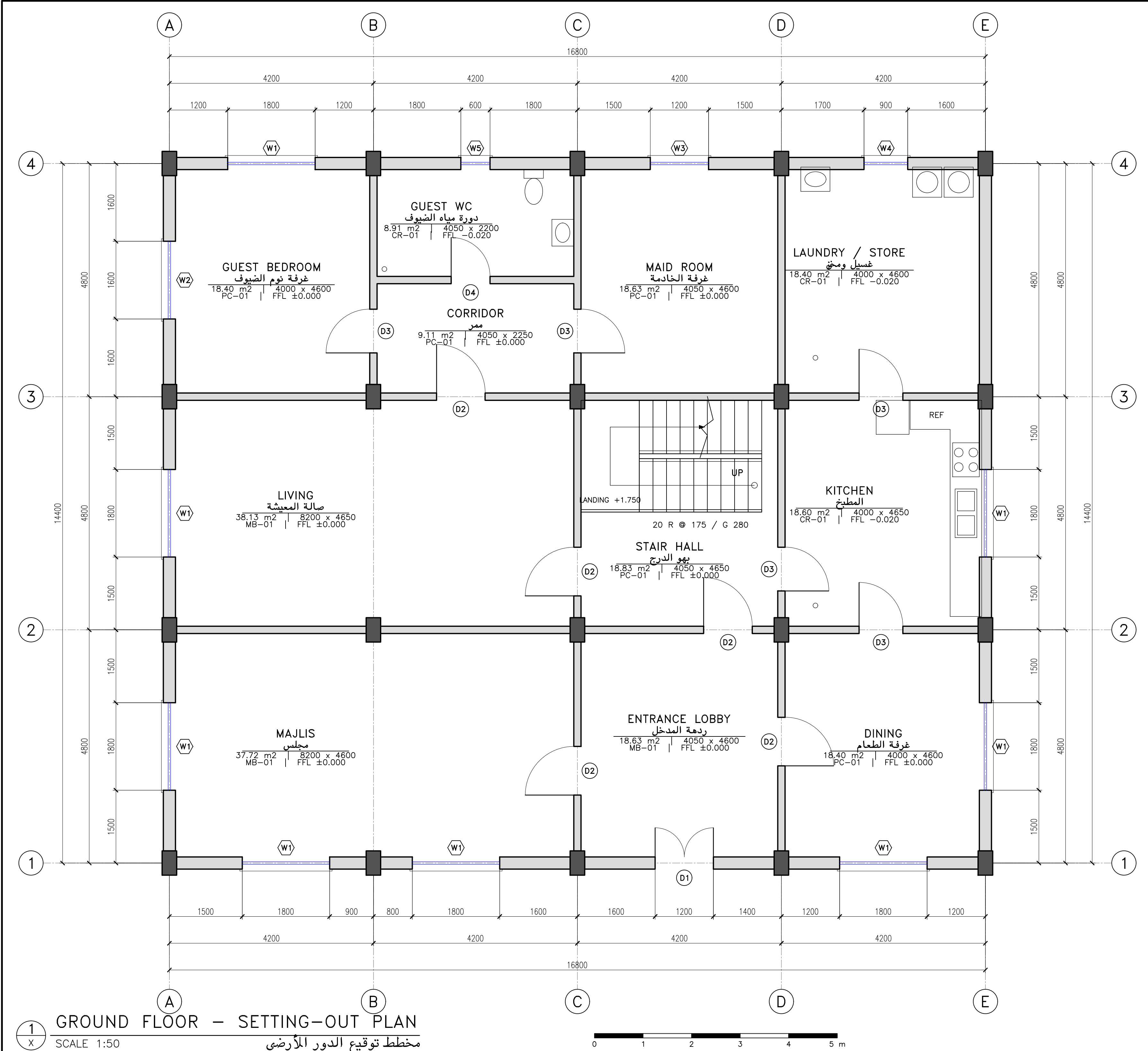
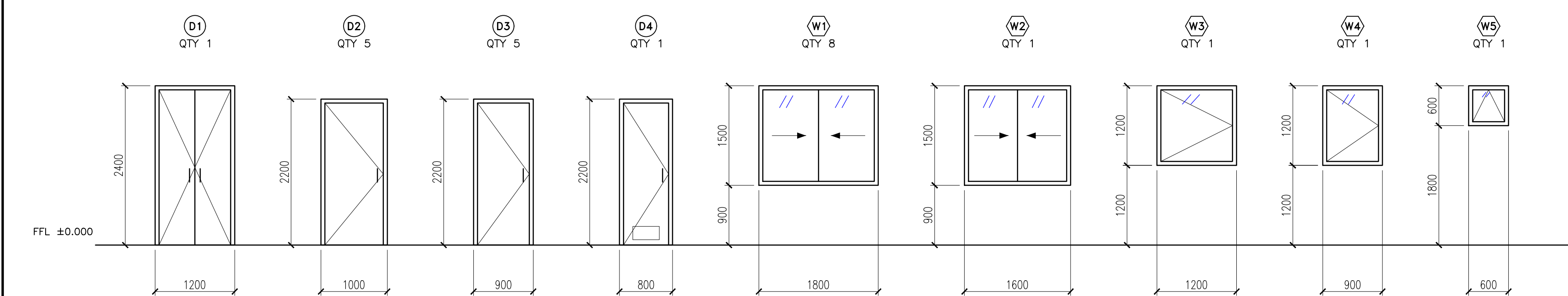




1 X GROUND FLOOR – SETTING-OUT PLAN
مخطط تخطيط الدور الأرضي
SCALE 1:50



2 X DOOR & WINDOW TYPES – ELEVATIONS
واجهات أنواع الأبواب والنوافذ
SCALE 1:50
SAMPLE – PORTFOLIO ONLY – NOT FOR CONSTRUCTION

DOOR SCHEDULE

TAG	W x H (mm)	QTY	DESCRIPTION
D1	1200 x 2400	1	Double leaf, solid timber – main entrance
D2	1000 x 2200	5	Single leaf, solid-core timber
D3	900 x 2200	5	Single leaf, solid-core timber
D4	800 x 2200	1	Single leaf, moisture-resistant – WC

WINDOW SCHEDULE

TAG	W x H (mm)	SILL	QTY	DESCRIPTION
W1	1800 x 1500	900	8	Alu. thermal-break, double glazed, sliding
W2	1600 x 1500	900	1	Alu. thermal-break, double glazed, sliding
W3	1200 x 1200	1200	1	Aluminium thermal-break, double glazed, casement
W4	900 x 1200	1200	1	Aluminium, double glazed, casement
W5	600 x 600	1800	1	Aluminium, obscure glass, top-hung – high level

ROOM FINISH SCHEDULE

ROOM	FLOOR	SKIRTING	WALLS	CEILING	FCL	FFL
MAJLIS	MB-01	SK-01	PT-01	GB-01	+2.550	±0.000
ENTRANCE LOBBY	MB-01	SK-01	PT-01	GB-01	+2.550	±0.000
DINING	PC-01	SK-01	PT-01	GB-01	+2.550	±0.000
LIVING	MB-01	SK-01	PT-01	GB-01	+2.550	±0.000
STAIR HALL	PC-01	SK-01	PT-01	GB-01	+2.550	±0.000
KITCHEN	CR-01	SK-01	PT-01+CT-01	MR-01	+2.550	-0.020
GUEST BEDROOM	PC-01	SK-01	PT-01	GB-01	+2.550	±0.000
CORRIDOR	PC-01	SK-01	PT-01	GB-01	+2.550	±0.000
GUEST WC	CR-01	-	CT-01	MR-01	+2.550	-0.020
MAID ROOM	PC-01	SK-01	PT-01	GB-01	+2.550	±0.000
LAUNDRY / STORE	CR-01	SK-01	PT-01	MR-01	+2.550	-0.020

FINISH CODES

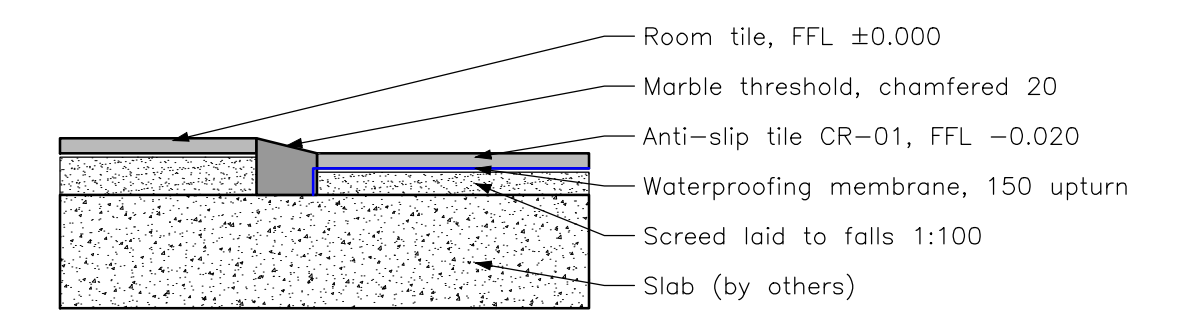
CODE	FINISH
MB-01	Marble 600x600x20, ASTM C503, on C2 adhesive (EN 12004)
PC-01	Porcelain 600x600, ISO 13006 Bla, on C2 adhesive
CR-01	Anti-slip ceramic 300x600, R10 (DIN 51130), wet areas
SK-01	Skirting 100 high, same material as floor
PT-01	Emulsion paint, 3 coats, on 20 mm cement plaster
CT-01	Ceramic wall tile 300x600 – WC full height, kitchen 600 splash
GB-01	Gypsum-board false ceiling, painted
MR-01	Moisture-resistant gypsum-board false ceiling, painted

LEGEND

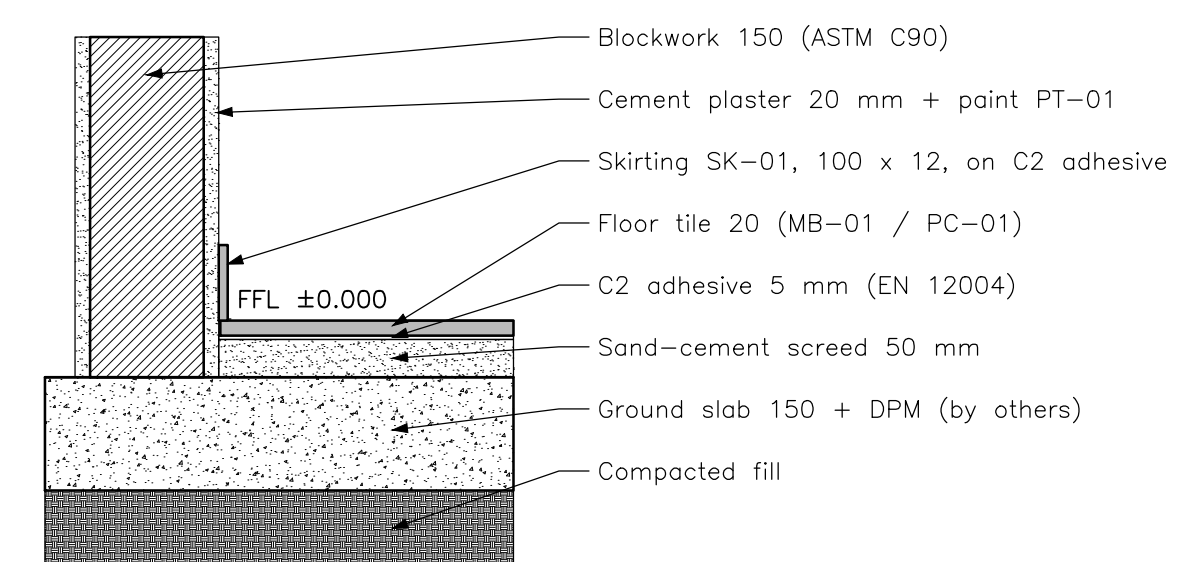
- Blockwork wall (250 external / 150 internal)
- RC column C1 300x500 (see SD-ST-201)
- Door type tag
- Window type tag

COORDINATION

False ceiling at +2.550 keeps ducts below beam soffit +2.900.
Wet areas FFL -0.020 with floor drain; falls 1:100 to drain.
Stair: 20 risers @ 175, going 280, 2R+G = 630 (SBC 201).
Door undercut 10 mm; D4 with 400x200 transfer grille.



4 X WET-AREA THRESHOLD
مخطط عتبة المناطق الرطبة
SCALE 1:10



3 X FLOOR / SKIRTING JUNCTION
مخطط مفصلة الأرضية والوزرة
SCALE 1:10

CLIENT
SAMPLE PROJECT – PORTFOLIO
نموذج أعمال

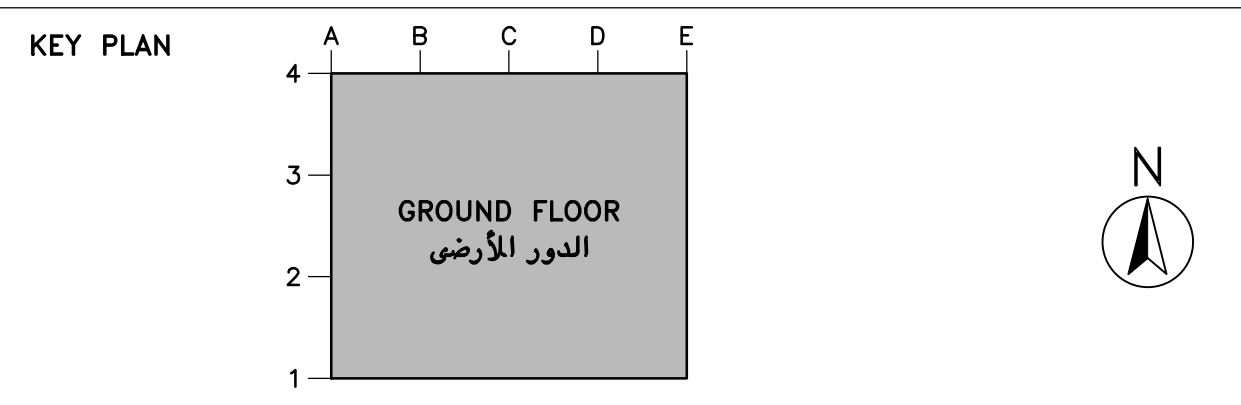
PROJECT
RESIDENTIAL VILLA – G+1
SHOP DRAWINGS & QTO
فيلا سكنية أرضي وأول

DRAWING TITLE
GROUND FLOOR
SETTING-OUT PLAN
DOOR & WINDOW TYPES
مخطط التوقيع وأنواع الأبواب والنوافذ

NOTES
1. All dimensions in mm, levels in m.
2. Setting-out from structural grid.
3. External walls 250 insulated block; internal walls 150 block.
4. Storey height FFL to SSL 3.500 m.
5. Opening sizes are structural openings.

SUBMITTAL DATA
Submittal No. AC-SV-SD-101
Spec section 04 22 00 | 08 14 16 | 08 51 13 | 09 30 13
Submitted to Consultant / PMC for review
Purpose Portfolio sample

فهرس اللوحات
SHEET INDEX
SD-AR-101 Setting-out plan, door & window types
SD-ST-201 Slab S1 reinforcement, sections, BBS
SD-HV-301 HVAC ductwork layout & details
SD-FF-401 Fire sprinkler layout & details
QTO ArabCreators_Portfolio-QTO_20260928_v1.xlsx



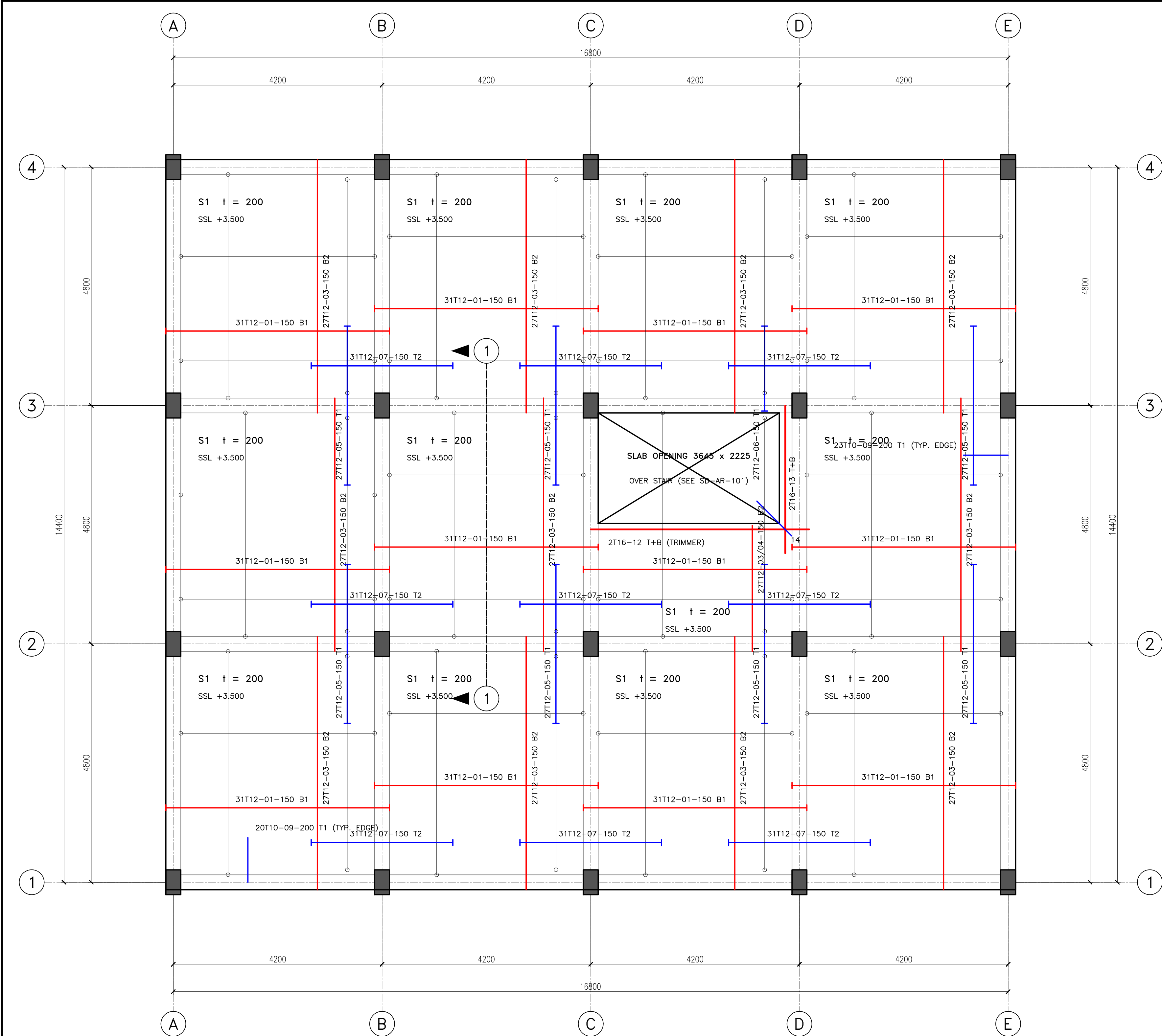
اعتماد الاستشاري
CONSULTANT ACTION
A – Approved
B – Approved as noted
C – Revise and resubmit
D – Rejected

Reviewed by:
Signature:
Date:

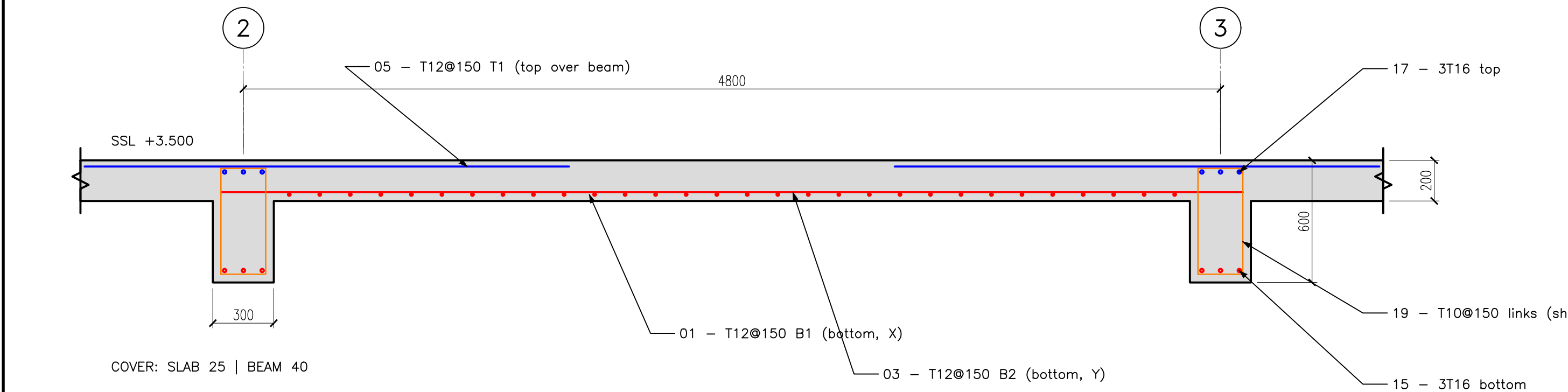
SCALE AS SHOWN @ A1
DISCIPLINE ARCHITECTURAL
DRAWN AC Technical Office
APPROVED Eng. Ahmed Fathy – Projects Manager
DATE 28/09/2026
REVISION 00
STATUS SAMPLE

REV 00
DATE 28/09/2026
DESCRIPTION Issued as portfolio sample
BY AC
CHK AF

Do not scale. Use figured dimensions only.
DRAWING No. SD-AR-101
رقم اللوحة
REV 00



1 X FIRST-FLOOR SLAB S1 - REINFORCEMENT PLAN
SCALE 1:50
مخطط تسليح سقف الدور الأرضي



2 X SECTION 1-1
SCALE 1:20
القطاع الأول

SAMPLE - PORTFOLIO ONLY - NOT FOR CONSTRUCTION

BAR BENDING SCHEDULE (BS 8666:2020)

MK	MEMBER / LOCATION	BAR	SH	L (mm)	No.	TOTAL m	kg
01	Slab S1 bottom, X (B1)	T12	00	4,500	358	1,611.0	1,431
02	Slab bottom X - at void	T12	11	700	14	9.8	9
03	Slab S1 bottom, Y (B2)	T12	00	5,100	300	1,530.0	1,359
04	Slab bottom Y - at void	T12	11	2,700	24	64.8	58
05	Slab top over beams 2, 3 (T1)	T12	00	3,200	189	604.8	537
06	Slab top beam 3 - at void	T12	11	1,850	27	50.0	44
07	Slab top over beams B,C,D (T2)	T12	00	2,850	251	715.4	635
08	Slab top beams C, D - at void	T12	11	1,750	28	49.0	44
09	Slab edge L-bars @200	T10	11	1,200	298	357.6	221
10	Top distribution T10@300, X	T10	00	8,900	60	534.0	329
11	Top distribution T10@300, Y	T10	00	7,450	76	566.2	349
12	Void trimmers X, 2T16 T+B	T16	00	4,850	4	19.4	31
13	Void trimmers Y, 2T16 T+B	T16	00	3,450	4	13.8	22
14	Void corner diagonals T+B	T12	00	1,200	4	4.8	4
15	Beam B1 bottom 3T16, X lines	T16	11	9,100	24	218.4	345
16	Beam B1 bottom 3T16, Y lines	T16	11	7,900	30	237.0	374
17	Beam B1 top 3T16, X lines	T16	11	9,100	24	218.4	345
18	Beam B1 top 3T16, Y lines	T16	11	7,900	30	237.0	374
19	Beam B1 links T10@150	T10	51	1,680	867	1,456.6	899
20	Column C1 verticals 8T16	T16	00	4,300	160	688.0	1,086
21	Column C1 ties T10@150	T10	51	1,480	400	592.0	365
22	Column C1 cross-ties T10@150	T10	99	420	400	168.0	104
TOTAL T10 / T12 / T16 (kg)							
2,267 / 4,120 / 2,575						SUM kg	8,962

ELEMENT SCHEDULE

ELEMENT	SIZE (mm)	CONCRETE	COVER
S1 slab	t = 200	C35 (fcu 35)	25
B1 beams	300 x 600	C35	40
C1 columns	300 x 500	C40	40

BAR LABEL FORMAT

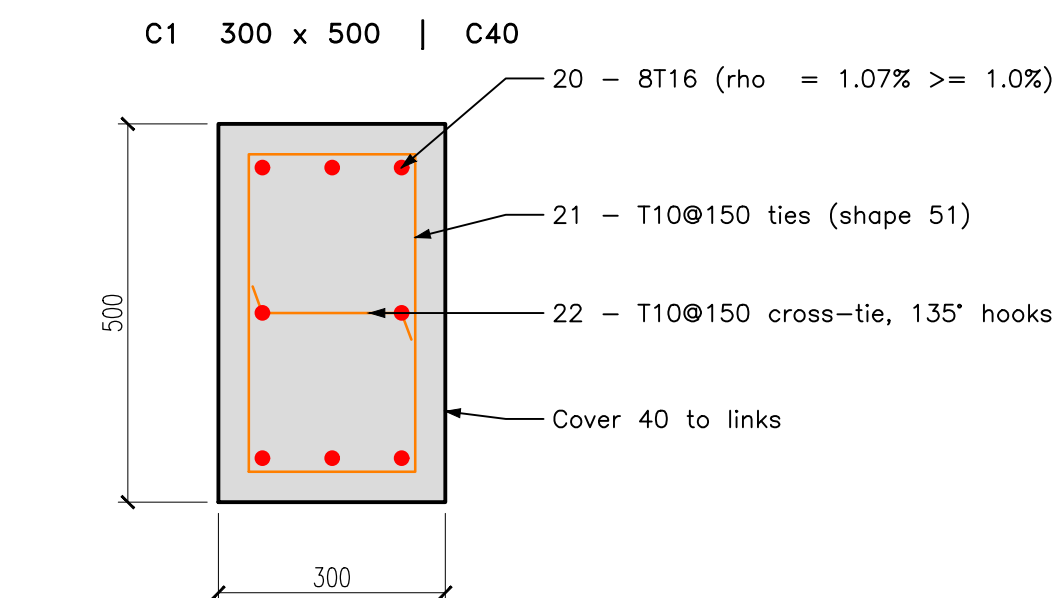
27T12-05-150 T1 = number | type & ϕ | mark | spacing | layer
B1/B2 = bottom/outer/inner layer | T1/T2 = top/outer/inner layer
Shape codes to BS 8666: 00 straight, 11 one bend, 51 closed link.

CODES & STANDARDS

KSA: SBC 304 (concrete) | SBC 301 (loads) | SBC 201
Egypt: ECP 203-2020 | ECP 201 (loads)
USA: ACI 318-19 | ACI 315 | ASTM A615 Gr.60 | BS 8666

LAPS & ANCHORAGE (mm) - SBC 304 / ACI 318

BAR	LAP 50d	ANCHORAGE 40d	90° HOOK 12d
T10	500	400	120
T12	600	480	144
T16	800	640	192



3 X COLUMN C1 - SECTION
SCALE 1:10
قطاع العمود

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CLIENT
SAMPLE PROJECT - PORTFOLIO

نموذج أعمال

PROJECT
RESIDENTIAL VILLA - G+1
SHOP DRAWINGS & QTO

فيلا سكنية أرضي وأول

DRAWING TITLE
FIRST-FLOOR SLAB S1
REINFORCEMENT PLAN,
SECTIONS & BBS

تسليح السقف والقطاعات وجدول الحديد

NOTES

- Design to SBC 304 / ECP 203; $f_y = 420$ MPa.
- Laps 50d; anchorage per SBC 304 Ch. 25.
- Top bars extend 0.3 L each side of support.
- Slab opening per SD-AR-101 stair; trimmers 2T16 top and bottom, 600 beyond corners.
- Chairs and spacers per contractor method.

SUBMITTAL DATA

Submittal No. AC-SV-SD-201
Spec section 03 11 00 | 03 21 00 | 03 30 00
Submitted to Consultant / PMC for review
Purpose Portfolio sample

SHEET INDEX

SD-AR-101 Setting-out plan, door & window types
SD-ST-201 Slab S1 reinforcement, sections, BBS
SD-HV-301 HVAC ductwork layout & details
SD-FF-401 Fire sprinkler layout & details
QTO ArabCreators_Portfolio-QTO_20260928_v1.xlsx

فهرس اللوحات

KEY PLAN



CONSULTANT ACTION

- ☐ A - Approved ☐ B - Approved as noted
☐ C - Revise and resubmit ☐ D - Rejected

Reviewed by:

Signature: _____
Date: _____

اعتماد الاستشاري

SCALE AS SHOWN @ A1
DISCIPLINE STRUCTURAL
DRAWN AC Technical Office
APPROVED Eng. Ahmed Fathy - Projects Manager
DATE 28/09/2026
REVISION 00
STATUS SAMPLE

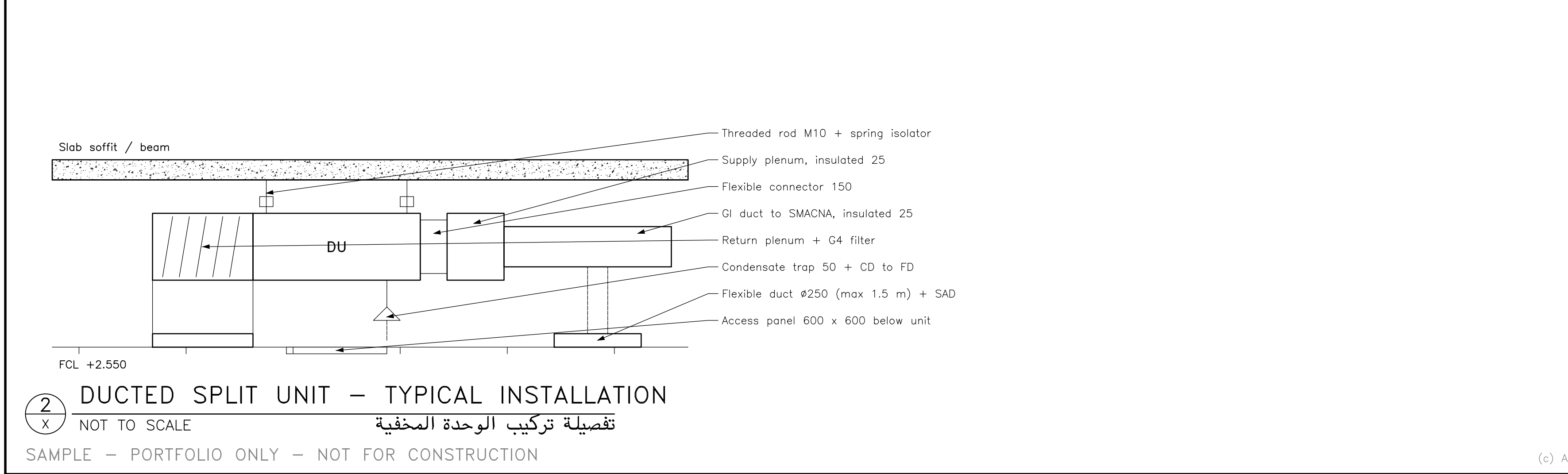
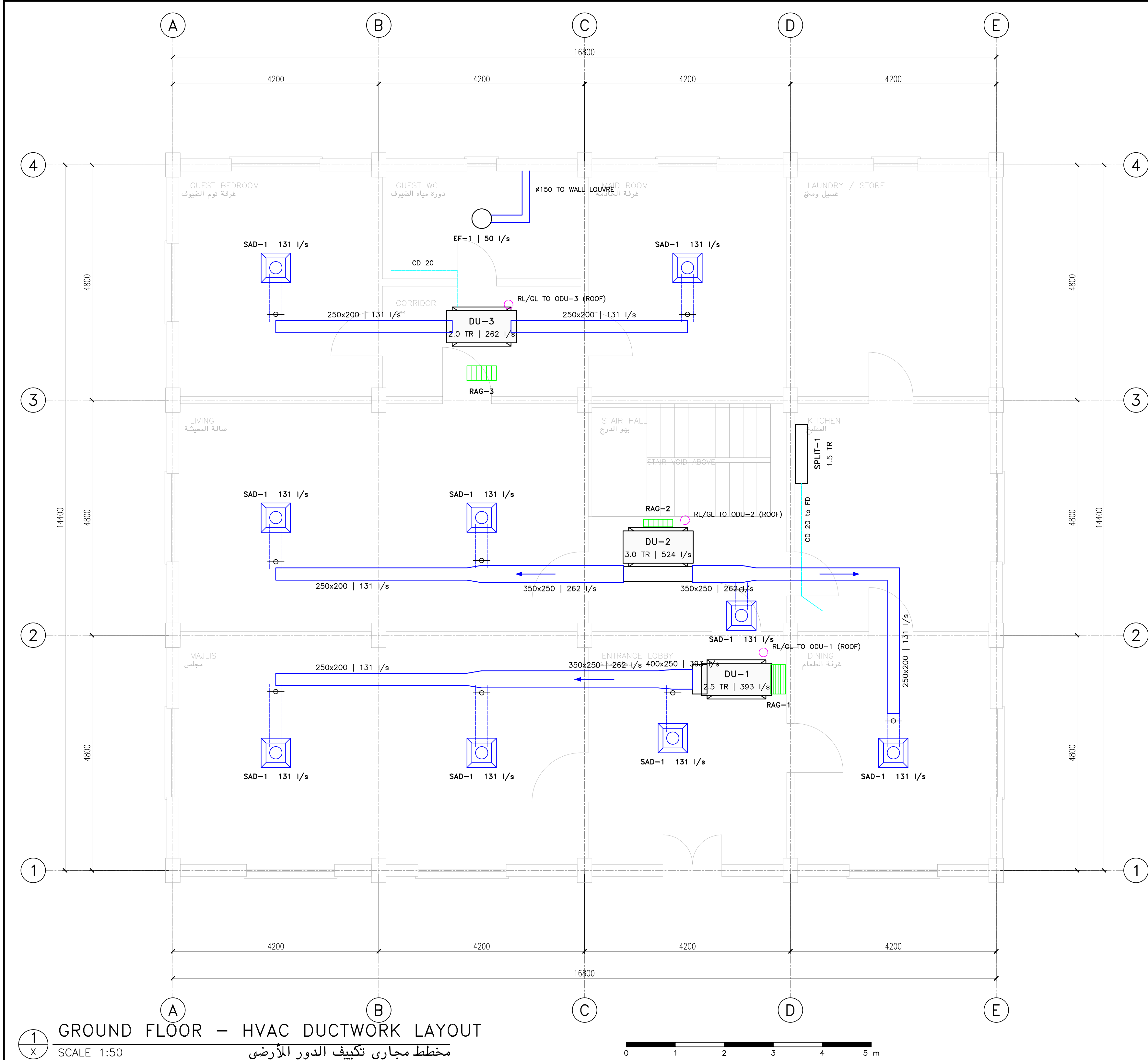
REV 00
DATE 28/09/2026
DESCRIPTION Issued as portfolio sample
BY AC
CHK AF

DRAWING No.

SD-ST-201

رقم اللوحة

REV 00



EQUIPMENT SCHEDULE

TAG	TYPE	CAPACITY	I/s	ESP Pa	SERVES
DU-1	Ducted split	2.5 TR / 8.8 kW	393	120	Majlis, lobby
DU-2	Ducted split	3.0 TR / 10.6 kW	524	120	Living, stair, dining
DU-3	Ducted split	2.0 TR / 7.0 kW	262	100	Bedroom, maid room
SPLIT-1	Wall split	1.5 TR / 5.3 kW	–	–	Kitchen
EF-1	Ceiling fan	–	50	80	Guest WC

DIFFUSER & GRILLE SCHEDULE

TAG	DESCRIPTION	NECK	QTY
SAD-1	Square ceiling diffuser 600x600, 4-way, 131 I/s, NC <=	3250	9
RAG-1/3	Return grille 600x300, egg-crate, with G4 filter	–	2
RAG-2	Return grille 600x150, linear	–	1

DUCTWORK SUMMARY (THIS SHEET)

DUCT	LENGTH m	SHEET m2	SPECIFICATION
400x250	0.40	0.52	GI, SMACNA 500 Pa, insulated 25
350x250	7.50	9.00	GI, SMACNA 500 Pa, insulated 25
250x200	20.65	18.59	GI, SMACNA 500 Pa, insulated 25
ø250 flex	8.47	–	Flexible insulated
ø150 exhaust	1.80	–	GI spiral

DESIGN CRITERIA

CRITERION	VALUE
Main duct velocity	<= 5.0 m/s (residential)
Branch / flex velocity	<= 3.0 m/s
Friction rate	~ 0.8 Pa/m (equal friction)
Supply air basis	~ 7 I/s per m2 dt 11 K
Indoor design	23 °C ± 1, 50% RH

LEGEND

- Supply duct (double line), size | airflow
- Flexible duct ø250
- Condensate drain CD 20 (uPVC)
- Refrigerant pipes to roof ODU
- Volume control damper (VCD)

CODES & STANDARDS

KSA: SBC 501 (mechanical) | SBC 601 (energy) | SASO 2874
Egypt: Egyptian HVAC code (ECP) – design & installation
USA: ASHRAE 62.2 | ASHRAE 90.1 | SMACNA HVAC DCS



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SAMPLE PROJECT – PORTFOLIO

نموذج أعمال

PROJECT
RESIDENTIAL VILLA – G+1
SHOP DRAWINGS & QTO

فيلا سكنية أرضى وأول

DRAWING TITLE
GROUND FLOOR
HVAC DUCTWORK LAYOUT
& INSTALLATION DETAIL

مخطط التكييف وتفصيلية التركيب

- NOTES
- Ducts run below beam soffit +2.900; FCL +2.550.
 - VCD at every branch; balance to ±10 %.
 - Refrigerant pipe sizes per manufacturer.
 - Condensate to nearest floor drain, 1:100 fall.
 - Duct sizes are clear internal dimensions.

SUBMITTAL DATA

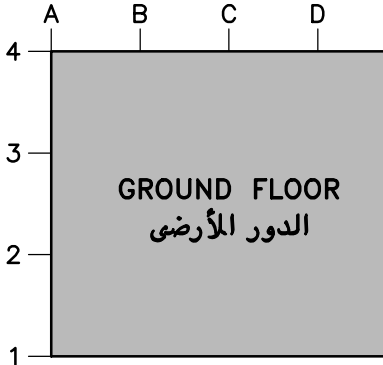
Submittal No. AC-SV-SD-301
Spec section 23 31 13 | 23 33 00 | 23 37 13 | 23 81 26
Submitted to Consultant / PMC for review
Purpose Portfolio sample

SHEET INDEX

SD-AR-101 Setting-out plan, door & window types
SD-ST-201 Slab S1 reinforcement, sections, BBS
SD-HV-301 HVAC ductwork layout & details
SD-FF-401 Fire sprinkler layout & details
QTO ArabCreators_Portfolio-QTO_20260928_v1.xlsx

فهرس اللوحات

KEY PLAN



CONSULTANT ACTION

- ☐ A – Approved ☐ B – Approved as noted
☐ C – Revise and resubmit ☐ D – Rejected

اعتماد الاستشارى

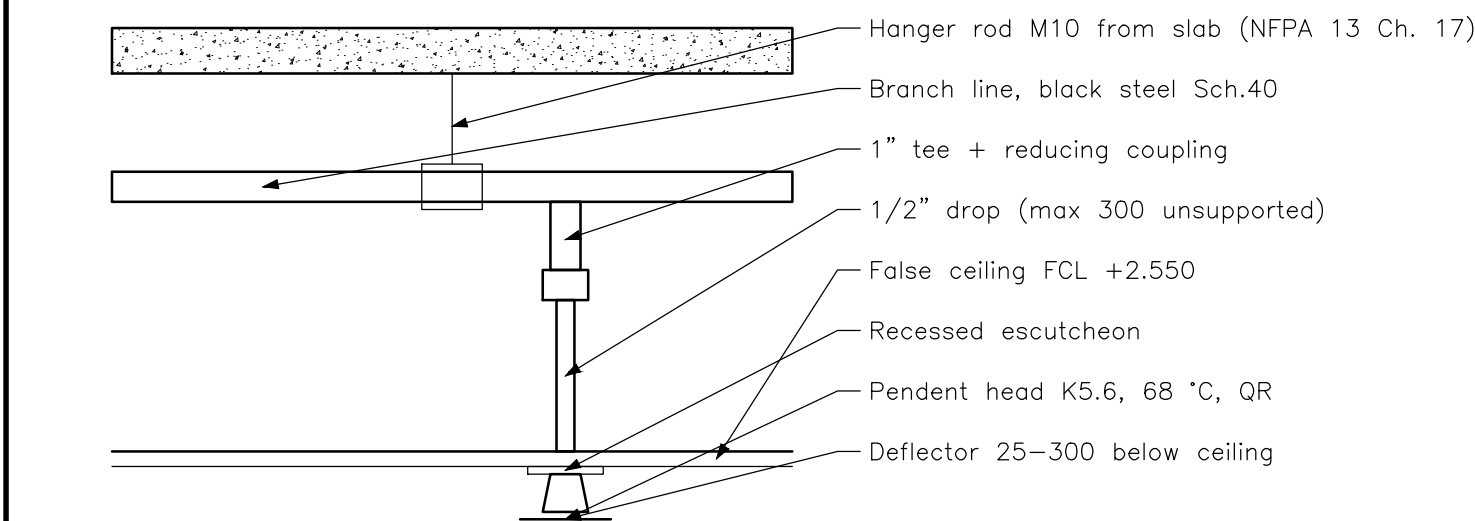
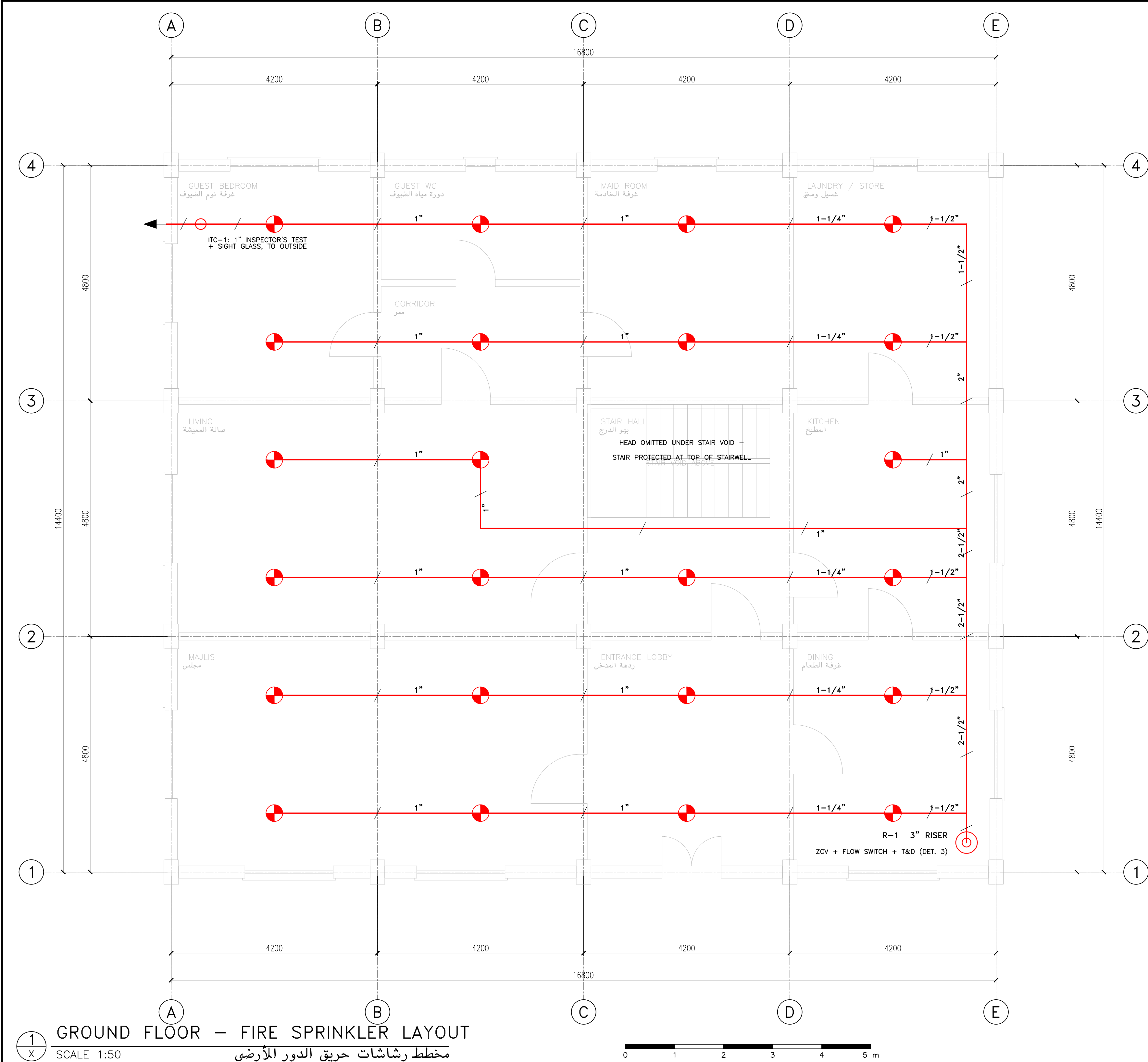
Reviewed by: _____
Signature: _____
Date: _____

SCALE AS SHOWN @ A1 DATE 28/09/2026
DISCIPLINE HVAC REVISION 00
DRAWN AC Technical Office STATUS SAMPLE
APPROVED Eng. Ahmed Fathy – Projects Manager

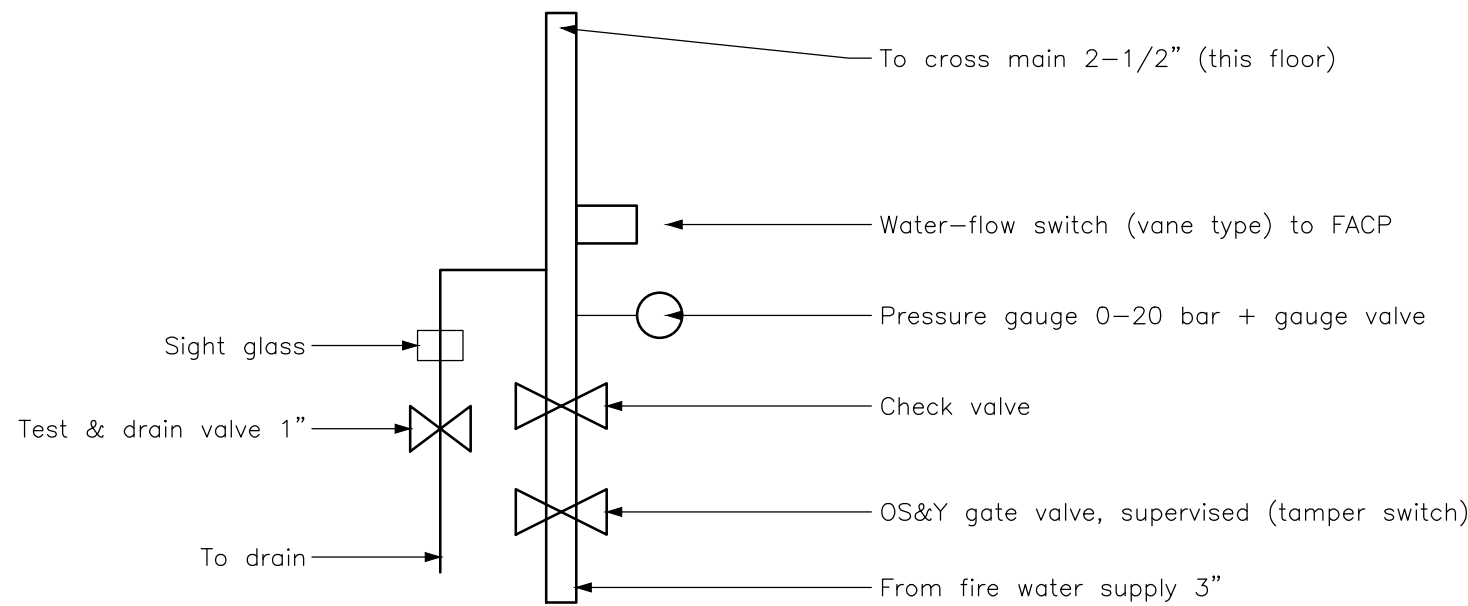
REV DATE DESCRIPTION BY CHK
00 28/09/2026 Issued as portfolio sample AC AF

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DRAWING No. SD-HV-301
رقم اللوحة
REV 00



SAMPLE – PORTFOLIO ONLY – NOT FOR CONSTRUCTION



PIPE & HEAD SUMMARY (THIS SHEET)

PIPE	DN	LENGTH m	JOINT	HANGER max m
1"	25	61.20	Threaded	3.7
1-1/4"	32	21.00	Threaded	3.7
1-1/2"	40	9.90	Threaded	4.6
2"	50	3.80	Threaded	4.6
2-1/2"	65	6.40	Grooved	4.6
Heads	–	23 No.	Pendent K5.6	–

PIPE SCHEDULE – LIGHT HAZARD, STEEL (NFPA 13)

HEADS SERVED	<= 2	3	<= 5	<= 10	<= 30	<= 60
Pipe size	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"

DESIGN CRITERIA

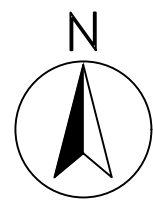
CRITERION	VALUE
Occupancy	Light hazard (residential villa)
Design density	4.1 mm/min over 139 m2
Max coverage / head	20.9 m2 (225 ft2); used 10.1 m2
Max spacing / to wall	4.6 m / 2.3 m; used 4.2 m / 2.1 m
Hose allowance	6.3 l/s (100 gpm) for 30 min
Method	Pipe schedule (<= 465 m2), hydraulic check

LEGEND

- Pendent sprinkler head
- Sprinkler pipe, size in inches
- Hanger (NFPA 13 Ch. 17)

CODES & STANDARDS

KSA: SBC 801 (fire code) -> NFPA 13 | Civil Defense
Egypt: Egyptian fire-protection code (ECP)
USA: NFPA 13-2022 | NFPA 25 | UL / FM listed



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CLIENT
SAMPLE PROJECT – PORTFOLIO

نموذج أعمال

PROJECT
RESIDENTIAL VILLA – G+1
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DRAWING TITLE
GROUND FLOOR
FIRE SPRINKLER LAYOUT
& DETAILS

مخطط رشاشات الحريق والتفاصيل

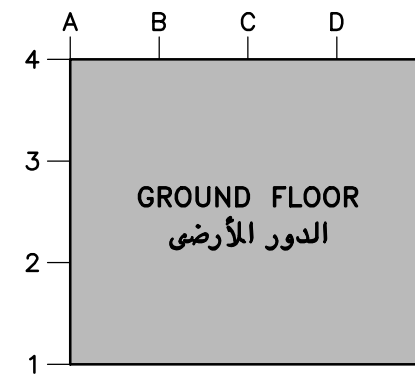
- NOTES
- Wet-pipe system to NFPA 13, light hazard.
 - Heads centred in ceiling tiles, ± 50 mm.
 - Hydrostatic test 13.8 bar (200 psi) for 2 h.
 - Pipe: black steel Sch.40 (ASTM A53).
 - Final hydraulic calculation with shop set.

SUBMITTAL DATA
Submittal No. AC-SV-SD-401
Spec section 21 05 29 | 21 13 13
Submitted to Consultant / PMC for review
Purpose Portfolio sample

SHEET INDEX
SD-AR-101 Setting-out plan, door & window types
SD-ST-201 Slab S1 reinforcement, sections, BBS
SD-HV-301 HVAC ductwork layout & details
SD-FF-401 Fire sprinkler layout & details
QTO ArabCreators_Portfolio-QTO_20260928_v1.xlsx

فهرس اللوحات

KEY PLAN



CONSULTANT ACTION

اعتماد الاستشاري

- ☐ A – Approved
- ☐ B – Approved as noted
- ☐ C – Revise and resubmit
- ☐ D – Rejected

Reviewed by: _____
Signature: _____
Date: _____

SCALE AS SHOWN @ A1
DISCIPLINE FIRE PROTECTION
DRAWN AC Technical Office
APPROVED Eng. Ahmed Faty – Projects Manager

DATE 28/09/2026
REVISION 00
STATUS SAMPLE

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DATE 28/09/2026
DESCRIPTION Issued as portfolio sample
BY AC
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DRAWING No.

رقم اللوحة

SD-FF-401

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