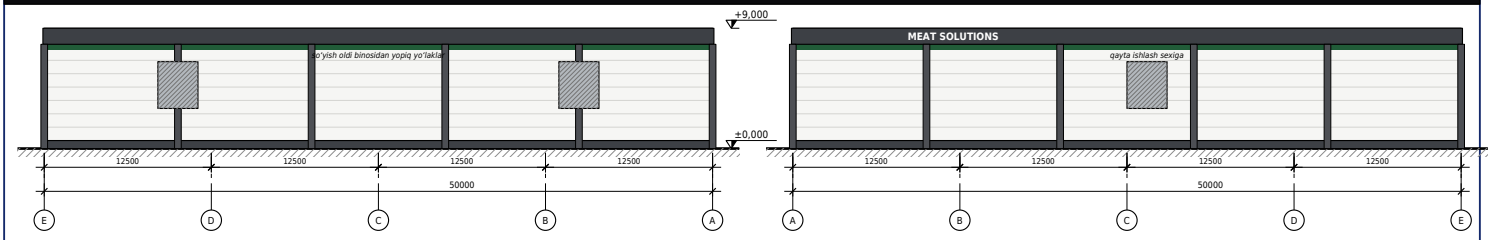
Qushxona binosi — janubiy fasad (1–11 o‘qlar) · M 1:400



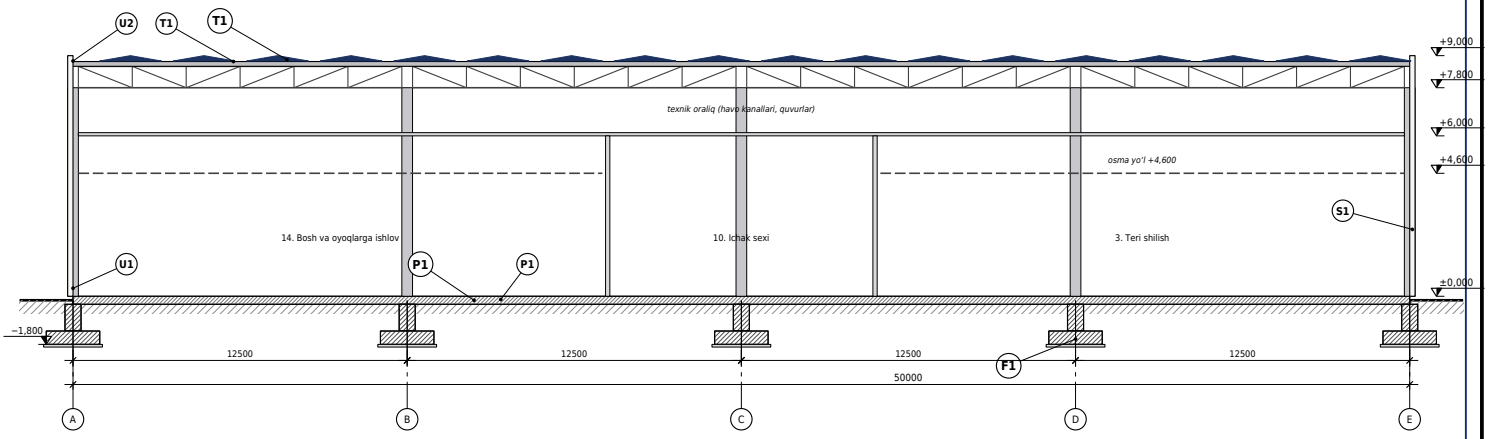
Qushxona binosi — shimoliy fasad (11–1 o‘qlar) · M 1:400



Qushxona binosi — g‘arbiy fasad (E–A, chorva kirishi) va sharqiy fasad (A–E) · M 1:400



1–1 kesim (qushxona binosi) · M 1:200



Materiallar va ranglar · Eslatmalar

2. Quyosh panellari: monokristall (tekis tomda, sharq–g‘arb 10°)
3. Parapet, sokol, pilyastrlar, eshiklar: antrasit (RAL 7016)
4. Devorlar: oq sendvich panel (RAL 9010), oziq-ovqat sanoati uchun
5. Lamellar va qoplama: termoishlov berilgan qarag‘ay
6. Aksent polosa: to‘q yashil (RAL 6005)
7. Vitraj: alyuminiy profil, past emissiyali shisha
8. Brend yozuvi: hajmli harflar, kechqurun yoritiladi
9. Seksiyali darvoza va dok-shelter

Tarkiblar (1-1 kesim)

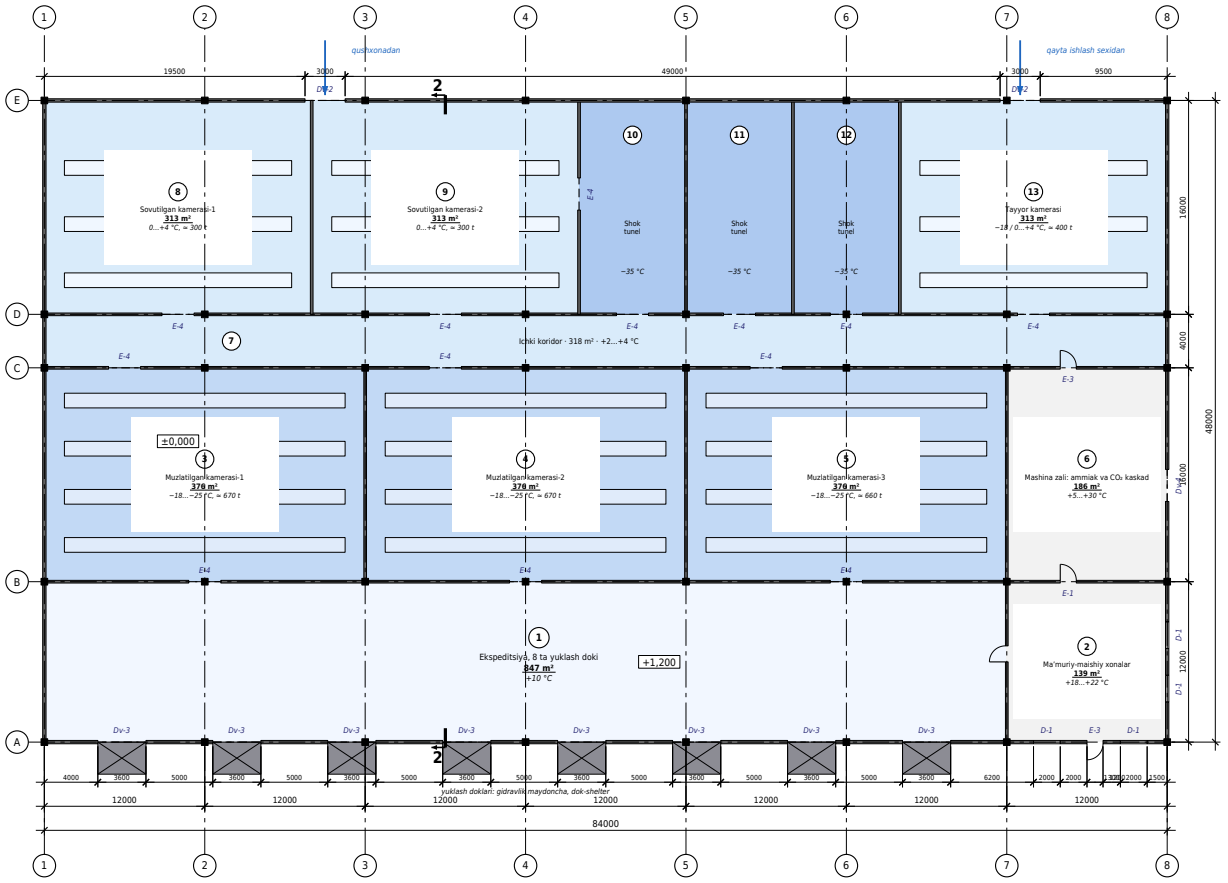
T1 — tom: PVX membrana 1,5 mm; PIR 150 mm; bug‘ izolyatsiyasi; profnastil N75-0,8; ferma.

P1 — pol: kislotaga chidamli plitka 12 mm; armaturali styajka 60 mm (nishab 1–2%); gidroizolyatsiya 2 qatlam; temir-beton plita 200 mm; shag‘al 200 mm.

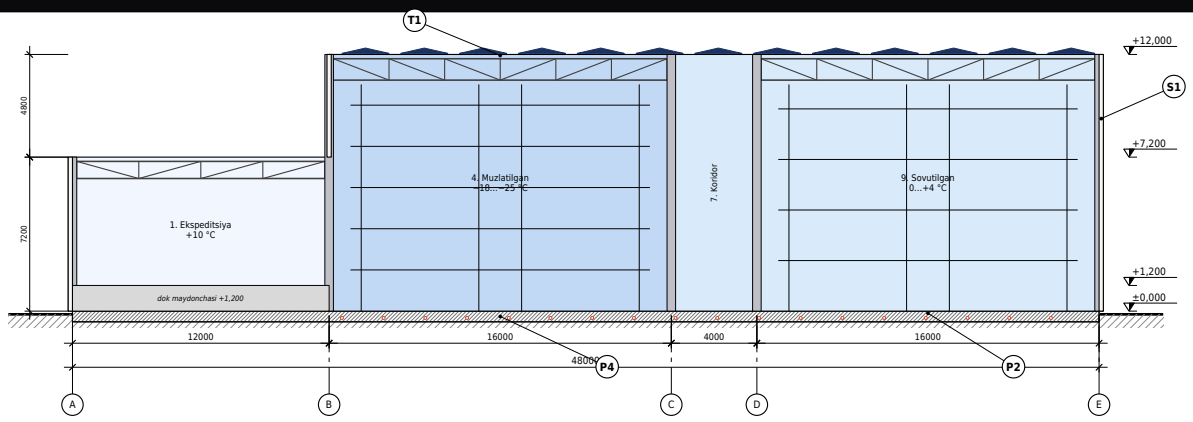
S1 — devor: sendvich panel PIR 150 mm, oq RAL 9010; sokol temir-beton 300 mm, h = 600.

U1, U2 — konstruktiv uzellar (alohida varaqda).

Muzlatgich va sovutish markazi · 3 000 t · 84 × 48 m (3-varaq, 5-pozitsiya) · Reja · M 1:400



2–2 kesim · M 1:250



Xonalar eksplikatsiyasi · Pollar va devorlar tarkibi

№	Xona	°C	Sig'im	Pol
1	Ekspeditsiya, 8 ta yuklash doki	+10		P2
2	Ma'muriy-maishiy xonalar	+18…+22		P5
3	Muzlatilgan mahsulot kamerasi-1	−18…−25	≈ 670 t	P4
4	Muzlatilgan mahsulot kamerasi-2	−18…−25	≈ 670 t	P4
5	Muzlatilgan mahsulot kamerasi-3	−18…−25	≈ 660 t	P4
6	Mashina zali: ammiak va CO_2 kaskad	+5…+30		P5
7	Ichki koridor	+2…+4		P2
8	Sovutilgan mahsulot kamerasi-1	0…+4	≈ 300 t	P2
9	Sovutilgan mahsulot kamerasi-2	0…+4	≈ 300 t	P2
10	Shok-muzlatish tuneli-1	−35	≈ 13 t/sutka	P4
11	Shok-muzlatish tuneli-2	−35	≈ 13 t/sutka	P4
12	Shok-muzlatish tuneli-3	−35	≈ 13 t/sutka	P4
13	Tayyor mahsulot kamerasi	−18 / 0…+4	≈ 400 t	P2

Tarkiblar

P4 — muzlatilgan kameralar va tunellar: toping-beton 100 mm armaturali; polietilen 2 qatlam; XPS 200 mm; bug' izolyatsiyasi; isitiladigan plita 150 mm (glikol quvurlari); shag'al 300 mm.

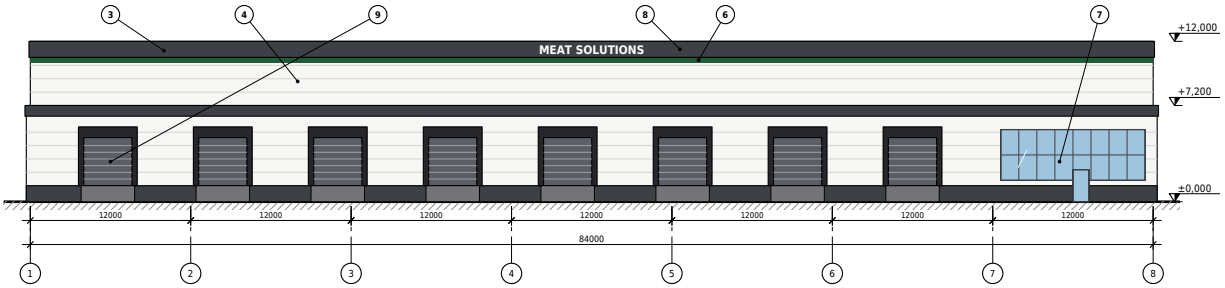
P2 — sovutilgan kameralar va koridor: poliuretan qoplama; styajka 80 mm; XPS 100 mm; plita 200 mm.

P5 — maishiy va texnik xonalar: keramogranit; styajka 50 mm; plita 200 mm.

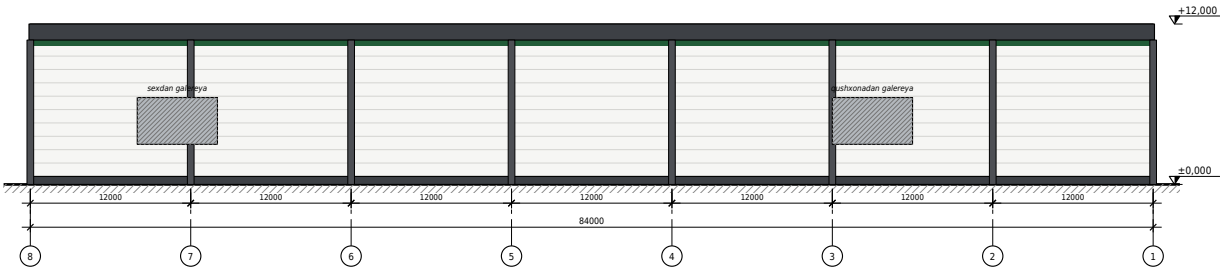
T1 — tom: PVX membrana 1,5 mm; PIR 200 mm; bug' izolyatsiyasi; profnastil N75; ferma.

S1 — devor: PIR sendvich panel 200 mm (muzlatilgan), 150 mm (sovutilgan), RAL 9010.

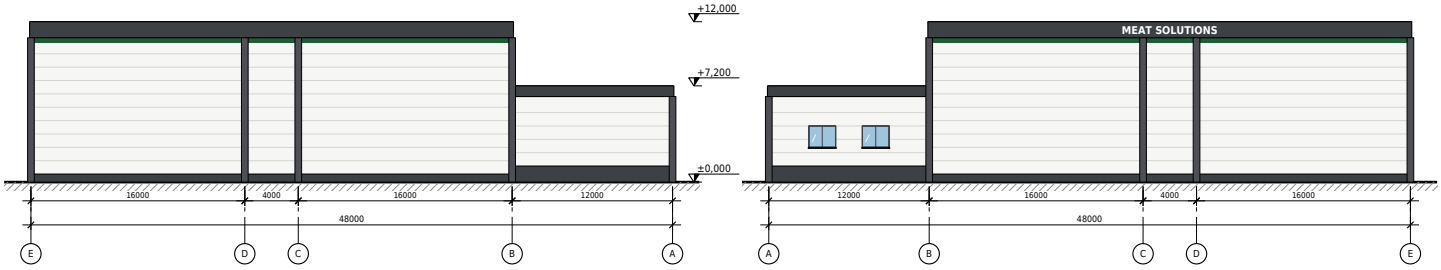
Muzlatgich — janubiy fasad (1–8 o‘qlar), yuklash doklari · M 1:400



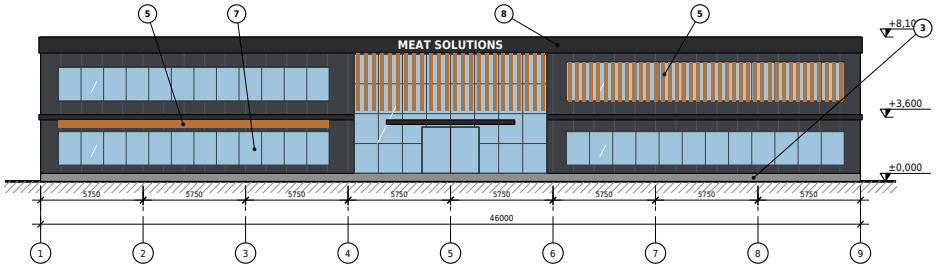
Muzlatgich — shimoliy fasad (8–1 o‘qlar), galereyalar · M 1:400



Muzlatgich — g‘arbiy fasad (E–A) va sharqiy fasad (A–E) · M 1:400

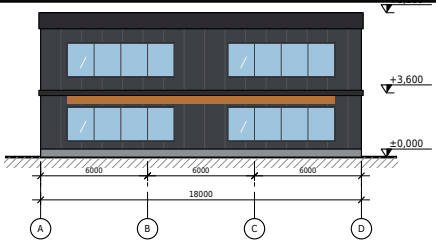


Ma’muriy bino (2 qavat, 46 × 18 m, 3-varaq, 2-pozitsiya) — janubiy fasad (1–9) · M 1:300



2		Quyosh panellari: monokristall (tekis tomda, sharq-g‘arb 10°)
3		Parapet, sokol, pilyastrlar, eshiklar: antrasit (RAL 7016)
4		Devorlar: oq sendvich panel (RAL 9010), oziq-ovqat sanoati uchun
5		Lamellar va qoplama: termoishlov berilgan qarag‘ay
6		Aksent polosa: to‘q yashil (RAL 6005)
7		Vitraj: alyuminiy profil, past emissiyali shisha
8		Brend yozuvi: hajmli harflar, kechqurun yoritiladi
9		Seksiyali darvoza va dok-shelter

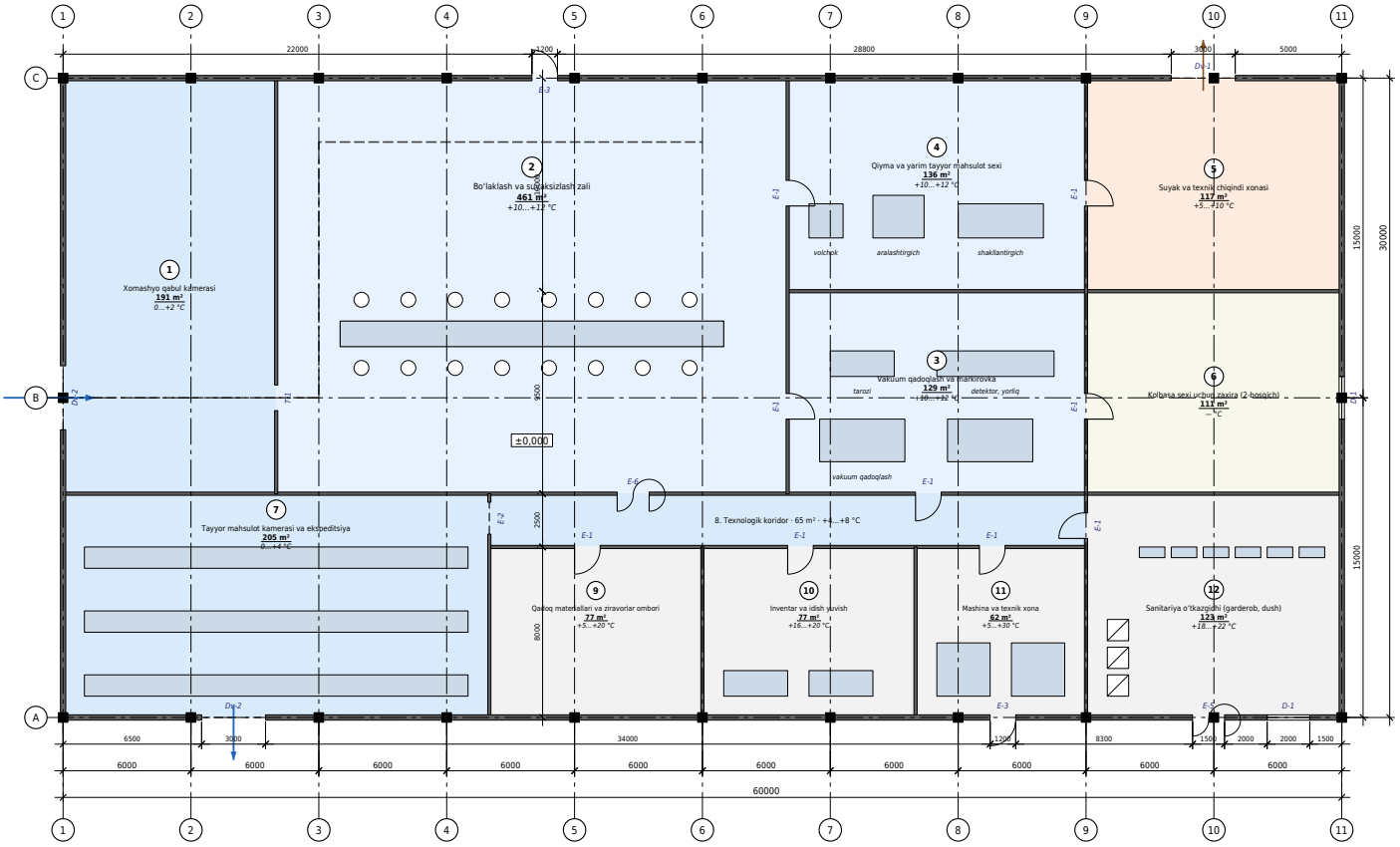
Ma’muriy bino — sharqiy fasad (A–D) · M 1:300 · Eslatmalar



Eslatmalar

1. Muzlatgich devorlari PIR sendvich panellar, oq (RAL 9010); parapet antrasit, to‘q yashil polosa bilan.
2. 8 ta dok: seksiyali darvoza 3 600 × 3 600, dok-shelter, gidravlik maydoncha (+1,200).
3. Ma’muriy bino: antrasit panellar, yog‘och lamellar, markazda ikki qavat balandlikdagi vitraj kirish.
4. Tomlarda quyosh panellari parapet ortida (9-varaq).

Qayta ishlash sexi · 60 × 30 m (3-varaq, 7-pozitsiya) · Reja · M 1:250

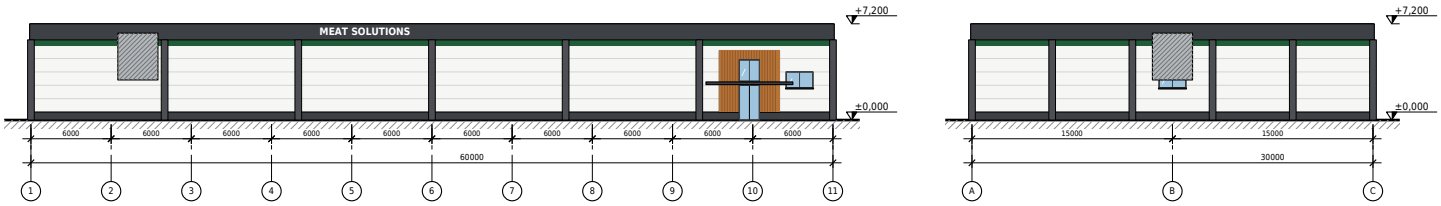


Xonalar eksplikatsiyasi · Asosiy jihozlar

№	Xona	Maydon, m²	°C	Pol
1	Xomashyo qabul kamerasi	191	0…+2	P2
2	Bo‘laklash va suyaksizlash zali	461	+10…+12	P1
3	Vakuum qadoqlash va markirovka	129	+10…+12	P1
4	Qiyma va yarim tayyor mahsulot sexi	136	+10…+12	P1
5	Suyak va texnik chiqindi xonasi	117	+5…+10	P1
6	Kolbasa sexi uchun zaxira (2-bosqich)	111	—	P1
7	Tayyor mahsulot kamerasi va ekspeditsiya	205	0…+4	P2
8	Texnologik koridor	65	+4…+8	P2
9	Qadoq materiallari va ziravorlar ombori	77	+5…+20	P3
10	Inventar va idish yuvish	77	+16…+20	P3
11	Mashina va texnik xona	62	+5…+30	P3

Jihoz	Soni
Bo‘laklash konveyeri (16 ish o‘rni)	1
Vakuum qadoqlash mashinasi	2
Metall detektor, tarozi, yorliq printeri	1 liniya
Go‘sht maydalagich (volchok)	1
Qiyma aralashtirgich	1
Kotlet va yarim tayyor shakllantirgich	1
Osma yo‘l	≈ 50 m

Janubiy fasad (1–11 o‘qlar) va sharqiy fasad (A–C) · M 1:400



Pollar tarkibi · Eslatmalar

Pollar tarkibi

P1 — ishlab chiqarish zallari: kislotaga chidamli plitka 12 mm (nishab 1% traplarga); armaturali styajka 60 mm; gidroizolyatsiya; plita 200 mm.

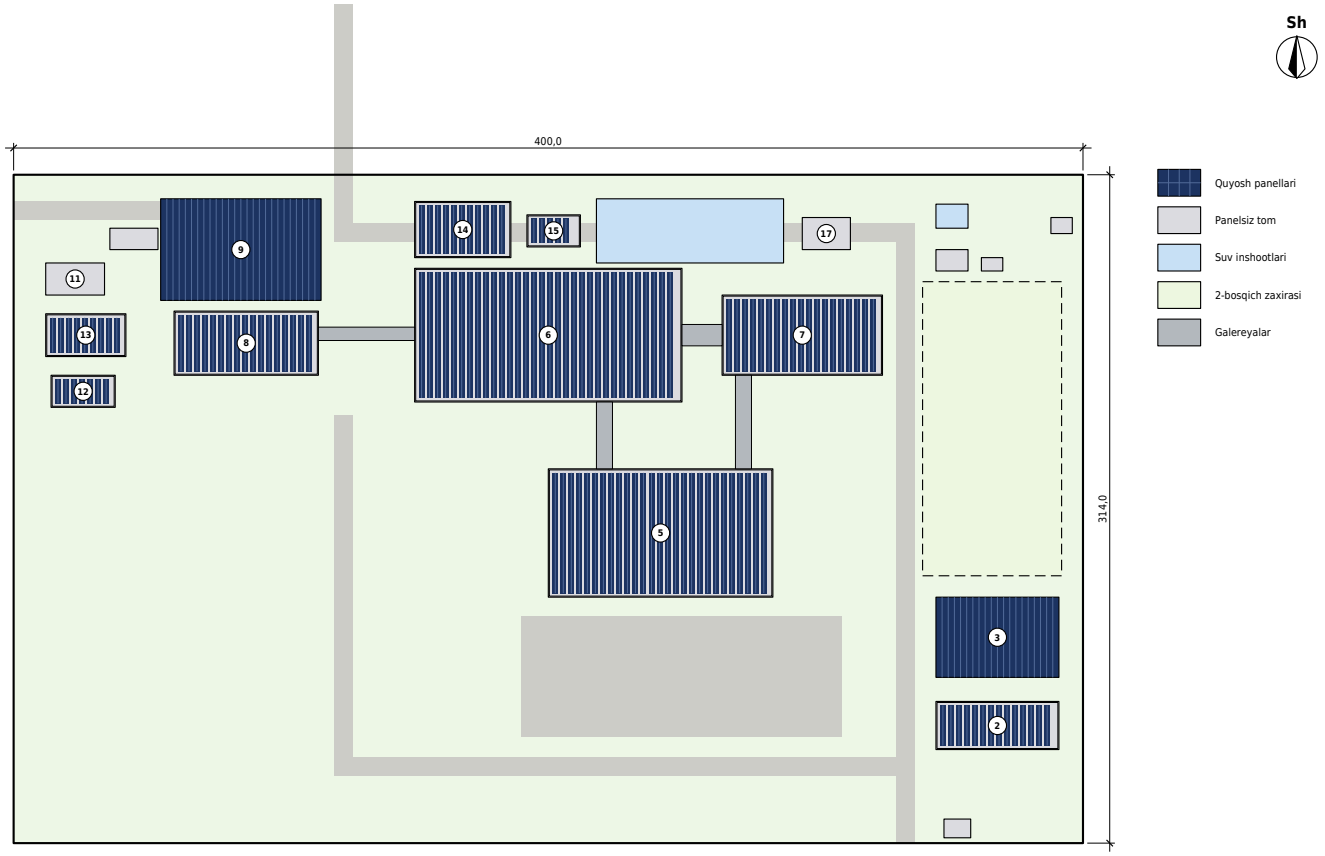
P2 — sovutiladigan xonalar: poliuretan qoplama 6 mm; styajka 80 mm; XPS 100 mm; plita 200 mm.

P3 — texnik va maishiy xonalar: keramogranit 10 mm; styajka 50 mm; plita 200 mm.

Eslatmalar

1. Sovutilgan tusha qushxonadan galereya orqali osma yo‘lda keladi; tayyor mahsulot janubiy galereya orqali muzlatgichga o‘tadi.
2. Go‘shtning ≈ 35% i shu sexda qayta ishlanadi.
3. 6-xona 2-bosqichda kolbasa sexi uchun ajratilgan.
4. Eshik, darvoza va derazalar spetsifikatsiyasi alohida varaqda.

Qushxona va muzlatgich majmuasi tomlar rejasi va quyosh panellari · 2,29 MW · M 1:2000



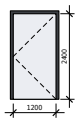
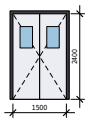
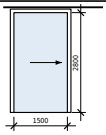
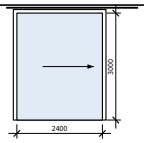
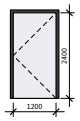
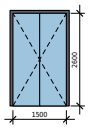
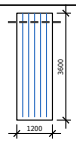
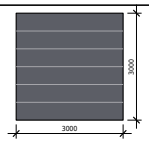
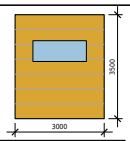
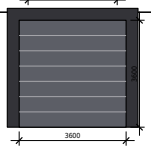
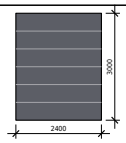
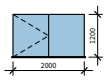
Tomdagi quyosh panellari · Eslatmalar

№	Bino	Tom turi	m²	kWp	MWh/yil
6	Qushxona binosi	tekis, sharq–g‘arb 10°	4 559	638	884
5	Muzlatgich (3 000 t)	tekis, ikki sath	3 402	476	660
7	Qayta ishlash sexi	tekis, sharq–g‘arb 10°	1 539	215	298
8	So‘yish oldi chorva binosi	tekis, sharq–g‘arb 10°	1 071	150	208
9	Ochiq qo‘ralar navesi	naves, sharq–g‘arb 10°	2 186	306	424
14	Qo‘shimcha mahsulot sexi	tekis	606	85	117
13	Karantin va izolyator	tekis	360	51	70
12	Veterinariya laboratoriyasi	tekis	189	26	37
15	Teri va chiqindilar ombori	tekis	153	21	30
2	Ma‘muriy bino	tekis	645	90	125
3	Avtoturargoh soyaboni	soyabon, janubga 8°	1 305	235	334
	Jami (11 ta tom)		**16 015**	**2 293**	**3 187**

Eslatmalar

1. Barcha tomlar tekis; panellar sharq–g‘arb yo‘nalishida 10° qiyalikda, balastli tizimda, tomni teshmasdan.
2. Muzlatgichda ikki sath: ekspeditsiya bloki (+7,200) va asosiy blok (+12,000) — ikkalasida ham panel.
3. Panel qo‘yilmaydi: bug‘ qozonxonasi, transport yuvish punkti, oqova suv inshooti, kichik texnik binolar, 2-bosqich zaxirasi.
4. Majmua iste‘moli ≈ 6,7 GWh/yil; panellar ≈ 3,23 GWh/yil beradi (≈ 48%), hammasi o‘zida ishlatiladi.

Eshik, darvoza va derazalar spetsifikatsiyasi (qushxona, muzlatgich, qayta ishlash sexi)

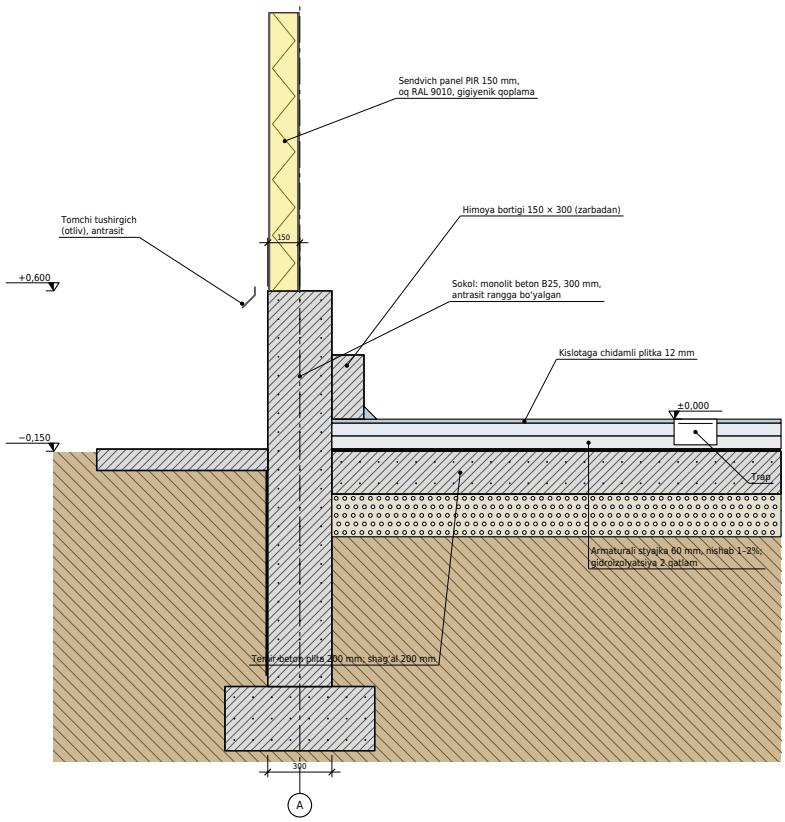
Belgi	Eskiz (M 1:150)	Nomi va tavsifi	O‘lchami, mm	Qushxona	Muzlatgich	Sex	Jami
E-1		Ichki eshik, bir tavaqali, gigiyenik (PVX qoplamali, zanglamaydigan ramka)	1 200 × 2 400	13	2	9	**24**
E-6		Ichki eshik, ikki tavaqali, gigiyenik, kuzatish oynasi bilan	1 500 × 2 400	—	—	1	**1**
E-2		Sovutish kamerasi eshigi, surma, izolyatsiyalangan (PIR 100), osma yo‘l uchun	1 500 × 2 800	16	—	1	**17**
E-4		Muzlatish kamerasi eshigi, surma, isitiladigan rama, PIR 150	2 400 × 3 000	—	13	—	**13**
E-3		Tashqi eshik, metall, issiqlik izolyatsiyali, antrasit	1 200 × 2 400	4	2	2	**8**
E-5		Kirish eshigi, ikki tavaqali, alyuminiy, shisha paketli	1 500 × 2 600	1	—	1	**2**
T-1		Osma yo‘l proyomi, PVX lentali parda bilan	1 200 × 3 600	7	—	1	**8**
Dv-1		Seksiyali darvoza, issiqlik izolyatsiyali (chorva, chiqindi)	3 000 × 3 000	2	—	1	**3**
Dv-2		Tez ko‘tariladigan darvoza (galereya), PVX	3 000 × 3 500	2	2	2	**6**
Dv-3		Dok darvozasi: seksiyali PIR 80 + dok-shelter + gidravlik maydoncha	3 600 × 3 600	—	8	—	**8**
Dv-4		Seksiyali darvoza (mashina zali)	2 400 × 3 000	—	1	—	**1**
D-1		Deraza, alyuminiy profil, ikki kamerali shisha paket	2 000 × 1 200	3	4	2	**9**

Eslatmalar: 1. Eshiklar o‘lchami proyom bo‘yicha. 2. Sovutish va muzlatish kameralari eshiklari isitiladigan rama va avariya ochgichi bilan. 3. Sanitariya talablari: barcha ichki eshiklar yuviladigan, zanglamaydigan furnitura bilan. 4. Joylashuvi qushxona binosi, muzlatgich va qayta ishlash sexi rejalarida ko‘rsatilgan.

Qushxona: konstruktiv uzellar (1–2)

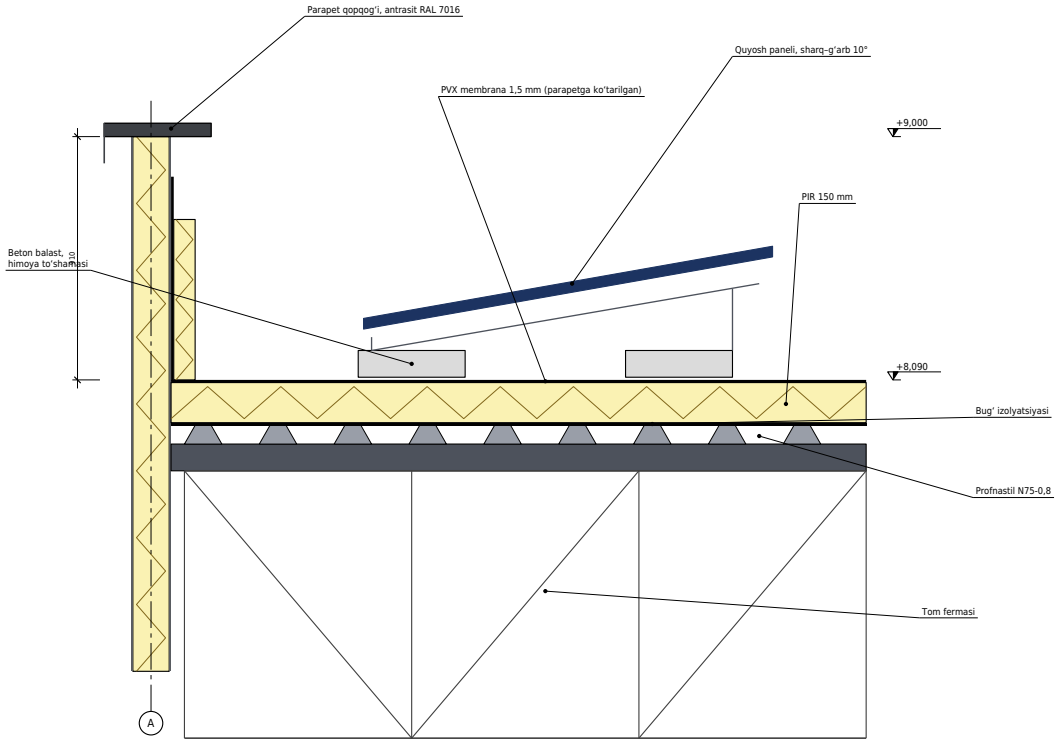
1 Sendvich panel devor, sokol va gigiyenik pol (qushxona, A o‘q)

M 1:25



2 Parapet, tom va quyosh paneli (qushxona)

M 1:20

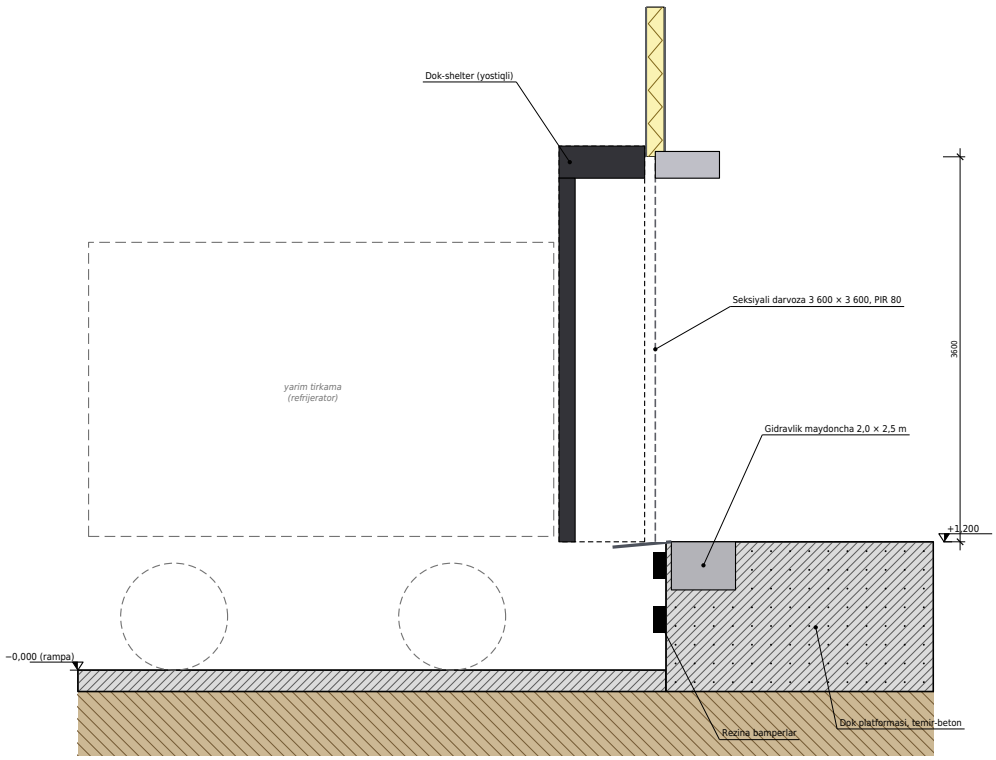


Eslatma: qatlam qalinliklari issiqlik-texnik hisob, konstruksiyalar mustahkamlik hisobi bilan ishchi loyihada aniqlanadi.

Muzlatgich: konstruktiv uzellar (3–4)

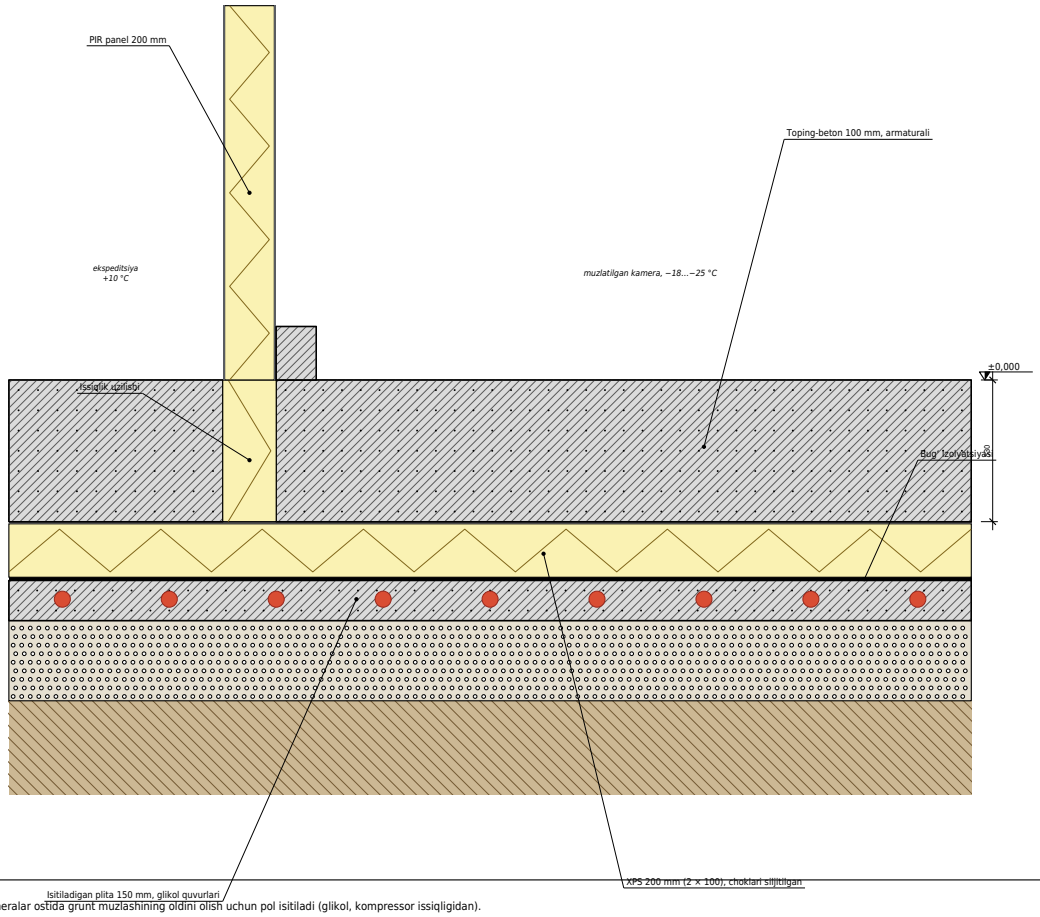
3 Yuklash doki (muzlatgich, A o‘q)

M 1:50



4 Muzlatilgan kamera poli (isitiladigan) va devor tutashuvi

M 1:20



Eslatma: muzlatilgan kameralar ostida grunt muzlashining oldini olish uchun pol isitiladi (glikol, kompressor issiqligidan).

Qushxona va muzlatgich majmuasi: asosiy texnik-iqtisodiy ko‘rsatkichlar

Biznes reja (asosiy variant) va albom chizmalari asosida. Investitsiya qaytarilmaydigan mablag‘ deb olingan, yer narxi hisobga olinmagan.

1. HUDUD BALANSI		
Nomi	**m²**	**%**
Binolar va inshootlar	21 046	21,0
Yo‘llar va maydonchalar	10 366	10,4
2-bosqich zaxirasi	5 720	5,7
Ko‘kalamzorlashtirish	62 868	62,9
Uchastka maydoni	**100 000**	**100**

2. ISHLAB CHIQARISH	
Ko‘rsatkich	**Qiymat**
Qushxona, smenada	100 qoramol (faqat qoramol)
Go‘sht, barqaror yil	≈ 6 400 t/yil
Qayta ishlash	go‘shtning ≈ 35%
Xomashyo, yiliga	≈ 27 000 qoramol
So‘yish	halol, robot tusha bo‘lish, RFID

3. SOVITISH	
Ko‘rsatkich	**Qiymat**
Muzlatgich sig‘imi	3 000 t
sovutilgan / muzlatilgan	600 t / 2 000 t
tayyor mahsulot	400 t
Shok-muzlatish	40 t/sutka
Yuklash doklari	8 ta
Sovitish tizimi	ammiak va CO_2 kaskad, freonsiz

4. ASOSIY BINOLAR		
Bino	**O‘lcham, m**	**Maydon, m²**
Qushxona binosi	100 × 50	5 000
Muzlatgich va sovutish markazi	84 × 48	4 032
Qayta ishlash sexi	60 × 30	1 800
So‘yish oldi chorva binosi	54 × 24	1 296
Ma’muriy bino (2 qavat)	46 × 18	828
Qo‘shimcha mahsulot sexi	36 × 21	756
Oqova suv tozalash inshooti	70 × 24	1 680

5. MUHANDISLIK VA IQTISOD	
Ko‘rsatkich	**Qiymat**
Elektr iste’moli	≈ 6,7 GWh/yil
Quyosh panellari	2,29 MW, 3,19 GWh/yil
Oqova suv tozalash	≈ 250 m³/sutka
Issiqlik	kompressordan 60–70 °C suv
Investitsiya: qushxona (faqat qoramol), muzlatgich	17,30 mln $

Eslatma

Ikkinchi smena uchun yangi bino talab qilinmaydi; 2-bosqichda zaxira maydonida muzlatgich kengaytmasi va kolbasa sexi quriladi.

Klaster bo‘yicha umumiy ko‘rsatkichlar umumiy albomda keltirilgan.

Qushxona va muzlatgich: suratlar



Majmua, janubi-sharqdan



Janubi-g‘arbdan



Shimoli-sharqdan



Janubdan, asosiy kirish



Yuqoridan (bosh reja bilan bir xil)

Havodan suratlar bosh rejaga mos; ichki ko‘rinishlar binolar konsepsiyasini ko‘rsatadi.

MEAT SOLUTIONS

Ekinzordan tayyor go‘shtgacha bitta klasterda







ASOSIY KO‘RSATKICHLAR

Uchastka	**400 × 250 m = 10,0 ga**
Qushxona, smenada	**100 qoramol**
Go‘sht	**≈ 6 400 t/yil**
Muzlatgich	**3 000 t**
Shok-muzlatish	**40 t/sutka**
Quyosh panellari	**2,29 MW**
Chorva kompleksidan masofa	**kamida 1 000 m**

ALBOMLAR TO‘PLAMI

1-albom	Chorva kompleksi
2-albom	Ilmiy-innovatsion markaz
3-albom	**Qushxona va muzlatgich** ◂
4-albom	Ekinzor — ozuqa maydoni

Albom TEO oldi (konseptual) bosqichida tayyorlangan. Suratlar loyiha konsepsiyasini ko‘rsatish uchun chizmalar asosida yaratilgan. Ishchi loyihani litsenziyali loyiha tashkiloti tayyorlaydi.