

LEGEND

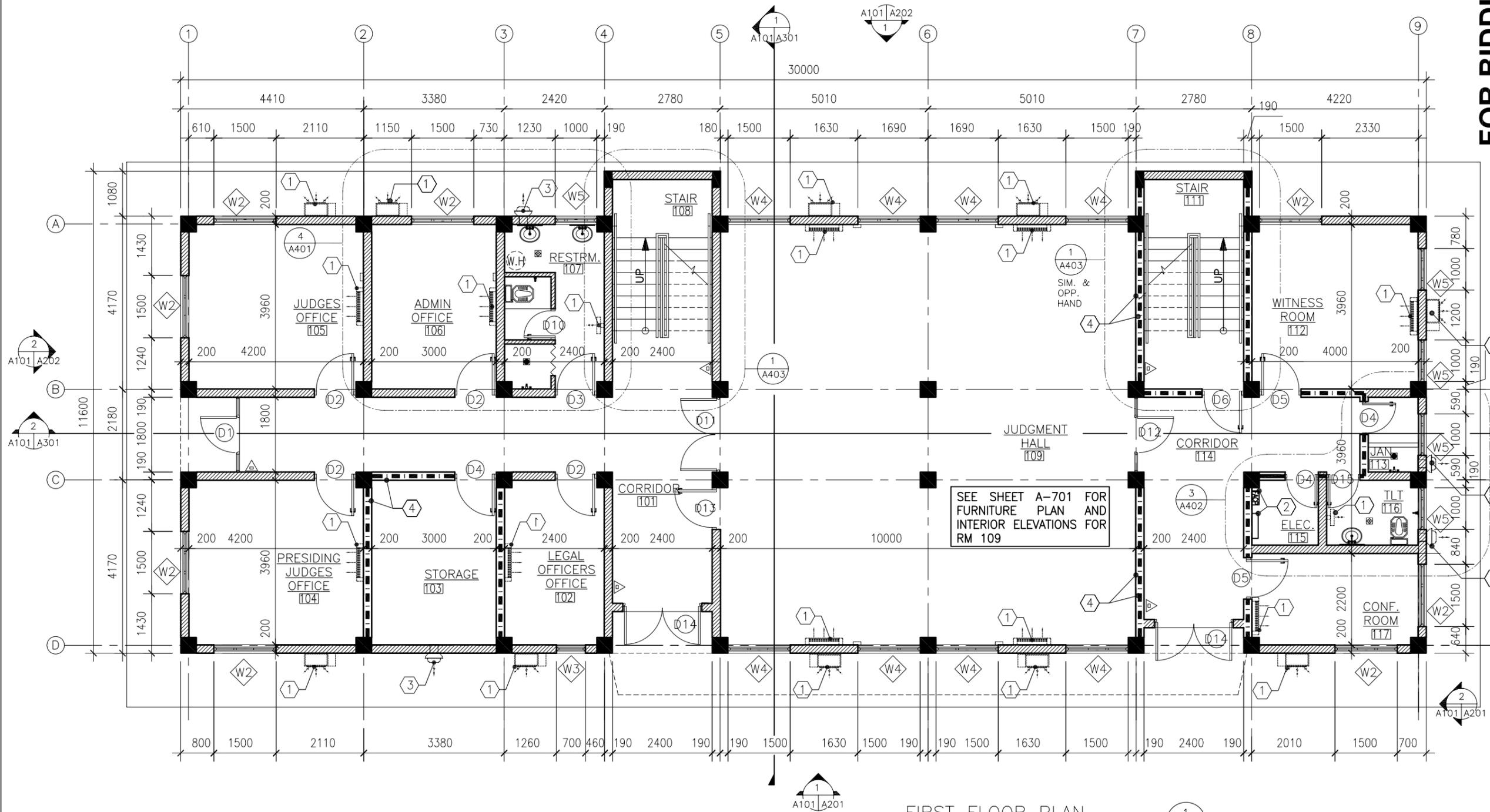
- DOOR NUMBER
- WINDOW NUMBER
- CMU WALL
- PORTABLE FIRE EXTINGUISHER, ABC DRY CHEMICAL 4A:60B:C, WITH SURFACE MOUNTED CABINET

KEY NOTES: (APPLICABLE TO THIS SHEET ONLY)

- ① HVAC EQUIPMENT – SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- ② ELECTRICAL / COMMUNICATIONS EQUIPMENT – SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- ③ MECH. VENT / LOUVER – SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.
- ④ 1-HR FIRE RATED CMU WALL TYP. WHERE SHOWN (DASHED LINE)

GENERAL NOTES:

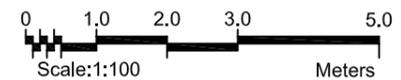
- A. DIMENSIONS ARE SHOWN IN MILLIMETER, U.N.O.
- B. INTERIOR PARTITIONS SHALL BE 200MM CMU.
- C. INTERIOR CONCRETE, PLASTER AND MASONRY SURFACES SHALL CURE FOR AT LEAST 30 DAYS PRIOR TO PAINTING. CONCRETE SLABS-ON-GRADE SHALL CURE 90 DAYS PRIOR TO STAINING OR SEALING.
- D. DO NOT USE PAINT MATERIALS CONTAINING LEAD CONTENT IN EXCESS OF 0.009 PERCENT OF THE WEIGHT OF THE TOTAL NON-VOLATILE CONTENT OF THE PAINT OR THE WEIGHT OF THE DRIED PAINT FILM.
- E. DO NOT USE PAINT MATERIALS CONTAINING MERCURIAL FUNGICIDES.
- F. METAL DOORS & FRAMES SHALL BE FACTORY-PRIMED AND SHALL RECEIVE TWO TOP COAT OF OIL BASED PAINT APPROVED FOR METAL SURFACE.
- G. ALL EXTERIOR CONCRETE STOOPS TO SLOPE 1% AWAY FROM BUILDING.
- H. ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.
- J. COORDINATE ALL INTERIOR FINISHES WITH CONTRACTING OFFICER.
- K. ALL FLOOR PLAN DIMENSIONS SHOWN THIS SHEET ARE NOMINAL.
- L. FINISH GRADES SHALL SLOPE AS NECESSARY TO CONDUCT WATER AWAY FROM BUILDING.
- M. ALL DOORS SHALL BE LOCATED 204mm FROM ADJACENT WALL ON THE LATCH SIDE, CENTERED IN THE WALL IN WHICH THEY APPEAR OR AS DIMENSIONED.
- N. ALL INTERIOR WALLS ARE REINFORCED CMU AS DIMENSIONED, PLASTER FINISH – PAINT BOTH SIDES, EXTEND TO UNDERSIDE OF DECK OR BEARING LEVEL OF TRUSSES.



SEE SHEET A-701 FOR FURNITURE PLAN AND INTERIOR ELEVATIONS FOR RM 109

FIRST FLOOR PLAN

SCALE: 1:100



FOR BIDDING PURPOSES ONLY



DESIGNED	REVISION	DATE	REVISION BY	DESCRIPTION
JOE NOCHMAN				
D.WHEELER				
		17, DEC. 2010		

AFGHAN NATIONAL ARMY	NEW COURTHOUSE FOR CAMP SHORAB RSC_SW	FIRST FLOOR PLAN
SCALE AS SHOWN		
PROJECT NO. 04.AA.01401	A-101	

LEGEND

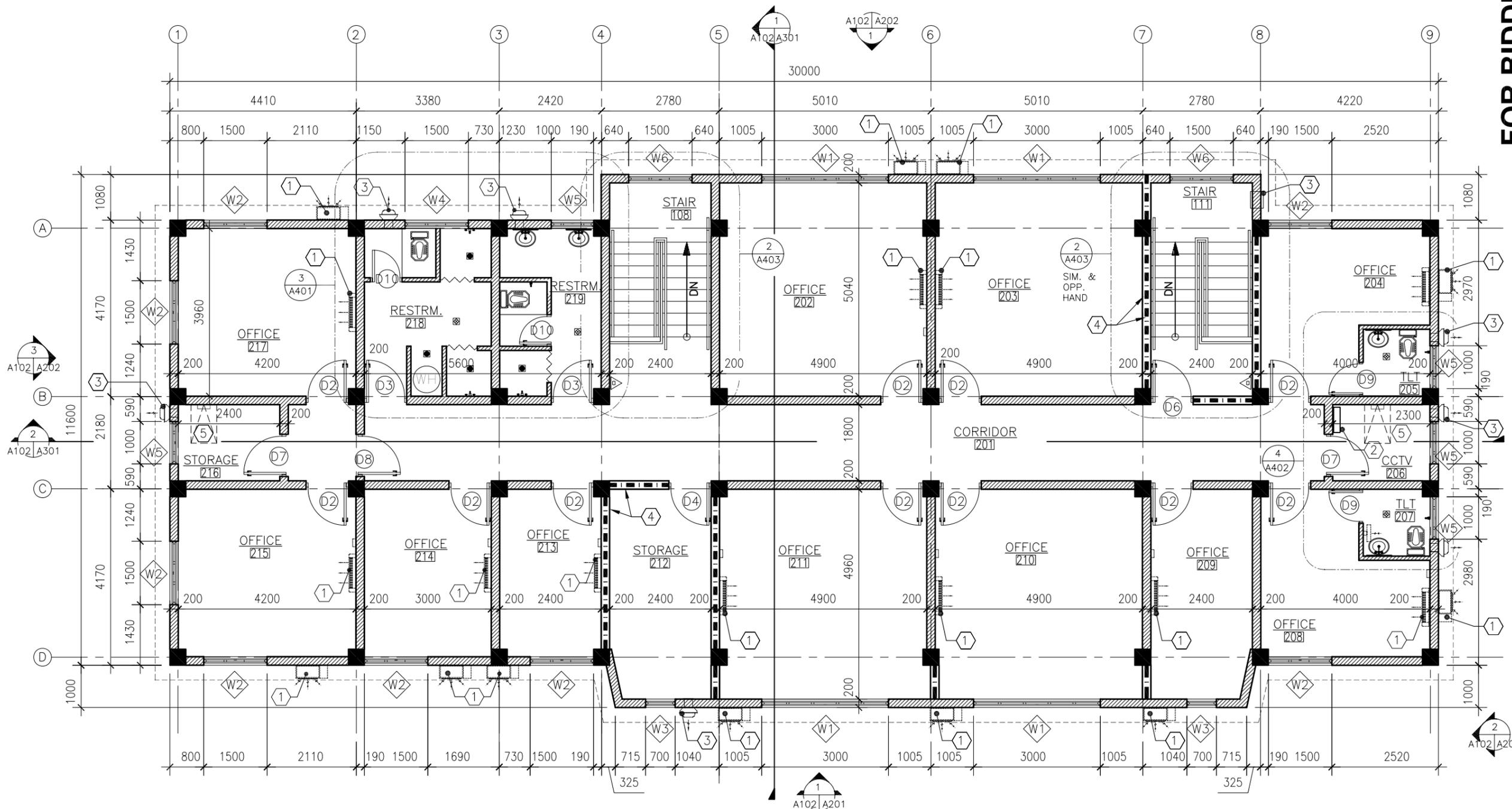
- DOOR NUMBER
- WINDOW NUMBER
- CMU WALL
- PORTABLE FIRE EXTINGUISHER, ABC DRY CHEMICAL 4A:60B:C, WITH SURFACE MOUNTED CABINET

KEY NOTES: (APPLICABLE TO THIS SHEET ONLY)

- 1 HVAC EQUIPMENT - SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- 2 ELECTRICAL / COMMUNICATIONS EQUIPMENT - SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- 3 MECH. VENT / LOUVER - SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.
- 4 1-HR RATED CMU WALL TYPICAL WHERE SHOWN (DASHED LINE).
- 5 610mm X 914mm 1-HR FIRE RATED ACCESS PANEL (ABOVE). PROVIDE STEEL RUNG LADDER BOLTED TO MASONRY WALL

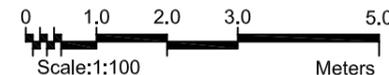
GENERAL NOTES:

- A. DIMENSIONS ARE SHOWN IN MILLIMETER, U.N.O.
- B. INTERIOR PARTITIONS SHALL BE 200MM CMU.
- C. INTERIOR CONCRETE, PLASTER AND MASONRY SURFACES SHALL CURE FOR AT LEAST 30 DAYS PRIOR TO PAINTING. CONCRETE SLABS-ON-GRADE SHALL CURE 90 DAYS PRIOR TO STAINING OR SEALING.
- D. DO NOT USE PAINT MATERIALS CONTAINING LEAD CONTENT IN EXCESS OF 0.009 PERCENT OF THE WEIGHT OF THE TOTAL NON-VOLATILE CONTENT OF THE PAINT OR THE WEIGHT OF THE DRIED PAINT FILM.
- E. DO NOT USE PAINT MATERIALS CONTAINING MERCURIAL FUNGICIDES.
- F. METAL DOORS & FRAMES SHALL BE FACTORY-PRIMED AND SHALL RECEIVE TWO TOP COAT OF OIL BASED PAINT APPROVED FOR METAL SURFACE.
- G. ALL EXTERIOR CONCRETE STOOPS TO SLOPE 1% AWAY FROM BUILDING.
- H. ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.
- J. COORDINATE ALL INTERIOR FINISHES WITH CONTRACTING OFFICER.
- K. ALL FLOOR PLAN DIMENSIONS SHOWN THIS SHEET ARE NOMINAL.
- L. FINISH GRADES SHALL SLOPE AS NECESSARY TO CONDUCT WATER AWAY FROM BUILDING.
- M. ALL DOORS SHALL BE LOCATED 204mm FROM ADJACENT WALL ON THE LATCH SIDE, CENTERED IN THE WALL IN WHICH THEY APPEAR OR AS DIMENSIONED.
- N. ALL INTERIOR WALLS ARE REINFORCED CMU AS DIMENSIONED, PLASTER FINISH - PAINT BOTH SIDES, EXTEND TO UNDERSIDE OF DECK OR BEARING LEVEL OF TRUSSES.



SECOND FLOOR PLAN

SCALE: 1:100

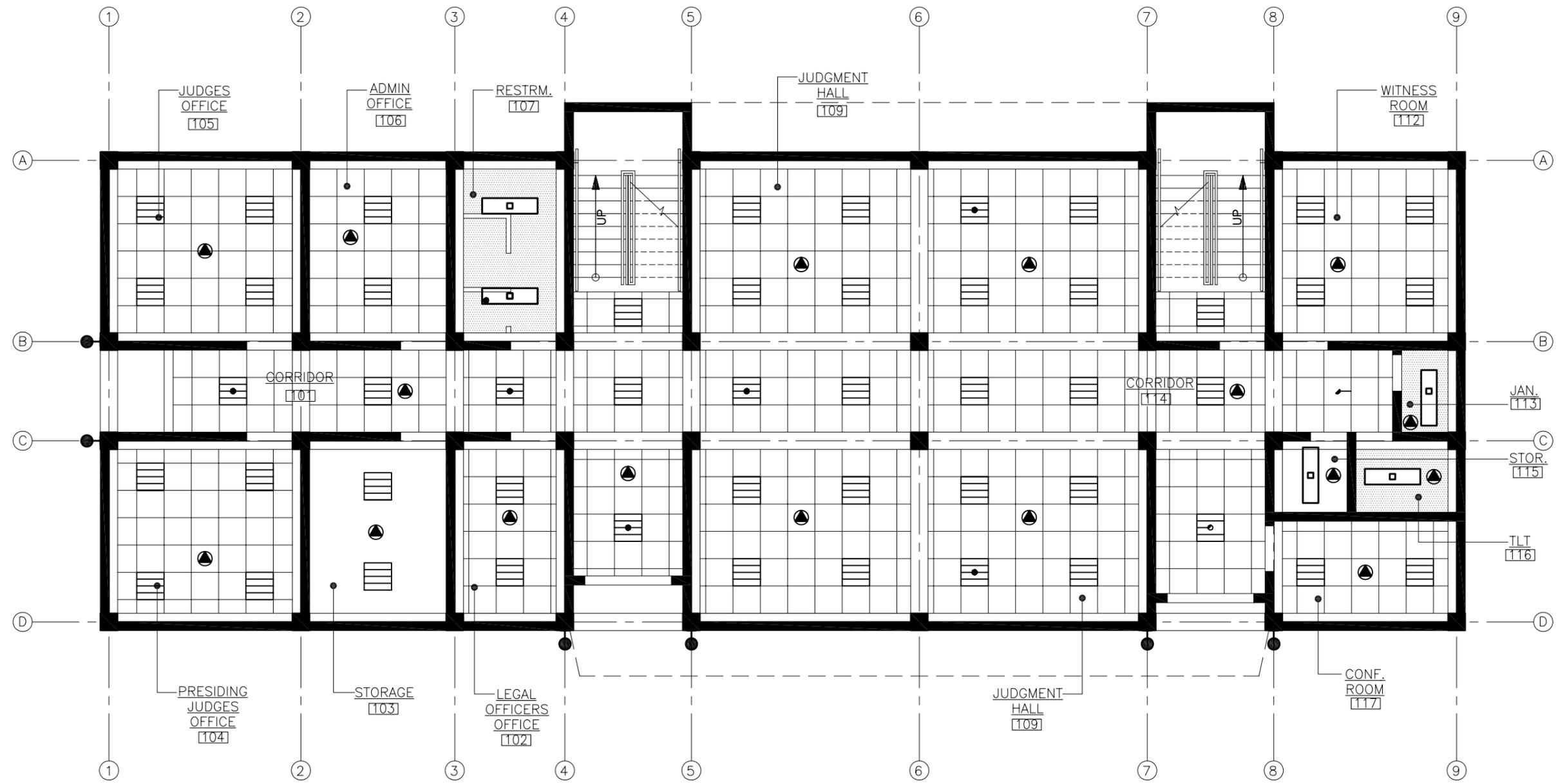


FOR BIDDING PURPOSES ONLY

DESIGNED	JOE NOCHMAN	DESCRIPTION
DRAWN	JOE NOCHMAN	
CHECKED	JOE NOCHMAN	
IN CHARGE	JOE NOCHMAN	
DATE	D. WHEELER	
REVISION	17, DEC, 2010	
PROJECT NO.	04.AA.01401	
SCALE	1:100	
PROJECT NO.	04.AA.01401	
PROJECT NAME	AFGHAN NATIONAL ARMY NEW COURTHOUSE FOR CAMP SHORAB RSC_SW	
PROJECT SHEET	SECOND FLOOR PLAN	
PROJECT ID	A-102	



FOR BIDDING PURPOSES ONLY



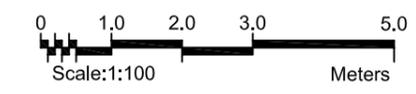
LEGEND:

- 200 mm CMU FULL HEIGHT WALL
- SUSPENDED CEILING SYSTEM
PANEL SIZE (600X600)mm
- MOISTURE RESISTANT GYPSUM BOARD CEILING-PAINT
- STUCCO FINISH-PAINT
- SMOKE DETECTOR SYMBOL
- LIGHT FIXTURE-SEE ELECTRICAL DRAWINGS.

FIRST FLOOR REFLECTED CEILING PLAN 1
A104

CEILING PLAN NOTE

- 1) ALL SUSPENDED CEILING SHALL BE -
-INSTALLED AT +2.55 m
FROM FINISHED FLOOR LEVEL, U.N.O.
- 2) ALL CEILING SHALL BE INSTALLED TO MEET
CISCA REQUIREMENTS FOR SEISMIC DESIGN.
- 3) SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.



DESIGNED	DATE	REVISY DATE	BY	DESCRIPTION
JOE, NOCHMAN	17, DEC, 2010		SUBIAPP	
DRAWN				
F. ZADRAN				
CHECKED				
JOE, NOCHMAN				
IN CHARGE				
D. WHEELER				

AFGHAN NATIONAL ARMY
NEW COURTHOUSE
FOR CAMP SHORAB RSC_SW
FIRST FLOOR
REFLECTED CEILING PLAN

SCALE
AS SHOWN

PROJECT NO.
04.AA.01401

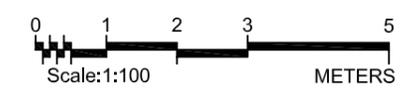
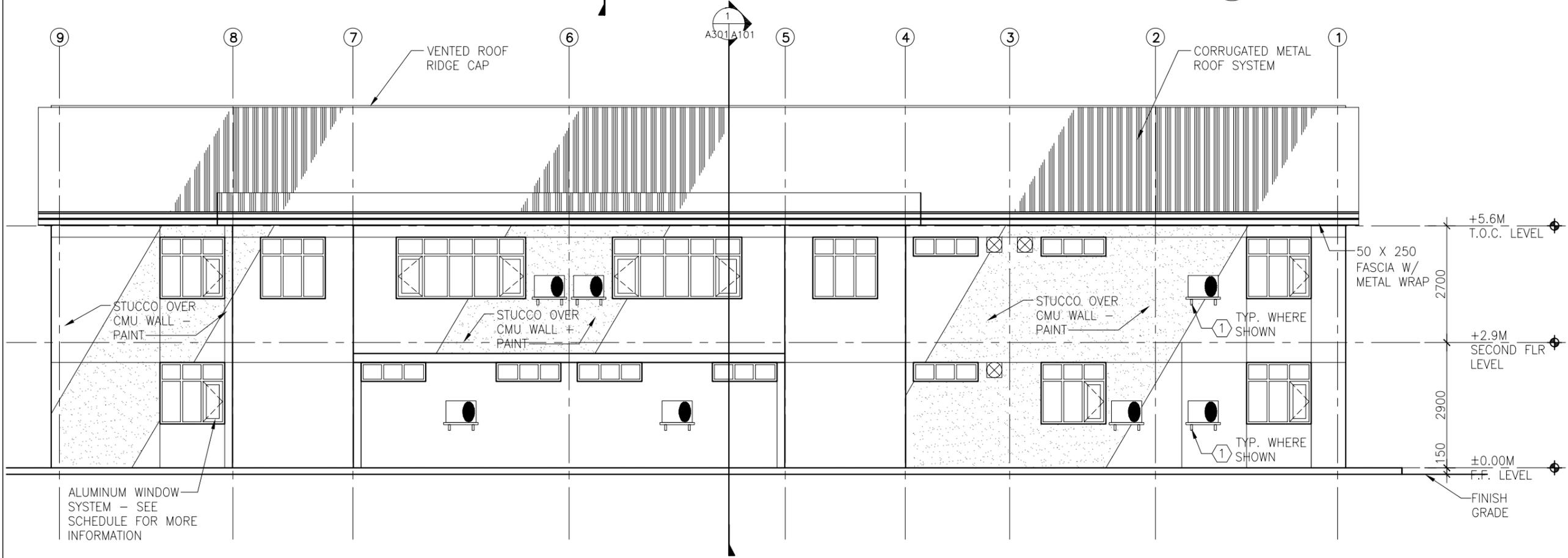
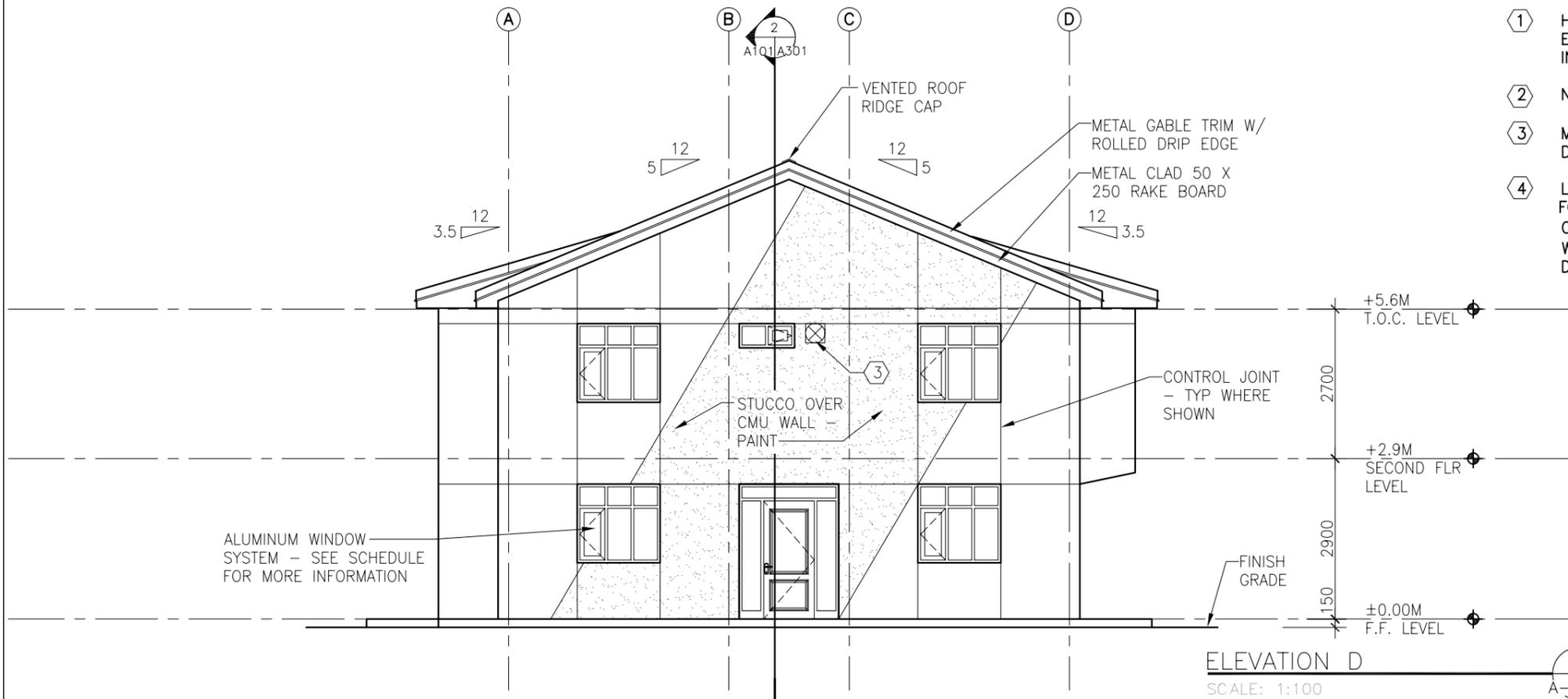
A-104



FOR BIDDING PURPOSES ONLY

KEY NOTES: (APPLICABLE TO THIS SHEET ONLY)

- ① HVAC EQUIPMENT – SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- ② NOT USED
- ③ MECH. VENT / LOUVER – SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.
- ④ LIGHT FIXTURE—SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION. LOCATE 610 mm O/C FROM LATCH SIDE OF DOOR, ALIGNED W/ TOP EDGE OF DOOR FRAME OR AS DIMENSIONED.



DESIGNED	DRAWN	CHECKED	IN CHARGE	DATE	REVISION	DESCRIPTION
JOE NOCHMAN	JOE NOCHMAN	JOE NOCHMAN	D. WHEELER	17, DEC. 2010		
AFGHAN NATIONAL ARMY						
NEW COURTHOUSE						
FOR CAMP SHORAB RSC_SW						
ELEVATIONS						

SCALE AS SHOWN

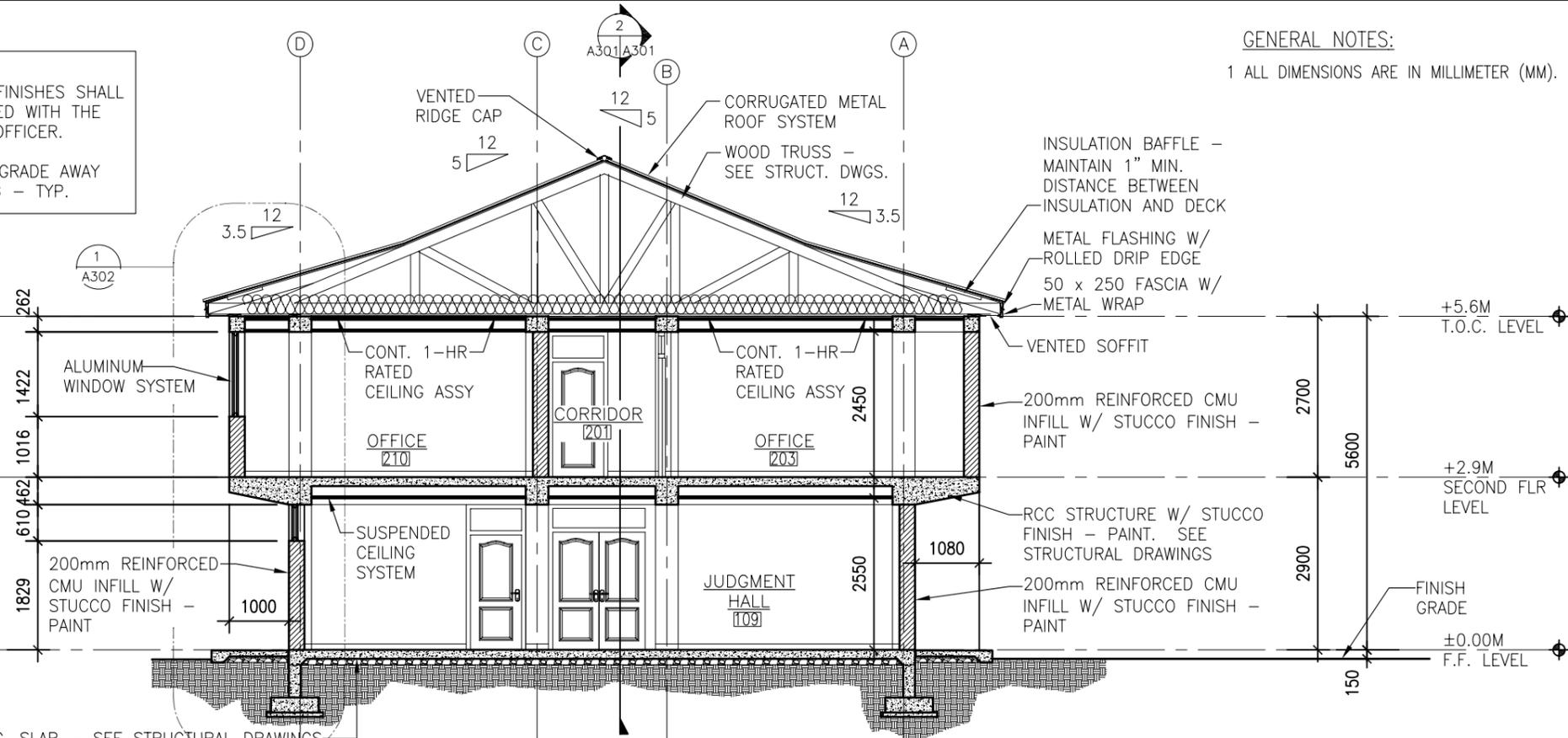
PROJECT NO. 04.AA.01401

A-202

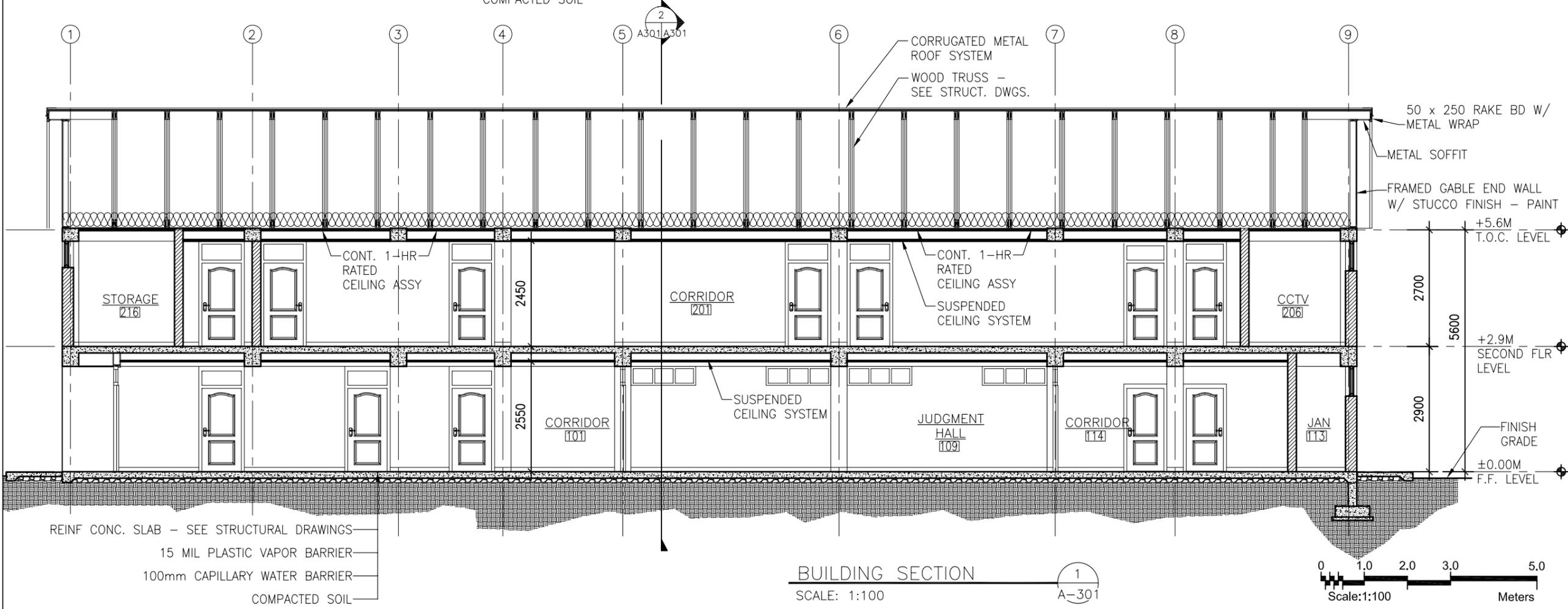
NOTE:
ALL INTERIOR FINISHES SHALL BE COORDINATED WITH THE CONTRACTING OFFICER.

SLOPE FINISH GRADE AWAY FROM BUILDING - TYP.

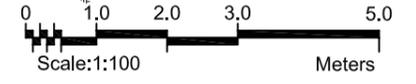
GENERAL NOTES:
1 ALL DIMENSIONS ARE IN MILLIMETER (MM).



BUILDING SECTION
SCALE: 1:100
A-301



BUILDING SECTION
SCALE: 1:100
A-301

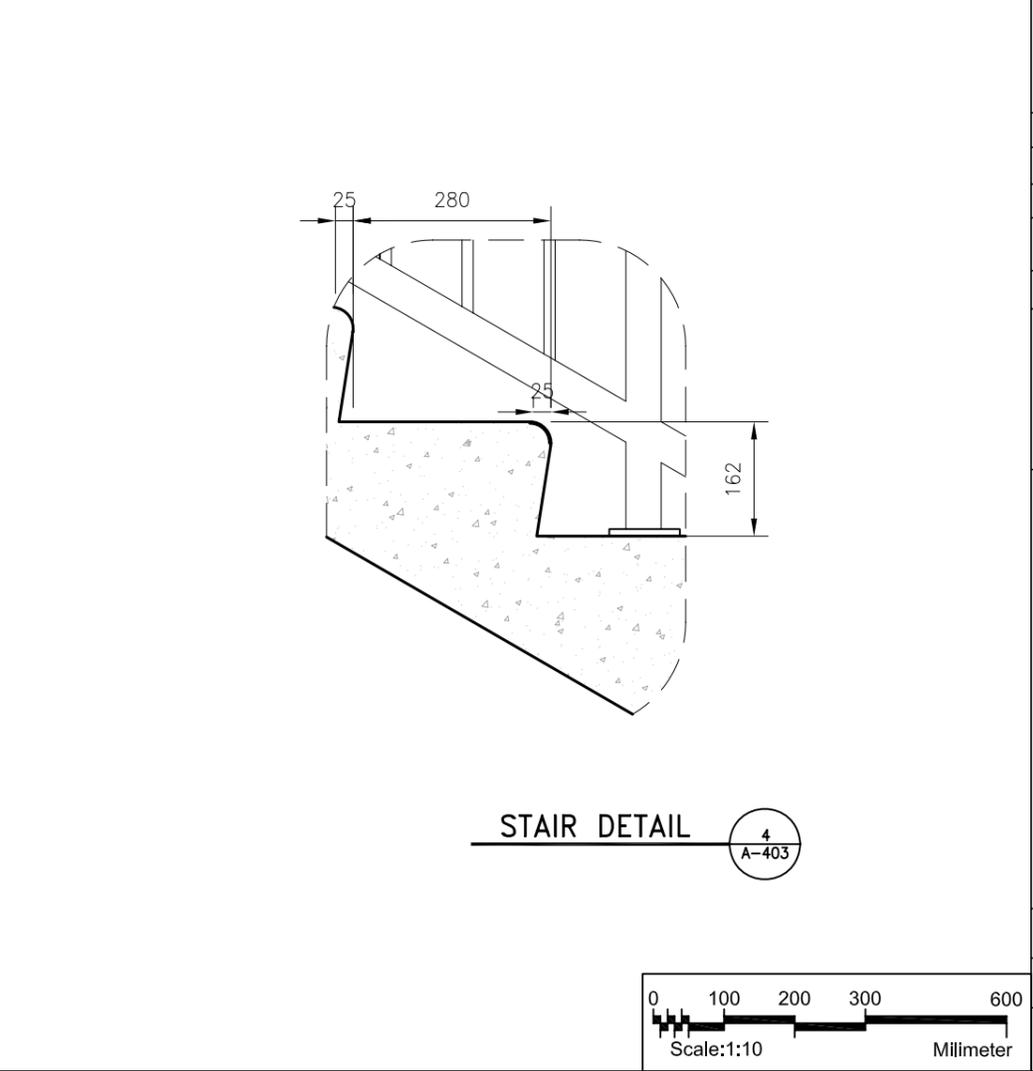
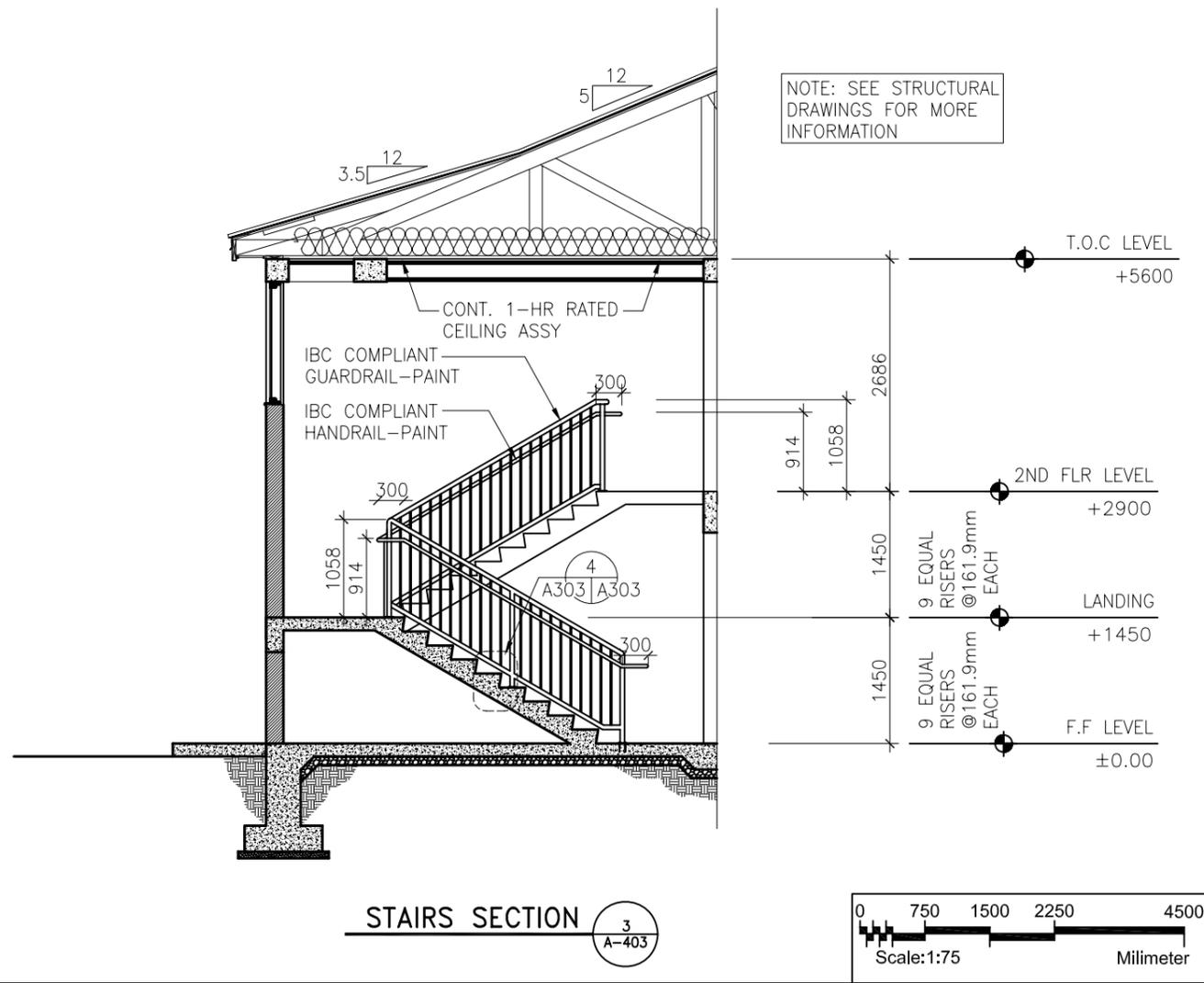
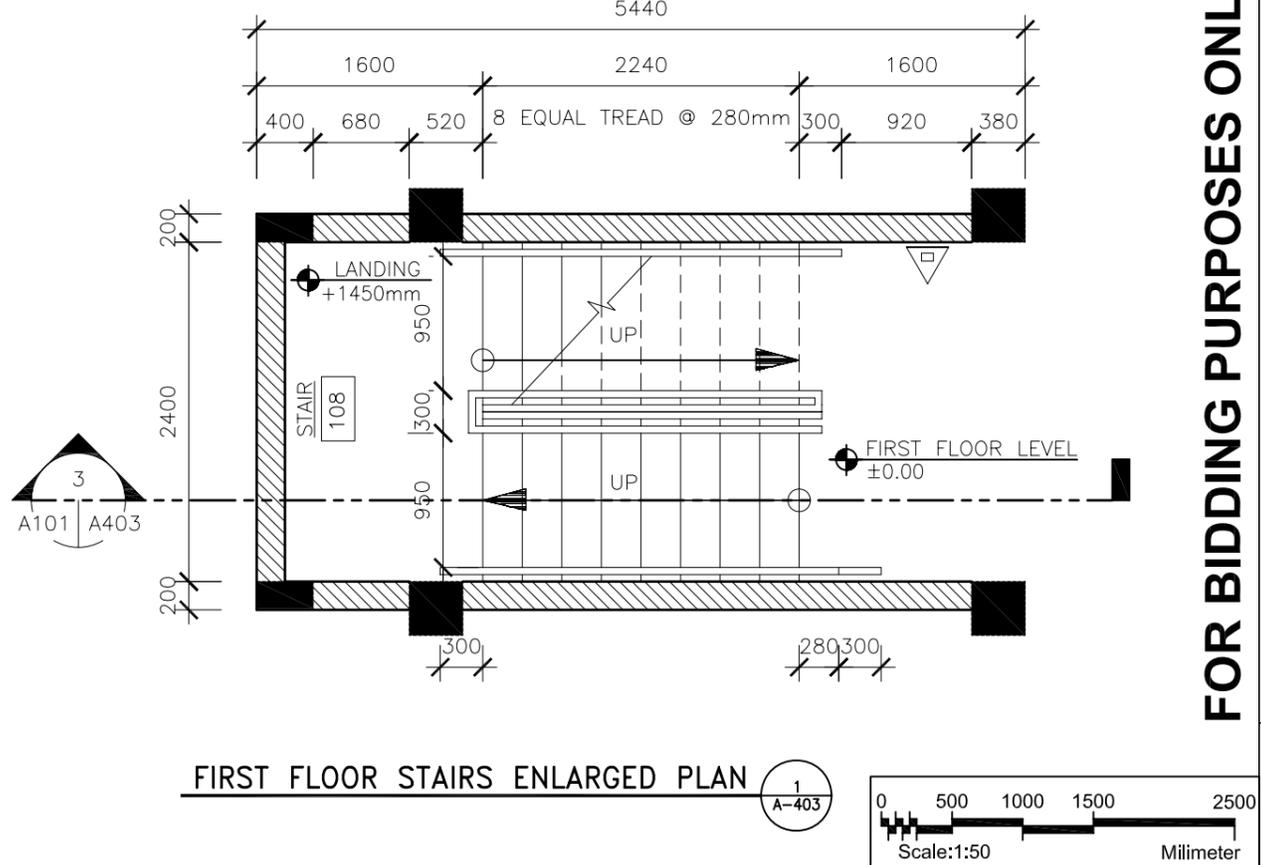
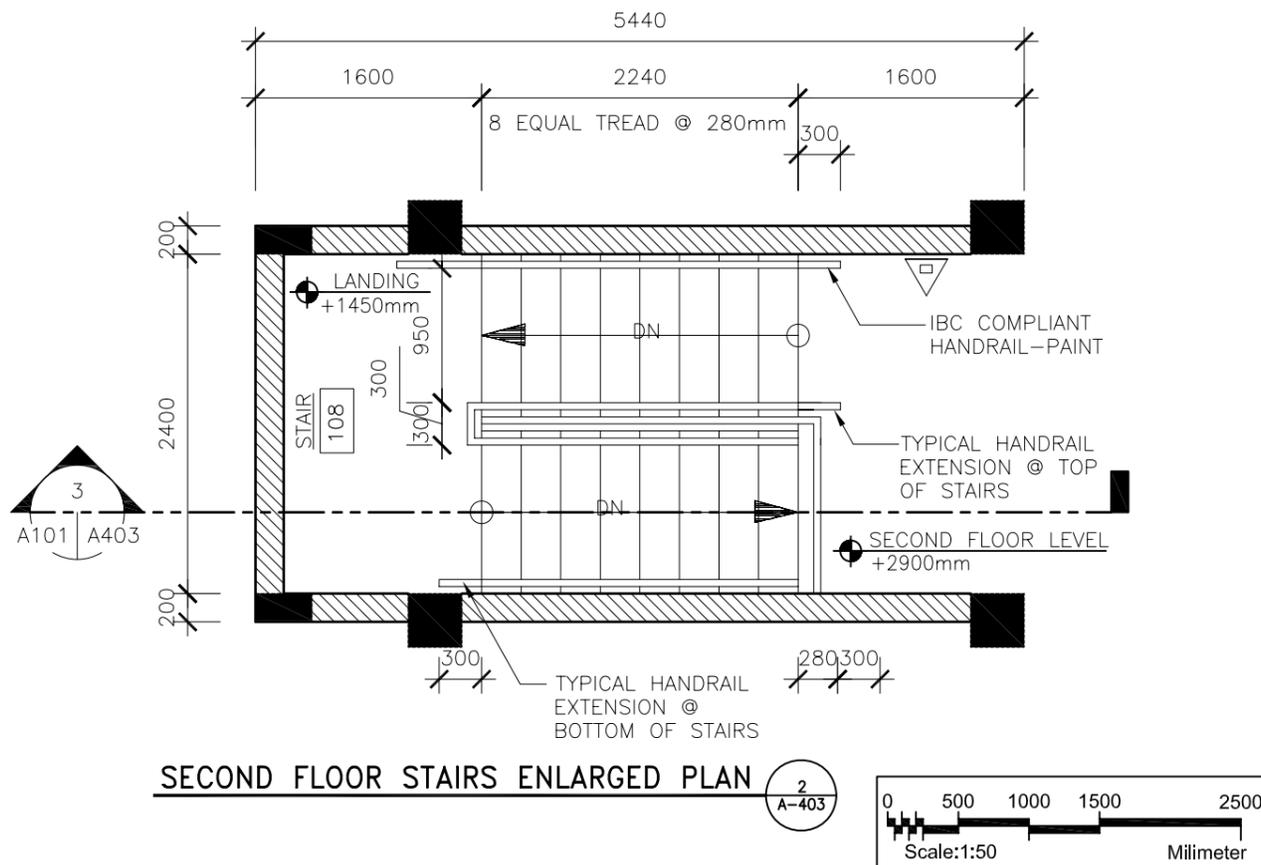


FOR BIDDING PURPOSES ONLY



DESIGNED	DRAWN	CHECKED	IN CHARGE	DATE	REVISION	DESCRIPTION
JOE NOCHMAN	JOE NOCHMAN	JOE NOCHMAN	JOE NOCHMAN	17, DEC, 2010		
AFGHAN NATIONAL ARMY NEW COURTHOUSE FOR CAMP SHORAB RSC_SW						BUILDING SECTIONS
SCALE 1:100						
PROJECT NO. 04.AA.01401						
A-301						

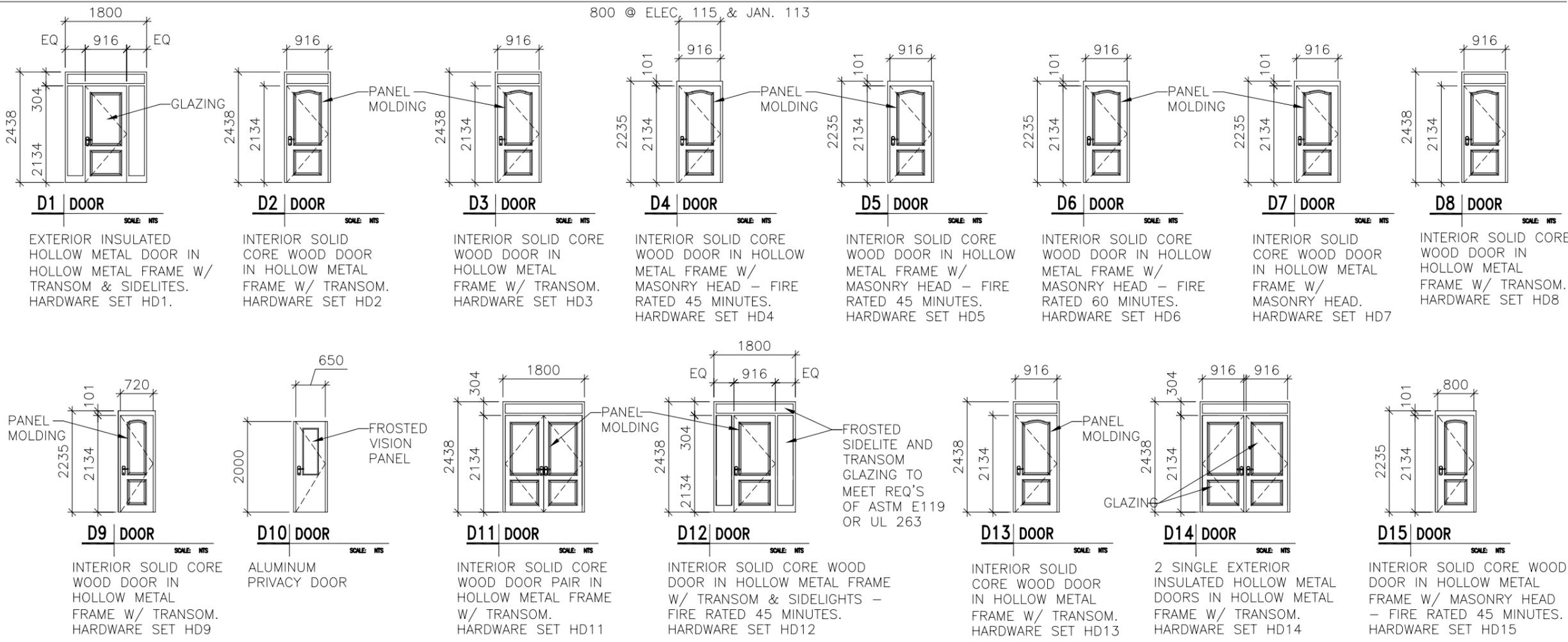
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FOR BIDDING PURPOSES ONLY



DESIGNED	DRAWN	CHECKED	IN CHARGE	DATE	REVISION	DESCRIPTION
				17, DEC. 2010		
AFGHAN NATIONAL ARMY						
NEW COURTHOUSE						
FOR CAMP SHORAB RSC_SW						
STAIR PLANS - SECTION AND DETAILS						
SCALE AS SHOWN						
PROJECT NO. 04.AA.01401						
A-403						



DOOR AND HARDWARE NOTES:

1. INTERIOR AND EXTERIOR METAL DOORS AND FRAMES SHALL BE PRIMED AND PAINTED. COLORS SHALL BE AS SELECTED BY THE CONTRACTING OFFICER.
2. FRAMES, EXCEPT FIRE-RATED FRAMES, SHALL BE MOUNTED AND ADJUSTED IN ACCORDANCE WITH MANUFACTURES INSTRUCTIONS, FRAMES SHALL BE FASTENED WITH MINIMUM OF THREE ANCHORS PER JAMB AT EQUAL INTERVALS.
3. HEIGHT OF 2134 mm STANDARD FOR ALL PERSONNEL DOORS, CONTRACTOR SHALL COORDINATE WITH DOOR SUPPLIER TO ENSURE THAT DIMENSIONS OF DOORS AND FRAMES PROVIDED ARE COMPATIBLE WITH DOOR OPENING DIMENSIONS.
4. HARDWARE SHALL BE HEAVY DUTY, COMMERCIAL GRADE, STAINLESS STEEL WITH SATIN OR BRUSHED FINISH.
5. CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS AND CONDITIONS IN FIELD PRIOR TO FABRICATION AND INSTALLATION.
6. CONTRACTOR SHALL COORDINATE ALL FRAME DEPTHS AND TYPES WITH THE WALL TYPES AND THICKNESS IN WHICH THEY ARE TO BE INSTALLED.
7. ALL WOOD DOORS SHALL BE FACTORY STAINED. COLOR SHALL BE AS SELECTED BY THE CONTRACTING OFFICER.
8. ALL GLAZING SHALL BE 5mm ACRYLIC, UNLESS NOTED OTHERWISE.
9. SEE FLOOR PLANS FOR DOOR HANDINGS.
10. LOCKSET FUNCTIONS SHALL BE REVIEWED AND APPROVED BY THE CONTRACTING OFFICER.

HD NO.	DOOR HARDWARE SCHEDULE
HD1	HINGES, CLOSER, LATCH, PULL HANDLE, THRESHOLD, WEATHER STRIPPING. LOCKSET ANSI F04, PANIC HARDWARE.
HD2	HINGES, LATCH, DOORSTOPS, SILENCERS, LEVER HANDLES, LOCKSET ANSI F04.
HD3	HINGES, CLOSER, DOORSTOPS, SILENCERS, PUSH PLATE, PULL HANDLE.
HD4	HINGES, CLOSER, LATCH, DOORSTOPS, SILENCERS, SMOKE GASKETS, LEVER HANDLES, LOCKSET ANSI F07
HD5	HINGES, CLOSER, LATCH, DOORSTOPS, SILENCERS, SMOKE GASKETS, LEVER HANDLES, LOCKSET ANSI F01
HD6	HINGES, CLOSER, LATCH, DOORSTOPS, SILENCERS, SMOKE GASKETS, LEVER HANDLES, PANIC HARDWARE
HD7	HINGES, LATCH, DOORSTOPS, SILENCERS, LEVER HANDLES, LOCKSET ANSI F07
HD8	HINGES, LATCH, DOORSTOPS, SILENCERS, LEVER HANDLES, LOCKSET ANSI F01
HD9	HINGES, LATCH, DOORSTOPS, SILENCERS, LEVER HANDLES, LOCKSET ANSI F22
HD10	PER MANUFACTURER
HD11	HINGES, LATCH, SILENCERS, LEVER HANDLES, LOCKSET ANSI F01
HD12	HINGES, CLOSER, LATCH, DOORSTOPS, SILENCERS, SMOKE GASKETS, LEVER HANDLES, PANIC HARDWARE
HD13	HINGES, CLOSER, LATCH, SILENCERS, LEVER HANDLES, PANIC HARDWARE
HD14	HINGES, CLOSER, LATCH, DOOR STOPS, LEVER HANDLE, THRESHOLD, WEATHER STRIPPING. LOCKSET ANSI F04, PANIC HARDWARE.
HD15	HINGES, CLOSER, LATCH, DOORSTOPS, SILENCERS, SMOKE GASKETS, LEVER HANDLES, LOCKSET ANSI F22

FOR BIDDING PURPOSES ONLY



DESIGNED P. HOPE	WAHIDULLAH	JOE NOCHMAN	D. WHEELER	17, DEC. 2010	REVISION
DRAWN	CHECKED	IN CHARGE	DATE		
AFGHAN NATIONAL ARMY	NEW COURTHOUSE	FOR CAMP SHORAB RSC_SW	DOOR SCHEDULE		
SCALE AS SHOWN				PROJECT NO. 04.AA.01401	
A-602					

STRUCTURAL DESIGN CRITERIA

ALL DESIGNS SHALL CONFORM TO THE PROVISIONS OF THE IBC 2009 AS APPLICABLE

1.0 DESIGN LOADS

1.1 DEAD LOADS

DESIGN LOADS SHOWN SHALL BE USED ONLY AS A GUIDE FOR DESKING AND DO NOT CONSTITUTE THE ACTUAL DESIGN DEAD LOAD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUMMARIZING THE APPLIED DEAD LOAD TO THE STRUCTURE.

1.1.1 FLOOR DEAD LOADS CMU BUILDING:

(2) 1.2X12 @12" WOOD JOIST	0.77 KPa
1/2" CERAMIC TILE	0.77 KPa
1" GYPSUM CEILING FIN.	0.21 KPa
MEP	0.19 KPa
LIGHTS	0.096 KPa

1.1.2 ROOF DEAD LOADS -CMU BUILDING:

WOOD TRUSS	0.38 KPa
3/4" PLYWOOD SHEATHING	0.11 KPa
1" GYP. CEILING FINISH	0.11 KPa
FIRRING CHANNELS	0.10 KPa
22 Ga. METAL DECK	0.14 KPa
MISC. BLOCKING	0.10 KPa
LIGHTS	0.10 KPa
MEP	0.19 KPa

1.2.1 LIVE LOADS (PER IBC 2009)

1.2.2 ROOF LIVE LOADS: ALL BUILDINGS

GREATER OF 1.0 KPa MINIMUM OR SNOW LOAD

1.2.3 ROOF LIVE LOADS: ALL BUILDINGS

ELEVATED 1st FLOOR 4.80 KPa TABLE B-1 UFC 3-310
ELEVATED 2cd FLOOR 4.80 KPa TABLE B-1 UFC 3-310

1.2.4 ROOF:

LIVE LOAD 0.96 KPa TABLE 4-1 ASEC 7-05

1.3 SNOW LOADS (PER IBC 2009)

1.3.1 DESIGN PARAMETERS

GROUND SNOW LOAD (per UFC 3-310-01)	Pg=1.96 KPa	KABUL POLYTECHNIC UNIVERSITY
FLAT ROOF SNOW LOAD , Pf	13.25	ASCE 7-05, Eq 7-1
EXPOSURE FACTOR, Ce	0.9	ASCE 7-05, TABLE 7-2
THERMAL FACTOR, Ct	1.0	ASCE 7-05, TABLE 7-3
IMPORTANCE FACTOR, I	1.0	UFC 3-310-01, TABLE 1
BUILDING CATEGORY	II	UFC 3-310-01, TABLE 1

1.4 SEISMIC LOADS (PER IBC 2009 & UFC 3-310-04)

THE SEISMIC BASE SHEAR & SEISMIC DESIGN ANALYSIS SHALL BE DETERMINED USING THE FOLLOWING PARAMETERS:

1.4.1 SEISMIC PARAMETERS - PRE-ENGINEERED BUILDINGS

SEISMIC OCCUPANCY CATEGORY	II	UFC 3-310-01, TABLE 2.2
SEISMIC IMPORTANCE FACTOR (I)	1.0	UFC 3-310-01, TABLE 2.2
SEISMIC SITE CLASS	D	ASCE 7-05, SECTION 11.4-2
DESIGN RESPONSE COEFFICIENT Ss	0.12	UFC 3-310-01, TABLE 2.2
DESIGN RESPONSE COEFFICIENT S	0.06	UFC 3-310-01, TABLE 2.2
SEISMIC DESIGN CATEGORY	E	
SEISMIC RESISTING SYSTEM	SPECIAL REINFORCED MASONRY SHEAR WALL	TABLE 12.2-1 ASEC 7-05
RESPONSE MODIFICATION FACTOR (R)	5	ASCE 7-05, TABLE 12.2-1
SPECTRAL RESPONSE COEFFICIENT Sps	0.13	ASCE 7-05, Eq.11.4-3
SPECTRAL RESPONSE COEFFICIENT Sps	0.10	ASCE 7-05, Eq.11.4-4
SEISMIC ANALYSIS PROCEDURE (EQUIVALENT LATERAL FORCE)		

1.5 WIND LOADS (PER IBC 2009)

THE MAIN-WIND FORCE RESISTING SYSTEM SHALL BE DETERMINED USING THE FOLLOWING DESIGN PARAMETERS.

1.5.1 DESIGN PARAMETERS

BASIC WIND SPEED	137 Km/h (85 MPH)
WIND IMPORTANCE FACTOR	1.0
WIND EXPOSURE CATEGORY	C
DIRECTIONALITY COEFFICIENT (Kd)	0.85
TOPOGRAPHIC FACTOR (Kzt)	1.0
INTERNAL PRESSURE COEFFICIENT -Gcpi	± 0.18 FIG. 6-5 ASCE 7-05

1.5.2 DESIGN WIND PRESSURE - MAIN WINDFORCE RESISTING SYSTEM

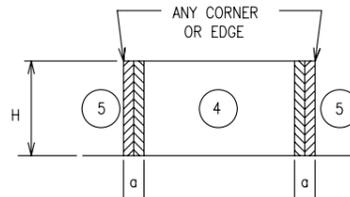
LOCATION	CORNER ZONE WIDTH "a"	MEAN ROOF HEIGHT (h)	WINDWARD WALL (@ MEAN ROOF HEIGHT)	LEEWARD WALL (@ MEAN ROOF HEIGHT)	ROOF
FIELD ZONE	N/A	6630mm	555.8 N/m ²	-200 N/m ²	-620.5 N/m ²
CORNER ZONE	920mm	6630mm	834 N/m ²	-344.7 N/m ²	-892 N/m ²

a = 10% OF LEAST HORIZONTAL DIMENSION OR 0.4h, WHICHEVER IS SMALLER, BUT NOT LESS THAN EITHER 4% OF LEAST HORIZONTAL DIMENSION OR 0.9M.
h = MEAN ROOF HIEGHT, IN METERS, EXCEPT THAT EAVE HIEGHT SHALL BE USED FOR ANGLE GREATER THAN 10'.

1.5.3 DESIGN WIND PRESSURE - WALL COMPONENTS AND CLADDING

ARCHITECTURAL & OTHER ELEMENTS SHALL BE DESIGNED USING THE FOLLOWING COMPONENTS & CLADDING LOADS.

EXTERIOR WALL SYSTEMS & THEIR ATTACHMENTS TO THE PRIMARY STRUCTURE SHALL BE DESIGNED FOR THE PRESSURES SHOWN IN THE DIAGRAM BELOW:



LOCATION	WINDWARD PRESSURE N/m ² (inward)		LEEWARD PRESSURE N/m ² (outward)		a
	④	⑤	④	⑤	
MAIN BUILDING					(mm)
AREA = 1 m ²	839	839	-910	-1122	920
AREA = 2 m ²	800	800	-871	-1045	920
AREA = 5 m ²	789	789	-820	-949	920
AREA = 10 m ²	716	716	-787	-871	920

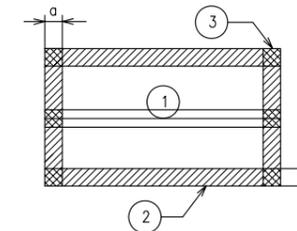
NOTES:

- DESIGN WIND PRESSURES ABOVE REPRESENT THE NET PRESSURE (SUM OF INTERNAL AND EXTERNAL PRESSURE) APPLIED NORMAL TO ALL SURFACES.
- LINEAR INTERPOLATION BETWEEN VALUES OF TRIBUTARY AREA IS PERMISSIBLE.
- PLUS AND MINUS SIGNS SIGNIFY PRESSURE TOWARD AND AWAY FROM THE EXTERIOR SURFACE, RESPECTIVELY.

1.5 WIND LOADS (CONT)

1.5.4 DESIGN WIND PRESSURE - ROOF COMPONENTS AND CLADDING

ROOF COMPONENTS & THEIR ATTACHMENTS SHALL BE DESIGNED FOR THE PRESSURES SHOWN IN THE ADJACENT DIAGRAM & TABLE BELOW:



ROOF MEAN HEIGHT

LOCATION	GROSS UPLIFT PRESSURE N/m ² (upward)						a
	①	②	③	④	⑤	⑥	
MAIN BUILDING							(mm)
AREA = 1 m ²	485	-769	485	-1338	485	-1978	920
AREA = 2 m ²	440	-750	440	-1228	440	-1849	920
AREA = 5 m ²	388	-717	388	-1092	388	-1681	920
AREA = 10 m ²	343	-698	343	-982	343	-1551	920

NOTES:

- DESIGN WIND PRESSURES ABOVE REPRESENT THE NET PRESSURE (SUM OF INTERNAL AND EXTERNAL PRESSURE) APPLIED NORMAL TO ALL SURFACES.
- LINEAR INTERPOLATION BETWEEN VALUES OF TRIBUTARY AREA IS PERMISSIBLE.
- PLUS AND MINUS SIGNS SIGNIFY PRESSURE TOWARD AND AWAY FROM THE EXTERIOR SURFACE, RESPECTIVELY.

2.0 FOUNDATION DESIGN CRITERIA (TO BE CONFIRMED BY THE CONTRACTOR)

THE GEOTECHNICAL ANALYSIS FOR THIS PROJECT IS THE RESPONSIBILITY OF THE CONTRACTOR AWARDED THE WORK. DESIGN VALUES USED IN THE STRUCTURAL ANALYSIS OF THE BUILDINGS HEREIN INDICATED SHALL BE CONFIRMED AND VERIFIED AS PART OF THE GEOTECHNICAL INVESTIGATION. VALUES WHICH DO NOT MEET THE REQUIREMENTS INDICATED BELOW SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CONTRACTING OFFICER FOR CONSIDERATION AND DETERMINATION ON THE NEXT APPROPRIATE COURSE OF ACTION.

2.1.1 SOIL DESIGN PARAMETERS

NET ALLOWABLE SOIL BEARING CAPACITY	0.73 KG/cm ²
UNIT WEIGHT OF SOIL (moist)	2000 Kg/m ³
COEFF ACTIVE EARTH PRESSURE (Kpa)	0.30
COEFF PASSIVE EARTH PRESSURE (Kpp)	3.0
COEFF AT-REST EARTH PRESSURE (Kpr)	.5
COEFF OF SOIL FRICTION	.33
SUBGRADE MODULUS	4120 g/m ³
MINIMUM BEARING DEPTH BELOW GRADE	800mm
SEISMIC SITE CLASS (based on in-situ soil)	D

FOR BIDDING PURPOSES ONLY



DESIGNED	V. STEIGMEIER	DATE	17. DEC. 2010
DRAWN	A. AHMAD	REVISION	
CHECKED	V. STEIGMEIER	BY	ISUBIAPP
IN CHARGE	D. WHEELER		

AFGHAN NATIONAL ARMY	NEW COURTHOUSE FOR CAMP SHORAB RSC_SW	GENERAL STRUCTURAL NOTES
SCALE: NTS		
PROJECT NO: 04.AA.01401		
S-002		

MINIMUM LAP SPLICES OF REINFORCING BARS IN TENSION (PER ACI 318M-05)

f'c = 21 MPa CONCRETE			
BAR SIZE	CENTER TO CENTER BAR SPACING	(---TOP BARS---)	(--OTHER BARS--)
			4db
#10		704	543
#12		935	716
#16		1,178	912
#19		1,697	1,293
#22		2,263	1,732
#25		2,991	2,286
#29		3,787	2,898
#32		4,780	3,695
#36		5,866	4,515

NOTES:

- LAP SPLICES ABOVE ARE IN MILLIMETERS UON.
- YIELD STRENGTH OF REINFORCEMENT, fy, IS 420MPa (LAP SPLICE LENGTH IS IN MILLIMETERS).
- CONCRETE IS NORMAL WEIGHT (2400Kg/m³).
- TOP BAR INDICATES HORIZONTAL REINFORCEMENT WHICH IS PLACED ABOVE 300mm OR MORE OF FRESH CONCRETE.
- SEE COLUMN SCHEDULE FOR COLUMN AND SHEAR WALL VERTICAL LAP SPLICE.
- STRAIGHT DEVELOPMENT LENGTH OF AN UNLAPPED BAR IS EQUAL TO VALUE FROM TABLE DIVIDED BY 1.3.
- LAP SPLICE DIMENSIONS BASED ON CR51 CATEGORY 5 AND ACI 318M-05 CLASS B.

STEEL MATERIALS SCHEDULE

STRUCTURAL ELEMENT	FY YIELD STRENGTH (MPa)	REMARKS
WIDE FLANGE; ROLLED SHAPES; ANGLES; CHANNELS	350	ASTM A992 GRADE 50
CONNECTIONS, PLATES, & ALL OTHERS	250	ASTM A36M ASTM A6M
ANCHOR BOLTS	250	ASTM A36M or A307M ASTM A6M
PIPES	245	ASTM A53-95 GRADE B ASTM A6M
TUBING	290	ASTM A500-93 GRADE C ASTM A6M
HIGH STRENGTH BOLTS	Fe=310	ASTM A325M-N
WELDING ELECTRODES	240	AWS D1.1-90 E70xx

CONCRETE COVER SCHEDULE

MINIMUM CONCRETE COVER PROTECTION FOR REINFORCEMENT BARS SHALL BE AS FOLLOWS: (SEE ACI 318M-05, SECTION 7.7 FOR CONDITIONS NOT NOTED). DIMENSIONS FOR BAR PLACEMENT GIVEN IN SECTIONS AND DETAILS SHALL SUPERSEDE MINIMUM COVER REQUIREMENTS GIVEN HERE. DIMENSIONS ARE IN mm.

FOOTINGS (EARTH FORMED)	75
COLUMNS / PIERS (TO TIES)	40
GRADE BEAMS OR SLAB TURNED DOWN EDGES:	
TOP	40
BOTTOM (EARTH FORMED)	75
SIDES (EARTH FORMED)	75
SIDES (BOARD FORMED)	40
#16 BAR & SMALLER	40
#19 THRU #36 BAR	50
ELEVATED BEAMS & SLABS:	
BEAM TIES & STIRRUPS (NOT EXPOSED TO WEATHER)	40
BEAM TIES & STIRRUPS (EXPOSED TO WEATHER)	50
FLOOR SLABS (NOT EXPOSED TO WEATHER)	20
FLOOR SLABS (EXPOSED TO WEATHER)	
#19 & LARGER	50
#16 & SMALLER	40
ROOF SLAB BARS	40
SLABS-ON-GRADE (NO EXPOSURE TO WEATHER) FROM TOP	20
SLABS-ON-GRADE (EXPOSURE TO WEATHER) FROM TOP	40
UTILITY TUNNEL WALLS, RETAINING WALLS AND SHEAR WALLS, (NO SURFACES SHALL BE EARTH FORMED)	
EARTH SIDE AND FRONT SIDE (EXPOSED TO WEATHER):	
#16 BAR AND SMALLER	40
#19 THRU #36 BAR	50
PROVIDE STANDARD BAR CHAIRS AND SPACERS AS REQUIRED TO MAINTAIN CONCRETE PROTECTION SPECIFIED.	

CONCRETE MATERIALS SCHEDULE

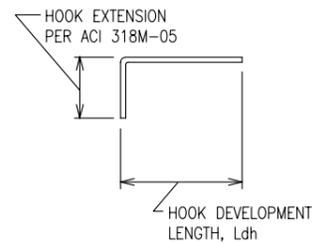
STRUCTURAL ELEMENT	f'c CONCRETE COMPRESSIVE STRENGTH @ 28 DAYS (MPa)
SLAB-ON-GRADE/TURN-DOWN SLABS	21
ROOF AND FLOOR SLABS	21
ALL FOOTINGS (UON)	21
MISC. CURBS, WALLS AND PADS UON	21
CAST-IN-PLACE LINTEL	21
CONCRETE FRAMING - BEAMS AND COLUMNS	21

NOTES:

- ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE (2400 Kg/m³ UON)
- ALL CONCRETE SHALL HAVE A MAX WATER-CEMENT RATIO OF 0.45.

STANDARD HOOKS IN TENSION PER (ACI 318M-05)

HOOK DEVELOPMENT LENGTH Ldh (mm)	
BAR SIZE	f'c 21 MPa
#10	208
#12	289
#16	346
#19	462
#22	497
#25	554
#29	647
#32	716
#36	1,028



NOTES:

- CONCRETE IS NORMAL WEIGHT CONCRETE.
- BAR YIELD STRENGTH, fy = 420 MPa
- SIDE COVER REQUIREMENTS OF ACI SECT. 12.5.3 ARE ASSUMED TO NOT BE MET.
- TIE OR STIRRUP REQUIREMENTS OF ACI SECT. 12.5.3 ARE ASSUMED TO NOT BE MET.
- REDUCTION FOR EXCESS REINFORCEMENT IS NOT TAKEN.
- HOOK DEVELOPMENT LENGTH IS VALID FOR 180° HOOKS ALSO.

FOR BIDDING PURPOSES ONLY



DESIGNED	DRAWN	CHECKED	IN CHARGE	DATE	DESCRIPTION
V. STEGMER	V. STEGMER	A. MAHMOOD	V. STEGMER	17. DEC. 2010	

REVISION	DATE	DESCRIPTION

DESIGNED	V. STEGMER
DRAWN	V. STEGMER
CHECKED	A. MAHMOOD
IN CHARGE	V. STEGMER
DATE	17. DEC. 2010

AFGHAN NATIONAL ARMY	NEW COURTHOUSE FOR CAMP SHORAB RSC_SW	GENERAL STRUCTURAL NOTES (3)
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SCALE	NTS
PROJECT NO.	04.AA.01401

S-003

FOR BIDDING PURPOSES ONLY



CMU LINTEL SCHEDULE						
OPENING TYPE OR SIZE, BEAM LOCATION OR TYPE	MAX SPAN (mm)	BEAM DEPTH (mm)	MAIN REINFORCING			SHEAR REINF STIRRUPS
			TOP	BOTTOM	OTHER	
EXT WALL OPENING, 1-STORY BLDG	1800	400	(2)-#12	(2)-#12		----
EXT WALL OPENING, 1-STORY BLDG	900	200		(2)-#12		----
INT WALL OPENING, NON-BEARING	2400	400		(2)-#12		----
INT WALL OPENING, NON-BEARING	1800	200		(2)-#12		----
INT WALL OPENING, NON-BEARING	900	200		(2)-#12		----
INT WALL OPENING, SHEAR WALL	900	200		(2)-#12		----
INT WALL OPENING, SHEAR WALL	1800	200	(2)-#12	(2)-#12		----
INT WALL OPENING, SHEAR WALL	2400	400	(2)-#16	(2)-#16		#12 @ 300

1. STRUCTURAL SHEETS DO NOT INDICATE ALL OPENINGS IN MASONRY WALLS. VERIFY NUMBER, SIZE AND LOCATION OF ALL OPENINGS IN MASONRY WALLS FROM ARCHITECTURAL SHEETS AND APPROVED PLUMBING, MECHANICAL, AND ELECTRICAL SHOP DRAWINGS.

2. PROVIDE 200mm BEARING EA END FOR 200mm DEEP CMU LINTEL BB PROVIDE 400mm BEARING EA END FOR 400mm DEEP CMU LINTEL BB.

3. FOR HEAD DETAILS REFER TO ARCHITECTURAL SHEETS.

4. REINFORCING SHALL BE ASTM A615M, GRADE 420. CONCRETE FOR CAST-IN-PLACE BEAMS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 28 MPa AT 28 DAYS.

5. CONTRACTOR SHALL SUBMIT FOR APPROVAL SHOP DRAWINGS AND SCHEDULES SHOWING SIZE, DETAILS, LOCATIONS, ETC FOR ALL CAST-IN-PLACE BEAMS IN CMU WALLS.

MAXIMUM CMU WALL UNSUPPORTED HEIGHT OR LENGTH			
	WALL THICKNESS (mm)	EXTERIOR WALL NON-LOAD BEARING (mm)	INTERIOR NON-LOAD BEARING WALL (mm)
MAX HEIGHT OR LENGTH BETWEEN SUPPORTS	200	4800	7200

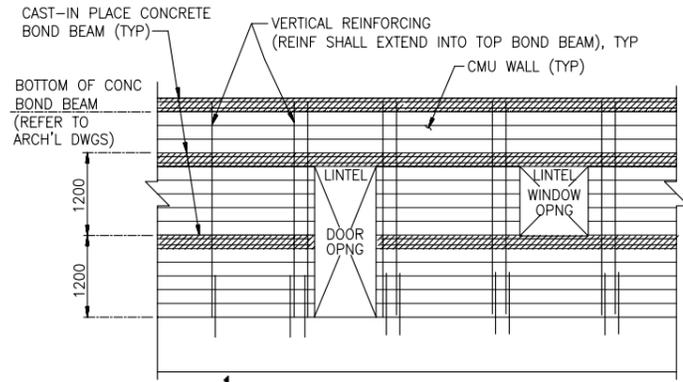
NOTE: CMU WALL MAXIMUM LATERAL SUPPORT SPACING GIVEN IN SECTIONS AND DETAILS SHALL SUPERSEDE THE ABOVE SCHEDULE REQUIREMENTS.

MASONRY REINFORCING MINIMUM LAP SPLICES	
BAR SIZE	BASIC LAP SPLICE Ld FOR CMU REINFORCING
#10	450
#12	600
#16	750
#20	900
#22	1050
#25	1200

TYPICAL CMU WALL REINFORCING SCHEDULE						
WALL TYPE OR LOCATION	WALL THICKNESS (mm)	CONT VERT REINF (CENTERED IN CMU, UON)	CONT CAST IN PLACE BOND BEAM			REMARKS
			DEPTH (mm)	REINF (BOTT UON)	MAX BOND BEAM VERT SPACING(mm)	
ALL PERIMETER/EXTERIOR WALLS (UON)	200	1-#16 @ 800	200	2-#16	1200	----
NON-LOAD BEARING INTERIOR WALLS WITH TOP AND BOTT SUPPORTS	200	1-#12 @ 1200	200	2-#16	1200	----

- NOTES:**
- REINFORCING IN THE ABOVE SCHEDULES SHALL BE USED AS A MINIMUM DESIGN GUIDE ONLY, ALL LINTELS SHOWN SHALL BE SUPERSEDED SHOULD ANALYSIS INDICATE OTHERWISE.
 - PROVIDE CONTINUOUS CAST IN PLACE CONCRETE BOND BEAM AT ALL WALL LATERAL SUPPORT LOCATIONS.
 - REINFORCING INDICATED SHALL BE CONTINUOUS FOR FULL EXTENT OF SPLICE FOLLOWING THE REQUIREMENTS OF THE LAP SPLICE TABLE SHOWN ON THIS SHEET.
 - WALLS HAVE BEEN DESIGNATED AS VERTICALLY SPANNING UON AND THEREFORE MUST BE TEMPORARILY SUPPORTED DURING CONSTRUCTION UNTIL THE SUPPORTING DIAPHRAGMS (FLOOR AND ROOF SYSTEMS) HAVE BEEN COMPLETELY INSTALLED. SHORING IS THE RESPONSIBILITY OF THE CONTRACTOR.
 - ALL CMU WALLS SHALL BE FULLY GROUTED IN LIFTS NOT EXCEEDING THOSE BY CODE (UON)

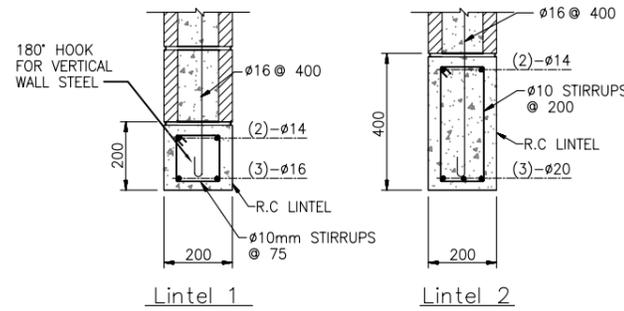
DESIGNED V. STEGMUER	DATE 17 DEC 2010	DESCRIPTION
DRAWN A. AHMAD	REVISION BY	
CHECKED V. STEGMUER	DATE	
IN CHARGE D. WHEELER		
AFGHAN NATIONAL ARMY		
NEW COURTHOUSE		
FOR CAMP SHORAB RSC_SW		
GENERAL STRUCTURAL NOTES (4)		
SCALE	NTS	
PROJECT NO.	04.AA.01401	
S-004		



NOTE:
 CAST-IN-PLACE CONCRETE BOND BEAMS SHALL HAVE A MAXIMUM VERTICAL SPACING OF 1200mm C/C.

TYPICAL DIAGRAMMATIC CMU WALL ELEVATION

1
 S-005



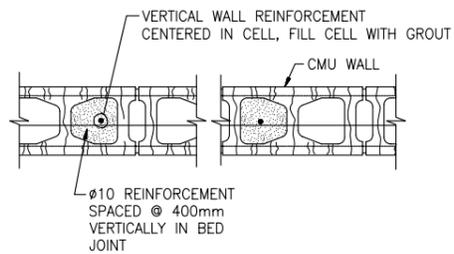
LINTEL SCHEDULE			
Lintel Type	Opening Width	Reinforcement	Lintel Height
Lintel 1	UP TO 2000mm	CAST-IN-PLACE R.C (2)- $\phi 14$ TOP & (3)- $\phi 16$ BOTT	200mm
Lintel 2	2000 TO 3600mm	CAST-IN-PLACE R.C (2)- $\phi 14$ TOP & (3)- $\phi 20$ BOTT	400mm

NOTE: BEARING AT EACH END = 600mm MINIMUM

NOTE: THE CONTRACTOR SHALL VERIFY LINTEL REQUIREMENTS & DESIGNS.
 LINTELS SHOWN ABOVE DESIGN MINIMUM REQUIREMENT.

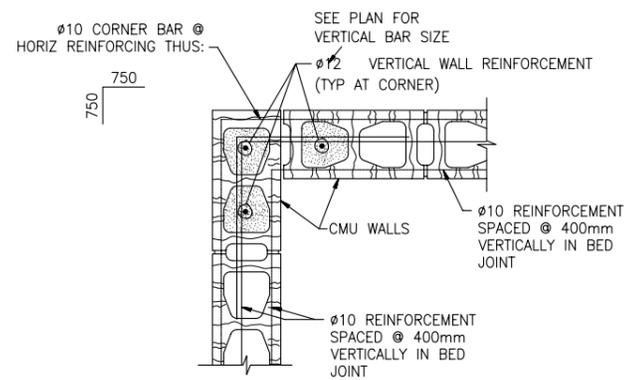
LINTEL REINFORCEMENT SCHEDULE AND SECTIONS

4
 S-005



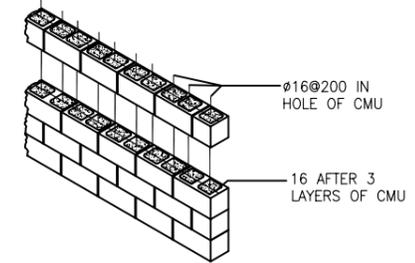
TYPICAL INTERIOR CMU WALL REINFORCEING

2
 S-005



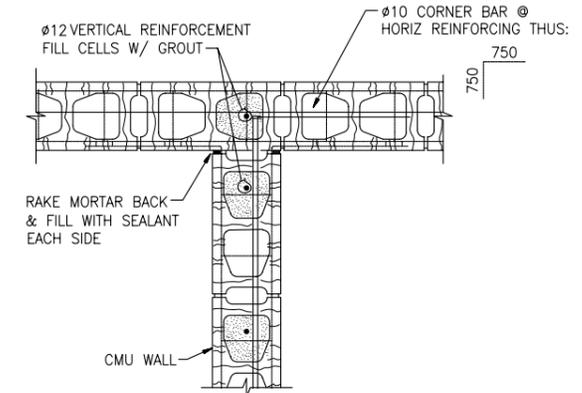
TYPICAL INTERIOR CMU WALL CORNER REINFORCEING DETAIL

5
 S-005



WALL ISOMETRIC

3
 S-005



TYPICAL INTERIOR CMU WALL INTERSECTION

6
 S-005

FOR BIDDING PURPOSES ONLY

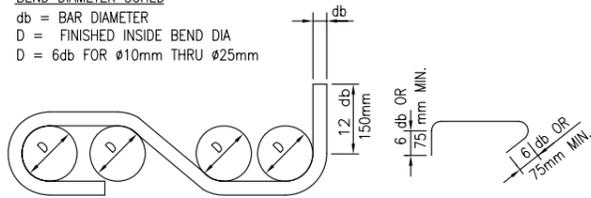


DESIGNED	DRAWN	CHECKED	IN CHARGE	DATE	REV	DATE	DESCRIPTION
V. STEGMER	A. ABDULALHM	P.T. HOPE	D. WHEELER	17 DEC 2010			

AFGHAN NATIONAL ARMY	NEW COURTHOUSE FOR CAMP SHORAB RSC_SW	TYP. DETAILS - 1
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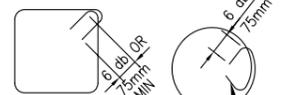
SCALE	NTS
PROJECT NO.	04.AA.01401
S-005	

BEND DIAMETER SCHED
 db = BAR DIAMETER
 D = FINISHED INSIDE BEND DIA
 D = 6db FOR ϕ 10mm THRU ϕ 25mm



STANDARD HOOKS AND BENDS

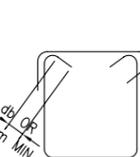
WALL BARS SHALL BE TIED TOGETHER



COLUMN TIES

SPLICES FOR SUCCESSIVE TIES TO BE PLACED AT ALTERNATE CORNERS

SUPPLEMENTARY CROSSTIES (ALTERNATE 90° AND 135° ENDS ON CONSECUTIVE CROSSTIES)



BEAM STIRRUPS

TYP. REINF BAR, BENDS STIRRUPS AND TIES

1
S-006

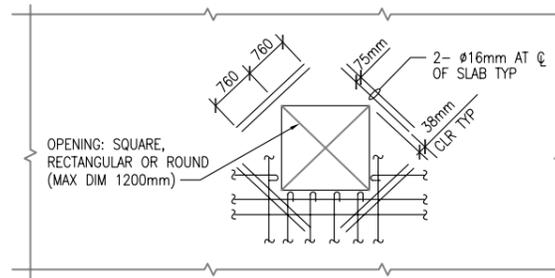


NOTE: $f'c = 21 \text{ MPa}$, $fy = 4200 \text{ kg/sqcm}$

BOTTOM LAYER IN GRADE BEAMS, FOOTINGS, SLABS & VERTICAL WALL BARS					
LENGTH	BAR SIZE	ϕ 10 ϕ 12	ϕ 16	ϕ 22	
"B"		(587)	(762)	(1320)	
"Ld"		(352)	(440)	(762)	
TOP LAYER IN GRADE BEAMS, FOOTINGS & HORIZONTAL WALL BARS (TOP BARS)					
LENGTH	BAR SIZE	ϕ 10 ϕ 12	ϕ 16	ϕ 22	
"B"		(848)	(1,055)	(1,848)	
"Ld"		(499)	(615)	(1,085)	

LAP SPLICE & DEVELOPMENT LENGTH IN CONCRETE

3
S-006



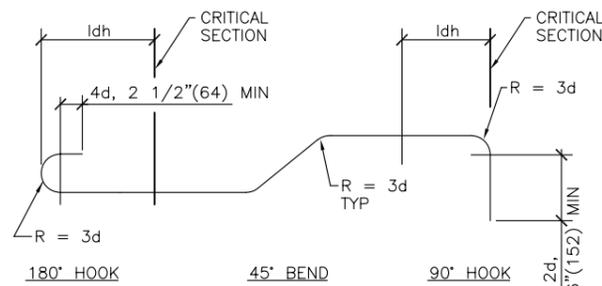
PLAN

NOTES:

- ALL TOP AND BOTTOM SLAB BARS INTERRUPTED BY OPENING SHALL BE REPLACED BY ADDITIONAL REINFORCING EQUAL TO THAT INTERRUPTED. PLACE HALF OF THE ADDITIONAL REINFORCING ON EACH SIDE OF OPENING AND EXTEND SAME LENGTH AS REQUIRED FOR BAR LAP OF INTERRUPTED REINFORCING.
- BOXED OUT OPENINGS, BOXED RECESSES AND PIPE SLEEVE CLUSTERS SHALL BE TREATED AS FRAMED SLAB OPENINGS.

REINFORCING AROUND STRUCTURAL SLAB OPENINGS & RE-ENTRANT CORNERS

1
S-006



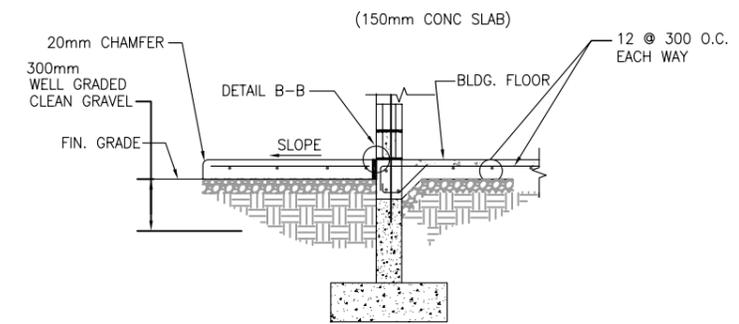
NOTE: "d" = BAR DIAMETER

LEGEND (FOR REINFORCING SHOWN IN PLAN OR ELEVATION)

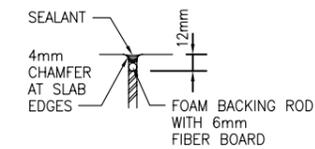
	90° HOOK IN THE PLANE OF THE DRAWING			
	90° BEND PERPENDICULAR TO THE PLANE OF THE DRAWING			
	HOOK PERPENDICULAR TO THE PLANE OF THE DRAWING			
	180° HOOK IN THE PLANE OF THE DRAWING			
	OFFSET IN THE PLANE OF THE DRAWING			
BAR SIZE	ϕ 10	ϕ 12	ϕ 16	ϕ 22
ldh	152	156	195	273

BENDS IN REINFORCING BARS

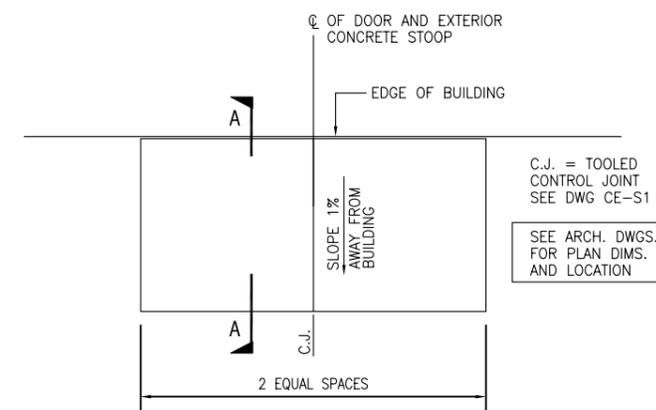
4
S-006



SECTION A-A



SEALANT DETAIL B-B



CONCRETE STOOP

5
S-006

FOR BIDDING PURPOSES ONLY



DESIGNED	DRAWN	CHECKED	IN CHARGE	DATE	REVISION	DESCRIPTION
V. STEGMIR	A. AHMAD	M. GARVER	D. WHEELER	17. DEC. 2010		

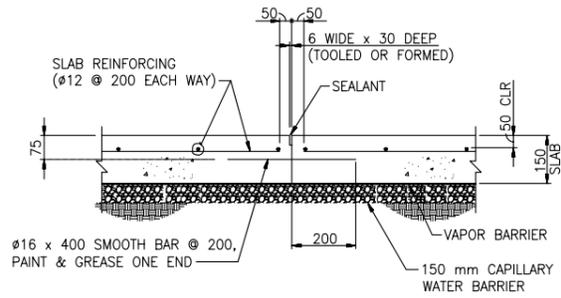
AFGHAN NATIONAL ARMY	NEW COURTHOUSE FOR CAMP SHORAB RSC_SW	GENERAL NOTE 5
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SCALE	NTS
PROJECT NO.	04.AA.01401

S-006

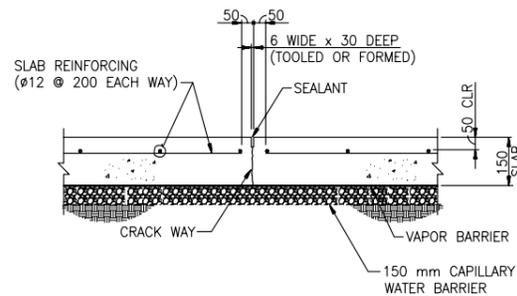
SLAB ON GRADE NOTES:

1. THE SLAB ON GRADE MINIMUM THICKNESS IS 150 mm UNLESS NOTED OTHERWISE.
2. CONTROL JOINT FOR THE SLAB ON GRADE SHALL BE AS SHOWN ON FOUNDATION PLAN.
3. EXPANSION JOINT FOR THE SLAB ON GRADE SHALL BE AS SHOWN ON FOUNDATION PLAN.
4. CONCRETE SLAB ON GRADE SHALL BE PLACED IN A CHECKER BOARD PATTERN. ADJACENT SLABS SHALL BE POURED NO LESS THAN THREE (3) DAYS APART.



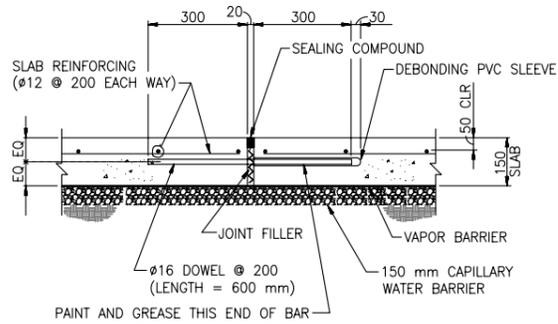
SLAB-ON-GRADE CONSTRUCTION JOINT

1
S-008



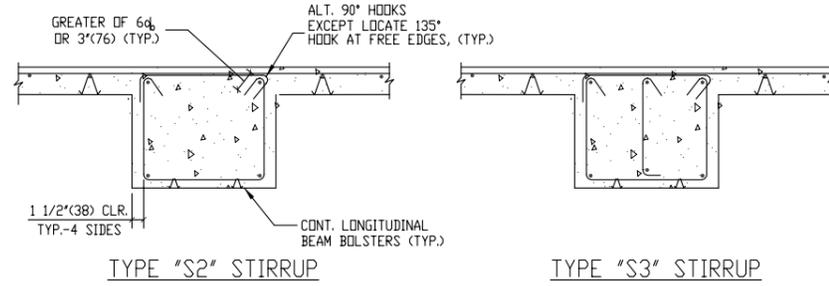
SLAB-ON-GRADE CONTROL JOINT

2
S-008



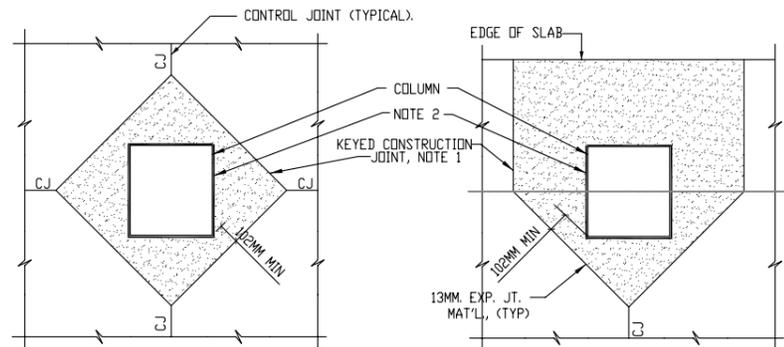
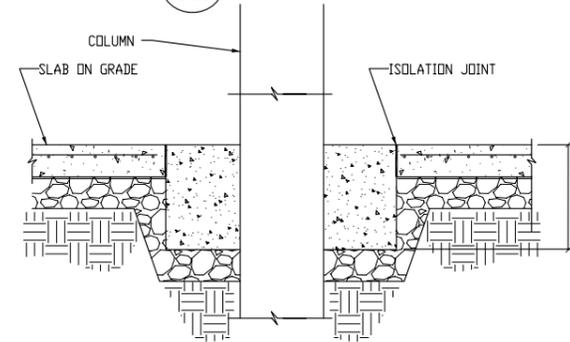
SLAB-ON-GRADE EXPANSION JOINT

3
S-008



TYPICAL BEAM SHEAR REINFORCEMENT

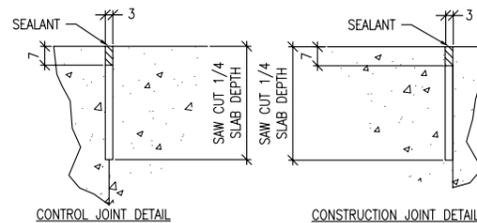
7
S-008



- NOTES: 1. SEE TYPICAL SLAB ON GRADE CONSTRUCTION JOINT FOR ADD'L INFO.
2. AT INTERIOR SLABS PROVIDE 30# ROOFING FELT TYP. AT EXTERIOR SLABS, PROVIDE 13MM EXPANSION JOINT MATERIAL.

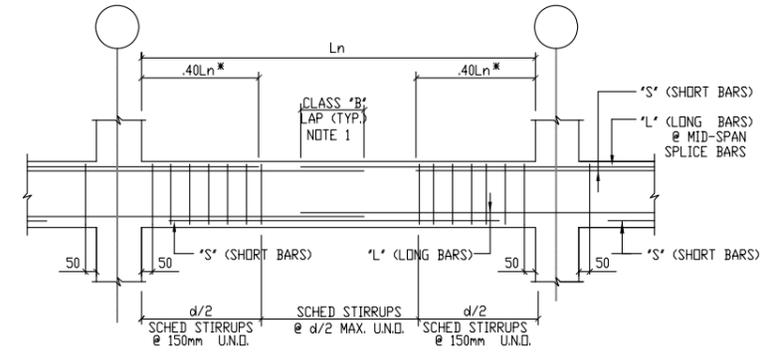
TYPICAL SLAB ON GRADE COLUMN ISOLATION JOINT

8
S-008



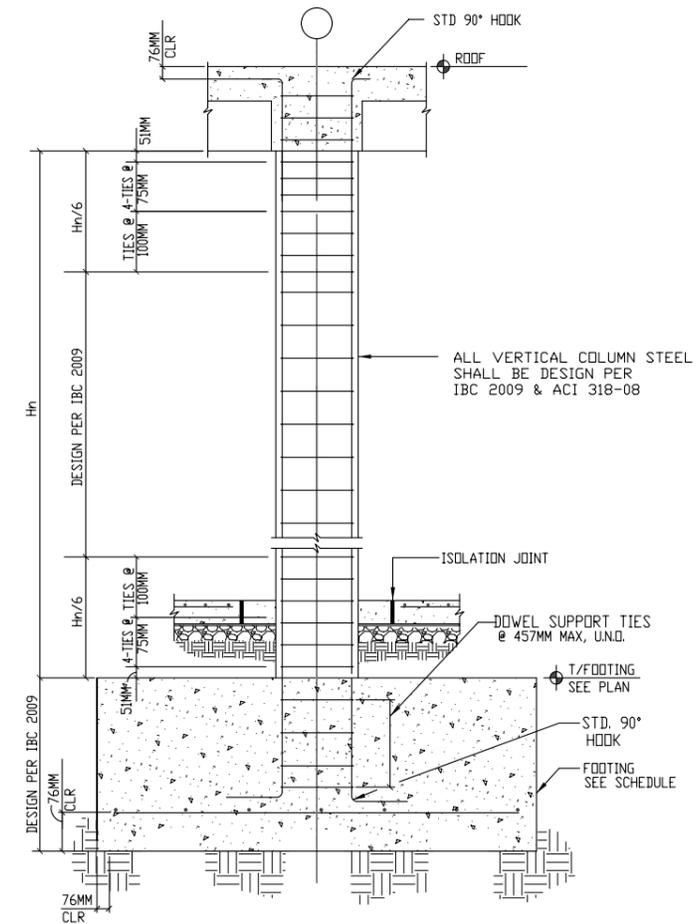
TYPICAL CONCRETE SLAB JOINT FINISH DETAIL

5
S-008



SINGLE STORY COLUMN DETAIL

6
S-008



- NOTES:
1. ALL CONCRETE BEAMS SHALL BE DESIGNED /W ACCORDANCE WITH IBC 2009 & ACI 318-08
 2. U.N.D. T&B BAR LAP SPLICES SHALL BE PLACED IN THE MIDDLE THIRD OF THE BEAM SPAN, BUT NOT CLOSER THAN (2x BEAM DEPTH) FROM THE FACE OF SUPPORT UNLESS NOTED OTHERWISE ON STRUCTURAL DRAWINGS. PROVIDE CONTINUOUS BARS AND ELIMINATE THE LAP SPLICES WHERE PRACTICAL.
 3. WHERE THERE ARE NO SHORT BOTTOM BARS, STAGGAR BOTTOM BARS LAP SPLICES IN THE MIDDLE THIRD OF THE BEAM SPAN, WHERE REQ'D.
 4. PROVIDE THE SCHEDULE STIRRUPS @ 100mm (MAX) AT THE BEAM TOP OR BOTTOM BAR LAP SPLICE ZONES. SMALLER DIAMETER STIRRUPS 10mm MIN. @100mm (MAX) CAN BE USED IF THE TOTAL STIRRUP AREA IS > THE CORRESPONDING SCHEDULE STIRRUP AREA.

FOR BIDDING PURPOSES ONLY

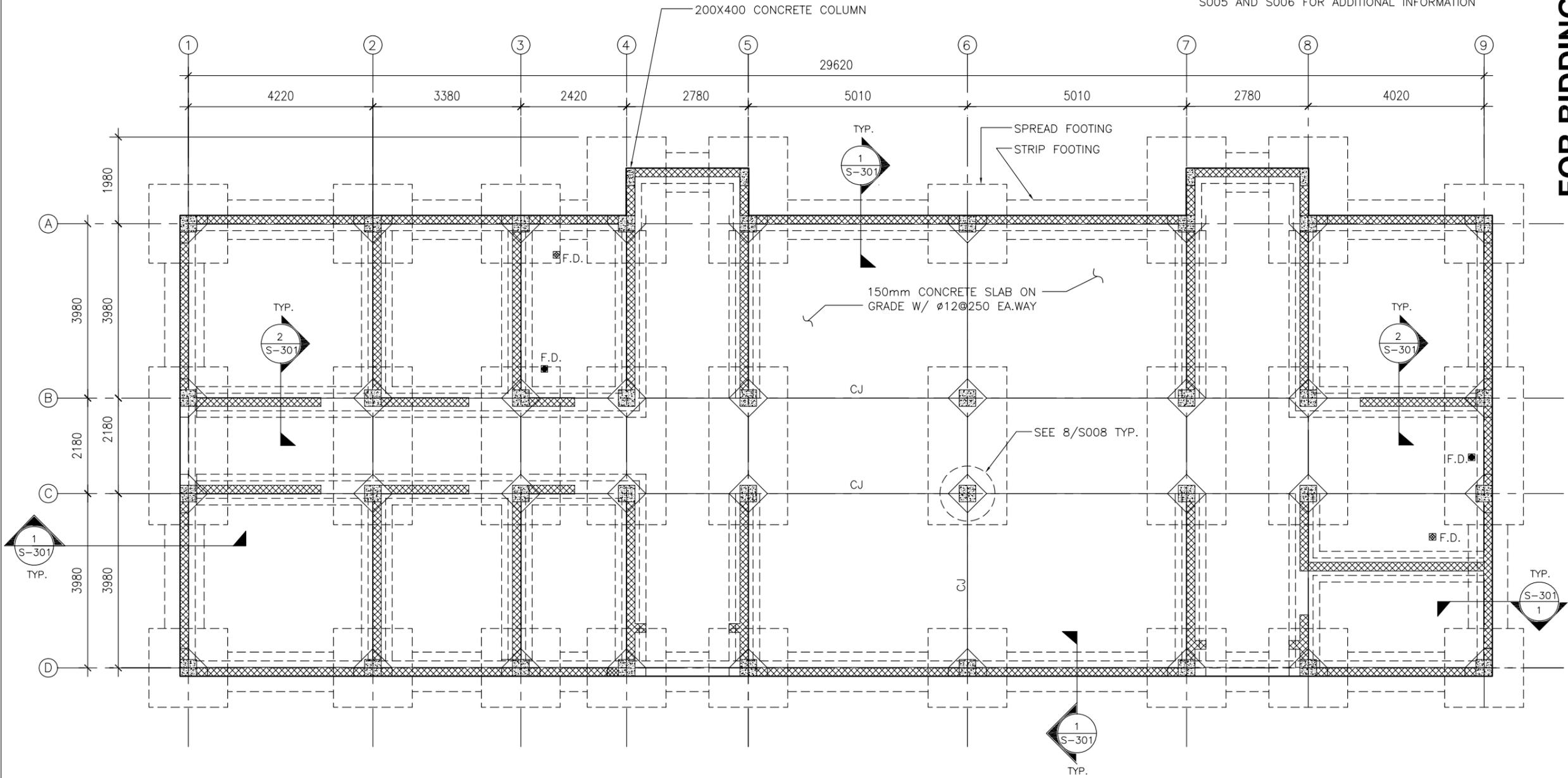


DESIGNED	DRAWN	CHECKED	IN CHARGE	DATE	REVISION	DESCRIPTION
V. STEGMIR	L. AMARMOOD	M. GARVER	D. WHEELER	17 DEC 2010		
GENERAL NOTE 6						
AFGHAN NATIONAL ARMY						
NEW COURTHOUSE FOR CAMP SHORAB RSC_SW						
SCALE: NTS						
PROJECT NO. 04.AA.01401						
S-008						

FOUNDATION PLAN

- 1, ALL TOP ELEVATIONS ARE -800mm BELOW GRADE.
- 2, F.D. INDICATES FLOOR DRAINS.
- 3, CONTRACTOR SHALL COORDINATE ALL FLOOR DRAINS WITH ARCHITECTURE.
- 4, C.J. INDICATES CONSTRUCTION JOINT
- 5, ALL FOUNDATIONS SHALL BE DESIGNED IN ACCORDANCE WITH IBC2009 SOIL BEARING PRESSURE SHALL BE 1500PSF(7323KG/SQM) UNLESS GEOTECHNICAL REPORT INDICATES OTHERWISE.
- 6, CONTRACTOR SHALL COORDINATE ALL SLAB OPENINGS FOR LATRINE WITH ARCHITECTURE. SEE 2/S006 FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
- 7, CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL MASONRY FLOOR DRAINS, OPENINGS AND PENETRATIONS WITH ARCHITECTURE & MECHANICAL DRAWINGS.
- 8, CONTRACTOR SHALL COORDINATE ALL MASONRY DRAIN OPENINGS WITH ARCHITECTURE, SEE GENERAL NOTES & MASONRY DETAILS ON STRUCTURAL SHEETS S001, S005 AND S006 FOR ADDITIONAL INFORMATION

FOR BIDDING PURPOSES ONLY



FOUNDATION PLAN

1
S-101

DESIGNED	DESCRIPTION
V. STEIGMEYER	
DRAWN	
A. MAHMOOD	
CHECKED	
V. STEIGMEYER	
IN CHARGE	
D. WHEELER	
DATE	
17. DEC. 2010	
REV. DATE BY	SUBIAPP

AFGHAN NATIONAL ARMY	
NEW COURTHOUSE	
FOR CAMP SHORAB RSC_SW	
FOUNDATION PLAN	

SCALE 1:100
PROJECT NO. 04.AA.01401

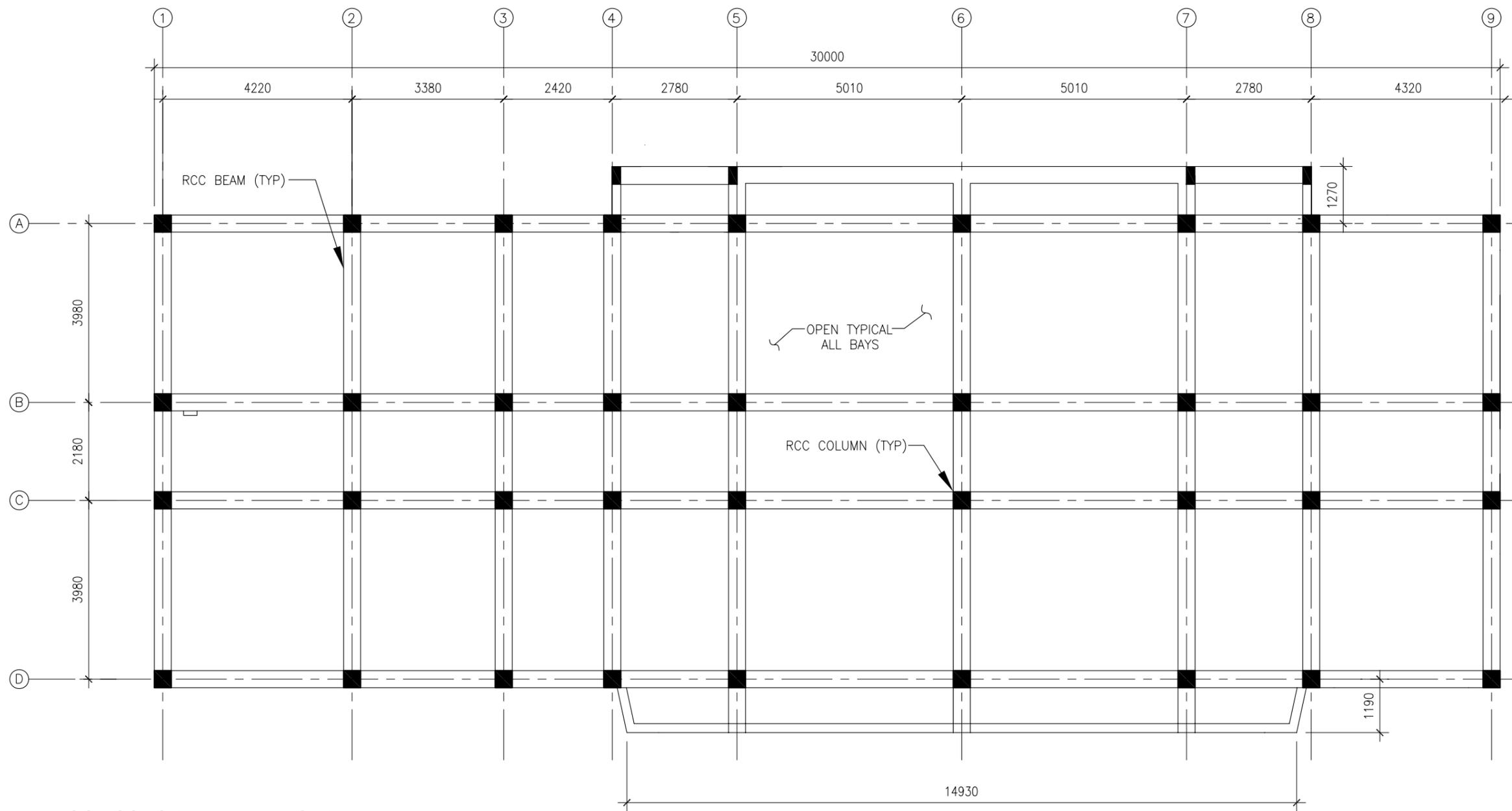
S-101



FOR BIDDING PURPOSES ONLY

SECOND FLOOR FRAMING PLAN NOTES:

- 1. FINISHED FLOOR ELEVATION SHALL BE COORDINATED WITH ARCHITECTURE PLAN & ELEVATIONS.
- 2. SEE GENERAL NOTES STRUCTURAL SHEET S-001 & STANDARD DETAILS FOR ADDITIONAL INFORMATION.



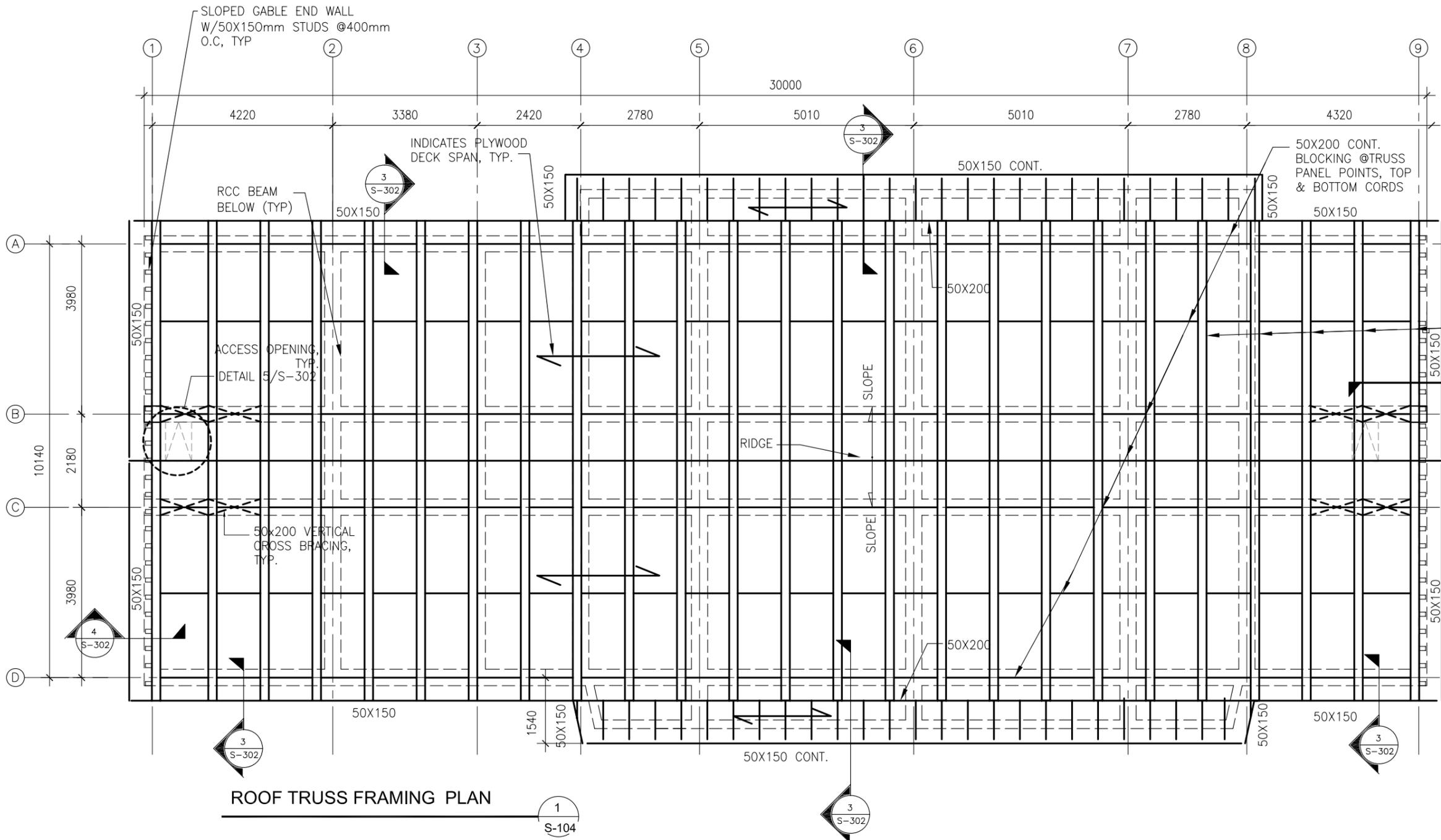
ROOF CONCRETE FRAMING PLAN

SCALE: 1:100

1
S-103

DESIGNED	V. STEGMER	DATE	17. DEC. 2010
DRAWN	A. AHMAD	REVISION	
CHECKED	V. STEGMER	BY	
IN CHARGE	D. WHEELER	DATE	
AFGHAN NATIONAL ARMY			DESCRIPTION
NEW COURTHOUSE			
FOR CAMP SHORAB RSC_SW			
ROOF CONCRETE FRAMING PLAN			
SCALE			1:100
PROJECT NO.			04.AA.01401
S-103			

- ROOF PLAN NOTES:
1. TOP OF CONCRETE BEAM ELEVATION SHALL BE COORDINATED W/ARCHITITURE.
 2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACING DURING TRUSS ERECTION AND INSTALLATION OF ROOF SHEATHING.
 3. PLYWOOD ROOF DIAPHRAGM NAIL PATTERNS SHALL BE DESIGNED FOR SEISMIC LOADS IN ACCORDANCE WITH IBC AND NDS.
 4. METAL ROOF DECK SHALL BE 22 GAUGE.
 5. ALL TRUSSES SHALL HAVE THEIR TOP & BOTTOM CHORDS BRACED @ EACH PANEL POINT. WHERE BOLTED PANEL POINT CONNECTIONS W/ BLOCKING REQUIREMENTS & BLOCKING SHALL BE STAGGERED.
 6. ALL TRUSSES SHALL BEAR ON CONC. BEAMS SHOWN BELOW.



ROOF TRUSS FRAMING PLAN

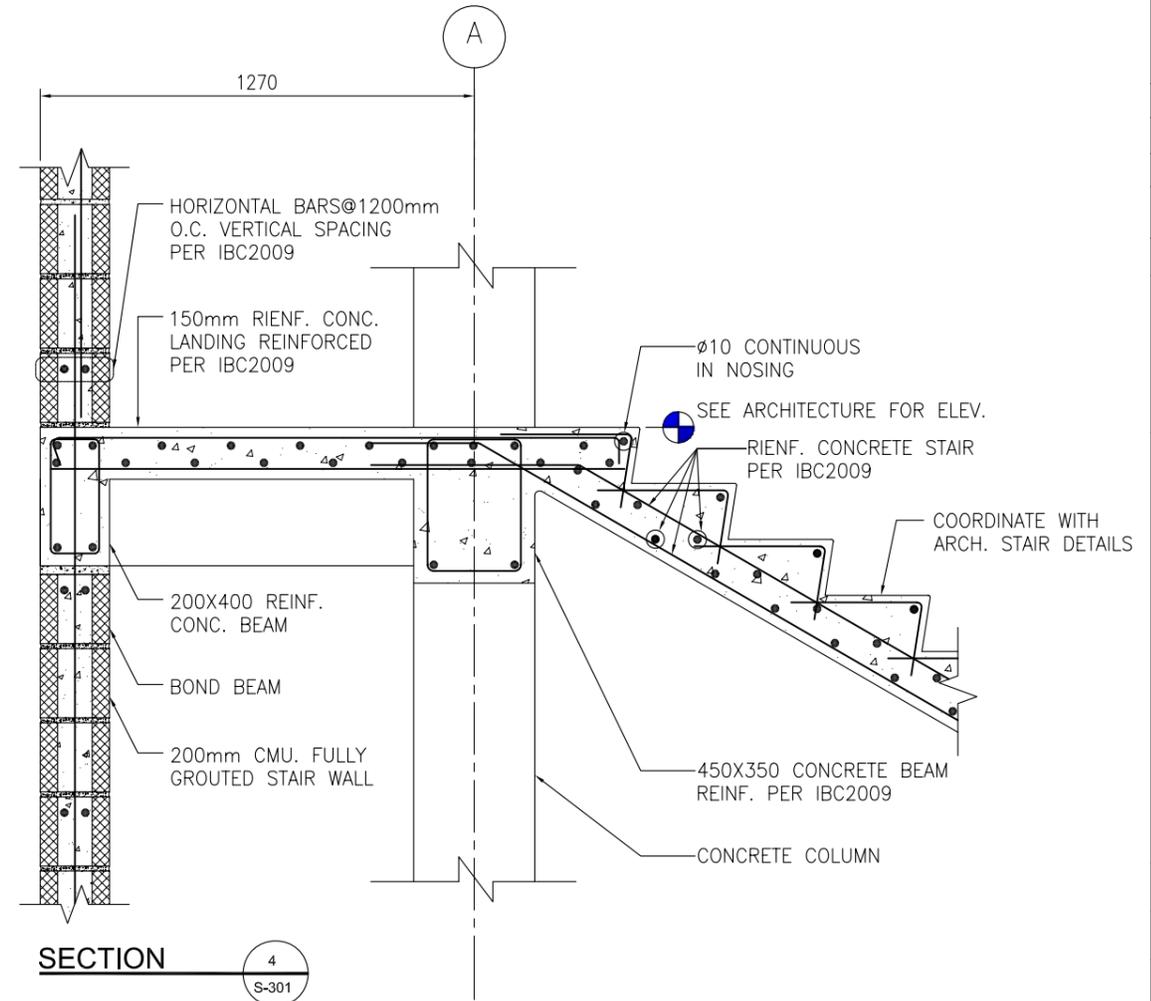
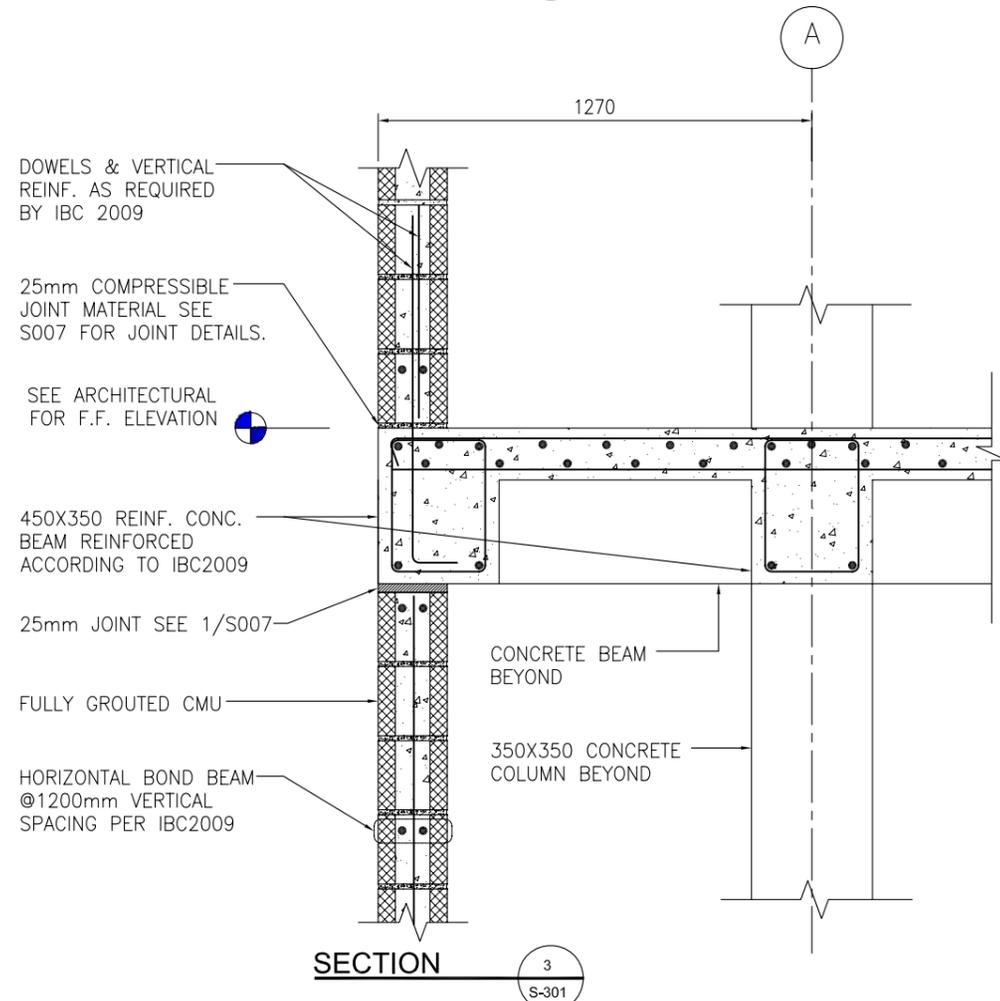
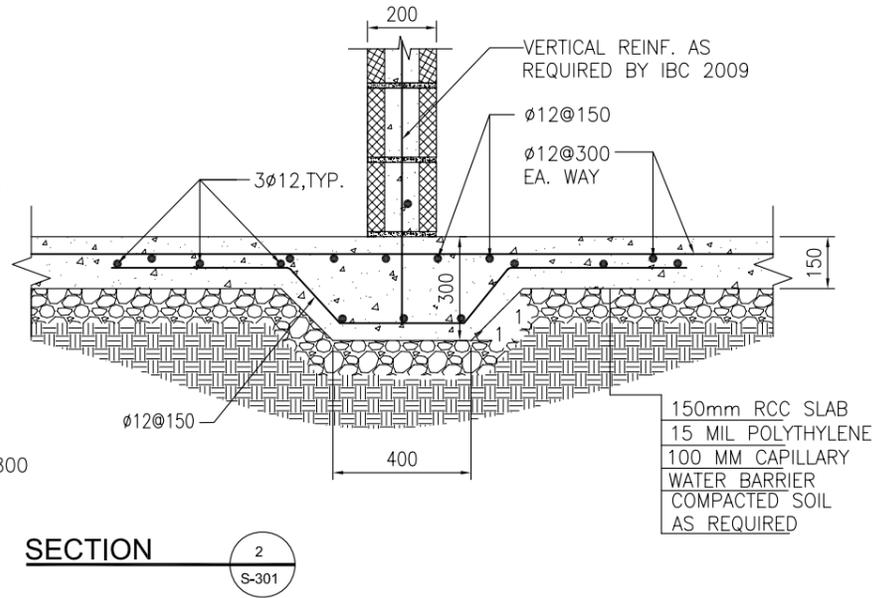
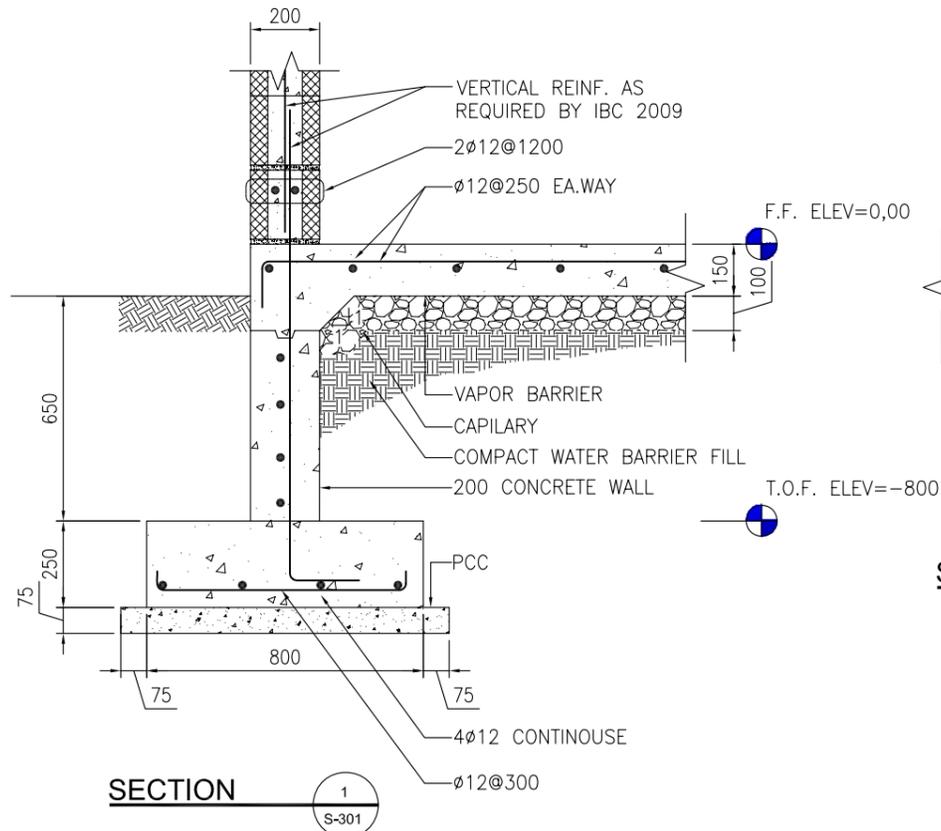
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S-104

3
S-302

FOR BIDDING PURPOSES ONLY



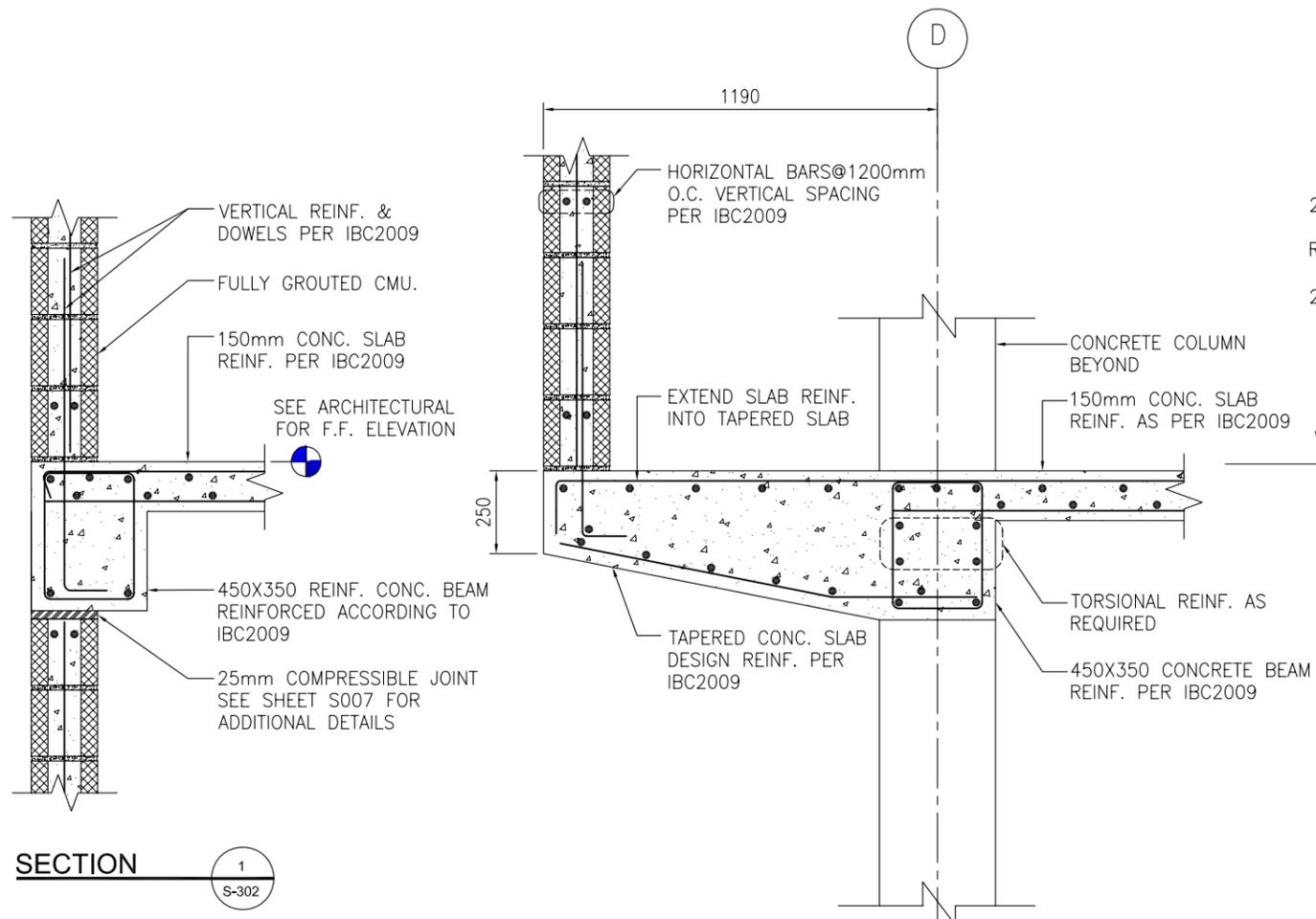
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V. STEIGMEIER	V. STEIGMEIER	A. MAHMOOD	V. STEIGMEIER	17. DEC. 2010	1	AFGHAN NATIONAL ARMY
			D. WHEELER		2	NEW COURTHOUSE
					3	FOR CAMP SHORAB RSC_SW
					4	ROOF TRUSS FRAMING PLAN
SCALE					1:100	
PROJECT NO.					04.AA.01401	
S-104						



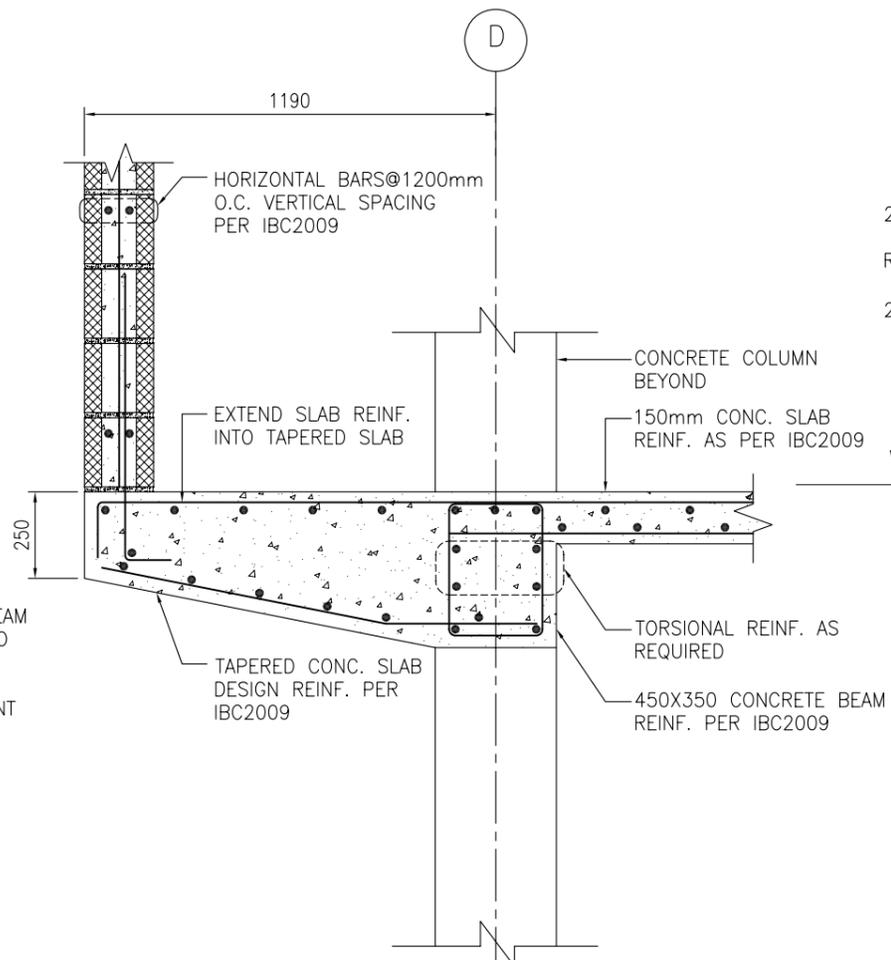
FOR BIDDING PURPOSES ONLY



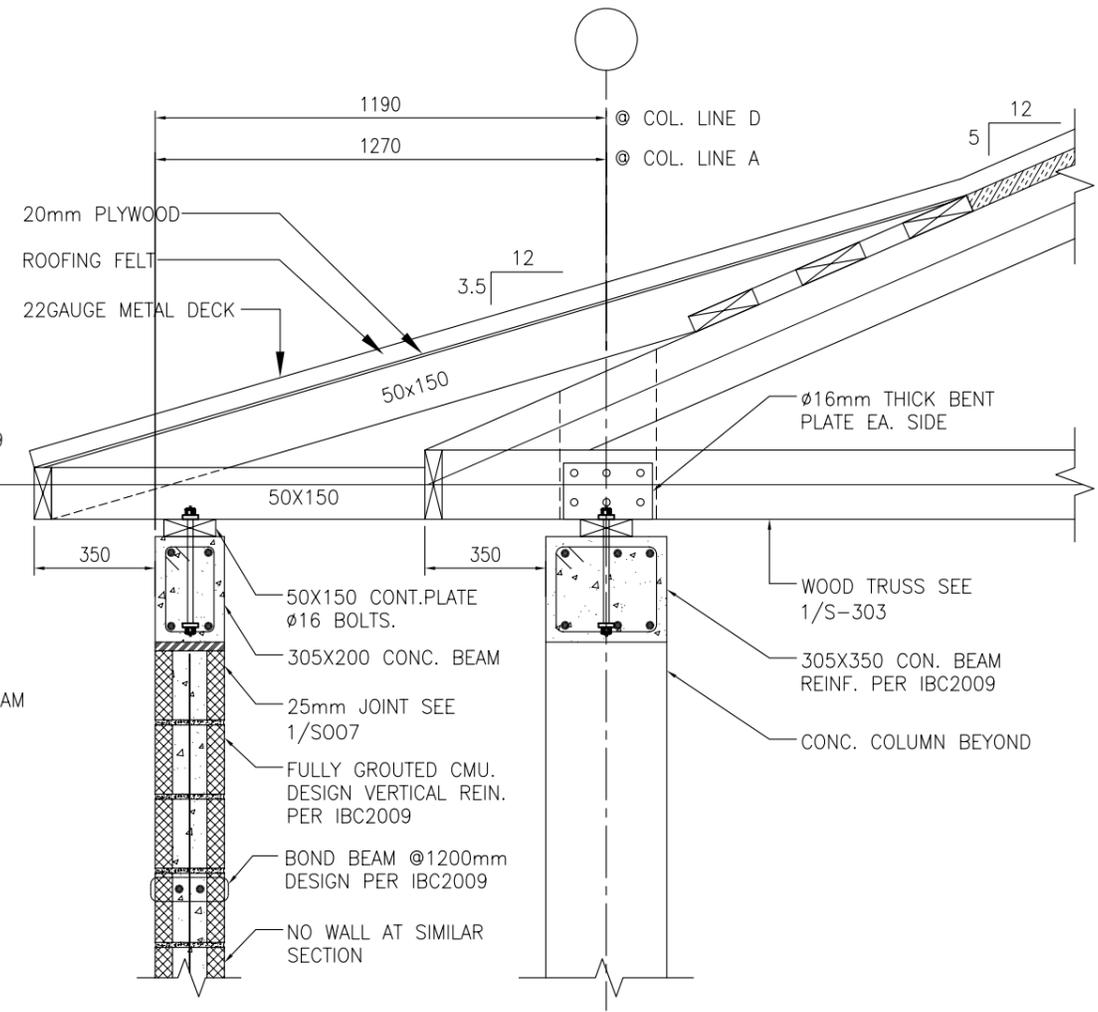
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V. STEGMER	S. YUSOFZAI	V. STEGMER	D. WHEELER	17. DEC. 2010			
AFGHAN NATIONAL ARMY					REVISIONS		
NEW COURTHOUSE					FOR CAMP SHORAB RSC_SW		
SCALE					NTS		
PROJECT NO.					04.AA.01401		
S-301							



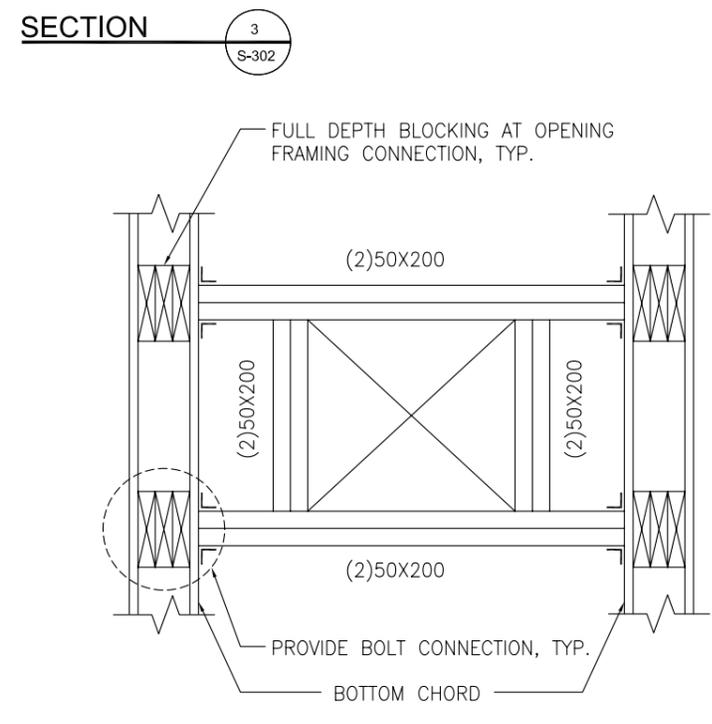
SECTION 1 S-302



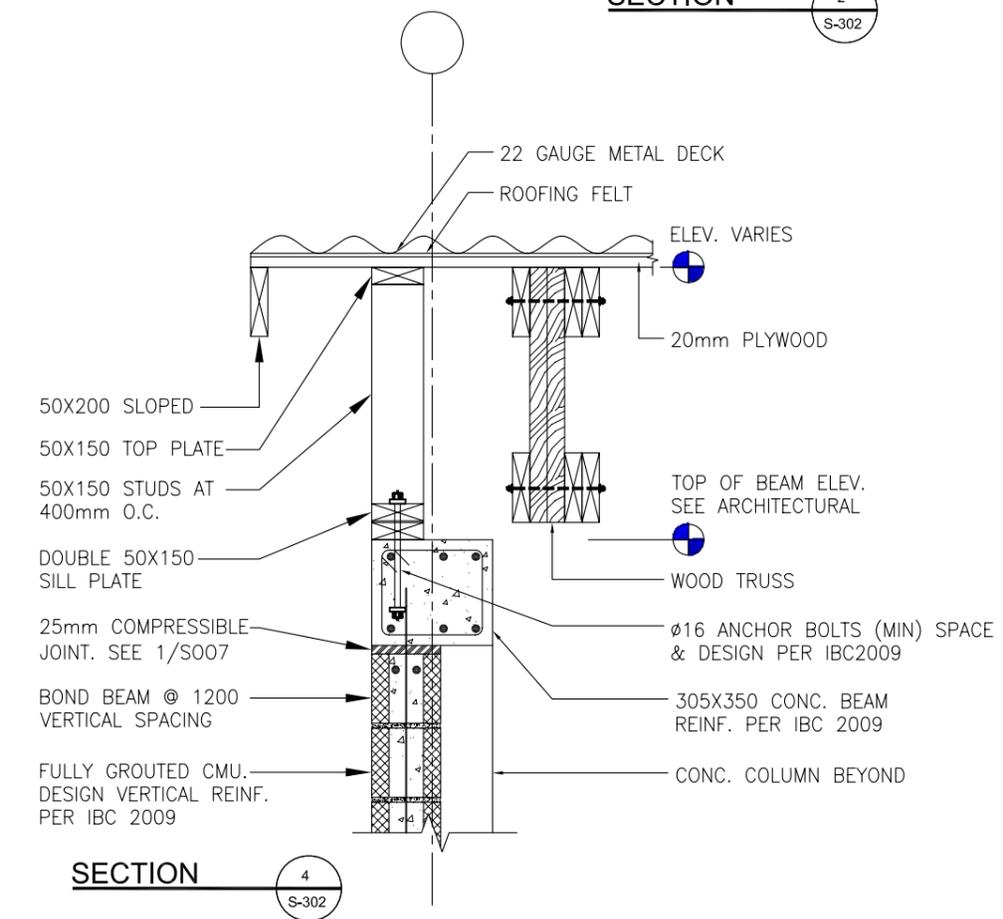
SECTION 2 S-302



NOTE: CMU WALL AT SIMILAR SECTION @ GRIDLINES A & D



DETAIL 5 S-302



SECTION 4 S-302

FOR BIDDING PURPOSES ONLY

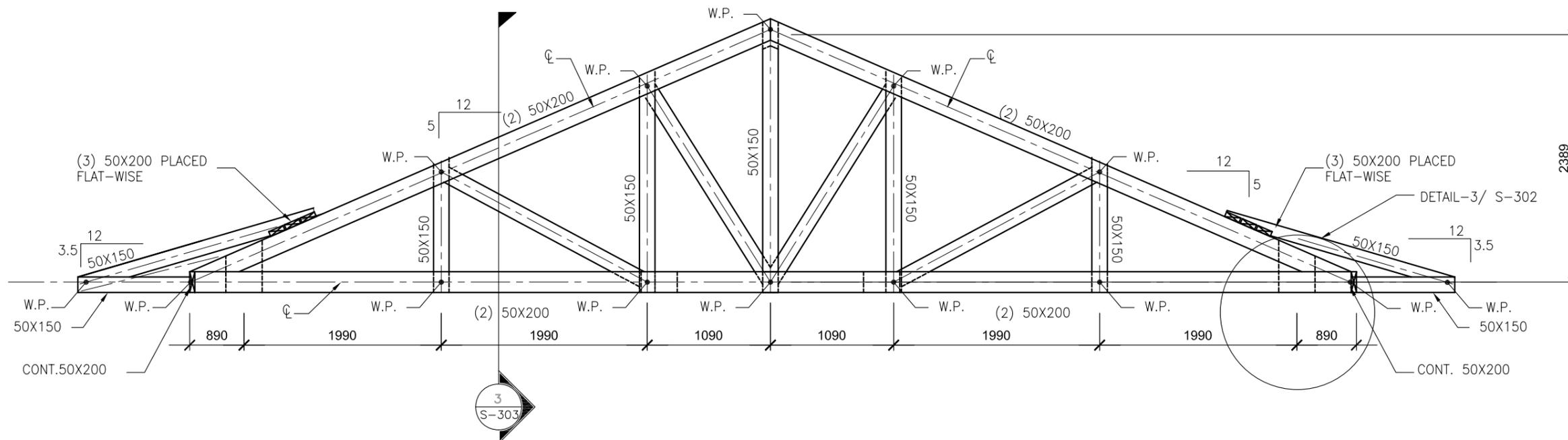


DESIGNED	DRAWN	CHECKED	IN CHARGE	DATE	REVISION	DESCRIPTION
V. STEGMER	S. YUSOFZAI	V. STEGMER	D. WHEELER	17. DEC. 2010		

AFGHAN NATIONAL ARMY	NEW COURTHOUSE	FOR CAMP SHORAB RSC_SW
SECTIONS		
SCALE	NTS	
PROJECT NO.	04.AA.01401	
S-302		

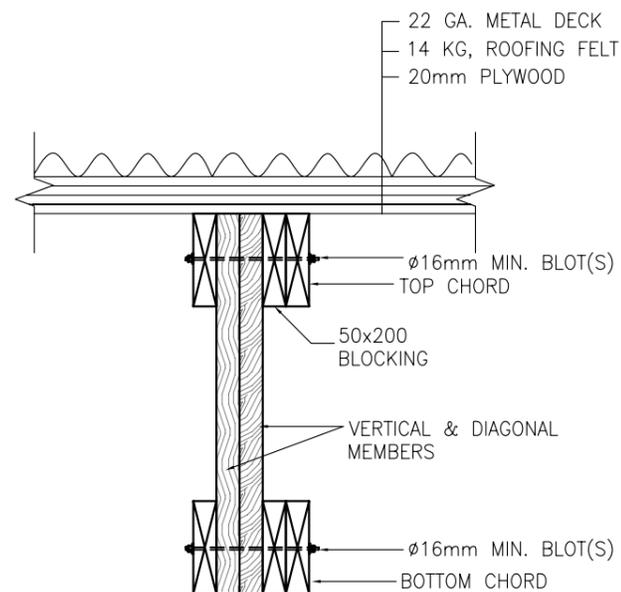
Notes

1. ALL LUMBER SIZES SHOWN ARE THE MINIMUM SIZES REQUIRED. CONTRACTOR SHALL VERIFY THE SIZES PRIOR TO FABRICATION.
2. SEE GENERAL NOTES FOR THE MINIMUM REQUIRED LUMBER PROPERTIES. ALL LUMBER PROPERTIES SHALL BE VERIFIED PRIOR TO TRUSS FABRICATION.
3. ALL VERTICAL AND DIAGONAL MEMBERS SHALL BE CUT FLUSH WITH THE TOP & BOTTOM CHORD EXTREME FIBER (THE OUTER MOST EDGE OF THE CHORD).
4. A MINIMUM BOLT DIAMETER OF 16mm W/6mm PLATE WASHERS SHALL BE USED TO FASTEN ALL TRUSS COMPONENTS. CONNECTION DESIGNER MAY ELECT TO UTILIZE SPLIT-RINGS FOR ALL TRUSS CONNECTIONS.
5. TOP & BOTTOM CHORDS SHALL BE FREE OF KNOTS WHERE PANEL POINT CONNECTIONS ARE MADE.
6. ALL TRUSSES & TRUSS CONNECTION SHALL BE DESIGNED IN ACCORDANCE W/ IBC 2009 & NDS BUILDING CODES.
7. THE MAXIMUM ALLOWABLE MOISTURE CONTENT OF WOOD SHALL NOT EXCEED 19%.
8. ALL PANEL POINT CONNECTIONS SHALL BE BLOCKED AS REQUIRED TO MAINTAIN AN EQUAL DISTANCE BETWEEN CHORD PANELS.
9. W.P. INDICATES WORK POINT



WOOD TRUSS

2
S-303



SECTION

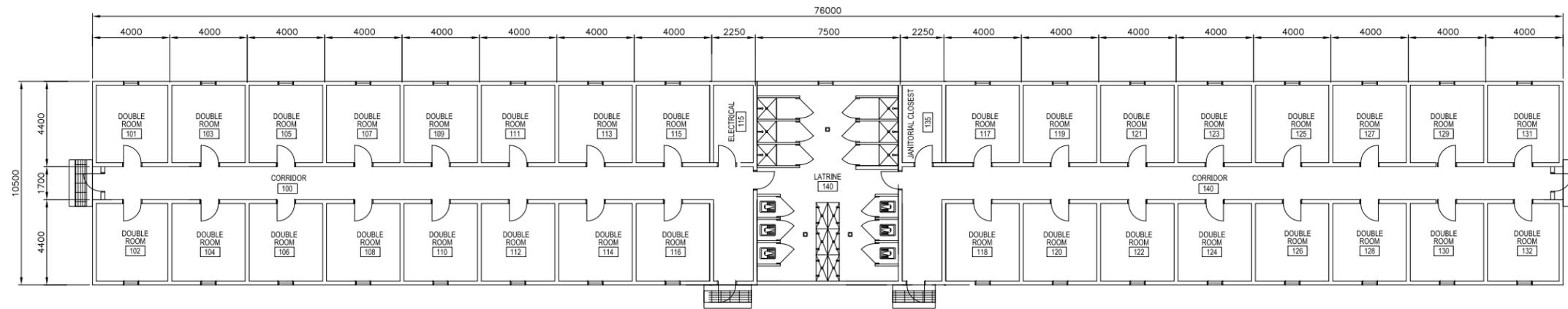
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S-303

FOR BIDDING PURPOSES ONLY

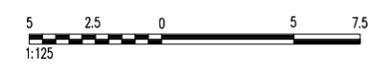


DESIGNED	DRAWN	CHECKED	IN CHARGE	DATE	REVISION	DESCRIPTION
V. STEGMEIER	A. AHMAD	V. STEGMEIER	D. WHEELER	17. DEC. 2010		

AFGHAN NATIONAL ARMY	NEW COURTHOUSE FOR CAMP SHORAB RSC_SW	WOOD TRUSS
SCALE		1:100
PROJECT NO.		04.AA.01401
S-303		



FLOOR PLAN
SCALE: 1:125
OFFICERS BARRACKS 798SM/64 PN



APPROVED:

A/E DESIGNER OF RECORD
SEAL:




Rev.	Date	Description	Mark	Appr.	Date
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		Drawing code:			
		File name: OFFICERS BARRACKS (64 PN)			
		Plot date: 2010/11/14			
		Plot scale:			

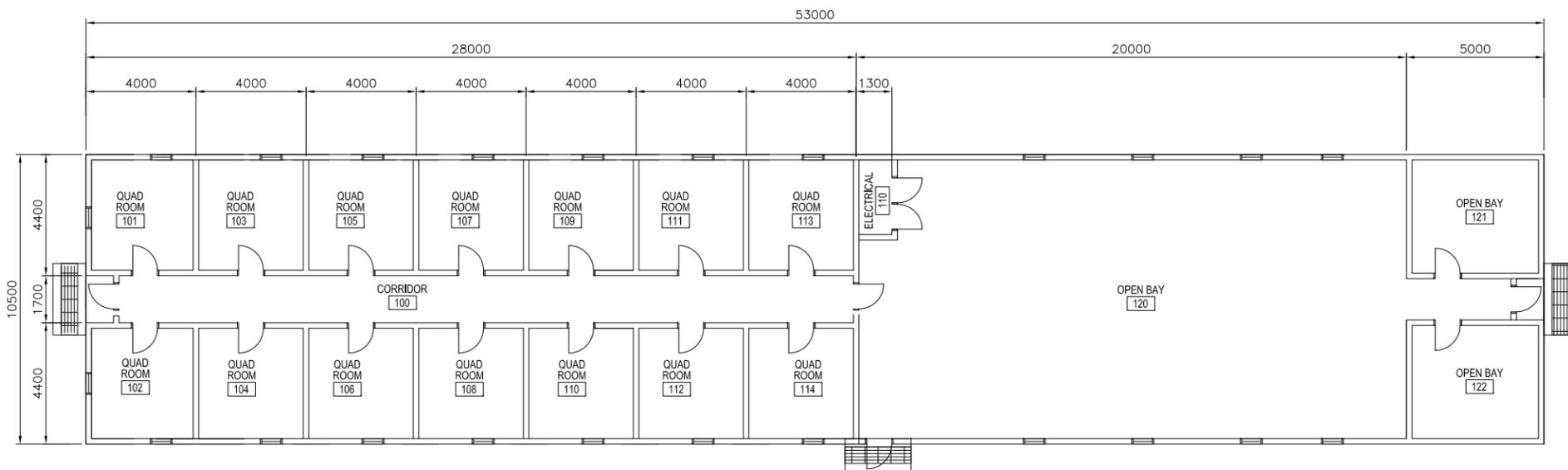
Designed by: _____
Dwn by: _____
Reviewed by: _____
Submitted by: _____
Date: 5/19/10
Design file no.: _____
Drawing code: _____
File name: OFFICERS BARRACKS (64 PN)
Plot date: 2010/11/14
Plot scale: _____

U.S. ARMY ENGINEER DISTRICT, AFGHANISTAN
CORPS OF ENGINEERS
APO AE 96338

STANDARD DESIGN
VARIOUS PROJECTS
VARIOUS LOCATIONS, AFGHANISTAN

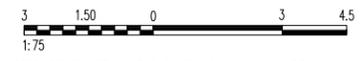
OFFICER BARRACKS

SHEET REFERENCE NUMBER:
A-1



FLOOR PLAN
SCALE: 1:100

COMBINATION NCO / ENLISTED BARRACK 556 SM / 108 PN



UNLESS NOTED OTHERWISE, LINEAR DIMENSIONS SHOWN ARE IN MILLIMETERS.



Date	Description	Mark	Appr.	Date	Appr.

Designed by:	Date:	Drawn by:	Date:
Checked by:	Design file no.:	Reviewed by:	Design code:
Submitted by:	File name: s3sm	Submitted by:	Plot date:
	Plot scale:		

U.S. ARMY ENGINEER DISTRICT, AFGHANISTAN
CORPS OF ENGINEERS
APO AE 96338

STANDARD DESIGN
VARIOUS PROJECTS
VARIOUS LOCATIONS, AFGHANISTAN

COMBINATION NCO / ENLISTED BARRACK
550 SM / 86 PN

APPROVED:

A/E DESIGNER OF RECORD

SEAL:



SHEET
REFERENCE
NUMBER:
A-1

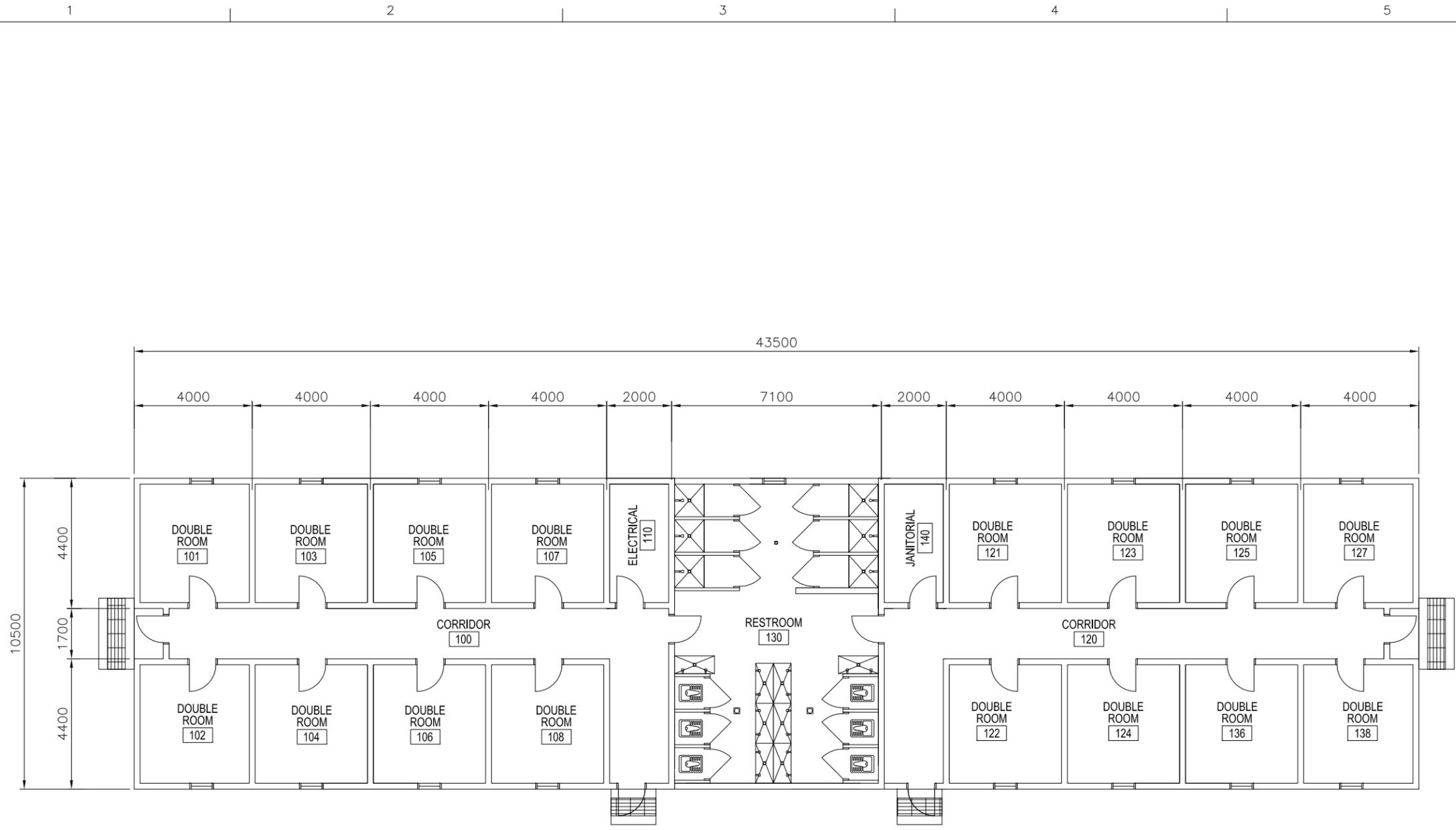
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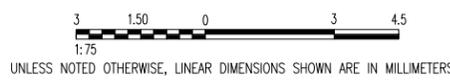
U.S. ARMY ENGINEER DISTRICT, AFGHANISTAN
CORPS OF ENGINEERS
APO AE 96338

STANDARD DESIGN
VARIOUS PROJECTS
VARIOUS LOCATIONS, AFGHANISTAN
BARRACKS

SMALL OFFICERS BARRACKS



FLOOR PLAN
SCALE: 1:75
SMALL OFFICERS BARRACKS 456 SM / 32 PN



APPROVED:

A/E DESIGNER OF RECORD

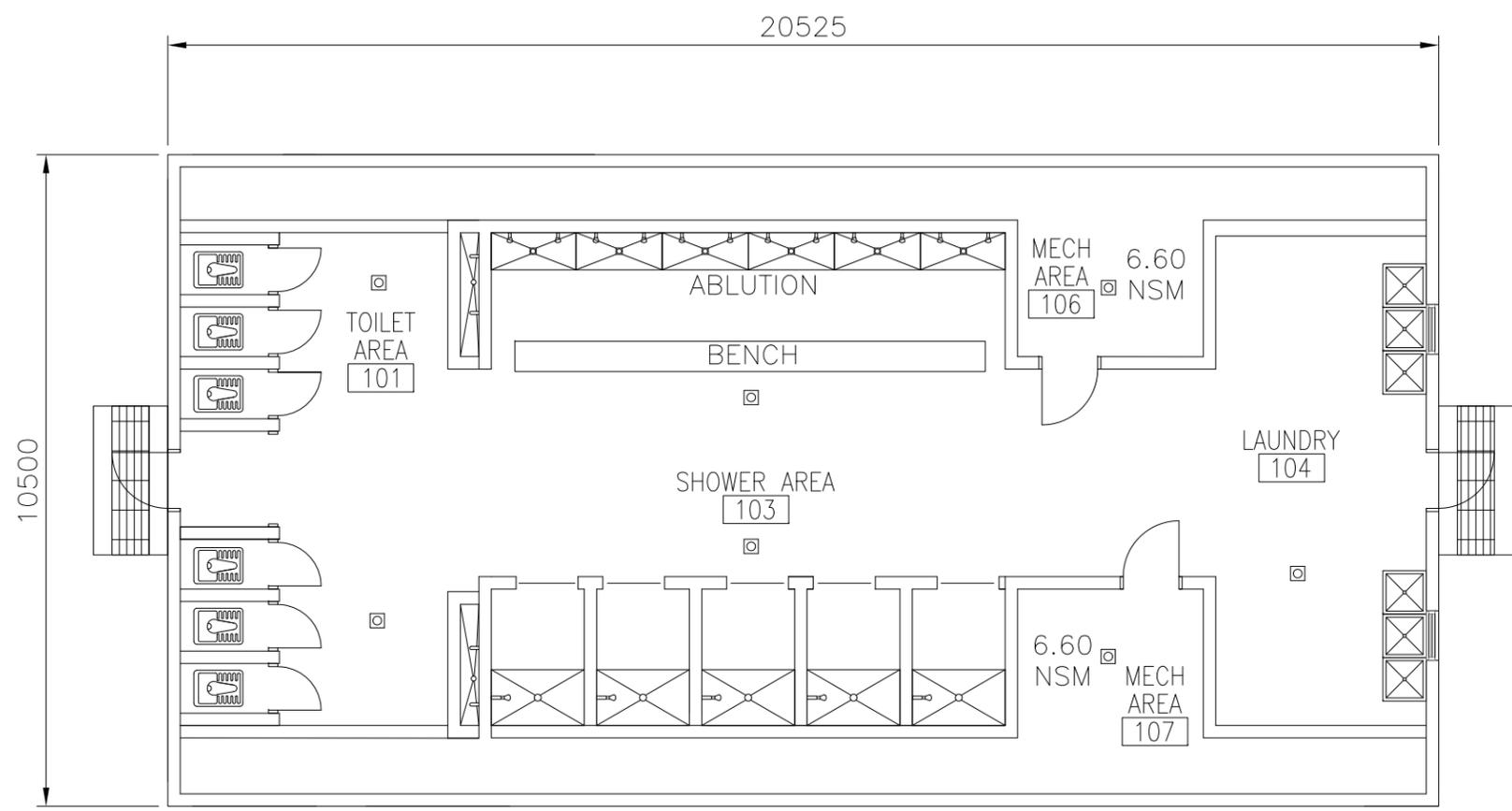
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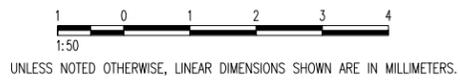
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A-1

A
B
C
D

1 2 3 4 5



FLOOR PLAN
SCALE: 1:50
SMALL LATRINE 135 SM /100 PN



APPROVED:

A/E DESIGNER OF RECORD
SEAL:
XXXX
XXXX



Rev.	Date	Description	Mark	Appr.	Date
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Designed by:	Checked by:	Reviewed by:	Submitted by:
Date issued:	Design file no.:	Drawing code:	File name: i-SPAN
			Plot date:
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STANDARD DESIGN
VARIOUS PROJECTS
VARIOUS LOCATIONS, AFGHANISTAN

SMALL LATRINE

SHEET REFERENCE NUMBER:
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