MINISTRY OF INTERIOR & NARCOTICS CONTROL NATIONAL POLICE FOUNDATION (NPF), ISLAMABAD

CONSTRUCTION OF HOUSES FOR ICT POLICE

TECHNICAL BID

BIDDING DOCUMENTS
VOLUME – III

DRAWINGS

AUGUST, 2026

NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD
NESPAK House, Sector G-5/2, Islamabad, Tel: 051-9221910-13, Fax: 051-9221914.

FRONT VIEW

SCALE: 3/32" = 1'-0"

REFERENCE DRAWINGS		REV. NO.	DATE	DESCRIPTION	BY	CKD.	APPR.

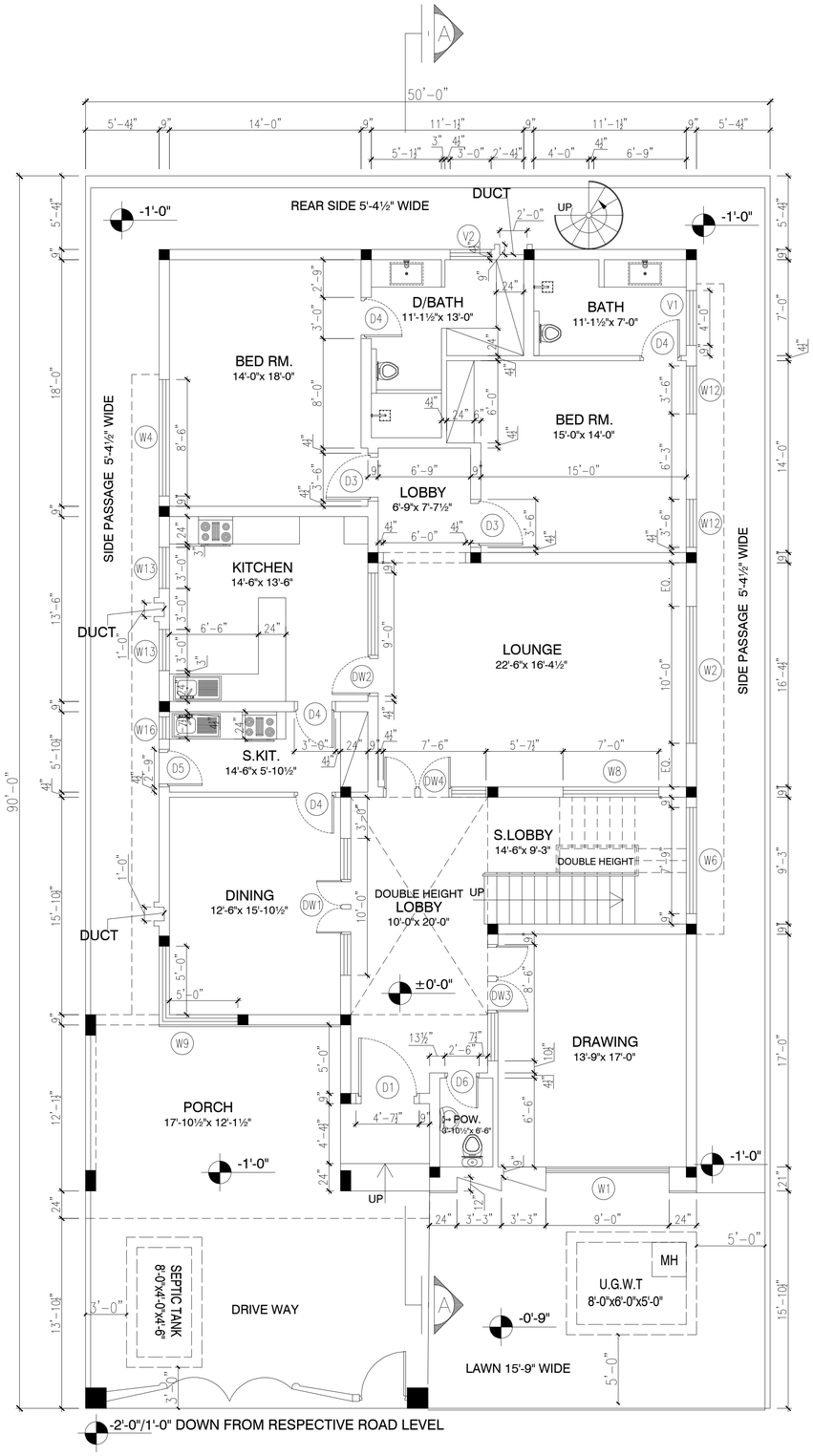
ISLAMABAD CAPITAL TERRITORY POLICE

ICT POLICE ACCOMMODATION PROJECT
ISLAMABAD

FRONT VIEW

NES PAK NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. ISLAMABAD

DESN. NESPAK	RECOMMENDED	VER./CKD.	APPROVED
DWN. M. SALEEM			
FILE			
CKD.			
SUBM.	DATE JUL,2026.	DRAWING NO. 156/322/BD/01B01	REV. .



GROUND FLOOR PLAN

SCHEDULE OF OPENING

S.NO	TYPE	SIZE	SILL	REMARKS
1	DW1	10'-0"x 8'-0"	0'-0"	DOUBLE LEAF DOOR
2	DW2	9'-0"x 8'-0"	0'-0"	DOUBLE LEAF DOOR
3	DW3	8'-6"x 8'-0"	0'-0"	DOUBLE LEAF DOOR
4	DW4	7'-6"x 8'-0"	0'-0"	DOUBLE LEAF DOOR
5	D1	4'-7½"x 8'-0"	0'-0"	SINGLE LEAF DOOR
6	D2	4'-6"x 8'-0"	0'-0"	DOUBLE LEAF DOOR
7	D3	3'-6"x 8'-0"	0'-0"	SINGLE LEAF DOOR
8	D4	3'-0"x 8'-0"	0'-0"	SINGLE LEAF DOOR
9	D4a	3'-0"x 7'-0"	0'-0"	SINGLE LEAF DOOR
10	D5	2'-9"x 8'-0"	0'-0"	SINGLE LEAF DOOR
11	D6	2'-6"x 8'-0"	0'-0"	SINGLE LEAF DOOR
12	D6a	3'-0"x 7'-0"	0'-0"	SINGLE LEAF DOOR
13	W1	9'-0"x 19'-0"	1'-0"	WINDOW
14	W2	10'-0"x 7'-0"	1'-0"	WINDOW
15	W3	9'-0"x 7'-0"	1'-0"	WINDOW
16	W4	8'-6"x 7'-0"	1'-0"	WINDOW
17	W5	8'-0"x 7'-0"	1'-0"	WINDOW
18	W6	7'-9"x 7'-0"	1'-0"	WINDOW
19	W7	7'-3"x 7'-0"	1'-0"	WINDOW
20	W8	7'-0"x 7'-0"	1'-0"	WINDOW
21	W9	5'+ 5'x 7'-0"	1'-0"	WINDOW
22	W10	4'-10½"x 7'-0"	1'-0"	WINDOW
23	W11	4'-3"x 7'-0"	1'-0"	WINDOW
24	W12	3'-6"x 7'-0"	1'-0"	WINDOW
25	W13	3'-0"x 7'-0"	1'-0"	WINDOW
26	W14	4'-0"x 6'-0"	2'-0"	WINDOW
27	W15	3'+3'x 4'-6"	3'-6"	WINDOW
28	W16	1'-7½"x 4'-6"	3'-6"	WINDOW
29	V1	4'-0"x 3'-0"	5'-0"	VENTILATOR
30	V2	3'-0"x 3'-0"	5'-0"	VENTILATOR

SCALE: 3/32" = 1'-0"

REFERENCE DRAWINGS	REV. NO.	DATE	DESCRIPTION	BY	CKD.	APPR.

ISLAMABAD CAPITAL TERRITORY POLICE

ICT POLICE ACCOMMODATION PROJECT
ISLAMABAD

GROUND FLOOR PLAN

NATIONAL ENGINEERING SERVICES
PAKISTAN (PVT.) LTD. ISLAMABAD

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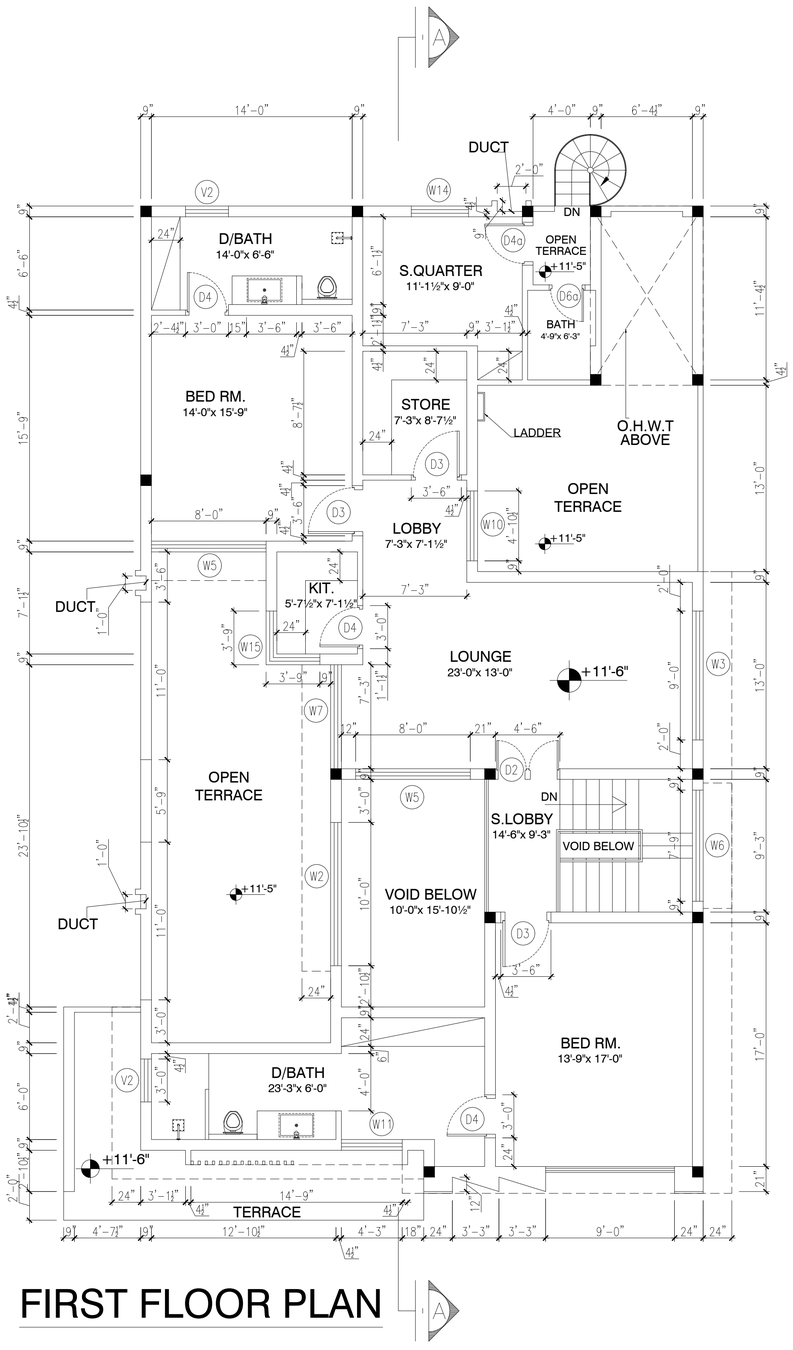
FILE			
CKD.	DATE	DRAWING NO.	REV.
SUBM.	JUL,2026.	156/322/BD/01B02	.



FIRST FLOOR PLAN

SCHEDULE OF OPENING

S.NO	TYPE	SIZE	SILL	REMARKS
1	DW1	10'-0"x 8'-0"	0'-0"	DOUBLE LEAF DOOR
2	DW2	9'-0"x 8'-0"	0'-0"	DOUBLE LEAF DOOR
3	DW3	8'-6"x 8'-0"	0'-0"	DOUBLE LEAF DOOR
4	DW4	7'-6"x 8'-0"	0'-0"	DOUBLE LEAF DOOR
5	D1	4'-7½"x 8'-0"	0'-0"	SINGLE LEAF DOOR
6	D2	4'-6"x 8'-0"	0'-0"	DOUBLE LEAF DOOR
7	D3	3'-6"x 8'-0"	0'-0"	SINGLE LEAF DOOR
8	D4	3'-0"x 8'-0"	0'-0"	SINGLE LEAF DOOR
9	D4a	3'-0"x 7'-0"	0'-0"	SINGLE LEAF DOOR
10	D5	2'-9"x 8'-0"	0'-0"	SINGLE LEAF DOOR
11	D6	2'-6"x 8'-0"	0'-0"	SINGLE LEAF DOOR
12	D6a	3'-0"x 7'-0"	0'-0"	SINGLE LEAF DOOR
13	W1	9'-0"x 19'-0"	1'-0"	WINDOW
14	W2	10'-0"x 7'-0"	1'-0"	WINDOW
15	W3	9'-0"x 7'-0"	1'-0"	WINDOW
16	W4	8'-6"x 7'-0"	1'-0"	WINDOW
17	W5	8'-0"x 7'-0"	1'-0"	WINDOW
18	W6	7'-9"x 7'-0"	1'-0"	WINDOW
19	W7	7'-3"x 7'-0"	1'-0"	WINDOW
20	W8	7'-0"x 7'-0"	1'-0"	WINDOW
21	W9	5'+ 5'x 7'-0"	1'-0"	WINDOW
22	W10	4'-10½"x 7'-0"	1'-0"	WINDOW
23	W11	4'-3"x 7'-0"	1'-0"	WINDOW
24	W12	3'-6"x 7'-0"	1'-0"	WINDOW
25	W13	3'-0"x 7'-0"	1'-0"	WINDOW
26	W14	4'-0"x 6'-0"	2'-0"	WINDOW
27	W15	3'+3'x 4'-6"	3'-6"	WINDOW
28	W16	1'-7½"x 4'-6"	3'-6"	WINDOW
29	V1	4'-0"x 3'-0"	5'-0"	VENTILATOR
30	V2	3'-0"x 3'-0"	5'-0"	VENTILATOR

SCALE: 3/32" = 1'-0"

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ISLAMABAD CAPITAL TERRITORY POLICE

ICT POLICE ACCOMMODATION PROJECT
ISLAMABAD

FIRST FLOOR PALN

NATIONAL ENGINEERING SERVICES
PAKISTAN (PVT.) LTD. ISLAMABAD

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DWN. M. SALEEM			
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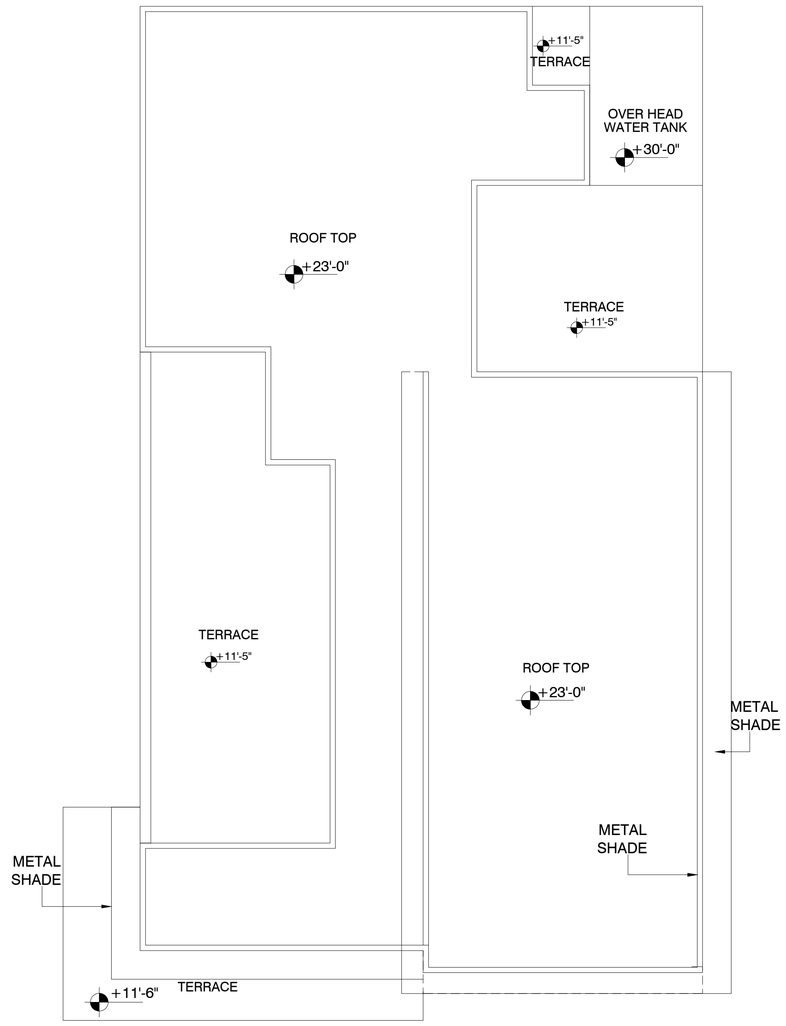
CKD.			
SUBM.	DATE JUL,2026.	DRAWING NO. 156/322/BD/01B03	REV. .



ROOF TOP PLAN

SCALE: 3/32" = 1'-0"

REFERENCE DRAWINGS	REV. NO.	DATE	DESCRIPTION	BY	CKD.	APPR.

ISLAMABAD CAPITAL TERRITORY POLICE

ICT POLICE ACCOMMODATION PROJECT
ISLAMABAD

ROOF TOP PLAN

NATIONAL ENGINEERING SERVICES
PAKISTAN (PVT.) LTD. ISLAMABAD

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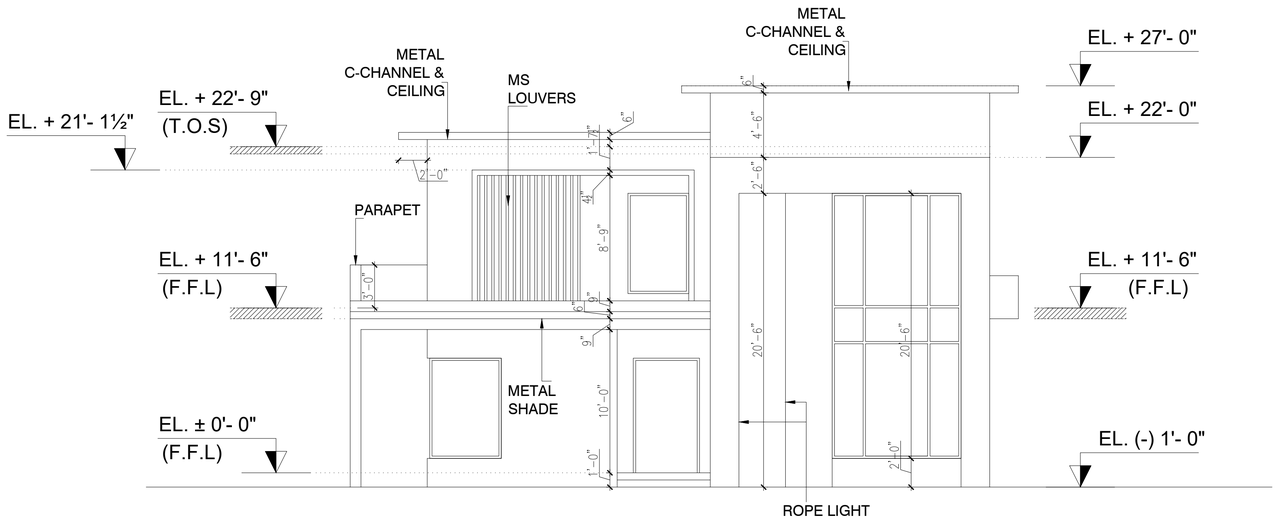
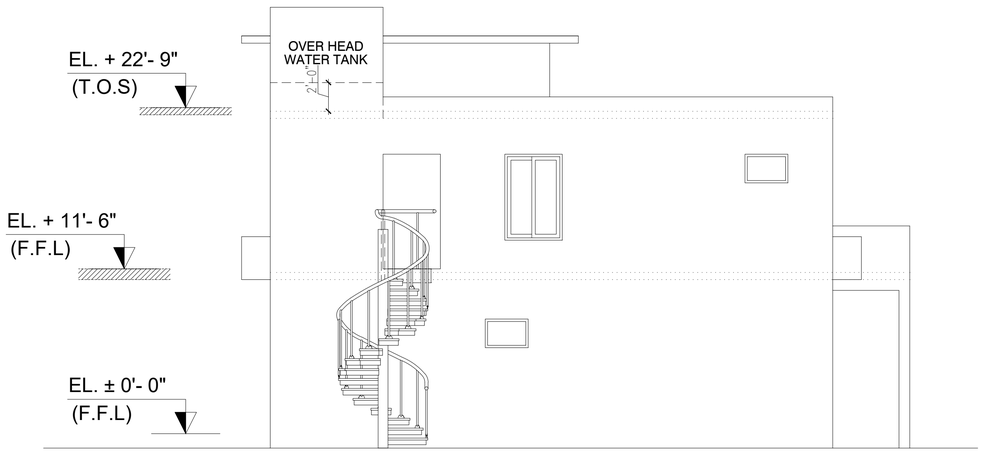
CKD.			
SUBM.			

DATE	DRAWING NO.	REV.
JUL,2026.	156/322/BD/01B04	.



FRONT ELEVATION



REAR ELEVATION

SCALE: 3/32" = 1'-0"

REFERENCE DRAWINGS		REV. NO.	DATE	DESCRIPTION	BY	CKD.	APPR.

ISLAMABAD CAPITAL TERRITORY POLICE

ICT POLICE ACCOMMODATION PROJECT
ISLAMABAD

ELEVATIONS

NATIONAL ENGINEERING SERVICES
PAKISTAN (PVT.) LTD. ISLAMABAD

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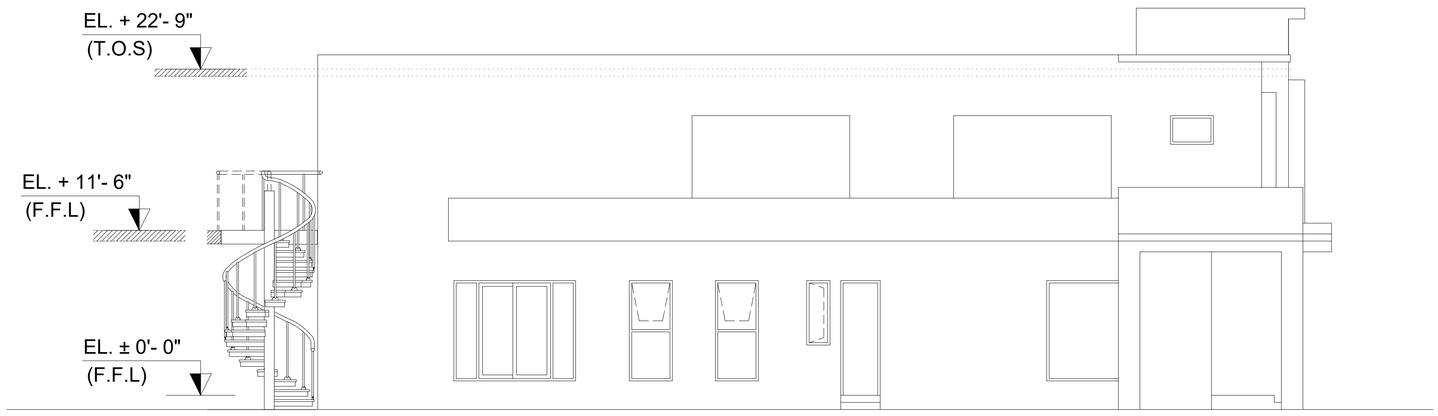
CKD.			
SUBM.	DATE JUL,2026.	DRAWING NO. 156/322/BD/01B05	REV. .

RIGHT SIDE ELEVATION



LEFT SIDE ELEVATION

SCALE: 3/32" = 1'-0"

REFERENCE DRAWINGS	REV. NO.	DATE	DESCRIPTION	BY	CKD.	APPR.

ISLAMABAD CAPITAL TERRITORY POLICE

ICT POLICE ACCOMMODATION PROJECT
ISLAMABAD

ELEVATIONS

NATIONAL ENGINEERING SERVICES
PAKISTAN (PVT.) LTD. ISLAMABAD

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CKD.			
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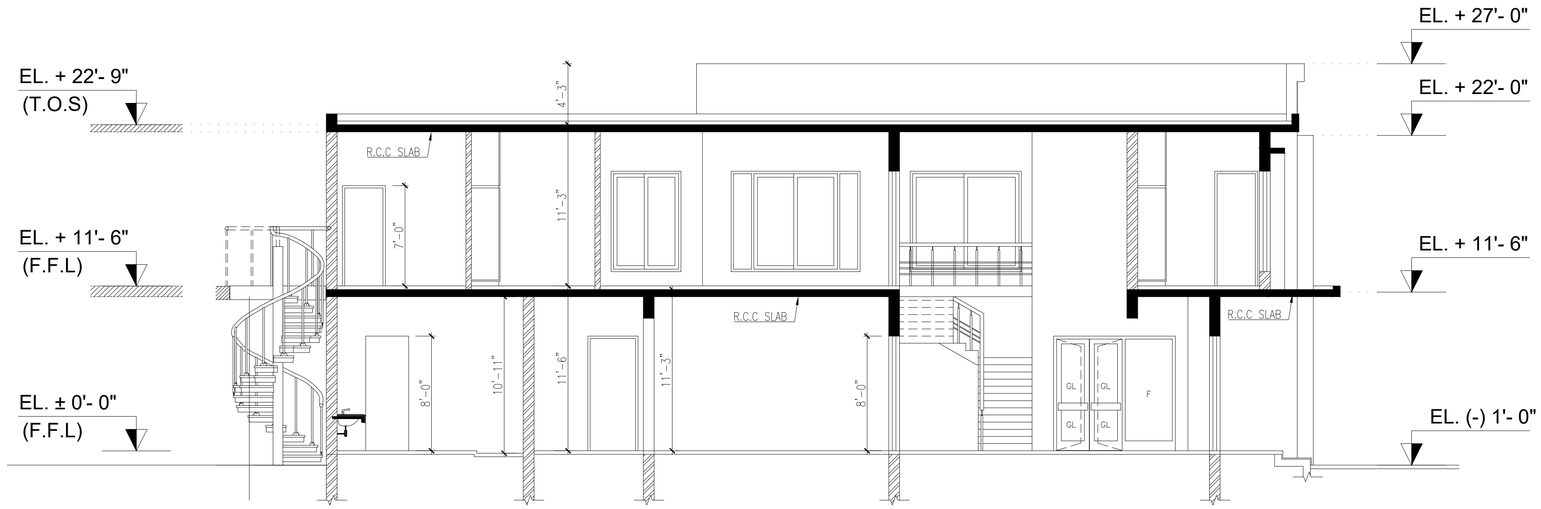
DATE	DRAWING NO.	REV.
JUL,2026.	156/322/BD/01B06	.



SECTION A

SCALE: 3/32" = 1'-0"

ISLAMABAD CAPITAL TERRITORY POLICE

ICT POLICE ACCOMMODATION PROJECT ISLAMABAD

SECTION-AA

NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. ISLAMABAD

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CKD.	JUL,2026.	156/322/BD/01B07	.
SUBM.			

REFERENCE DRAWINGS	REV. NO.	DATE	DESCRIPTION	BY	CKD.	APPR.

A. GENERAL

1. NOTES GIVEN ON THIS DRAWING ARE APPLICABLE TO ALL STRUCTURAL DRAWINGS UNLESS OTHERWISE NOTED. NOTES WRITTEN ON ANY OTHER DRAWING SHALL BE APPLICABLE TO THAT PARTICULAR DRAWING ONLY UNLESS OTHERWISE CROSS REFERRED.
2. SYSTEM OF UNITS IS FPS.
3. ALL LEVELS MARKED ON THE DRAWINGS ARE LEVELS OF STRUCTURAL ELEMENTS. FINISH LEVELS SHALL BE IN ACCORDANCE WITH THE ARCHITECTURAL DRAWINGS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY AND STABILITY OF THE STRUCTURE AND ALL TEMPORARY WORKS DURING CONSTRUCTION.
5. THE CONTRACTOR SHALL INFORM THE ENGINEER ABOUT ANTICIPATED CONSTRUCTION LOADS IN THE STRUCTURE AND OBTAIN ENGINEER'S APPROVAL THEREOF BEFORE COMMENCING THE WORK.
6. THE CONTRACTOR SHALL CO-ORDINATE ALL DRAWINGS OF ALL DISCIPLINES FOR ALL ITEMS INCLUDING BUT NOT LIMITED TO SIZES AND LOCATION OF ALL OPENINGS REQUIRED FOR DUCTS, PIPES AND PIPE SLEEVES, ELECTRICAL CONDUITS AND OTHER ITEMS TO BE EMBEDDED IN CONCRETE OR OTHERWISE INCORPORATED IN STRUCTURAL WORK AND SHALL BRING TO THE NOTICE OF THE ENGINEER DISCREPANCIES, IF ANY, FOR HIS INSTRUCTIONS, PRIOR TO THE START OF WORK.
7. THE CONTRACTOR SHALL VERIFY LAYOUT, CONFIGURATION, ALL DIMENSIONS AND LEVELS PERTAINING TO EXISTING WORKS BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL ADOPT ADEQUATE AND APPROPRIATE MEASURES SO AS NOT TO DAMAGE THE EXISTING WORKS.
8. THE CONTRACTOR SHALL EXERCISE UTMOST CARE AND PRECAUTION DURING THE WORKS, AGAINST ANY MISHAPS OR ACCIDENTS, FOR WHICH THE CONTRACTOR SHALL BE WHOLLY AND SOLELY RESPONSIBLE. THE CONTRACTOR SHALL INDEMNIFY THE OWNER AGAINST ANY ACCIDENTS AND ANY LOSSES THEREFROM AND SHALL REPAIR AND RECTIFY THEM AT HIS OWN COST AND TIME.
9. THE CONTRACTOR SHALL COORDINATE SCHEDULE OF CONSTRUCTION WITH SUPPLY AND INSTALLATION OF EQUIPMENT.
10. PROVISIONS SHALL BE MADE FOR INSTALLATION OF EQUIPMENT AS PER MANUFACTURER'S RECOMMENDATIONS.
11. ANY DEPARTURES/DEVIATIONS DESIRED FROM THE DESIGN OR SPECIFICATIONS, OR SOLUTIONS TO ANY PROBLEMS ENCOUNTERED, SHALL BE GOT APPROVED FROM THE ENGINEER PRIOR TO IMPLEMENTATION. UNAPPROVED DEPARTURES/DEVIATIONS MAY LEAD TO REJECTION/REPLACEMENT OF THE ENTIRE WORK AT THE CONTRACTOR'S COST.
12. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO SPECIFICATIONS OF THE CONTRACT. IN ABSENCE OF ANY EXPRESS OR IMPLIED SPECIFICATION IN THE CONTRACT, ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO RELEVANT AMERICAN STANDARDS AND SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER.
13. THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS AND BAR BENDING SCHEDULES FOR ENGINEER'S APPROVAL AND OBTAIN HIS APPROVAL BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE ACCURACY OF SHOP DRAWINGS AND BAR BENDING SCHEDULES. THE ENGINEER'S APPROVAL SHALL NOT RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITY.

B. FOUNDATION AND EARTHWORK

1. THE CONTRACTOR SHALL STUDY THE AVAILABLE GEOTECHNICAL INVESTIGATION REPORT BEFORE COMMENCING THE WORK.
2. FOUNDATION DESIGN IS BASED ON PARAMETERS PROVIDED IN GEOTECH. INVESTIGATION REPORT.
3. FOUNDATION IS TO BE PLACED 4'-0" BELOW N.S.L.
4. TERMITE CONTROL TREATMENT SHALL BE CARRIED OUT AS PER SPECIFICATIONS.
5. THE TYPE AND COMPACTION OF SOIL BELOW GRADE SLAB SHALL BE AS PER JOB SPECIFICATIONS.

   NO FOOTING SHALL BE PLACED ON FILL. HOWEVER, AREAS WHERE FILLING BELOW THE FOOTINGS BECOMES INEVITABLE DUE TO OVER-EXCAVATION (IF ANY), SHALL BE FILLED WITH P.C.C. (1:4:8) WITH PRIOR APPROVAL OF TH ENGINEER, AT NO EXTRA COST.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING SYSTEM IF AND WHERE SO REQUIRED DURING CONSTRUCTION.
7. ALL STRUCTURAL CONCRETE SURFACES AGAINST WHICH EARTH IS TO BE FILLED SHALL BE COATED WITH TWO COATS OF HOT BITUMEN (10/20 GRADE) APPLIED AT THE RATE OF 0.49 kg/sqm PER COAT, EXCEPT FOR P.C.C. (1:3:6) AND P.C.C. (1:4:8).
8. BACKFILLING AND COMPACTION SHALL BE CARRIED OUT EQUALLY ON BOTH SIDES OF PLINTH BEAMS TO AVOID IMBALANCE OF LATERAL EARTH PRESSURE.
9. THE CONTRACTOR SHALL SUPPLY AND ERECT ADEQUATE SHORING AND SUPPORT THE SIDES OF ALL EXCAVATIONS WHERE REQUIRED TO SAFEGUARD WORKMEN AND PROTECT ANY ADJACENT STRUCTURES.
10. EXISTING UNDERGROUND SERVICES, REQUIRED TO BE LEFT IN POSITION, SHALL BE CAREFULLY PROTECTED DURING EXCAVATION AND BACKFILLING OPERATIONS.
11. EXCAVATIONS ADJACENT TO EXISTING STRUCTURES AND/OR UNDERGROUND SERVICES SHALL BE MADE BY HAND.

C. REINFORCED CONCRETE

1. ALL CONCRETE SHALL BE TESTED IN ACCORDANCE WITH ASTM STANDARDS C31, C39, C172 & SPECIFICATIONS AND THE MINIMUM CUBE CRUSHING STRENGTH OF CONCRETE AT 28 DAYS SHALL BE AS FOLLOWS. TESTING OF CLASS D & E CONCRETE SHALL BE PERFORMED IF SO DIRECTED BY THE ENGINEER.

CLASS	CYLINDER STRENGTH AT 28-DAYS (psi.)
A	4,000
B	3,000
C	2,400
D	1,200
E	800

C. REINFORCED / PLAIN CEMENT CONCRETE (CONTINUED)

2. CLASS OF CONCRETE FOR DIFFERENT COMPONENTS OF THE STRUCTURE SHALL BE AS FOLLOWS UNLESS NOTED OTHER WISE:

COMPONENT	CONCRETE CLASS
MASONRY WALL FOUNDATION	B
FOUNDATION OF RCC COLUMNS	B
COLUMNS, SLABS & BEAMS	B
P.C.C. STEPS	D
LEAN CONCRETE	E

3. ORDINARY PORTLAND CEMENT SHALL BE USED FOR ALL CONCRETE WORKS.
4. AN INTEGRAL WATER PROOFING AGENT SHALL BE USED IN CONCRETE THAT IS CONSTANTLY OR INTERMITTENTLY IN CONTACT WITH WATER AS PER MANUFACTURER'S RECOMMENDATIONS
5. CONCRETE CLEAR COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

STRUCTURAL MEMBER / ELEMENT	MINIMUM COVER (INCHES)
FOUNDATIONS (ALL TYPES)	2"
COLUMNS & BEAMS	1½"
RETAINING WALLS	1½"
SLABS	¾"
PLINTH / LINTEL BAND	¾"

6. ALL REINFORCING STEEL BARS SHALL BE DEFORMED, HOT ROLLED BILLET STEEL BARS CONFORMING TO ASTM A-615/A-706,GRADE-60 WITH SPECIFIED YIELD STRENGTH OF NOT LESS THAN 60,000 psi. NOR MORE THAN 78,000 psi, AND RATIO OF ULTIMATE STRENGTH TO YIELD STRENGTH SHALL NOT BE LESS THAN 1.25.
7. GRADE-60 STEEL BARS ARE REPRESENTED USING PREFIX SYMBOL "#". WHEREAS, THE NUMBER INDICATES THE BAR DIAMETER/SIZE, AS UNDER:

BAR NUMBER	DIAMETER (INCHES)
3	3/8"
4	1/2"
5	5/8"
6	3/4"
8	1"

C. REINFORCED / PLAIN CEMENT CONCRETE (CONTINUED)

8. ALL DETAILING SHALL BE DONE AS PER ACI STANDARDS ACI-315, ACI-318 & ACI-350R.
9. ALL REINFORCING STEEL SHALL BE HELD FIRMLY IN PLACE BEFORE AND DURING THE PLACING OF CONCRETE BY MEANS OF WIRES AND SUPPORTS ADEQUATE TO PREVENT DISPLACEMENT DURING THE COURSE OF CONSTRUCTION.

D. CONCRETE CONSTRUCTION

1. THE CONTRACTOR SHALL SUBMIT CONCRETE POURING SCHEDULE FOR ENGINEER'S APPROVAL. NO CONCRETE SHALL BE POURED UNTIL ITS FORMWORK AND REINFORCEMENT HAS BEEN INSPECTED AND APPROVED BY THE ENGINEER.
2. DURING CONSTRUCTION, STACKING OF CONSTRUCTION MATERIALS, BLOCKS ETC. SHOULD BE AVOIDED ON SLAB PANELS.
3. BEFORE CASTING OF ANY STRUCTURAL MEMBER, THE CONTRACTOR SHALL ENSURE THAT ALL EMBEDDED ITEMS FOR ELECTRICAL, MECHANICAL, HVAC, PLUMBING, STRUCTURAL STEEL AND OTHER WORKS, AND DOWELS FOR STRUCTURAL MEMBERS AND/OR MASONARY ARE PROPERLY LOCATED IN PLACE.

E. CONSTRUCTION JOINTS

1. JOINTS, NOT SHOWN ON THE DRAWING, SHALL BE SO MADE AND LOCATED AS TO LEAST IMPAIR THE STRENGTH OF THE STRUCTURE AND SHALL NEED PRIOR APPROVAL OF THE ENGINEER. THEY SHALL BE LOCATED NEAR THE MIDDLE OF THE SPANS OF SLAB & BEAMS. JOINTS IN WALLS & COLUMNS SHALL BE AT THE UNDER-SIDE OF FLOORS, SLABS OR BEAMS AND AT THE TOP OF FOOTINGS OR FLOOR SLABS.
2. JOINTS SHALL BE PERPENDICULAR TO MAIN REINFORCEMENT. ALL REINFORCING STEEL SHALL BE CONTINUED ACROSS THE JOINTS.
3. JOINTS IN BASE SLAB & WALLS AND ROOF SLAB, IN ADDITION TO THOSE SHOWN ON THE DRAWINGS SHALL BE BORNE BY THE CONTRACTOR. BEAMS & BRACKETS SHALL BE PLACED AT THE SAME TIME AS SLABS.

F. ELECTRICAL CONDUITS

1. CONDUITS, FOR ELECTRICAL WORKS, SHALL BE PLACED WITHIN THE REINFORCED CONCRETE. THEY SHALL BE PLACED WITHIN THE MIDDLE THIRD OF THE SECTION IN BEAMS & SLABS AND WITHIN THE MIDDLE HALF OF THE THICKNESS. SPACING BETWEEN PARALLEL CONDUITS SHALL NOT BE LESS THAN 6"(150 MM).

SCALE = 1/8" = 1'-0"

REV. NO.	DATE	DESCRIPTION	BY	CKD.	APPR.

CONSTRUCTION OF HOUSES FOR ICT POLICE

GENERAL NOTES & TYPICAL DETAILS
(SHEET 1 OF 2)

NES PAK NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. ISLAMABAD

DESN. NESPAK	RECOMMENDED	VER./CKD.	APPROVED
DWN. MUNIR KHATTAK			
FILE	NIDA AFZAL	TALHA AFZAL	AAMIR RASHEED
CKD. NIDA AFZAL	DATE	DRAWING NO.	REV.
SUBM. AAMIR RASHEED	JULY' 2026	156/323/TD/01G01	0

G. PROPS, FORMWORK & CURING

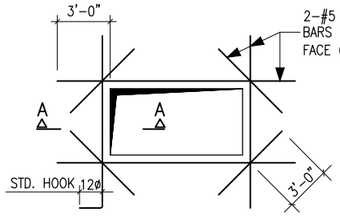
1. SHORE & BRACE ALL PARTS OF THE BUILDING DURING CONSTRUCTION, TO THE EXTENT NECESSARY TO ENSURE COMPLETE SAFETY, STRENGTH & SERVICEABILITY OF ALL STRUCTURAL ELEMENTS UNDER ALL CONDITIONS OF LOADS WHICH MAY OCCUR DURING CONSTRUCTION. SUCH SHORING & BRACING IS THE CONTRACTOR'S SOLE RESPONSIBILITY AND IS NOT SHOWN ON STRUCTURAL DRAWINGS OR SPECIFIED IN THE PROJECT.
2. SEQUENCE OF REMOVAL OF FORMWORK SHALL BE APPROVED BY THE ENGINEER.
3. AT LEAST ONE LOWER FLOOR SHALL REMAIN PROPPED UNTILL THE UPPER FLOOR IS CAST AND CURED.

H. BRICK MASONRY WORKS

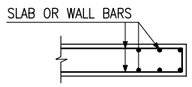
1. ALL BRICK WORKS SHALL CONFORM TO THE REQUIREMENTS OF SPECIFICATIONS FOR BUILDING AND ROAD WORKS GOVERNMENT OF PAKISTAN, PAKISTAN PUBLIC WORKS DEPARTMENT, BEING REFERENCE SPECIFICATIONS FOR SCHEDULE OF RATES–2022.

J. STRUCTURAL STEEL WORKS

1. ALL STRUCTURAL STEEL WORKS SHALL CONFORM TO THE REQUIREMENTS OF SPECIFICATIONS FOR BUILDING AND ROAD WORKS GOVERNMENT OF PAKISTAN, PAKISTAN PUBLIC WORKS DEPARTMENT, BEING REFERENCE SPECIFICATIONS FOR SCHEDULE OF RATES–2022.
2. ALL FABRICATION, PAINTING, ERECTION AND QUALITY CONTROL IS TO BE DONE IN ACCORDANCE WITH THE LATEST AISC SPECIFICATIONS.
3. ALL STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A–36 OR EQUIVALENT.
4. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF AMERICAN WELDING SOCIETY, AWS, SPECIFICATIONS USING ELECTRODES E70XX.
5. ALL BOLTS SHALL CONFORM TO ASTM A307 OR A325.
6. SURFACE PREPARATION OF ALL STRUCTURAL STEEL FOR PAINTING SHALL BE IN ACCORDANCE WITH THE LATEST ISSUE OF "STEEL STRUCTURES PAINTING COUNCIL" SPECIFICATIONS SSPC–SP6 FOR COMMERCIAL BLAST CLEANING.
7. ALL STEEL SHALL BE GIVEN ONE SHOP COAT OF RED LEAD OXIDE PRIMER AND FIELD TOUCHUP EXCEPT FOR SURFACES TO BE EMBEDDED IN CONCRETE OR CONTACT SURFACES OF FRICTION BOLTED CONNECTIONS.



WHERE BAR EXTENSION CANNOT BE OBTAINED EXTENDED BARS AS FAR AS POSSIBLE & HOOK

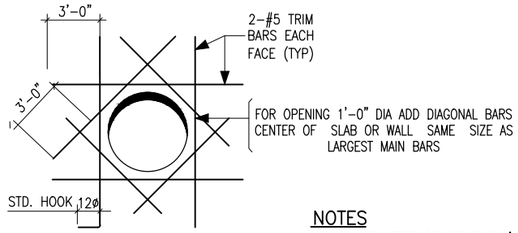


SECTION A–A

NOTES

- FOR OPENING WITH MAXIMUM DIMENSION OVER 5'–0" REFER TO OTHER DETAILS.
- USE THIS DETAILS IF NOT SHOWN IN DESIGN DRAWINGS

REINFORCEMENT DETAIL AT OPENING IN SLAB & WALLS (TYP)

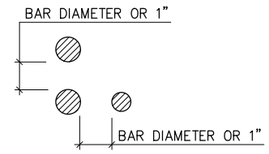


WHERE BAR EXTENSION CANNOT BE OBTAINED EXTENDED BARS AS FAR AS POSSIBLE & HOOK

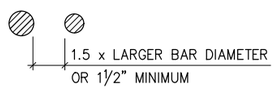
NOTES

MAXIMUM DIAMETER OF SLEVE IS 1'–0" FOR TRIM BARS BARS AROUND LARGE SLEEVE REFER TO OTHER DETAILS

REINFORCEMENT AROUND SLEEVE IN SLABS & WALLS (TYP.)



BAR SPACING IN BEAM



VERTICAL BAR SPACING

K. ABBREVIATIONS & SYMBOLS

@	AT THE RATE OF
B	BOTTOM
BC	BRICK COLUMN
BW	BOTHWAYS
c/c	CENTRE TO CENTRE
CL	CLEAR
D,d	DEPTH, THICKNESS
EF	EACH FACE
EJ	EXPANSION JOINT
EL.	STRUCTURAL ELEVATION
EQ	EQUAL
FF	FAR FACE
FFL	FINISHED FLOOR LEVEL
FGL	FINISHED GROUND LEVEL
GS	SLAB ON GRADE
H	HORIZONTAL
NF	NEAR FACE
NSL	NATURAL SURFACE LEVEL
NSP	NOT SHOWN ON PLAN
NTS	NOT TO SCALE
SOP	SURVEY OF PAKISTAN
ST	STIRUPPS
T	TOP
TH.	THICK
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	VERTICAL
≥	GREATER THAN OR EQUAL TO
≤	LESS THAN OR EQUAL TO
ø	DIAMETER IN INCHES
⌖	LEVEL ON PLAN
℄	CENTRE LINE
L	ANGLE
[	CHANNEL

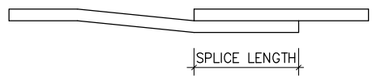
SPLICE LENGHTH (LS) *

fc' = 2,500 PSI		
BAR SIZES	(LS1) TOP BARS	(LS2) OTHER BARS
#3 TO #6	57db	44db
#7 TO #18	72db	55db

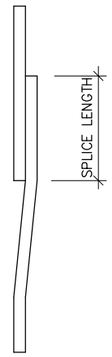
* ALL LAP SPLICE SHALL BE STAGGERED BY AT LEAST 50 %

DEVELOPMENT LENGHT (LD)

LD = LS



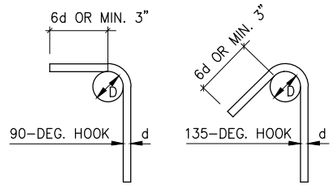
BEAM SPLICE (TYP.)



COLUMN SPLICE (TYP.)

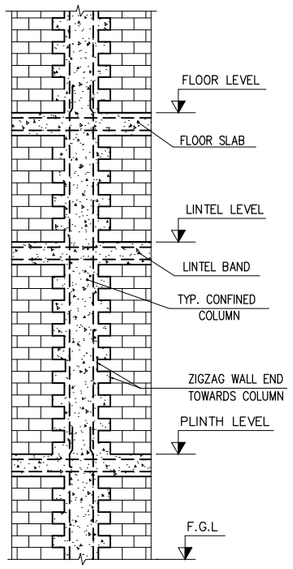
STANDARD BAR HOOKS (MAIN BARS)

BAR DIA	D
ø3	2½"
#4	3"
#5	4"
#6	4"
#8	6"
#9	7"
#11	8½"



STIRRUPS AND TIE HOOKS

BAR DIA	D
ø3	1½"
#4	2"
#5	2½"



TYPICAL ELEVATION OF CONFINED COLUMN
(SHOWING TOOTHING)

SCALE = 1/8" = 1'-0"

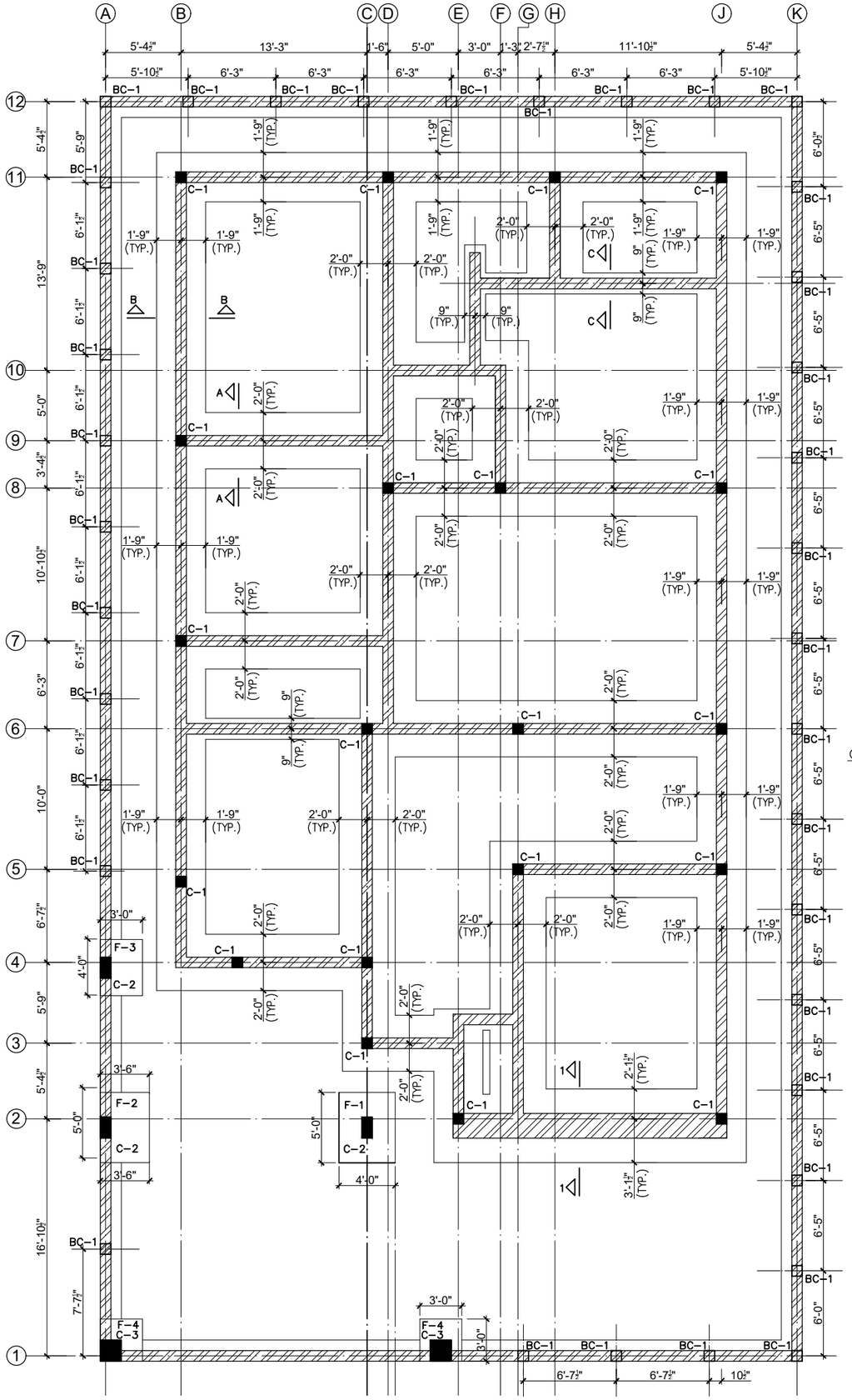
REV. NO.	DATE	DESCRIPTION	BY	CKD.	APPR.

CONSTRUCTION OF HOUSES FOR ICT POLICE

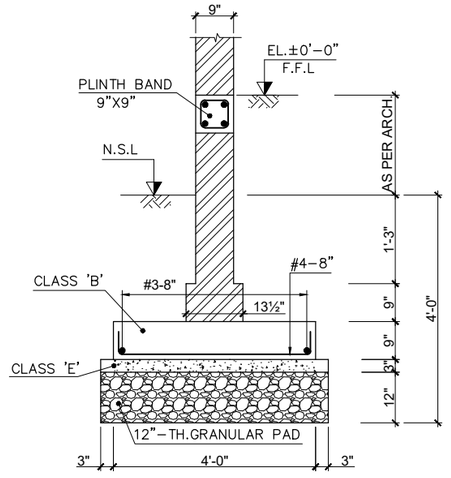
GENERAL NOTES & TYPICAL DETAILS
(SHEET 2 OF 2)

NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. ISLAMABAD

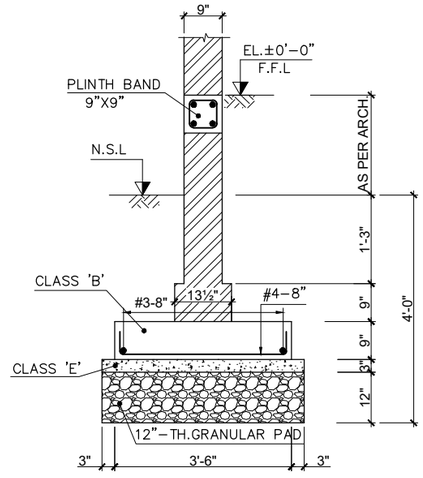
DESN. NESPAK	RECOMMENDED	VER./CKD.	APPROVED
DWN. MUNIR KHATTAK			
FILE	NIDA AFZAL	TALHA AFZAL	AAMIR RASHEED
CKD. NIDA AFZAL	DATE	DRAWING NO.	REV.
SUBM. AAMIR RASHEED	JULY' 2026	156/323/TD/01G02	0



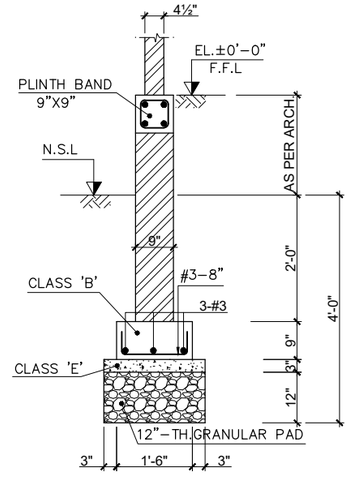
FOUNDATION AND COLUMN LAYOUT PLAN



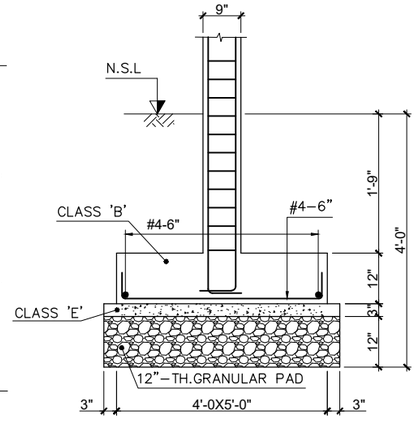
SECTION OF FOOTING A–A



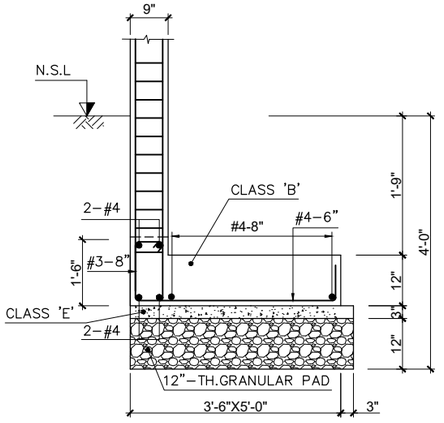
SECTION OF FOOTING B–B



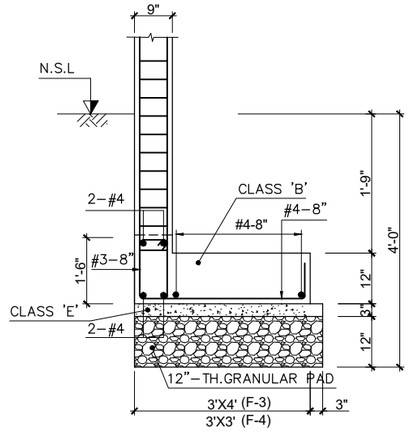
SECTION OF FOOTING C–C
(4½"–TH. WALL FOOTING)



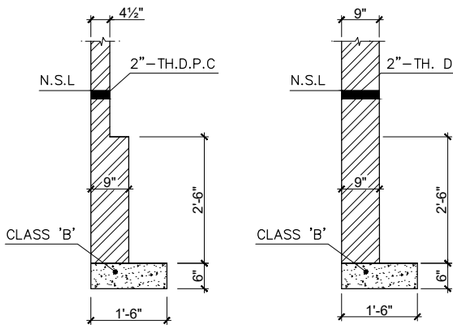
DETAIL OF FOOTING F–1



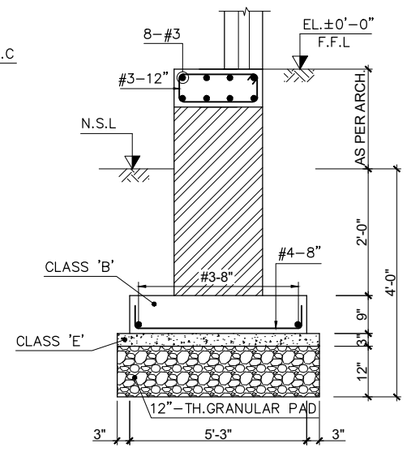
DETAIL OF FOOTING F–2



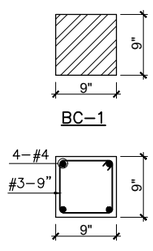
DETAIL OF FOOTING F–3 & F–4



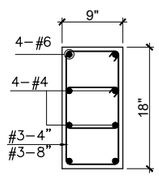
DETAIL OF BOUNDARY WALL



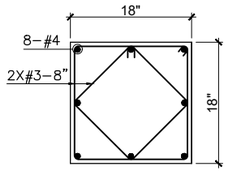
SECTION 1–1



COLUMN C–1



COLUMN C–2



COLUMN C–3

NOTES:–

1–FOR GENERAL NOTES REFER DWG. NO. 156/323/C/01G01 & 02.
2–READ THIS DRAWING IN CONJUNCTION WITH ALL RELEVANT PROJECT DRAWINGS.
3–ALL UNITS ARE IN 'FPS' EXCEPT NOTED OTHERWISE.
4–DESIGN OF FOUNDATION IS BASED ON ALLOWABLE BEARING CAPACITY OF 0.75 TSF.

SCALE = 1/8" = 1'-0"

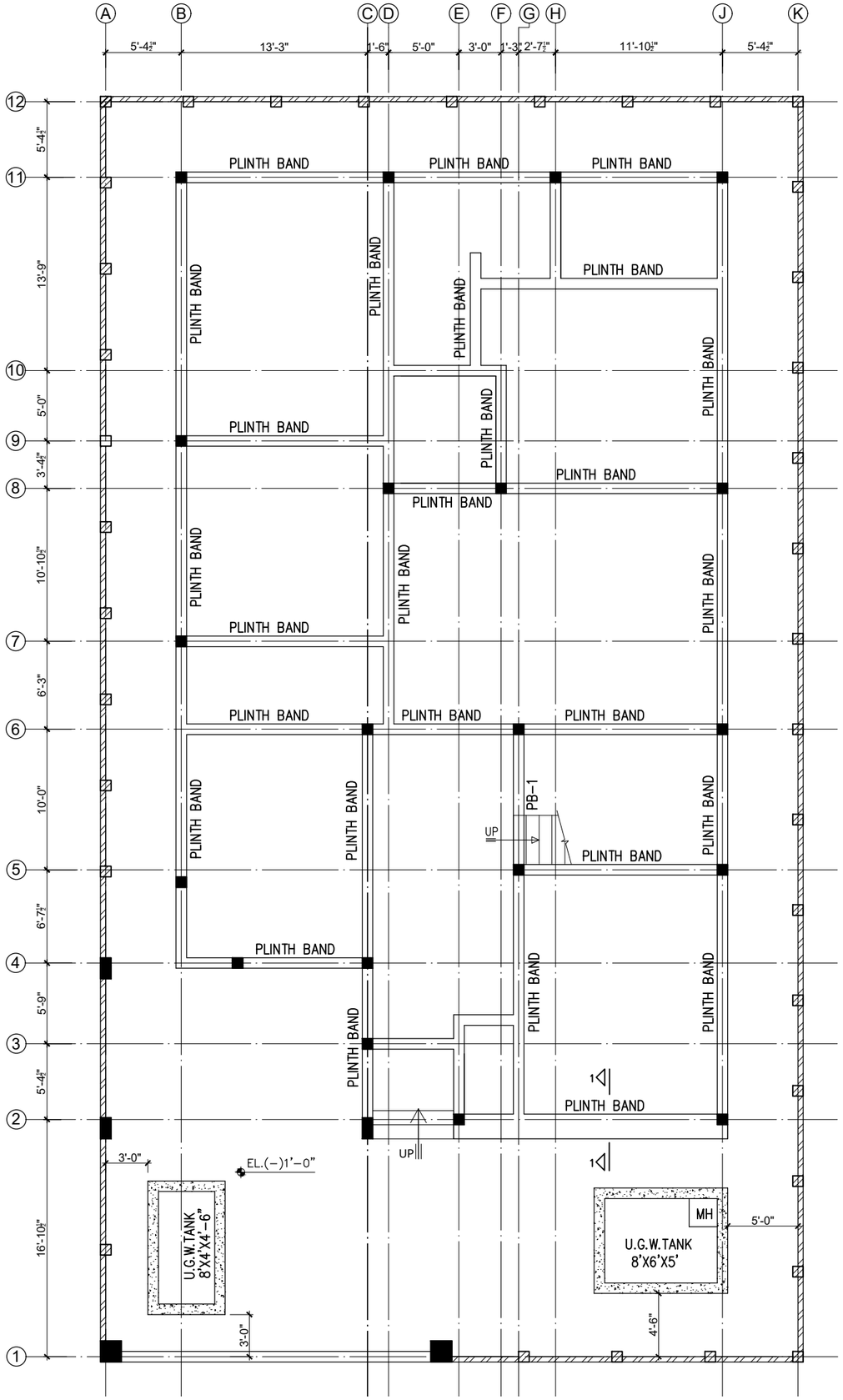
REV. NO.	DATE	DESCRIPTION	BY	CKD.	APPR.

CONSTRUCTION OF HOUSES FOR ICT POLICE

FOUNDATION AND COLUMN LAYOUT PLAN

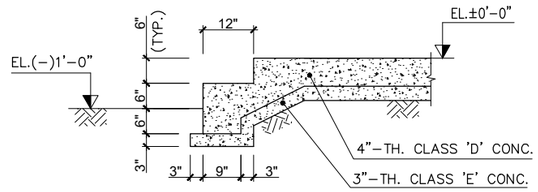
NES PAK — NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. ISLAMABAD

DESN. NESPAK	RECOMMENDED	VER./CKD.	APPROVED
DWN. MUNIR KHATTAK			
FILE	NIDA AFZAL	TALHA AFZAL	AAMIR RASHEED
CKD. NIDA AFZAL	DATE	DRAWING NO.	REV.
SUBM. AAMIR RASHEED	JULY' 2026	156/323/TD/01G03	0

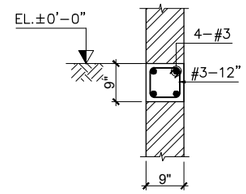


PLINTH BEAM & PLINTH BAND PLAN

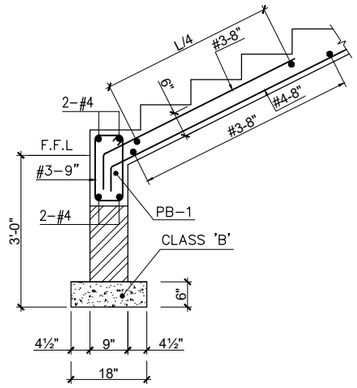
(ALL PLINTH BEAM & PLINTH BAND TOP SHALL BE AT EL.±0'−0" EXCEPT MENTIONED OTHERWISE)



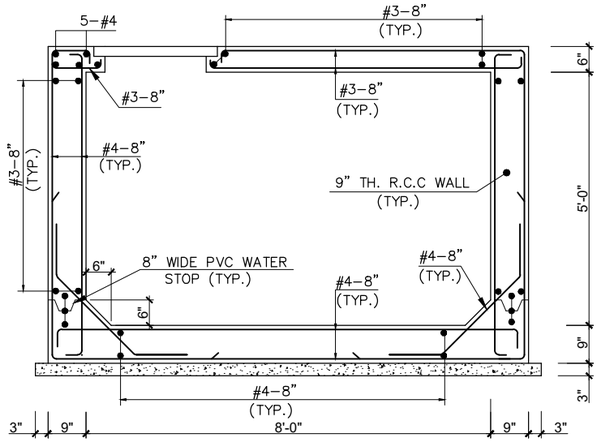
TYP. SECTION OF STEPS



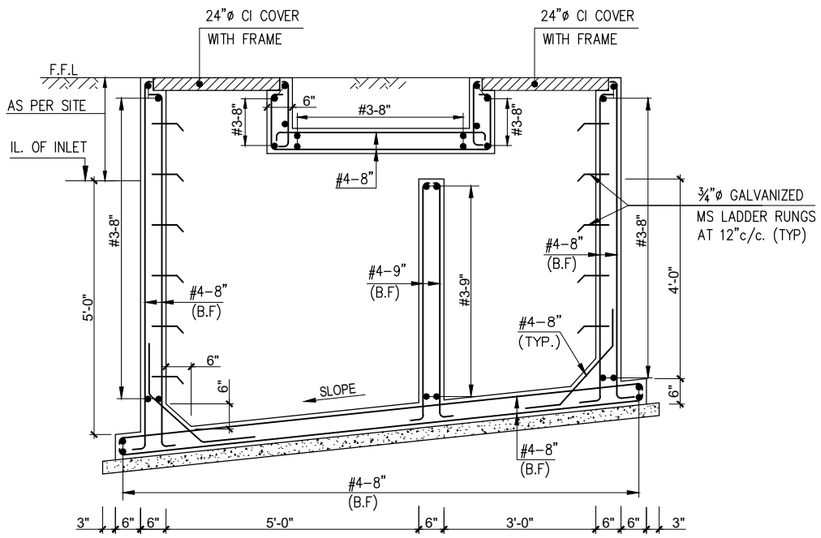
TYP. SEC. OF PLINTH BAND



DETAIL OF STAIR



SECTIONAL DETAIL OF UNDER GROUND WATER TANK



SECTIONAL DETAIL OF SEPTIC TANK

NOTES:−

1−FOR GENERAL NOTES REFER DWG. NO. 156/323/C/01G01 & 02.
2−READ THIS DRAWING IN CONJUNCTION WITH ALL RELEVANT PROJECT DRAWINGS.
3−ALL UNITS ARE IN 'FPS' EXCEPT NOTED OTHERWISE.
4−DESIGN OF FOUNDATION IS BASED ON ALLOWABLE BEARING CAPACITY OF 0.75 TSF.

SCALE = 1/8" = 1'-0"

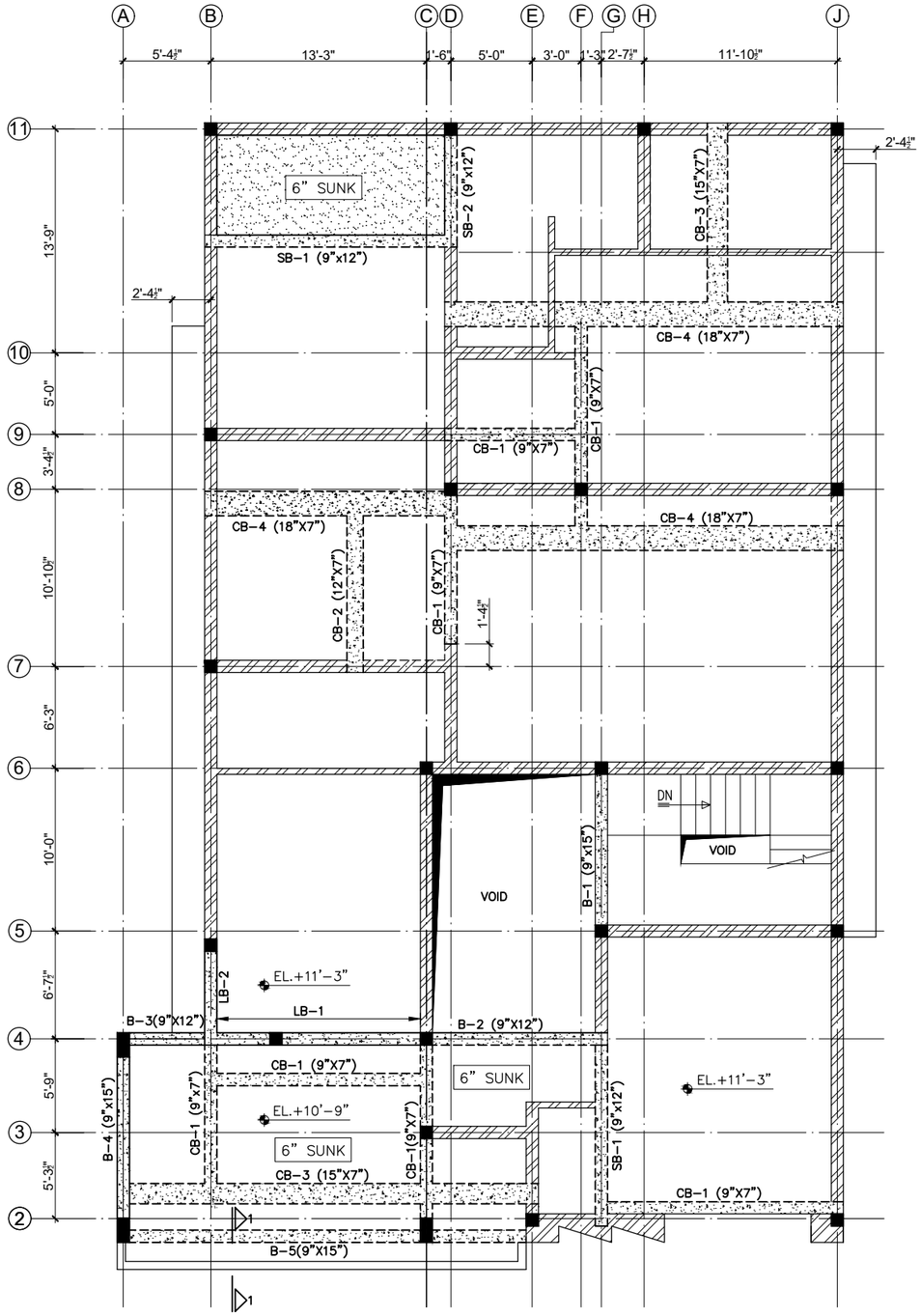
REV. NO.	DATE	DESCRIPTION	BY	CKD.	APPR.

CONSTRUCTION OF HOUSES FOR ICT POLICE

PLINTH BEAM & PLINTH BAND PLAN

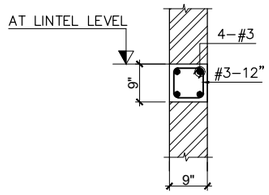
NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. ISLAMABAD

DESN. NESPAK	RECOMMENDED	VER./CKD.	APPROVED
DWN. MUNIR KHATTAK			
FILE	NIDA AFZAL	TALHA AFZAL	AAMIR RASHEED
CKD. NIDA AFZAL	DATE	DRAWING NO.	REV.
SUBM.AAMIR RASHEED	JULY' 2026	156/323/TD/01G04	0

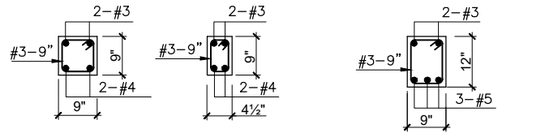


FRAMING PLAN AT EL.+11'-3"

(ALL SLABS ARE 6"-TH. EXCEPT NOTED OTHERWISE)

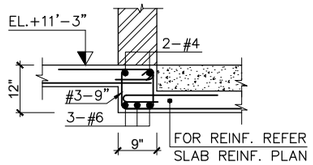


TYP. SECTION DETAIL OF LINTEL BAND

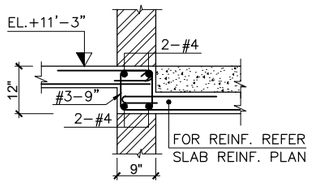


(UP TO 5'-0" CLEAR SPAN) (UP TO 10'-0" CLEAR SPAN)

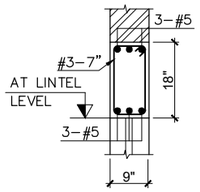
TYPICAL DETAIL OF LINTELS



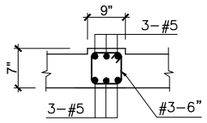
SB-1



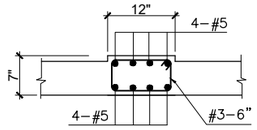
SB-2



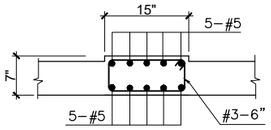
LB-2



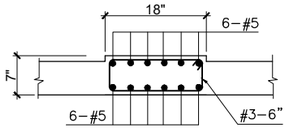
CB-1



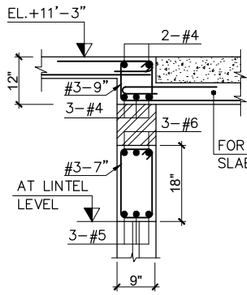
CB-2



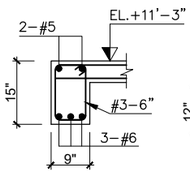
CB-3



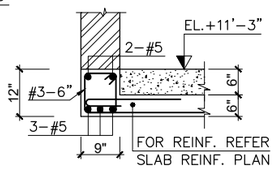
CB-4



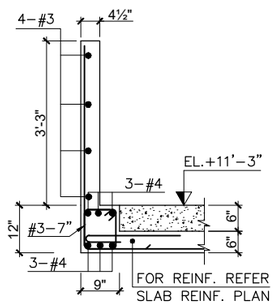
LB-1



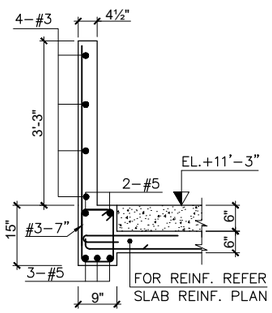
B-1



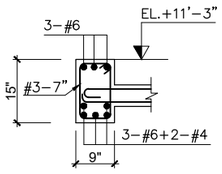
B-2



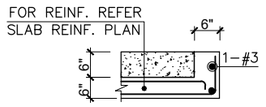
B-3



B-4



B-5



SECTION 1-1

NOTES:-

1. FOR GENERAL NOTES REFER DWG. NO. 156/323/C/01G01 & 02.
2. READ THIS DRAWING IN CONJUNCTION WITH ALL RELEVANT PROJECT DRAWINGS.
3. ALL UNITS ARE IN 'FPS' EXCEPT NOTED OTHERWISE.
4. R.C.C LINTEL SHALL BE PLACED WITH ITS BOTH ENDS EXTENDING 9" IN BRICK MASONRY ON BOTH SIDES IN WALL.
5. TYPICAL LINTEL BANDS SHALL BE REPLACED WITH LINTEL BEAM AT DOOR AND WINDOWS LOCATION.
6. ALL SLABS ARE 6" TH. EXCEPT NOTED OTHERWISE.
7. FOR SLAB TOP & BOTTOM REINFORCEMENT REFER, RESPECTIVE SLAB REINF. PLANS.

SCALE = 1/8" = 1'-0"

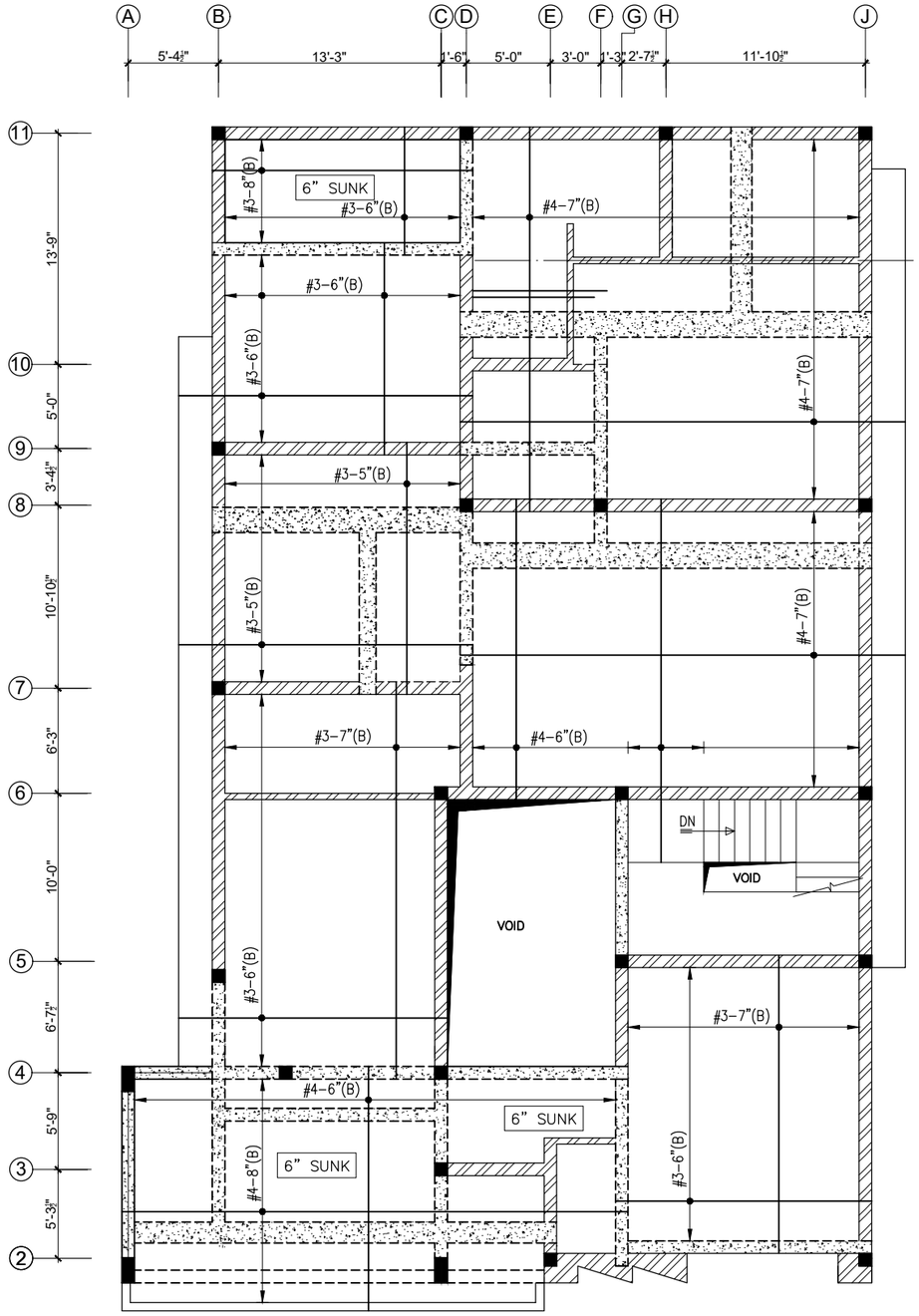
REV. NO.	DATE	DESCRIPTION	BY	CKD.	APPR

CONSTRUCTION OF HOUSES FOR ICT POLICE

FRAMING PLAN AT EL.+11'-3"

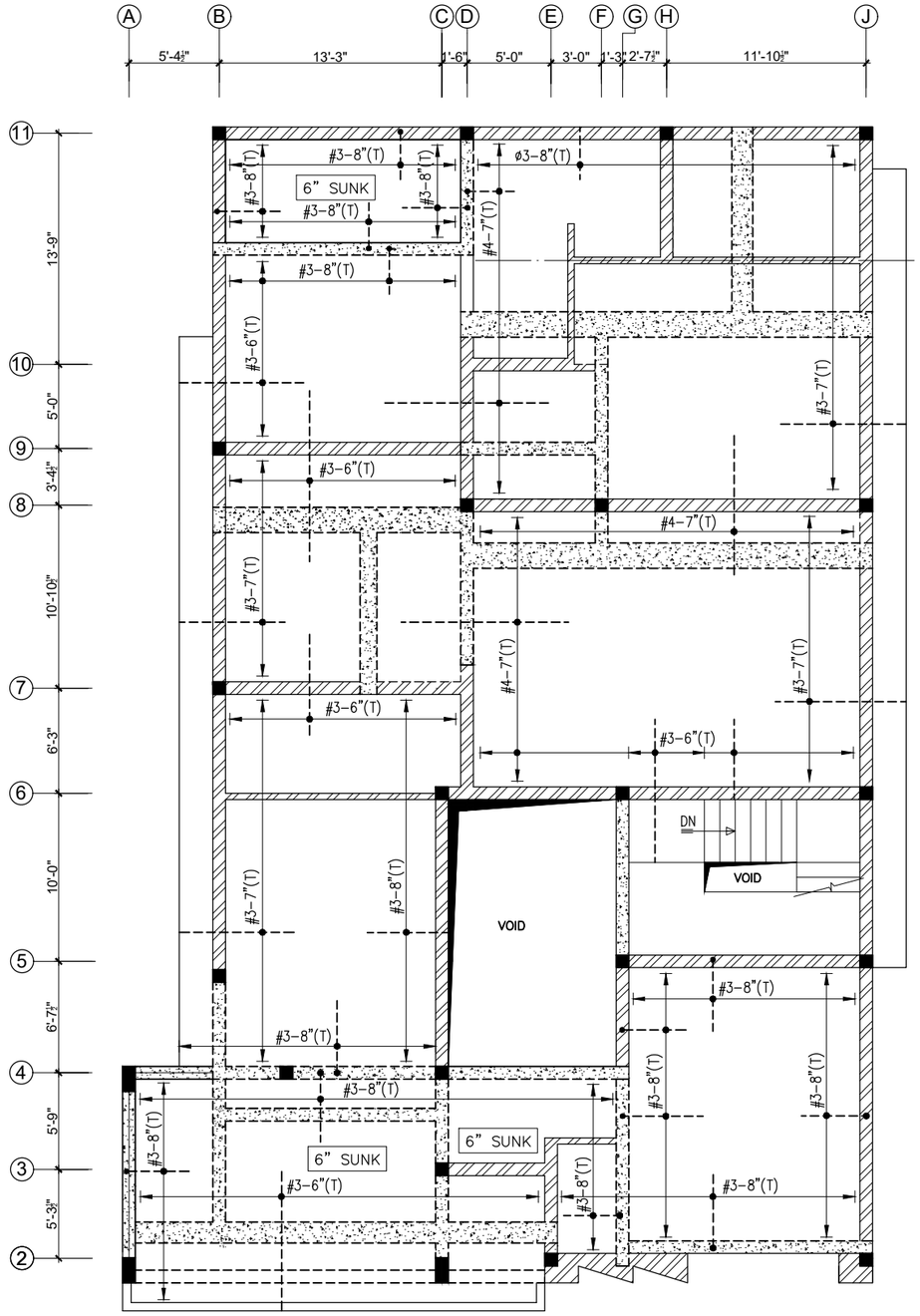
NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. ISLAMABAD

DESN. NESPAK	RECOMMENDED	VER./CKD.	APPROVED
DWN. MUNIR KHATTAK	NIDA AFZAL	TALHA AFZAL	AAMIR RASHEED
FILE			
CKD. NIDA AFZAL	DATE	DRAWING NO.	REV.
SUBM AAMIR RASHEED	JULY' 2026	156/323/TD/01G05	0



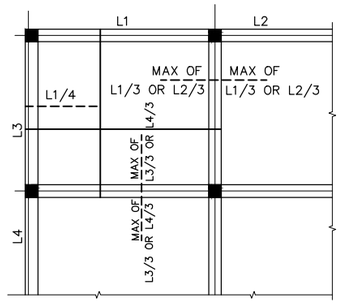
BOTTOM SLAB REINFORCEMENT PLAN AT EL.+11'-3"

(ALL SLABS ARE 6"-TH. EXCEPT NOTED OTHERWISE)



TOP SLAB REINFORCEMENT PLAN AT EL.+11'-3"

(ALL SLABS ARE 6"-TH. EXCEPT NOTED OTHERWISE)



TYP. SLAB REINFORCEMENT PLAN

NOTES: –

1. FOR GENERAL NOTES REFER DWG. NO. 156/323/C/01G01 & 02.
2. READ THIS DRAWING IN CONJUNCTION WITH ALL RELEVANT PROJECT DRAWINGS.
3. ALL UNITS ARE IN 'FPS' EXCEPT NOTED OTHERWISE.
4. R.C.C LINTEL SHALL BE PLACED WITH ITS BOTH ENDS EXTENDING 9" IN BRICK MASONRY ON BOTH SIDES IN WALL.
5. TYPICAL LINTEL BANDS SHALL BE REPLACED WITH LINTEL BEAM AT DOOR AND WINDOWS LOCATION.
6. WALLS THAT ARE NOT SHOWN IN FRAMING PLANS SHALL BE CONSTRUCTED AFTER THE SLAB ABOVE HAS GAINED ITS FULL STRENGTH AND SHUTTERING IS REMOVED.

NOTES FOR SLAB REINF.

1. ALL BINDERS BARS SHALL BE ø3–12" c/c.
2. TOP REINF. AT EACH CONTINUOUS EDGE SHALL BE EXTENDED ON BOTH SIDES UPTO MAX. SPAN/3.
3. TOP REINF. AT EACH DISCONTINUOUS EDGE SHALL BE PROVIDED UPTO SPAN/4.
4. ALL SLABS ARE 6" TH. EXCEPT NOTED OTHERWISE.

SCALE = 1/8" = 1'-0"

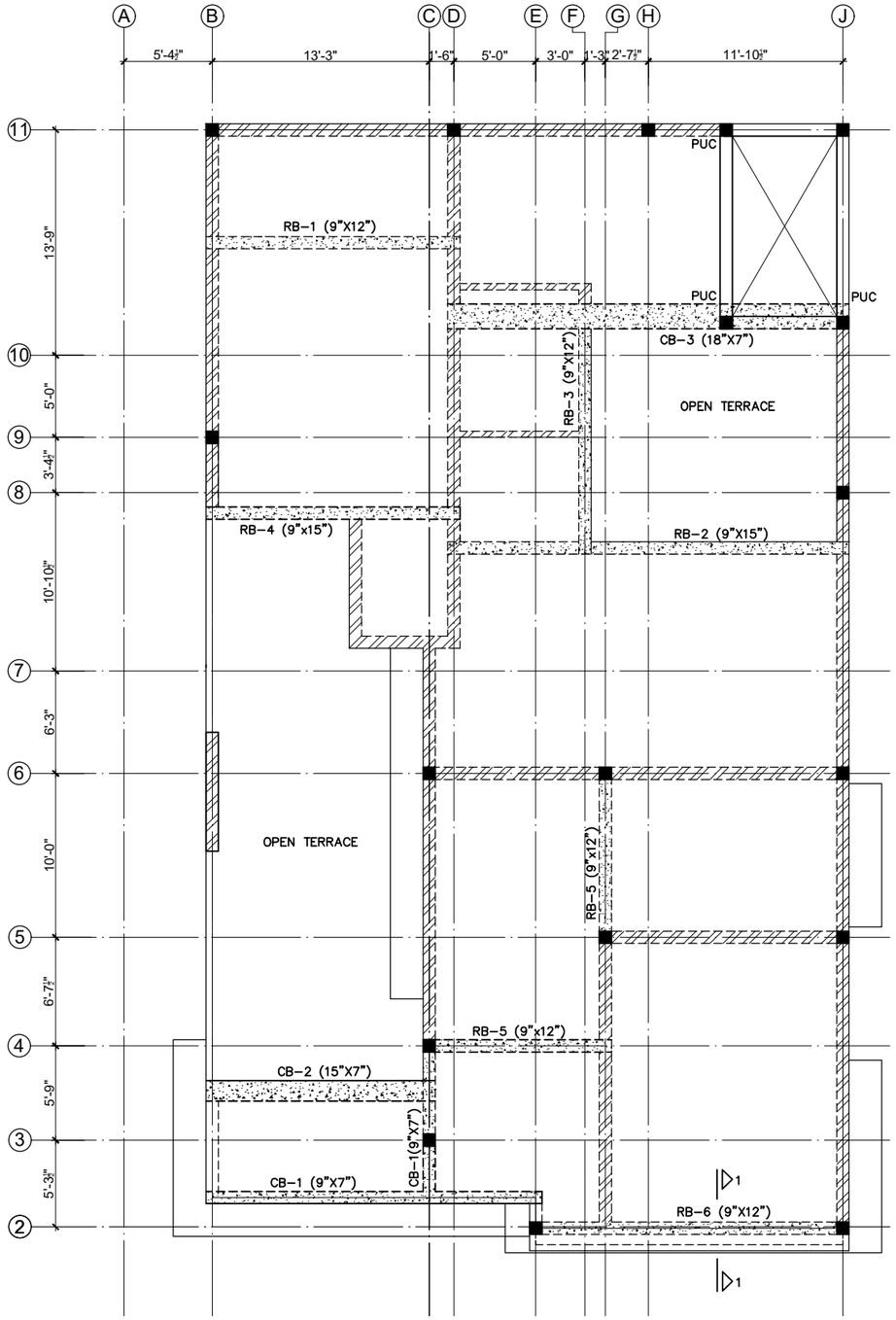
REV. NO.	DATE	DESCRIPTION	BY	CKD.	APPR.

CONSTRUCTION OF HOUSES FOR ICT POLICE

BOTTOM & TOP REINF. PLAN AT EL.+11'-3"

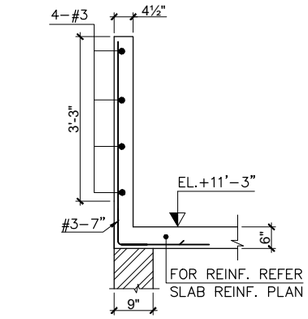
NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. ISLAMABAD

DESN. NESPAK	RECOMMENDED	VER./CKD.	APPROVED
DWN. MUNIR KHATTAK			
FILE	NIDA AFZAL	TALHA AFZAL	AAMIR RASHEED
CKD. NIDA AFZAL	DATE	DRAWING NO.	REV.
SUBM. AAMIR RASHEED	JULY' 2026	156/323/TD/01G06	0



FRAMING PLAN AT EL.+22'-9"

(ALL SLABS ARE 5"-TH. EXCEPT NOTED OTHERWISE)



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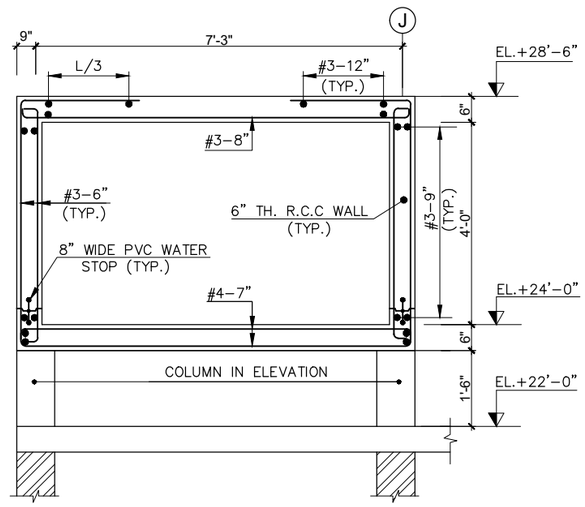

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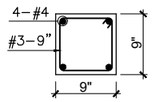

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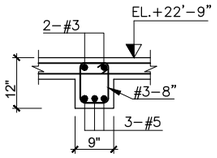

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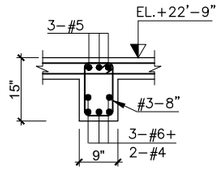

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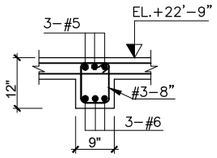

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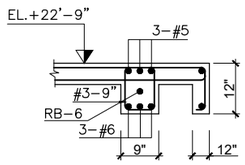
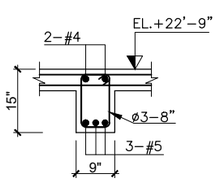


SECTION 1-1



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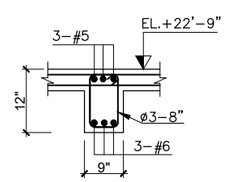

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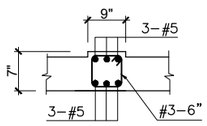
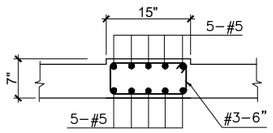
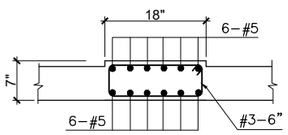


CB-1



CB-2



CB-3

NOTES:-

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5. TYPICAL LINTEL BANDS SHALL BE REPLACED WITH LINTEL BEAM AT DOOR AND WINDOWS LOCATION.
6. ALL SLABS ARE 5" TH. EXCEPT NOTED OTHERWISE.

SCALE = 1/8" = 1'-0"

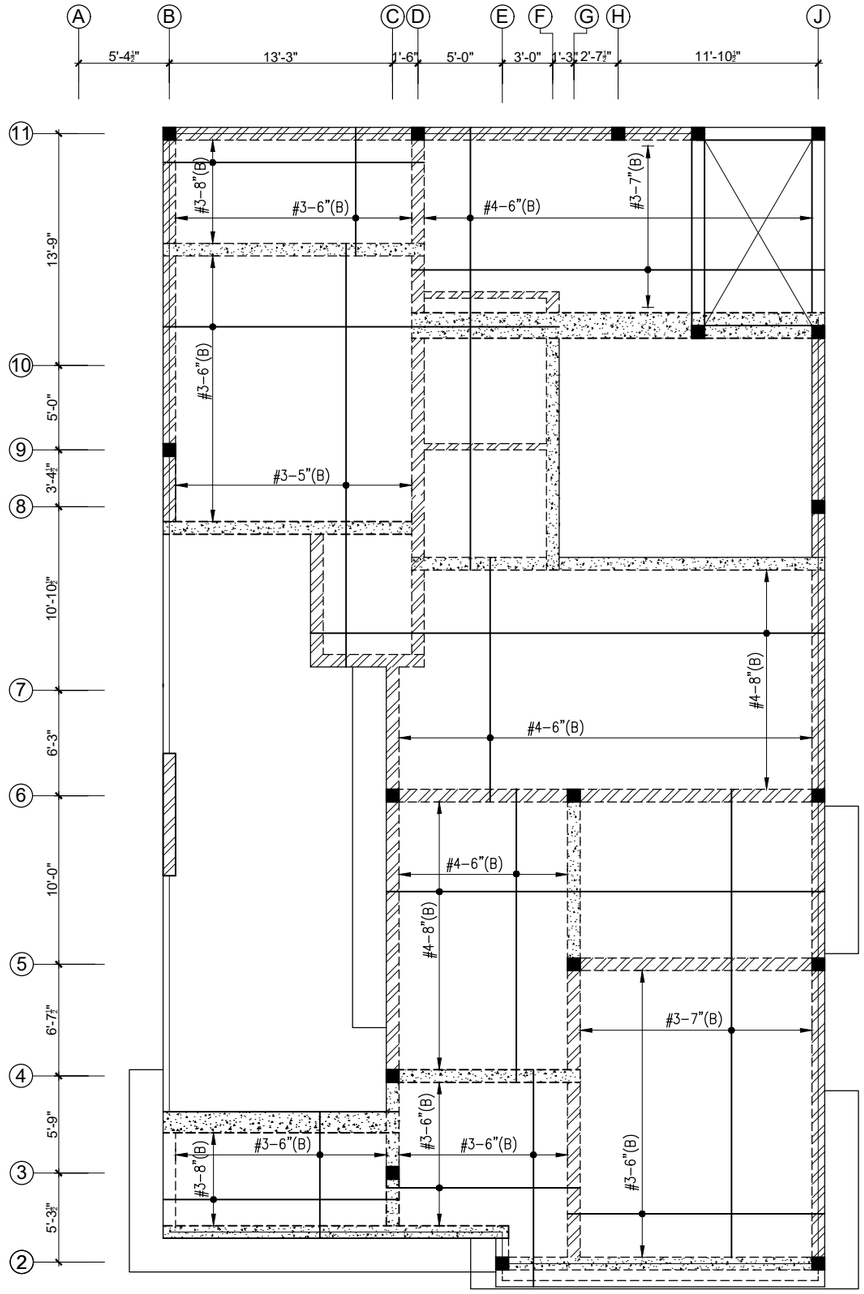
REV. NO.	DATE	DESCRIPTION	BY	CKD.	APPR.

CONSTRUCTION OF HOUSES FOR ICT POLICE

FRAMING PLAN AT EL.+22'-9"

NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. ISLAMABAD

DESN. NESPAK	RECOMMENDED	VER./CKD.	APPROVED
DWN. MUNIR KHATTAK			
FILE	NIDA AFZAL	TALHA AFZAL	AAMIR RASHEED
CKD. NIDA AFZAL	DATE	DRAWING NO.	REV.
SUBM. AAMIR RASHEED	JULY' 2026	156/323/TD/01G07	0



FRAMING PLAN AT EL.+22'-9"

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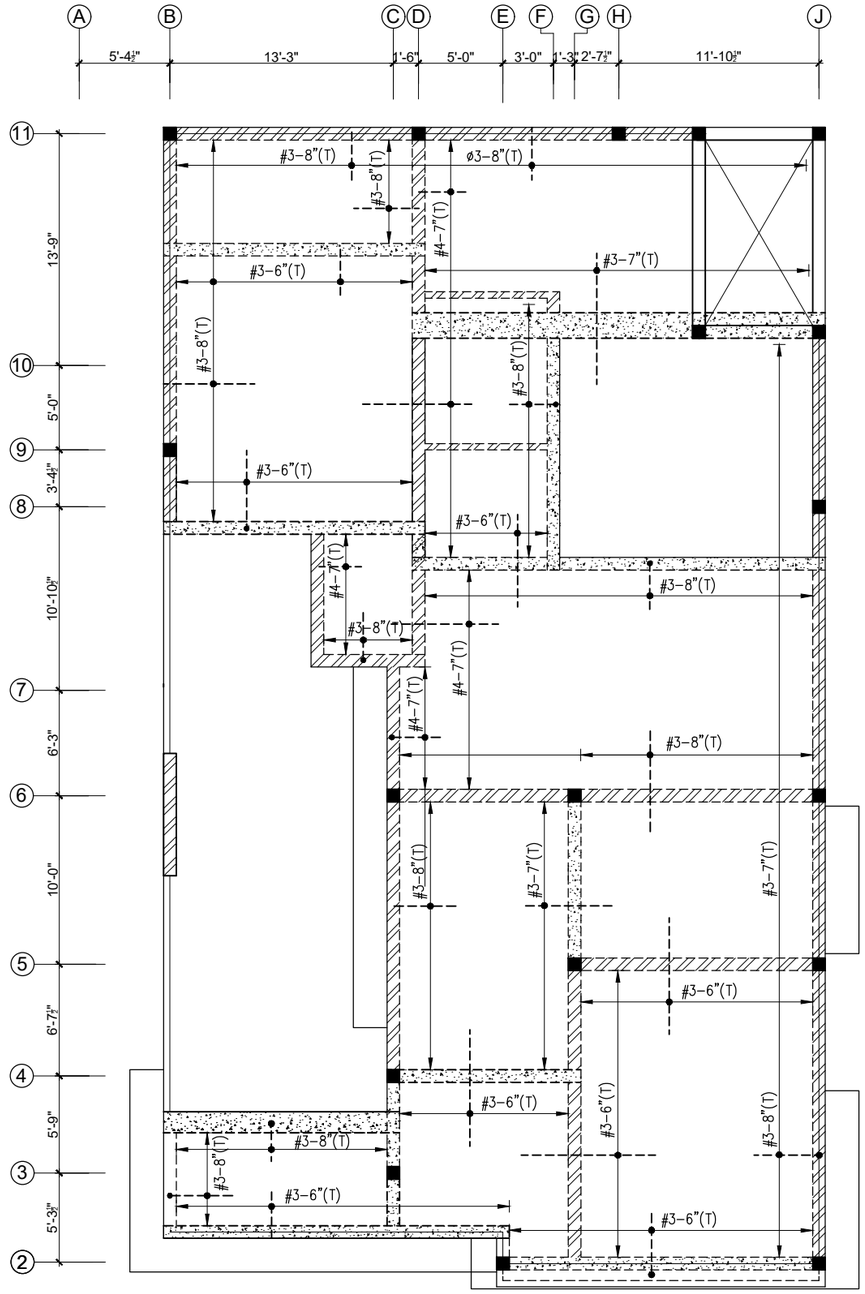
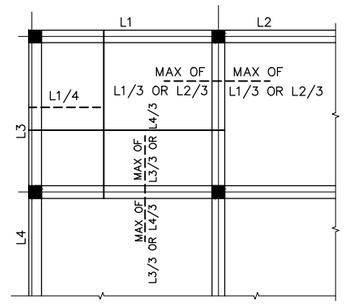


FRAMING PLAN AT EL.+22'-9"

(ALL SLABS ARE 5"-TH. EXCEPT NOTED OTHERWISE)



TYP. SLAB REINFORCEMENT PLAN

NOTES: –

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NOTES FOR SLAB REINF.

1. ALL BINDERS BARS SHALL BE ø3–12" c/c.
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3. TOP REINF. AT EACH DISCONTINUOUS EDGE SHALL BE PROVIDED UPTO SPAN/4.
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SCALE = 1/8" = 1'-0"

REV. NO.	DATE	DESCRIPTION	BY	CKD.	APPR.

CONSTRUCTION OF HOUSES FOR ICT POLICE

BOTTOM & TOP REINF. PLAN AT EL.+22'-9"

NES PAK NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. ISLAMABAD

DESN. NESPAK	RECOMMENDED	VER./CKD.	APPROVED
DWN. MUNIR KHATTAK			
FILE	NIDA AFZAL	TALHA AFZAL	AAMIR RASHEED
CKD. NIDA AFZAL	DATE	DRAWING NO.	REV.
SUBM. AAMIR RASHEED	JULY' 2026	156/323/TD/01G08	0

SYMBOLS AND DESCRIPTIONS GENERAL NOTES

ELECTRICAL WORKS

S. #	SYMBOL	DESCRIPTION
1		MSB -- MAIN SWITCH BOARD
2		LDB -- LIGHTING DISTRIBUTION BOARD
3		INSTRUMENTS PROTECTION FUSES (THREE NOS.)
4		PDB -- POWER DISTRIBUTION BOARD
5		TRIPLE POLE, 500 VOLTS, MOULDED CASE CIRCUIT BREAKER (RUPTURING CAPACITY INDICATED ON THE DRAWINGS & MENTIONED IN THE RELEVANT BOQ ITEM)
6		TRIPLE POLE, 500 VOLTS, MINIATURE CIRCUIT BREAKER (RUPTURING CAPACITY INDICATED ON THE DRAWINGS & MENTIONED IN THE RELEVANT BOQ ITEM)
7		SINGLE POLE, 250 VOLTS, MINIATURE CIRCUIT BREAKER (RUPTURING CAPACITY INDICATED ON THE DRAWINGS & MENTIONED IN THE RELEVANT BOQ ITEM)
8		THREE NOS. SINGLE PHASE CURRENT TRANSFORMERS (TRANSFORMATION RATIOS INDICATED ON DRAWINGS)
9		PHASE INDICATION LAMPS R – RED Y – YELLOW B – BLUE
10		CEILING FAN 56 INCH
11	10"	EXHAUST FAN WITH METALLIC BLADES (10" DIA)
12		WALL BRACKET FAN
13	VSS	VSS – VOLTMETER SELECTOR SWITCH (RY–YB–BR–OFF–RN)
14	ASS	ASS – AMMETER SELECTOR SWITCH (R–Y–B–OFF)
15	A	AC AMMETER (MEASURING RANGE INDICATED ON DRAWING) (DIGITAL)
16	V	AC VOLTMETER (MEASURING RANGE INDICATED ON DRAWING) (DIGITAL)
17	12"	EXHAUST FAN WITH METALIC BLADES & MOUNTING RING (12" DIA)
18		CCTV CAMERA POINT
19		LIGHT CONTROL SWITCHES AND FAN DIMMERS
20		13 AMPS 250 VOLTS COMBINED 2 + 3 PIN SWITCH SOCKET UNIT
21		15 AMPS 250 VOLTS COMBINED 3 PIN SWITCH SOCKET UNIT
22		20 AMPS FLEX OUTLET 250 VOLTS FOR AC
23		

LIGHTING FIXTURES

S. #	SYMBOL	DESCRIPTION
1		SURFACE MOUNTED 20W LED BATTEN, 2 FEET
2		BULKHEAD OUTDOOR LIGHT 12W
3		SURFACE/ CEILING MOUNTED LED DOWNLIGHT 7W
4		10W SURFACE/ RECESSED MOUNTED LED DOWN LIGHT
5		CEILING MOUNTED LED DOWNLIGHT 15W
6		SURFACE MOUNTED LIGHT FIXTURE WITH 3800 LUMENS
7		PLANTER LIGHT
8		

COMMUNICATIONS SYSTEMS

S. #	SYMBOL	DESCRIPTION
1		RJ 45 OUTLET FOR VOICE (DIRECT LINE)
2		RJ 45 OUTLET FOR VOICE (EXT LINE)
3		TV POINT
4	SD	SMOKE DETECTOR
5	HD	HEAT DETECTOR
6	M	MANUAL CALL POINT WITH SOUNDER
7		FACP
8		RJ 45 SOCKET OUTLET (FOR NETWORKING)

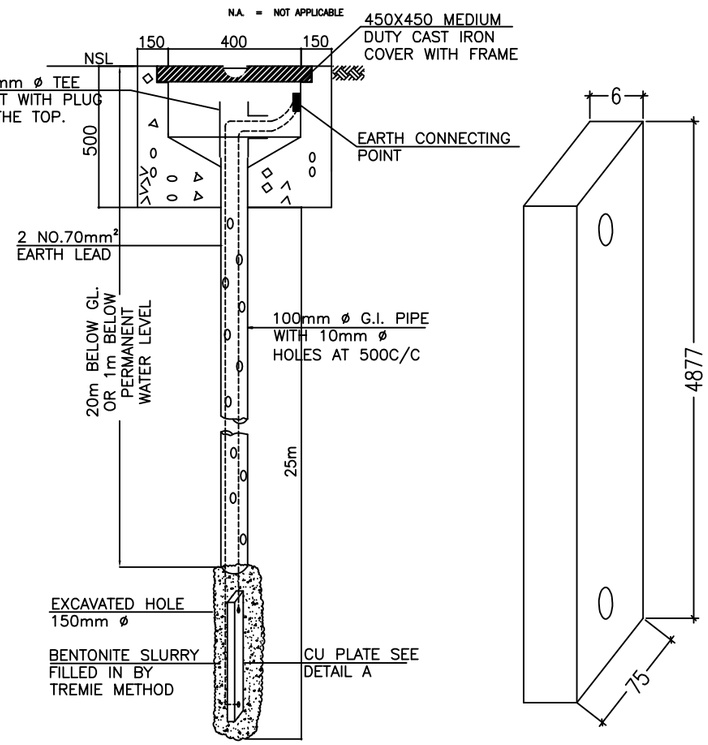


PLATE TYPE EARTH ELECTRODE

ELECTRICAL SYSTEMS

1. FOLLOWING NOTES SHALL IN GENERAL APPLY TO ALL ELECTRICAL DRAWINGS. THE INSTRUCTIONS IN THESE NOTES SHALL BE FOLLOWED UNLESS STATED OTHERWISE.
2. THESE NOTES SHALL BE APPLICABLE TO THE ENTIRE ELECTRICAL WORKS. IF THE SITE CONDITIONS NECESSITATE ANY ALTERATIONS OR DEVIATIONS THE DIRECTIONS OF THE ENGINEER SHALL BE OBSERVED AS FINAL INSTRUCTIONS.
3. ALL ELECTRICAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH BOQ, TECHNICAL SPECIFICATIONS, ARCHITECTURAL, STRUCTURAL, PLUMBING AND HVAC DRAWINGS & ALL OTHER RELEVANT DETAILS.
4. DIMENSIONS/MEASUREMENTS GIVEN IN LAYOUT AND DETAILED DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALCULATE THE ACTUAL DIMENSIONS/ MEASUREMENTS ACCORDING TO STRUCTURAL AND ARCHITECTURAL DRAWINGS.
5. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS WITH ALL RELEVANT DETAILS TO THE ENGINEER FOR APPROVAL ACCORDING TO THE GENERAL CONDITIONS OF CONTRACT WELL IN TIME BEFORE COMMENCEMENT OF THAT WORK.
6. PROPER CO-ORDINATION OF ELECTRICAL WORKS WITH OTHER SERVICES SHALL BE CARRIED OUT AT SITE.
7. ALL NON-CURRENT CARRYING PARTS i.e. OUTER CASINGS OF EQUIPMENT SUCH AS HT & LT PANELS, DISTRIBUTIONS BOARDS, CABLE TRAYS, AUXILIARY CONSTRUCTIONS FOR EQUIPMENT ETC. SHALL BE CONNECTED TO THE GROUNDING/EARTHING SYSTEM AT REQUIRED NUMBER OF POINTS WITH SPECIFIED SIZES OF CONDUCTORS. WATER PIPES ALONG ELECTRICAL LINE SHALL BE BONDED TO THE EARTHING SYSTEM WITH 10mm² SINGLE CORE, COPPER CONDUCTOR PVC CABLE.
8. ELECTRICAL POINTS FOR EQUIPMENT SHALL BE INSTALLED IN CO-ORDINATION WITH THE RELEVANT DRAWINGS OF OTHER SERVICES, SUCH AS COMMUNICATION SYSTEMS, HVAC, PLUMBING ETC. THE LOCATION ON ELECTRICAL DRAWINGS IS ONLY INDICATIVE.
9. ARRANGEMENT OF ELECTRICAL EQUIPMENTS ON ELECTRICAL DRAWINGS ARE TENTATIVE. EXACT ARRANGEMENT OF EQUIPMENTS SHALL BE MADE IN VIEW OF ITS PHYSICAL DIMENSIONS AND EASE OF MAINTENANCE.
10. LOADS ON ALL PHASES SHALL BE BALANCED AT THE TESTING/ COMMISSIONING STAGE.
11. CONDUIT/DUCT RUN UNDER FLOOR SHALL HAVE A MINIMUM COVER OF TWO INCHES FROM TOP OF CONDUIT/DUCT TO FINISH FLOOR LEVEL.
12. RUN GREEN–YELLOW OR GREEN SINGLE CORE PVC INSULATED COPPER CONDUCTOR CABLE OF SPECIFIED SIZES AS PROTECTIVE EARTH CONDUCTOR (ECC) ALL ALONG LIGHT AND POWER WIRING. WHEREVER THE SIZE IS NOT SPECIFIED THE FOLLOWING CRITERIA SHALL BE OBSERVED TO DETERMINE MINIMUM CROSS SECTIONAL AREA OF EARTH CONTINUITY CONDUCTOR(ECC) IN RELATION TO THE AREA OF ITS PHASE CONDUCTORS. RUN SEPARATE ECC FOR EACH CIRCUIT.
   – ECC & PHASE CONDUCTOR OF SAME SIZE FOR UPTO AND INCLUDING 16mm² CABLES.
   – 16mm² ECC FOR PHASE CONDUCTOR OF 16mm², 25mm² & 35 mm² CABLES.
   – FOR CABLES OF 50mm² AND ABOVE SIZES, ECC IS HALF SIZE OF PHASE CONDUCTOR.
   – MAXIMUM SIZE OF ECC IS 70mm².
13. THE MAXIMUM CAPACITY OF PVC CONDUITS FOR SIMULTANEOUS DRAWING OF PVC INSULATED CABLES SHALL BE DETERMINED AS PER BS 4607. THE FOLLOWING TABLE SHALL BE USED TO DETERMINE THE MAXIMUM NUMBER OF CABLES.

S. #	NOMINAL CONDUCTOR SIZE(SQMM)	NO. & DIA OF WIRES	NOMINAL OVERALL DIA	20 MM DIA (3/4" DIA)	25 MM DIA (1" DIA)	32 MM DIA (1¼ " DIA)
1	1.5	1/1.38	3.1	10	18	30
2	2.5	1/1.78	3.5	8	14	23
3	2.5	7/0.67	3.8	7	12	20
4	4	7/0.85	4.3	5	9	15
5	6	7/1.04	4.9	4	7	12
6	10	7/1.35	6.2	2	4	7
7	16	7/1.70	7.3	–	3	5
8	25	7/2.14	9.0	–	2	3
9	35	19/1.53	10.3	–	–	2

14. NORMAL & EMERGENCY CIRCUITS SHALL RUN IN SEPARATE CONDUITS.
15. ALL WIRING FOR CONTROLS SHALL BE CARRIED OUT WITH 1 CORE PVC CABLES OF SPECIFIED VOLTAGE GRADE AND SIZES.
16. THE WIRING SHALL BE CONTINUOUS LOOPING–IN TYPE AND NO JOINT IN WIRES SHALL BE ALLOWED.
17. THE WIRING SYSTEM SHALL BE CARRIED OUT ONLY AFTER THE CONDUIT SYSTEM IS COMPLETELY INSTALLED AND ALL OUTLET BOXES, ETC. ARE FIXED IN POSITION.
18. MOUNTING HEIGHTS OF ELECTRICAL FITTINGS WHEN MEASURED FROM FINISHED FLOOR LEVEL(F.F.L.) TO THE BOTTOM OF FITTINGS SHALL BE AS UNDER, UNLESS OTHERWISE SHOWN OR INSTRUCTED.

MAIN SWITCH BOARD	48 INCHES
DISTRIBUTION BOARD	48 INCHES
CONTROL PANEL	48 INCHES
ON/OFF PUSH BUTTON STATION	48 INCHES
DIMMER CONTROL UNIT	48 INCHES
LIGHT CONTROL SWITCH(ONE WAY/TWO WAY)	48 INCHES
5A SOCKET OUTLETS IN GENERAL AREAS	10 INCHES
15A SOCKET OUTLETS IN GENERAL AREAS	10 INCHES
20A SOCKET OUTLETS IN GENERAL AREAS	10 INCHES
20A SOCKET FOR A/C OUTLET	66 INCHES
15A SOCKET OUTLETS IN KITCHEN(ABOVE COUNTER)	10 INCHES
15A SOCKET OUTLETS IN TOILETS	48 INCHES
16A TP 5PIN INDUSTRIAL SOCKET OUTLETS IN LABS.	48INCHES
32A TP 5PIN INDUSTRIAL SOCKET OUTLETS IN LABS.	48 INCHES
63A TP 5PIN INDUSTRIAL SOCKET OUTLETS IN LABS.	48 INCHES
CEILING FAN	96 INCHES
WALL FAN	84 INCHES
EXHAUST FAN	REFER ARCH. DRGS.

COMMUNICATION SYSTEMS

1. FOLLOWING NOTES SHALL IN GENERAL APPLY TO ALL COMMUNICATION SYSTEMS DRAWINGS. THE INSTRUCTIONS IN THESE NOTES SHALL BE FOLLOWED UNLESS STATED OTHERWISE.
2. THESE NOTES SHALL BE APPLICABLE TO THE ENTIRE COMMUNICATION SYSTEMS WORKS. IF THE SITE CONDITIONS NECESSITATE ANY ALTERATIONS OR DEVIATIONS THE DIRECTIONS OF THE ENGINEER SHALL BE OBSERVED AS FINAL INSTRUCTIONS.
3. ALL COMMUNICATION SYSTEMS DRAWINGS SHALL BE READ IN CONJUNCTION WITH TECHNICAL SPECIFICATIONS, ITEMS OF B.O.Q., ARCHITECTURAL, STRUCTURAL, HVAC, PLUMBING DRAWINGS AND ALL OTHER RELEVANT DETAILS.
4. DIMENSIONS/MEASUREMENTS GIVEN IN LAYOUT AND DETAILED DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALCULATE THE ACTUAL DIMENSIONS/MEASUREMENTS ACCORDING TO STRUCTURAL AND ARCHITECTURAL DRAWINGS.
5. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS WITH ALL RELEVANT DETAILS TO THE ENGINEER FOR APPROVAL ACCORDING TO THE GENERAL CONDITIONS OF CONTRACT WELL IN TIME BEFORE COMMENCEMENT OF THAT WORK.
6. PROPER CO–ORDINATION OF COMMUNICATION SYSTEMS WORKS WITH OTHER SERVICES SHALL BE CARRIED OUT AT SITE.
7. TELEPHONE SYSTEM SHALL BE COMPLETE WITH INSTRUMENTS, EQUIPMENT AND INTERCONNECTING WIRING, TELEPHONE EXCHANGE, TELEPHONE OUTLETS, JUNCTION BOXES, CONDUITS OF SPECIFIED SIZES IN THE BUILDING, AND UNDERGROUND PIPES OF SPECIFIED SIZES SHOWN ON DRAWINGS SHALL BE PROVIDED. WHERE SIZE OF CONDUIT/PIPE IS NOT SPECIFIED SUITABLE SIZE SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER.
8. POINTS FOR COMMUNICATION SYSTEMS EQUIPMENT SHALL BE INSTALLED IN CO–ORDINATION WITH THE RELEVANT DRAWINGS OF OTHER SERVICES, SUCH AS ELECTRICAL, HVAC, PLUMBING ETC. THE LOCATION ON COMMUNICATION SYSTEMS DRAWINGS IS ONLY INDICATIVE.
9. ARRANGEMENT OF COMMUNICATION SYSTEMS EQUIPMENTS ON DRAWINGS ARE TENTATIVE EXACT ARRANGEMENT OF EQUIPMENTS SHALL BE MADE IN VIEW OF ITS PHYSICAL DIMENSIONS AND EASE OF MAINTENANCE.
10. CONDUIT/DUCT RUN UNDER FLOOR SHALL HAVE A MINIMUM COVER 2 INCHES FROM TOP OF CONDUIT/DUCT TO FINISH FLOOR LEVEL.
11. RUN GREEN–YELLOW OR GREEN SINGLE CORE PVC INSULATED COPPER CONDUCTOR CABLE OF SPECIFIED SIZES AS PROTECTIVE EARTH CONDUCTOR (ECC) ALL ALONG COMMUNICATION SYSTEMS WIRING.
12. ALL WIRING FOR CONTROLS SHALL BE CARRIED OUT WITH 1 CORE PVC CABLES OF SPECIFIED VOLTAGE GRADE AND SIZES.
13. THE WIRING SHALL BE CONTINUOUS LOOPING–IN TYPE AND NO JOINT IN WIRES SHALL BE ALLOWED.
14. THE WIRING SYSTEM SHALL BE CARRIED OUT ONLY AFTER THE CONDUIT SYSTEM IS COMPLETELY INSTALLED AND ALL OUTLET BOXES, ETC. ARE FIXED IN POSITION.
15. MOUNTING HEIGHTS OF ELECTRICAL FITTINGS WHEN MEASURED FROM FINISHED FLOOR LEVEL (F.F.L.) TO THE BOTTOM OF FITTINGS SHALL BE AS UNDER, UNLESS OTHERWISE SHOWN OR INSTRUCTED.

TELEPHONE JUNCTION BOX	10 INCHES
TELEPHONE OUTLET	10 INCHES
INTERCOM CONTROL PACK	10 INCHES
INTERCOM STATION (WALL MOUNTED)	36 INCHES
FA SYSTEM CONTROL PANEL	10 INCHES
MANUAL CALL STATION	42 INCHES
AUDIO ALARM	100 INCHES

SCALE = 1/8" = 1'-0"

REV. NO.	DATE	DESCRIPTION	BY	CKD.	APPR.

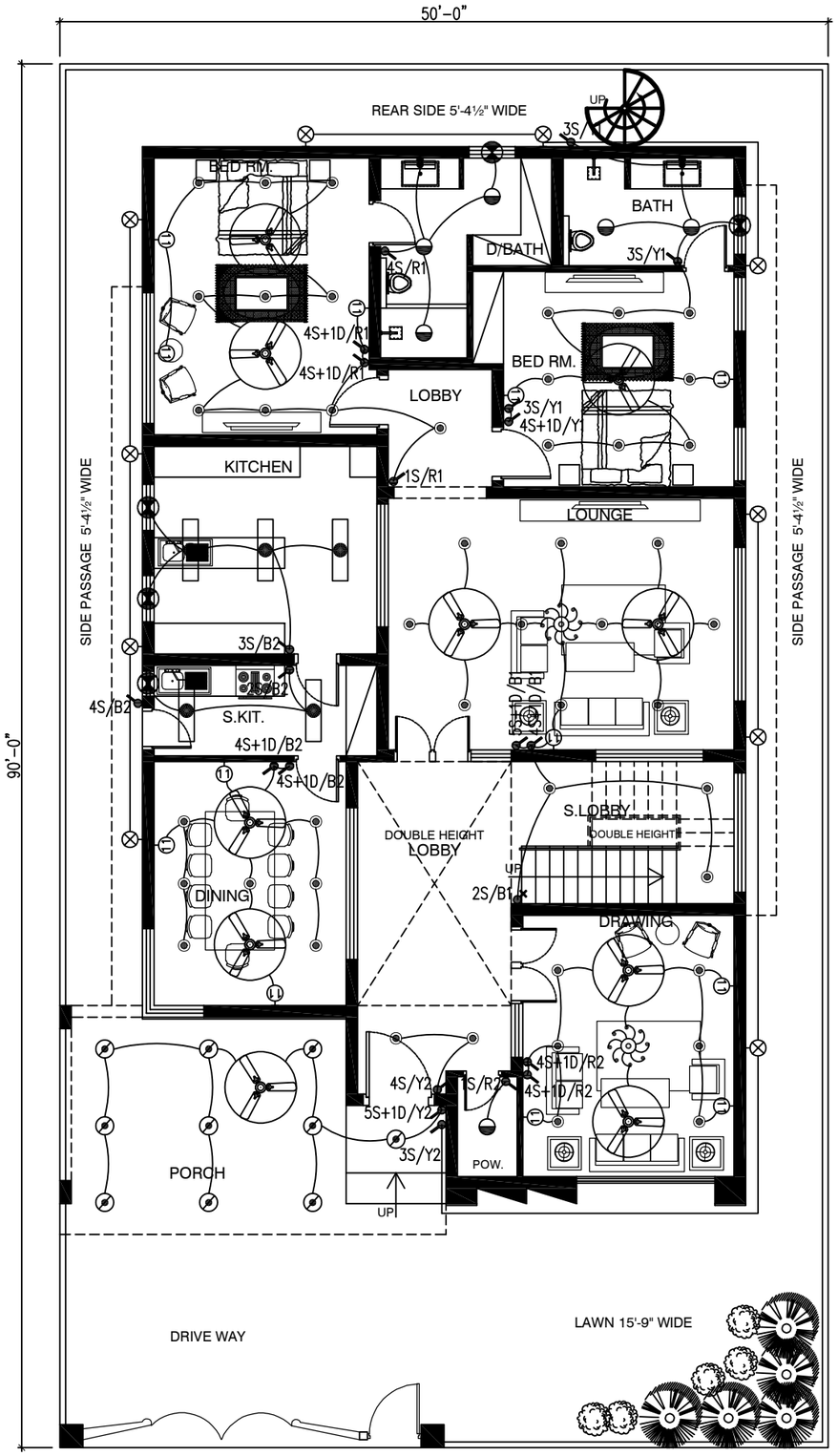
CONSTRUCTION OF HOUSES FOR ICT POLICE

LEGEND & GENERAL NOTES

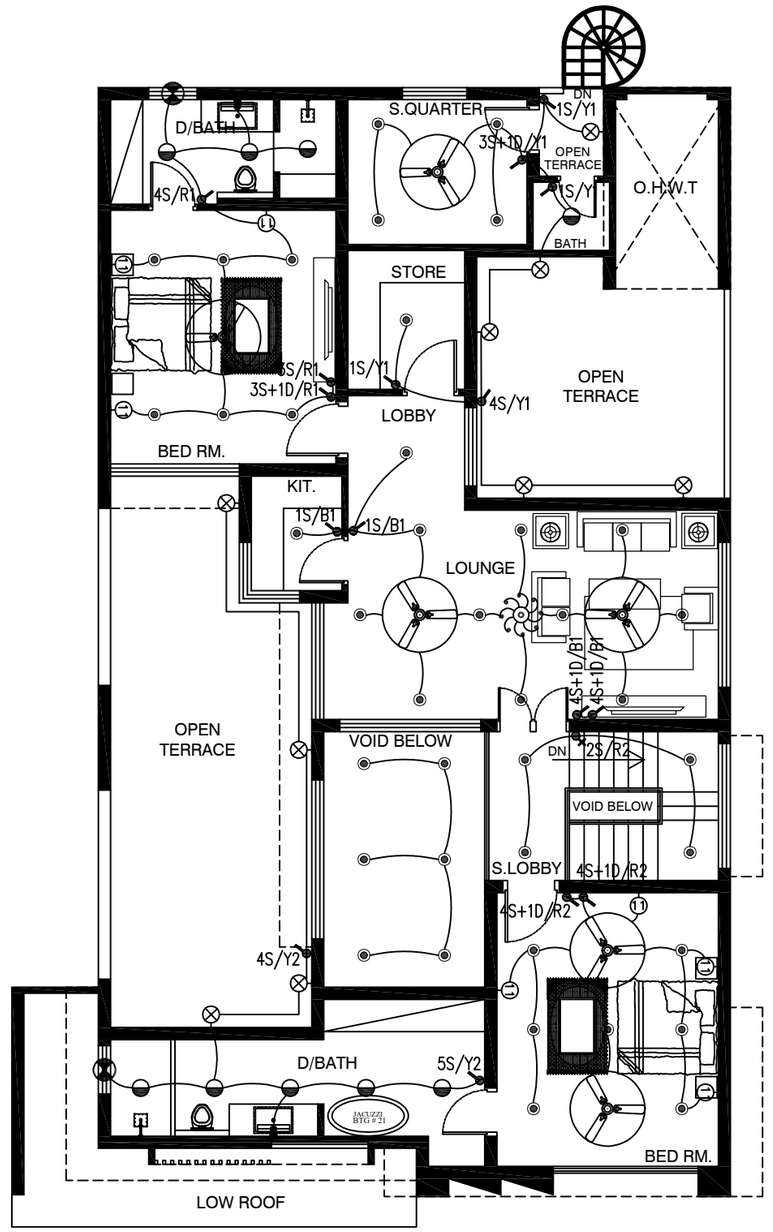
NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. ISLAMABAD

DESN. NESPAK	RECOMMENDED	VER./CKD.	APPROVED
DWN.			
FILE			
CKD.			
SUBM.			

DATE	DRAWING NO.	REV.
JULY' 2026	156/325/BD/01E01	0



GROUND FLOOR PLAN



FIRST FLOOR PLAN

NOTES: –

1. FOR GENERAL NOTES REFER DWG. NO.
2. READ THIS DRAWING IN CONJUNCTION WITH ALL RELEVANT PROJECT DRAWINGS.

SCALE = 1/8" = 1'-0"

REV. NO.	DATE	DESCRIPTION	BY	CKD.	APPR.

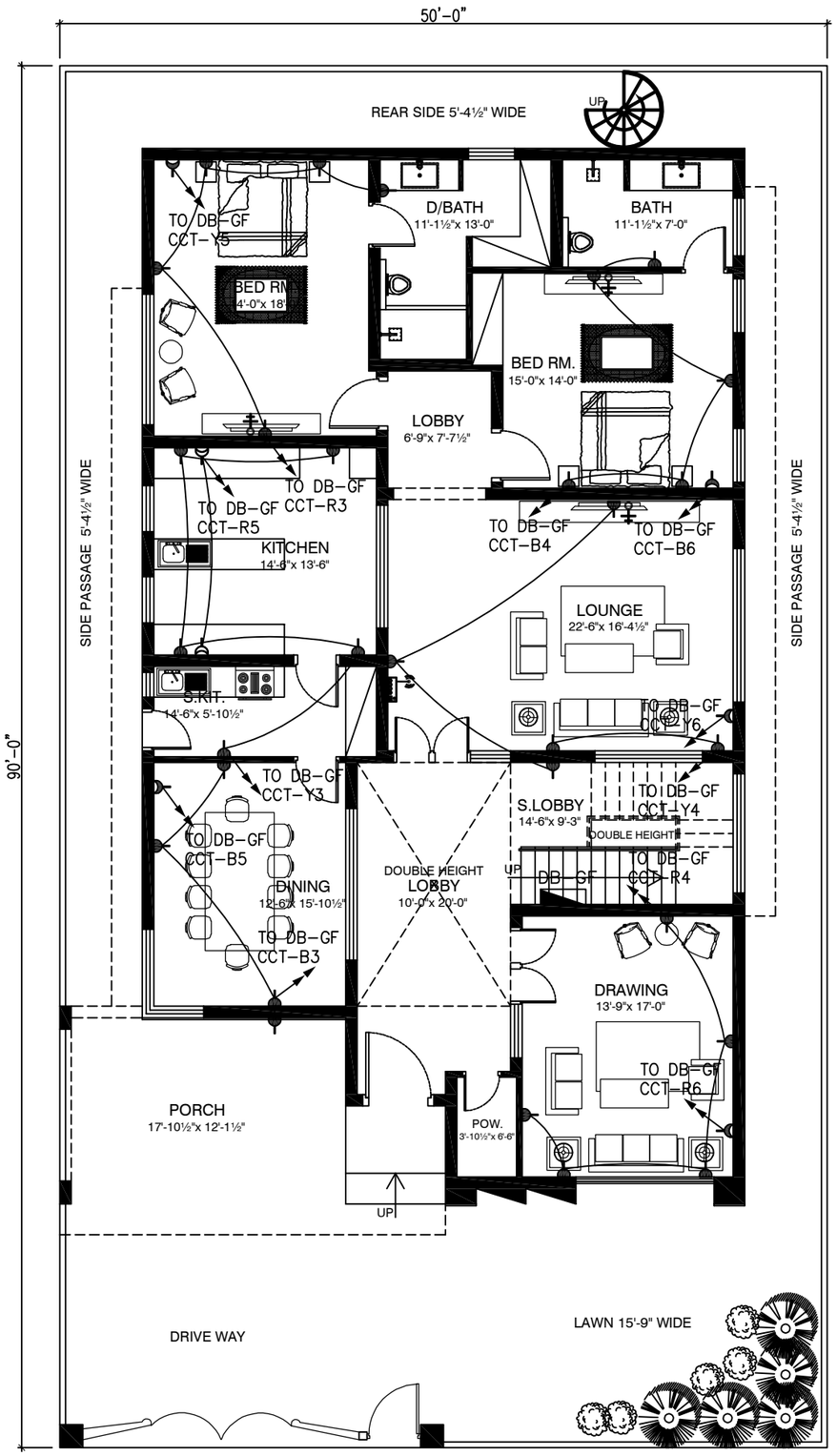
CONSTRUCTION OF HOUSES FOR ICT POLICE

GROUND & FIRST FLOOR PLAN
LIGHTING LAYOUT

NATIONAL ENGINEERING SERVICES
PAKISTAN (PVT.) LTD. ISLAMABAD

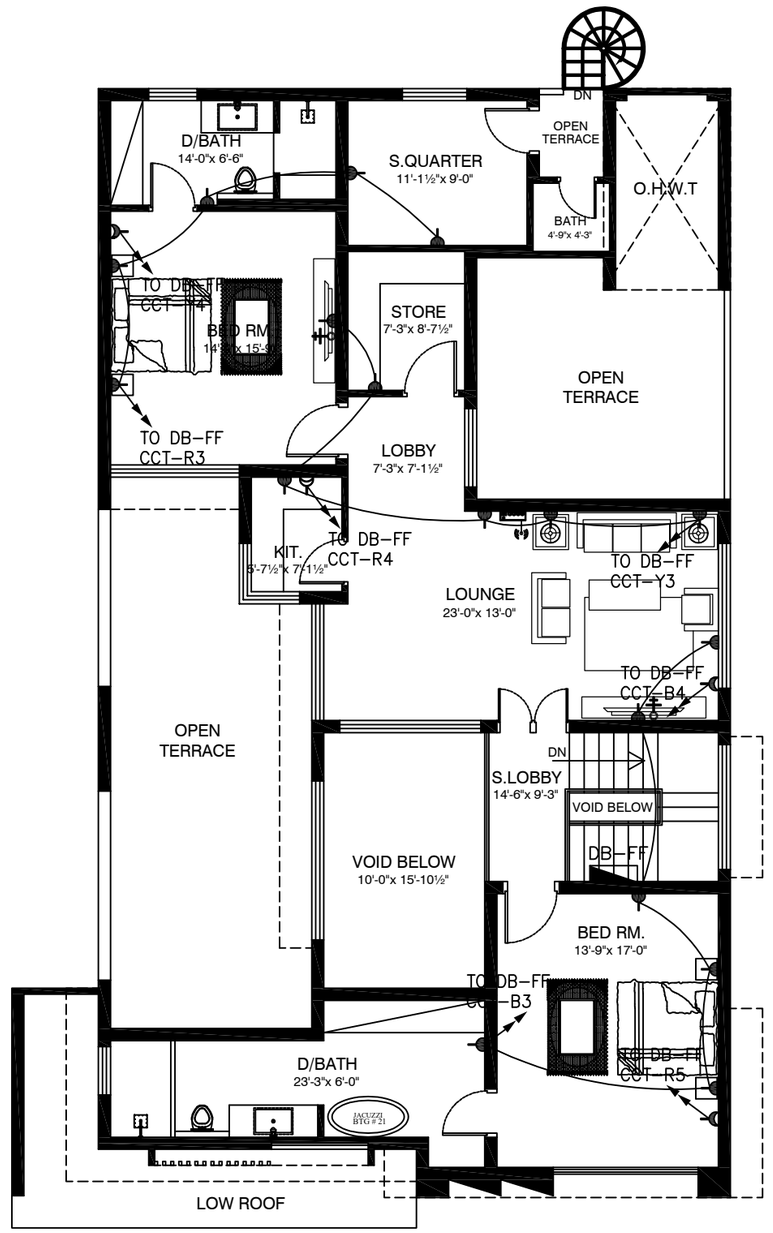
DESN. NESPAK	RECOMMENDED	VER./CKD.	APPROVED
DWN.			
FILE			
CKD.			
SUBM.			

DATE	DRAWING NO.	REV.
JULY' 2026	156/325/BD/01E02	0



GROUND FLOOR PLAN

2496.35 S.FT



FIRST FLOOR PLAN

1748.95 S.FT

NOTES: –

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SCALE = 1/8" = 1'-0"

REV. NO.	DATE	DESCRIPTION	BY	CKD.	APPR.

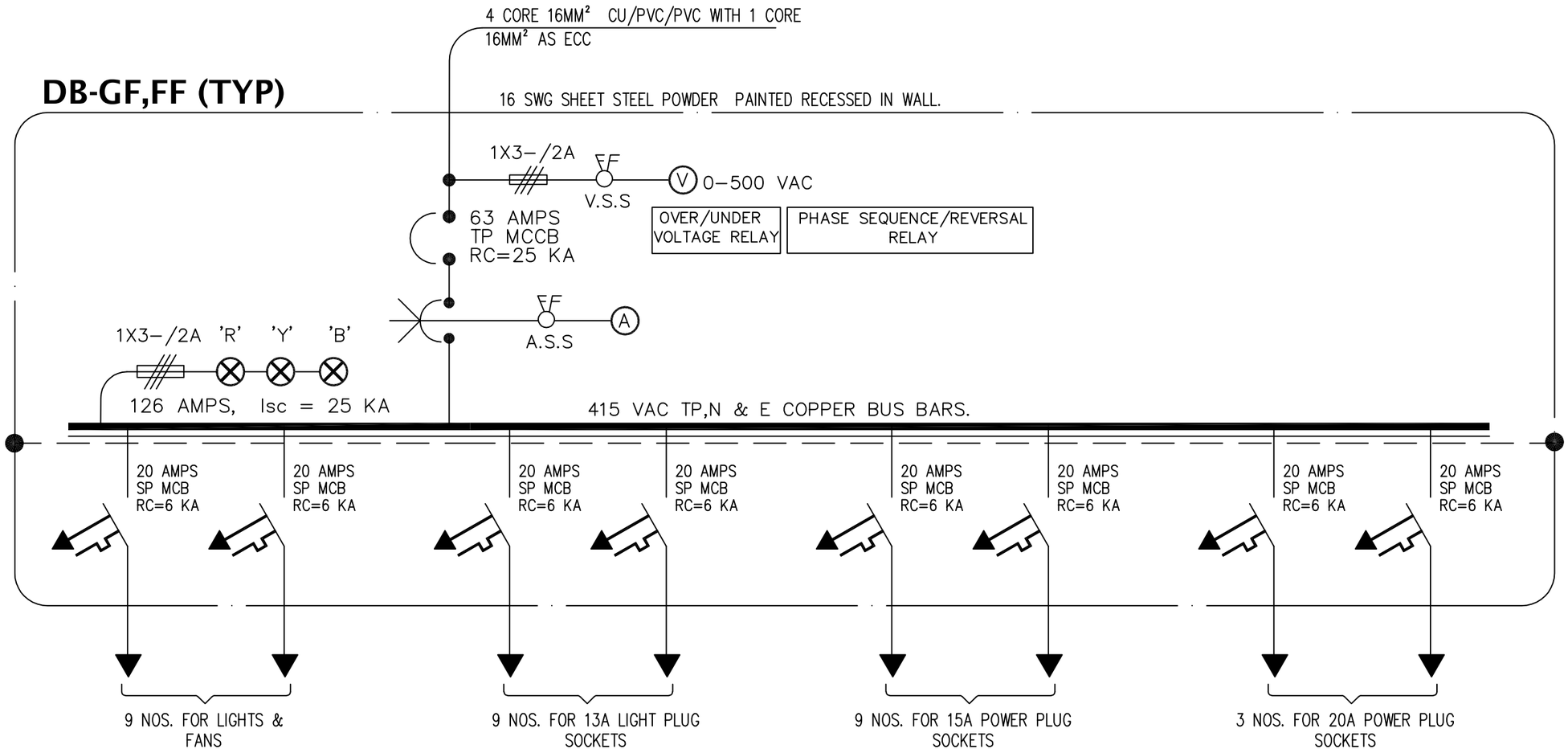
CONSTRUCTION OF HOUSES FOR ICT POLICE

GROUND & FIRST FLOOR PLAN POWER LAYOUT

NES PAK NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. ISLAMABAD

DESN. NESPAK	RECOMMENDED	VER./CKD.	APPROVED
DWN.			
FILE			
CKD.	DATE	DRAWING NO.	REV.
SUBM.	JULY' 2026	156/325/BD/01E03	0

DB-GF,FF (TYP)



SCALE = 1/8" = 1'-0"

REV. NO.	DATE	DESCRIPTION	BY	CKD.	APPR.

CONSTRUCTION OF HOUSES FOR ICT POLICE

SINGLE LINE DIAGRAM

NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. ISLAMABAD

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FILE			
CKD.			
SUBM.			

DATE	DRAWING NO.	REV.
JULY' 2026	156/325/BD/01E04	0

ABBREVIATION	DESCRIPTION
Ø	DIAMETER OF PIPE
CW	COLD WATER PIPE
HW	HOT WATER PIPE
HWR	HOT WATER RETURN PIPE
SP	SOIL PIPE
WP	WASTE PIPE
VP	VENT PIPE
S/S	SOIL STACK
W/S	WASTE STACK
V/S	VENT STACK
T/A	TO ABOVE
T/B	TO BELOW
F/A	FROM ABOVE
F/B	FROM BELOW
U/G.	UNDER GROUND
U/F.	UNDER FLOOR
GWH	GAS WATER HEATER
SH	BATH SHOWER
MS	MUSLIM SHOWER

ABBREVIATION	DESCRIPTION
RWP	RAIN WATER PIPE
WMH	WASTE MANHOLE
SMH	SOIL MANHOLE
CP	CATCH PIT
GI	GALVANIZED IRON
GV	GATE VALVE
CV	CHECK VALVE
WC	WATER CLOSET
AF/C	ABOVE FALSE CEILING
(TYP)	TYPICAL
FT	FLOOR TRAP
H/L	HIGH LEVEL
U/F	UNDER FLOOR / LOW LEVEL
WC	WATER CLOSET
N.T.S.	NOT TO SCALE

SYMBOL	DESCRIPTION
	COLD WATER PIPE
	HOT WATER PIPE
	SOIL PIPE
	WASTE PIPE
	VENT PIPE
	GATE VALVE ON HORIZONTAL PIPE
	GATE VALVE ON VERTICAL PIPE
	CHECK VALVE OR NON-RETURN VALVE
CO	FLOOR CLEAN OUT
COP	FLOOR CLEAN OUT PLUG
	MULTI FLOOR TRAP
	FLOOR TRAP
	DIRECTION OF FLOW
MS	MUSLIM SHOWER
Gr.T	GREASE TRAP
G.T	GULLY TRAP
GWH/EWH	GAS /ELECTRIC WATER HEATER
	SHOWER
	WATER COOLER
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
	ASIAN WATER CLOSET
	ENGLISH WATER CLOSET
	VANITY
	WASH HAND BASIN

GENERAL NOTES.

1 – PIPE PASSING THROUGH WALL, FLOOR OR ROOF SHALL BE PROTECTED WITH SLEEVES

2 – CLEANOUT OR ACCESS DOOR SHALL BE PROVIDED AT THE BASE OF ALL DRAINAGE STACK AND AT EACH FLOOR LEVEL.

3 – DRAINAGE STACKS SHALL BE CONNECTED TO HORIZONTAL FIXTURE DRAIN PIPES BY 90° SWEEP TEE OR Y AND 45° BEND.

4 – DRAINAGE STACKS SHALL BE CONNECTED TO UNDERGROUND DRAIN PIPE BY EITHER 90° LARGE/LONG RADIUS BEND OR TWO 45° BENDS.

5 – PIPE SIZES ARE IN INCHES.

6 – PLUMBING SERVICES, SHALL BE CO-ORDINATED WITH OTHER SERVICES SUCH AS ELECTRICAL, HVAC ETC. TO AVOID CONFLICT OR INTERFERENCE WITH THEM.

7 – SIZE OF FLOOR DRAIN UNLESS OTHERWISE STATED SHALL BE SAME AS THE SIZE OF OUTLET DRAIN PIPE.

8 – WHEREVER FLOOR DRAIN/TRAP IS SHOWN, SLOPE FLOOR TOWARDS DRAIN/TRAP.

9 – HORIZONTAL DRAINAGE PIPING OF 3 INCH DIAMETER & LESS SHALL BE INSTALLED WITH A SLOPE OF NOT LESS THEN 1/4 INCH PER FOOT, LARGER ONES WITH A SLPOE OF NOT LESS THEN 1/8 INCH PER FOOT.

10 – VENT PIPES SHALL BE EXENDED ONE METER ABOVE ROOF FINISHED LEVEL AND VENT COWLS SHALL BE PROVIDED ON EACH VENT OUTLET.

11 – THE "VERTICAL DISTANCE" FROM FIXTURE OUTLET TO THE TRAP WEIR SHALL PREFERABLY BE NOT MORE THAN 12 INCHES. HOWEVER, THIS "VERTICAL DISTANCE" FROM THE FIXTURE OUTLET TO THE TRAP WEIR SHALL NOT EXCEED 24 INCHES.

GENERAL NOTES.

12 – WHERE THE CHANGE OF DIRECTION IS 45° OR LESS, IT IS NOT NECESSARY TO PROVIDE A CLEAN OUT. BUT WHEN THE CHANGE IN DIRECTION IS MORE THAN 45°, A CLEAN OUT SHOULD BE REQUIRED.

13 – CLEANOUTS SHALL BE SO INSTALLED THAT THERE IS A CLEARANCE OF NOT LESS THAN 18 INCHES FOR THE PURPOSE OF RODDING.

14 – ALL TRAPS AND FLOOR DRAINS SHALL HAVE A WATER SEAL NOT LESS THAN 2 INCHES.

15 – NO T-CONNECTION IS ALLOWED IN SOIL AND WASTE PIPING.

16 – ALL PLUMBING DUCTS MUST HAVE ACCESS PANELS AT EACH FLOOR.

17 – ALL PLUMBING DUCTS MUST BE PLASTERED WITH 1:3 C/S WATER PROOF PLASTER BEFORE INSTALLATION OF PIPES ETC.

18 – TYPICAL OUTLET SIZE OF FIXTURES SHALL BE AS FOLLOWS;

WATER CLOSET	4"
FLOOR DRAIN	3"
SHOWER / TUB	2"

19 – MINIMUM SIZE OF WATER SUPPLY DISTRIBUTION PIPE SHALL BE 25mm.

20 – MINIMUM SIZE OF SOIL PIPE DIAMETER FOR SHALL BE 100mm.

21 – WATER FILTERS SHALL BE PROVIDED AT EACH WATER COOLER LOCATION, WITH THE SOURCE LINE.

NOTE:

1. READ THIS DRAWING IN CONJUNCTION WITH ALL RELEVANT PROJECT DRAWINGS.

REFERENCE DRAWINGS	REV. NO.	DATE	DESCRIPTION	BY	CKD.	APPR.

SCALE: 3/32" = 1'-0"

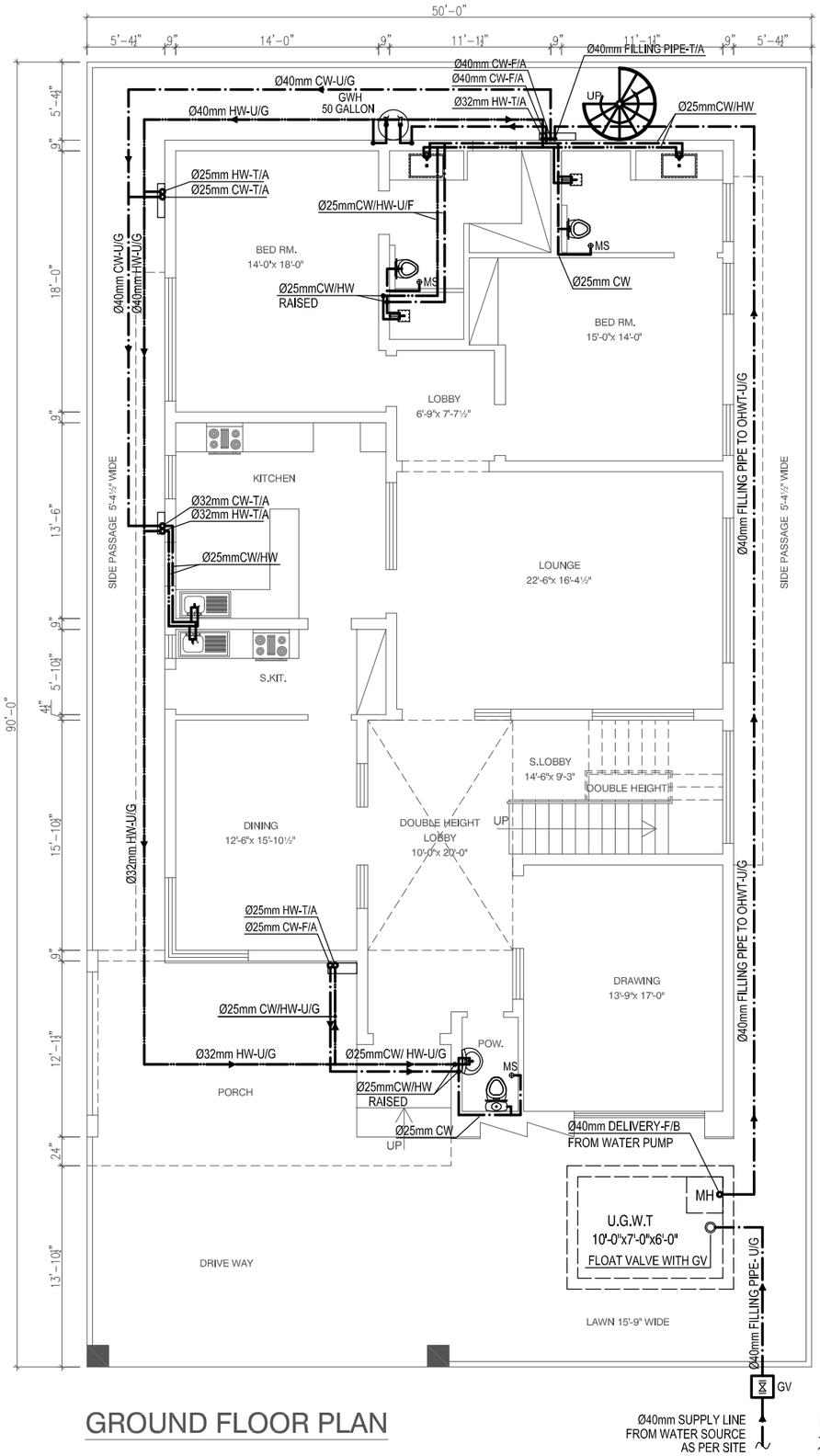
ISLAMABAD CAPITAL TERRITORY POLICE

ICT POLICE ACCOMMODATION PROJECT ISLAMABAD

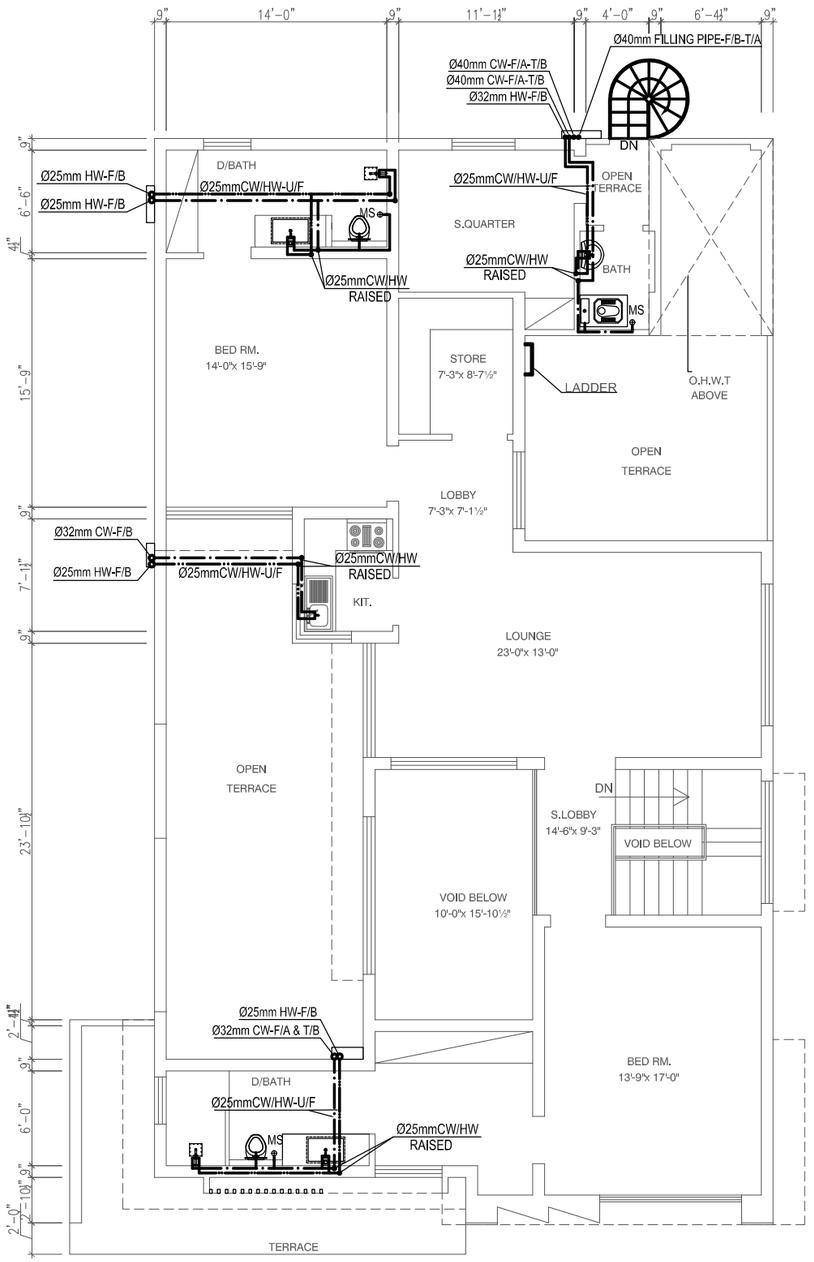
GENERAL NOTES, SYMBOLS & ABBREVIATIONS (PLUMBING WORKS)

NESPAK NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. ISLAMABAD

	RECOMMENDED	VER./CKD.	APPROVED
DESN. NESPAK	BUSHRA	M.A.JAVED	M.A.JAVED
DWN. HASNAT			
FILE			
CKD. M.A.JAVED	DATE	DRAWING NO.	REV.
SUBM. M.A.JAVED	AUG,2026.	156/326/BD/01F01	.



GROUND FLOOR PLAN



FIRST FLOOR PLAN

SCALE: 3/32" = 1'-0"

NOTE:

1. READ THIS DRAWING IN CONJUNCTION WITH ALL RELEVANT PROJECT DRAWINGS.

REFERENCE DRAWINGS	REV. NO.	DATE	DESCRIPTION	BY	CKD.	APPR.

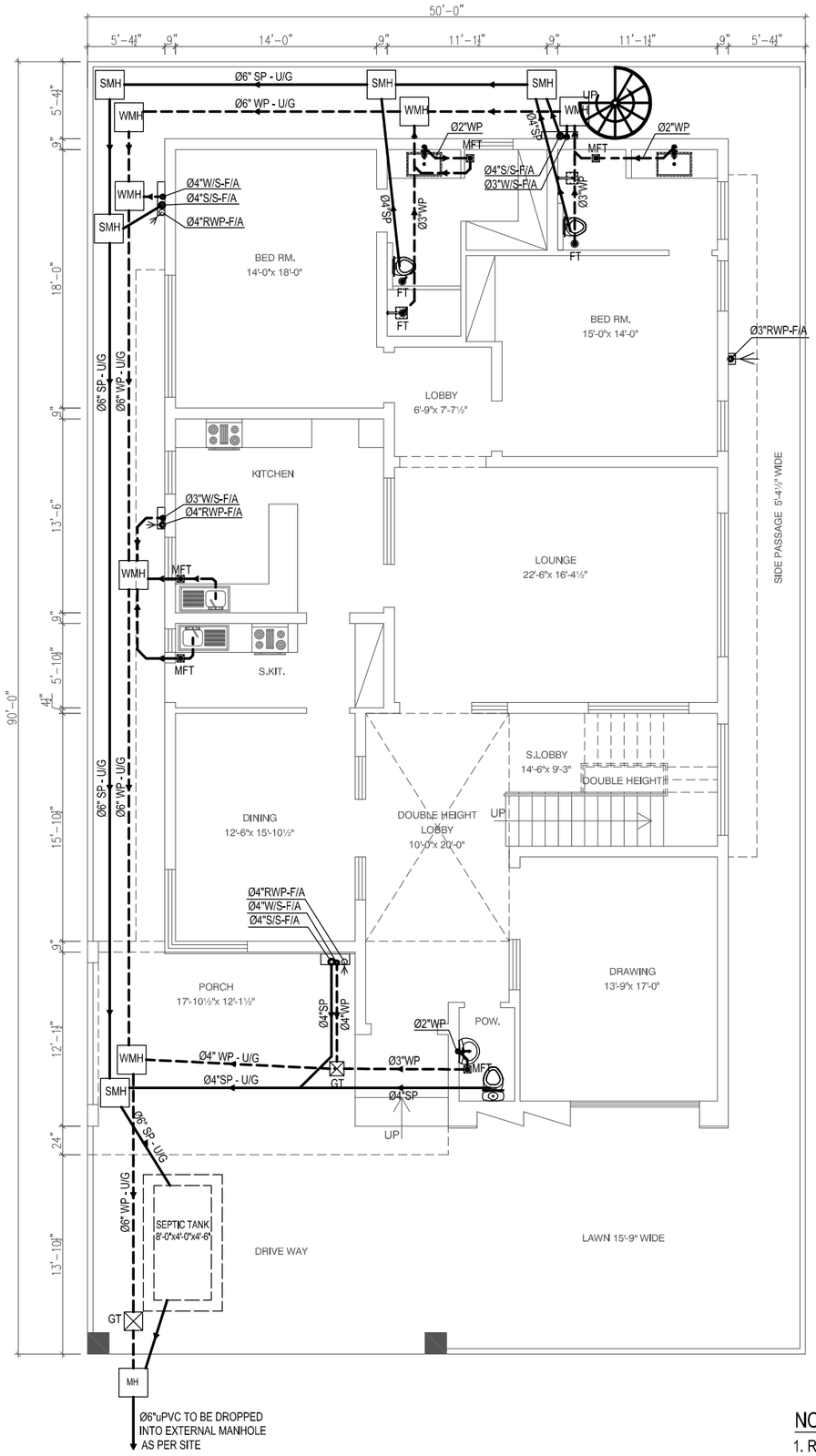
ISLAMABAD CAPITAL TERRITORY POLICE

ICT POLICE ACCOMMODATION PROJECT ISLAMABAD

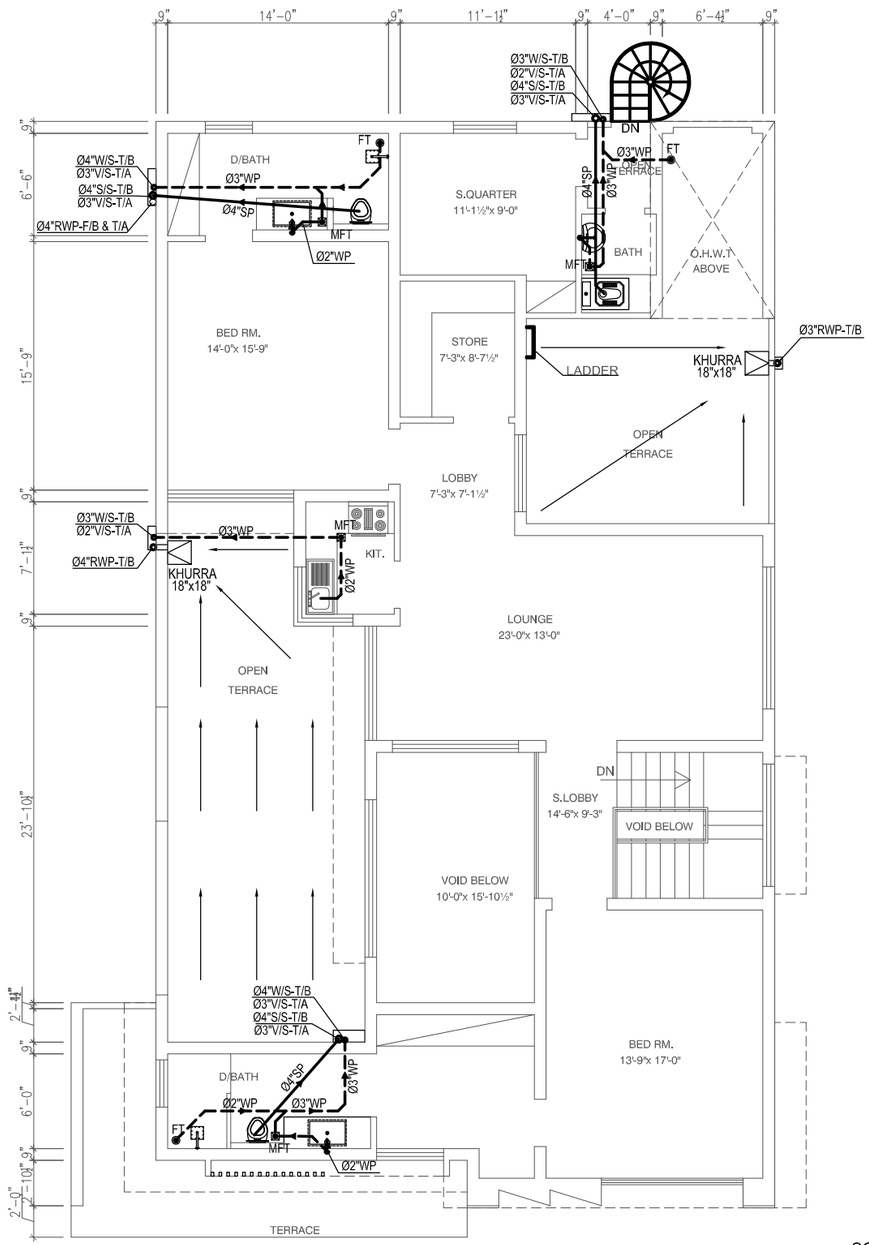
GROUND & FIRST FLOOR PLAN PLUMBING (WATER SUPPLY LAYOUT)

NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. ISLAMABAD

DESN. NESPAK	RECOMMENDED	VER./CKD.	APPROVED
DWN. HASNAT	BUSHRA	M.A.JAVED	M.A.JAVED
FILE			
CKD. M.A.JAVED	DATE	DRAWING NO.	REV.
SUBM. M.A.JAVED	AUG,2026.	156/326/BD/01F02	.



GROUND FLOOR PLAN



FIRST FLOOR PLAN

SCALE: 3/32" = 1'-0"

NOTE:

1. READ THIS DRAWING IN CONJUNCTION WITH ALL RELEVANT PROJECT DRAWINGS.

REFERENCE DRAWINGS	REV. NO.	DATE	DESCRIPTION	BY	CKD.	APPR.

ISLAMABAD CAPITAL TERRITORY POLICE

ICT POLICE ACCOMMODATION PROJECT ISLAMABAD

GROUND & FIRST FLOOR PLAN PLUMBING (SANITARY DRAINAGE LAYOUT)

NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. ISLAMABAD

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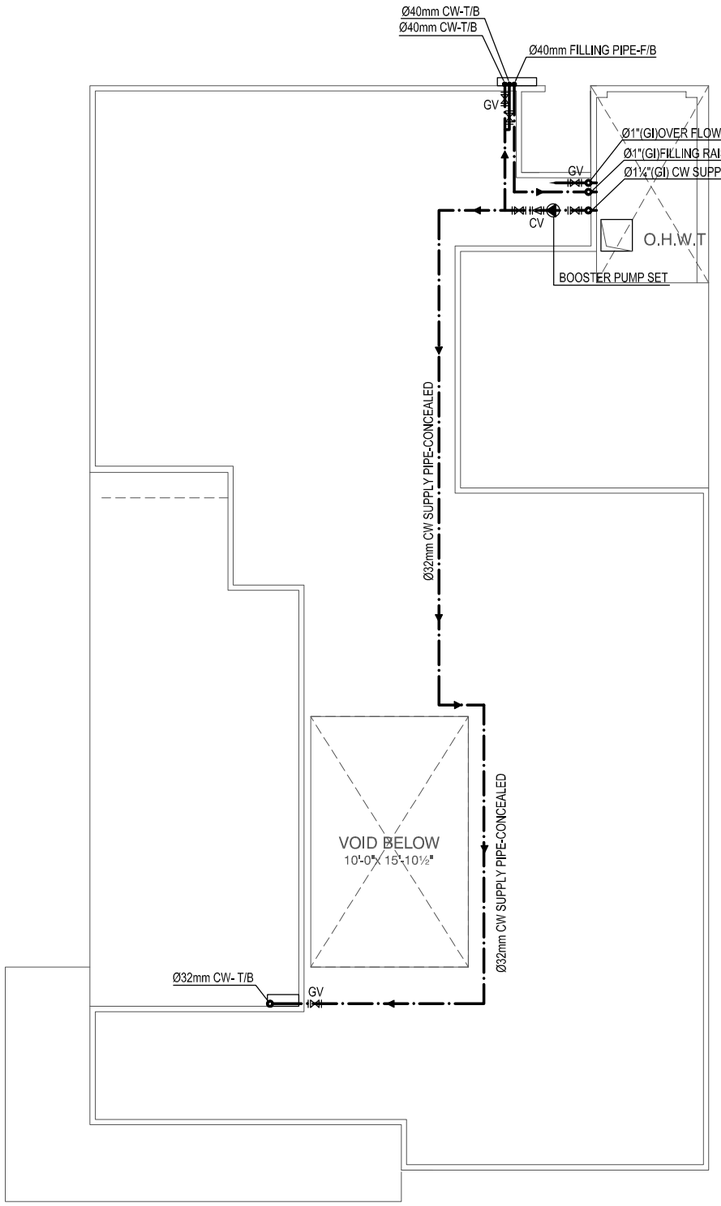
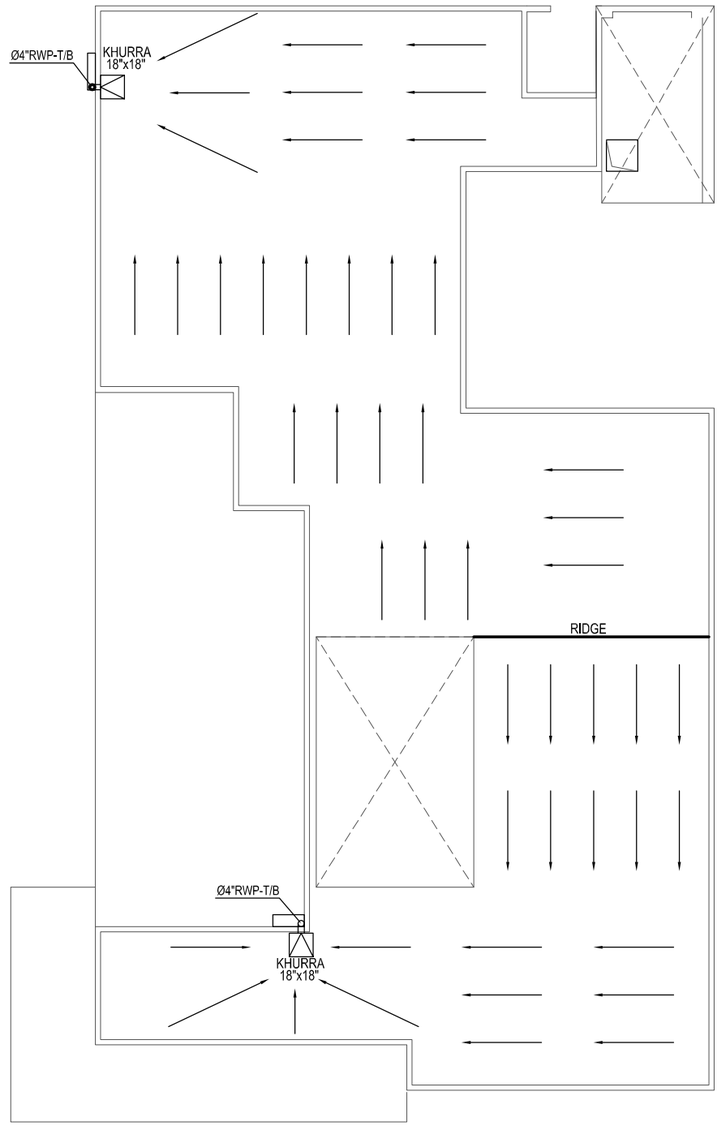
DESN. NESPAK	BUSHRA	M.A.JAVED	M.A.JAVED
DWN. HASNAT			
FILE			
CKD. M.A.JAVED			
SUBM. M.A.JAVED	DATE: AUG,2026.	DRAWING NO.: 156/326/BD/01F03	REV.: .



ROOF PLAN



ROOF PLAN

SCALE: 3/32" = 1'-0"

NOTE:

1. READ THIS DRAWING IN CONJUNCTION WITH ALL RELEVANT PROJECT DRAWINGS.

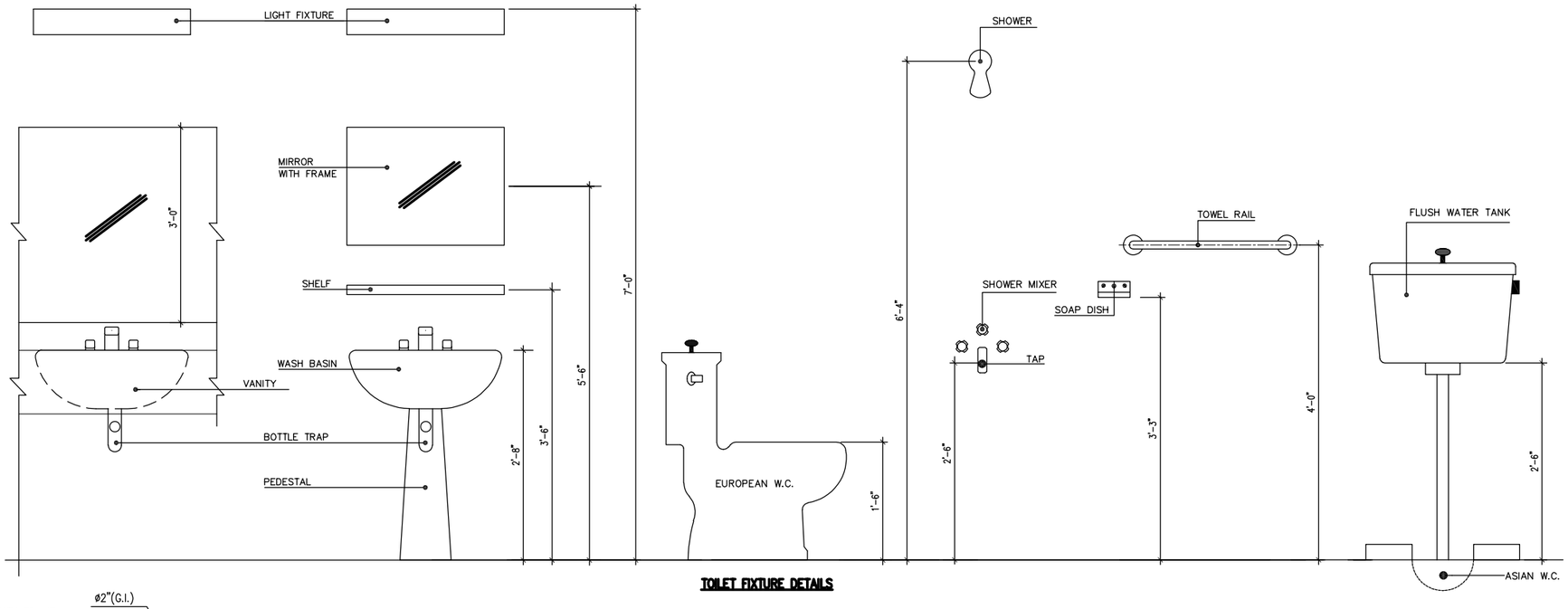
REFERENCE DRAWINGS	REV. NO.	DATE	DESCRIPTION	BY	CKD.	APPR.

ISLAMABAD CAPITAL TERRITORY POLICE

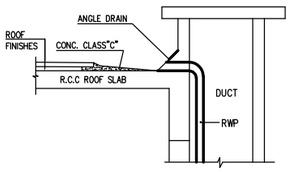
ICT POLICE ACCOMMODATION PROJECT ISLAMABAD
GROUND & FIRST FLOOR PLAN (WATER SUPPLY & STORM DRAINAGE LAYOUT)

NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. ISLAMABAD

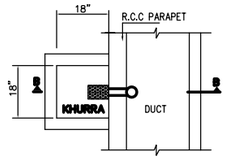
	RECOMMENDED	VER./CKD.	APPROVED
DESN. NESPAK			
DWN. HASNAT	BUSHRA	M.A.JAVED	M.A.JAVED
FILE			
CKD. M.A.JAVED	DATE	DRAWING NO.	REV.
SUBM. M.A.JAVED	AUG,2026.	156/326/BD/01F04	.



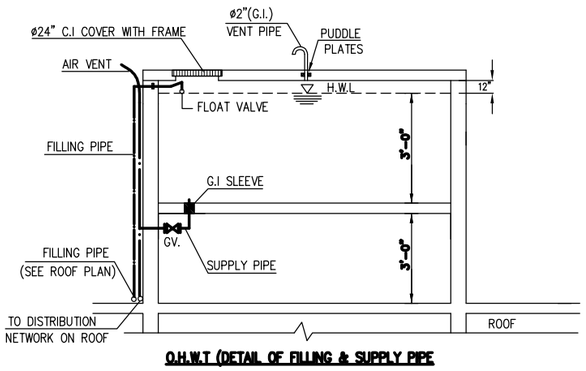
TOILET FIXTURE DETAILS



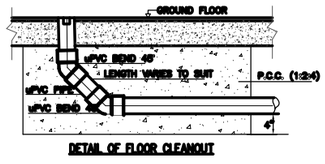
SECTION B–B



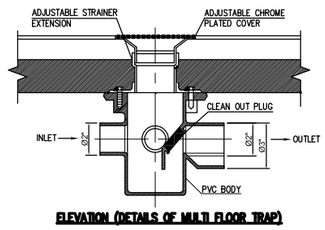
PLAN
DETAIL OF KHURRA (TYPE–B)



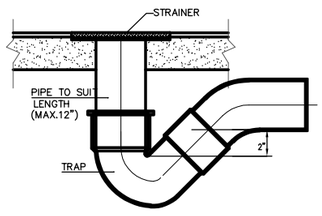
O.H.W.T (DETAIL OF FILLING & SUPPLY PIPE



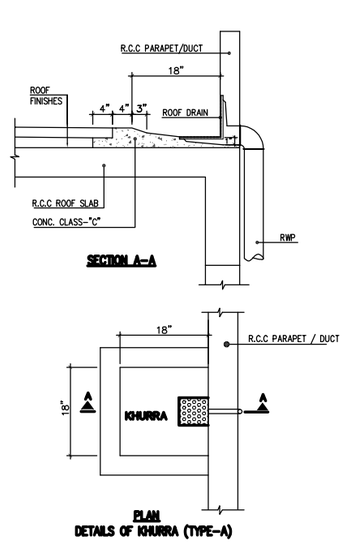
DETAIL OF FLOOR CLEANOUT



ELEVATION (DETAILS OF MULTI FLOOR TRAP)

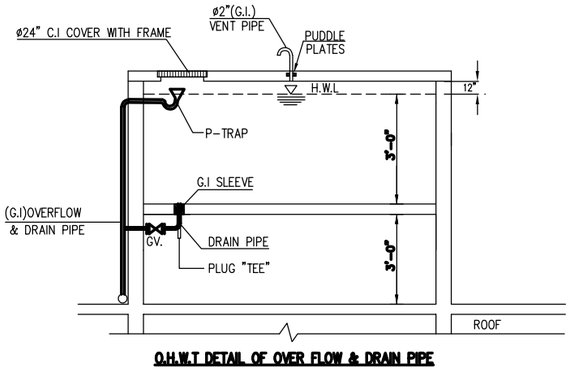


DETAIL OF FLOOR TRAP



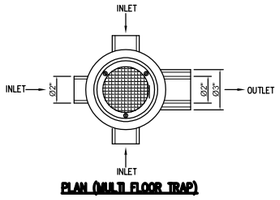
SECTION A–A

PLAN
DETAILS OF KHURRA (TYPE–A)

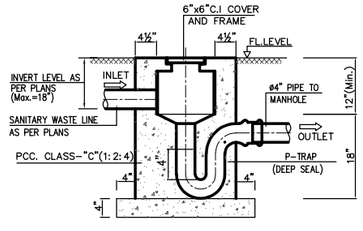


O.H.W.T DETAIL OF OVER FLOW & DRAIN PIPE

CLEANOUT INSTALLATION IN FALSE CEILING



PLAN (MULTI FLOOR TRAP)



DETAILS OF GULLY TRAP

SCALE: 3/32" = 1'-0"

NOTE:

1. READ THIS DRAWING IN CONJUNCTION WITH ALL RELEVANT PROJECT DRAWINGS.

REFERENCE DRAWINGS	REV. NO.	DATE	DESCRIPTION	BY	CKD.	APPR.

ISLAMABAD CAPITAL TERRITORY POLICE

ICT POLICE ACCOMMODATION PROJECT ISLAMABAD

MISCELLANEOUS DETAILS (PLUMBING WORKS)

NES PAK NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. ISLAMABAD

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DESN. NESPAK	BUSHRA	M.A.JAVED	M.A.JAVED
DWN. HASNAT			
FILE			
CKD. M.A.JAVED			
SUBM. M.A.JAVED			

DATE	DRAWING NO.	REV.
AUG.2026.	156/326/BD/01F05	.