

STRUCTURAL DESIGN CRITERIA

ALL DESIGNS SHALL CONFORM TO THE PROVISIONS OF THE IBC 2006 AS APPLICABLE

1.0 DESIGN LOADS

1.1 DEAD LOADS

1.1.1 ROOF DEAD LOADS – CONVENTIONAL FRAMING

	MAXIMUM GRAVITY LOAD	MINIMUM GRAVITY LOAD
LIGHT GAUGE FRAMING	0.20 KPa	0.15 KPa
METAL ROOFING	0.14 KPa	0.05 KPa
INSULATION	0.10 KPa	0.05 KPa
MISC	0.05 KPa	0.00 KPa
	0.49 KPa	0.25 KPa

1.1.2 ROOF DEAD LOADS – CONCRETE FRAMING

	MAXIMUM GRAVITY LOAD
CONC FLAT SLAB	4.80 KPa
MECH/ELEC/PLUMBING	0.15 KPa
MISC	0.05 KPa
	5.00 KPa

1.2 LIVE LOADS (PER IBC 2006)

1.2.1 ROOF LIVE LOADS: ALL BUILDINGS

GREATER OF 1.0 KPa MINIMUM OR SNOW LOAD

1.2.2 SLAB-ON-GRADE LIVE LOADS

ALL BUILDINGS 4.80 KPa

1.3 SNOW LOADS (PER IBC 2006)

1.3.1 DESIGN PARAMETERS

GROUND SNOW LOAD (per UFC 3-310-01)	PER LOCAL CONDITION
SNOW IMPORTANCE FACTOR	1.0 KPa
SNOW EXPOSURE FACTOR	1.0 KPa

1.4 SEISMIC LOADS (PER IBC 2006 & UFC 3-310-04)

1.4.1 SEISMIC PARAMETERS – LOAD BEARING MASONRY

SEISMIC OCCUPANCY CATEGORY	II
SEISMIC IMPORTANCE FACTOR (I)	1.0
SEISMIC SITE CLASS	D
Ss	1.280
S1	0.510
Sds	0.853
Sd1	0.510
SEISMIC DESIGN CATEGORY	D
SEISMIC RESISTING SYSTEM	BEARING WALL SYSTEM SPECIAL REINF MASONRY SHEAR WALLS
RESPONSE MODIFICATION FACTOR (R)	5.0
RESPONSE COEFFICIENT (Cs)	0.120
SEISMIC ANALYTICAL PROCEDURE	EQUIV LATERAL FORCE
SEISMIC BASE SHEAR	44.5kN

1.6 WIND LOADS (PER IBC 2006)

1.6.1 DESIGN PARAMETERS

BASIC WIND SPEED	137 Km/h
WIND IMPORTANCE FACTOR	1.0
WIND EXPOSURE CATEGORY	D
DIRECTIONALITY COEFFICIENT (Kd)	0.85
TOPOGRAPHIC FACTOR (Kzt)	1.0

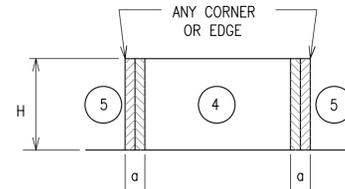
1.6.2 DESIGN WIND PRESSURE – MAIN WINDFORCE RESISTING SYSTEM

LOCATION	CORNER ZONE WIDTH "a"	MEAN ROOF HEIGHT "h"	WINDWARD WALL (@ MEAN ROOF HEIGHT)	LEEWARD WALL (@ MEAN ROOF HEIGHT)	ROOF
FIELD ZONE	N/A	3405mm	582 N/m ²	-463 N/m ²	-803 N/m ²
CORNER ZONE	1440mm	3405mm	883 N/m ²	-689 N/m ²	-1244 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 HEIGHT, IN METERS, EXCEPT THAT EAVE HEIGHT SHALL BE USED FOR ANGLE GREATER THAN 10°.

1.6.3 DESIGN WIND PRESSURE – WALL COMPONENTS AND CLADDING

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	627	627	-986	-1216	900
AREA = 2 m ²	589	589	-948	-1134.8	900
AREA = 5 m ²	565	565	-910	-1086.9	900
AREA = 10 m ²	565	565	-910	-1086.9	900

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.

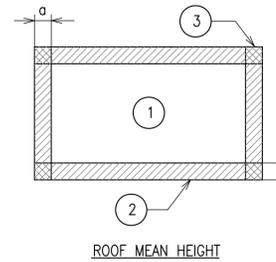
CMU LINTEL SCHEDULE

OPENING TYPE OR SIZE, BEAM LOCATION OR TYPE	MAX SPAN (mm)	BEAM DEPTH (mm)	MAIN REINFORCING			SHEAR REINF STIRRUPS
			TOP	BOTTOM	OTHER	
EXT WINDOW OR DOOR	900	400	(2)-#13	(2)-#13		----
INT WALL OPENING, NON-BEARING	1800	400	(2)-#13			----
INT WALL OPENING, NON-BEARING	900	200	(2)-#13			----

- STRUCTURAL DRAWINGS 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.
- PROVIDE 200mm BEARING EA END FOR 200mm DEEP CMU LINTEL. PROVIDE 400mm BEARING EA END FOR 400mm DEEP CMU LINTEL.
- FOR HEAD DETAILS REFER TO ARCHITECTURAL SHEETS.
- REINFORCING SHALL BE ASTM A615M, GRADE 420. CONCRETE FOR CAST-IN-PLACE BOND BEAMS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 28 MPa AT 28 DAYS.
- CONTRACTOR SHALL SUBMIT FOR APPROVAL SHOP DRAWINGS AND SCHEDULES SHOWING SIZE, DETAILS, LOCATIONS, ETC FOR ALL CAST-IN-PLACE BEAMS IN CMU WALLS.

1.6.4 DESIGN WIND PRESSURE – ROOF COMPONENTS AND CLADDING

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



1.6 WIND LOADS (CON'T)

LOCATION	GROSS UPLIFT PRESSURE N/m ² (upward)			a
	①	②	③	
MAIN BUILDING				(mm)
AREA = 1 m ²	-838	-1460	-1460	900
AREA = 2 m ²	-838	-1460	-1460	900
AREA = 5 m ²	-838	-1460	-1460	900
AREA = 10 m ²	-838	-1460	-1460	900

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 HAVE BEEN ASSUMED AND 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	96.0 KPa
UNIT WEIGHT OF SOIL (moist)	1800 Kg/m ³
COEFF ACTIVE EARTH PRESSURE (Kpa)	0.30
COEFF PASSIVE EARTH PRESSURE (Kpp)	3.33
COEFF AT-REST EARTH PRESSURE (Kpr)	.55
COEFF OF SOIL FRICTION	.35
SUBGRADE MODULUS	4120 g/m ³
MINIMUM BEARING DEPTH BELOW GRADE	800mm
SEISMIC SITE CLASS (based on in-situ soil)	D

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)	70
COLUMNS / PIERS (TO TIES)	40
GRADE BEAMS OR SLAB TURNED DOWN EDGES:	
TOP	40
BOTTOM (EARTH FORMED)	70
SIDES (EARTH FORMED)	70
SIDES (BOARD FORMED)	#16 BAR & SMALLER #19 THRU #36 BAR
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 #13 & SMALLER
ROOF SLAB BARS	40 25
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.	

US Army Corps of Engineers
Afghanistan Engineer District

DATE	DESCRIPTION	SYMBOL

DESIGNED BY: DATE: 09-30-09
GDH
SUBMITTED BY: BAKER
DWN BY: MDB
CHK BY: CWV
FILE NO.: ANPDS-002XXX
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AFGHAN NATIONAL POLICE
STANDARD DESIGN
GUARD SHACK
DESIGN CRITERIA & SCHEDULES

SHEET REFERENCE NUMBER:
S2

SYMBOL	DESCRIPTION	DATE	APP

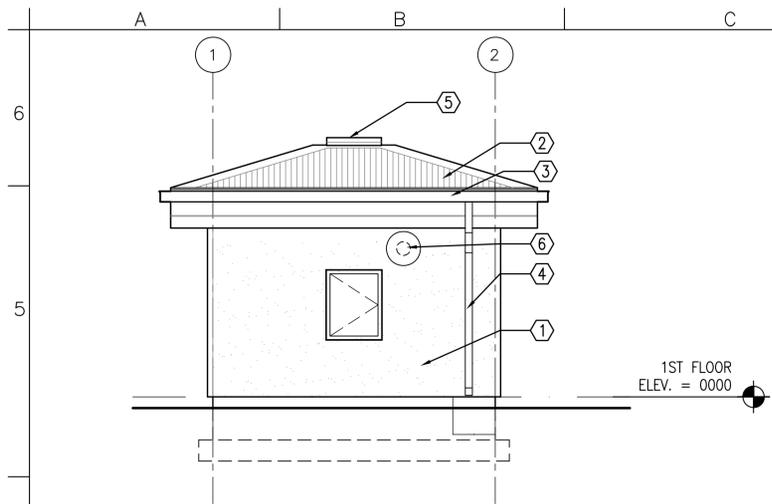
DESIGNED BY:	DATE:	09-30-09
DWN BY:	PFF	
ECN		
CHK BY:	NLJ	
SUBMITTED BY:	BAKER	
FILE NO.:	ANPSDA-202XXX	

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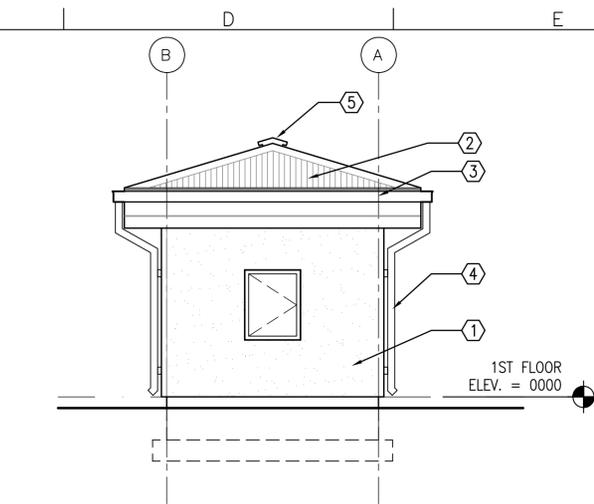
AFGHAN NATIONAL POLICE
STANDARD DESIGN
GUARD SHACK
EXTERIOR ELEVATIONS,
BUILDING AND WALL SECTIONS

SHEET REFERENCE NUMBER:
A2

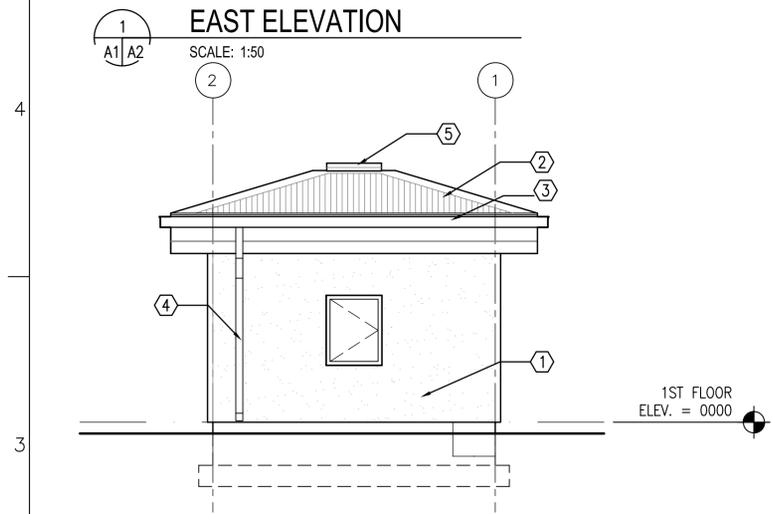
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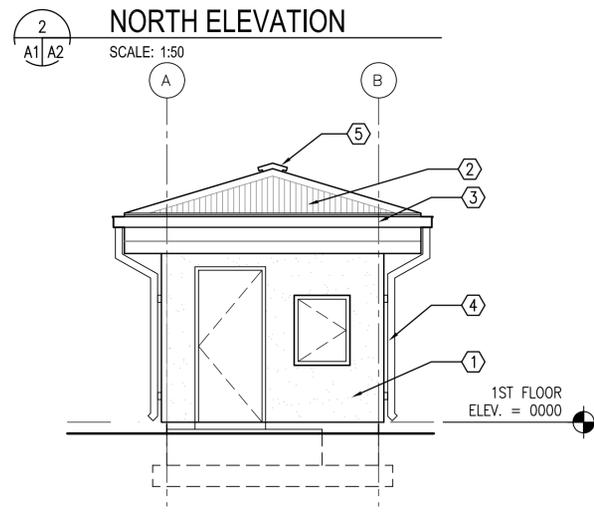
1 EAST ELEVATION
SCALE: 1:50



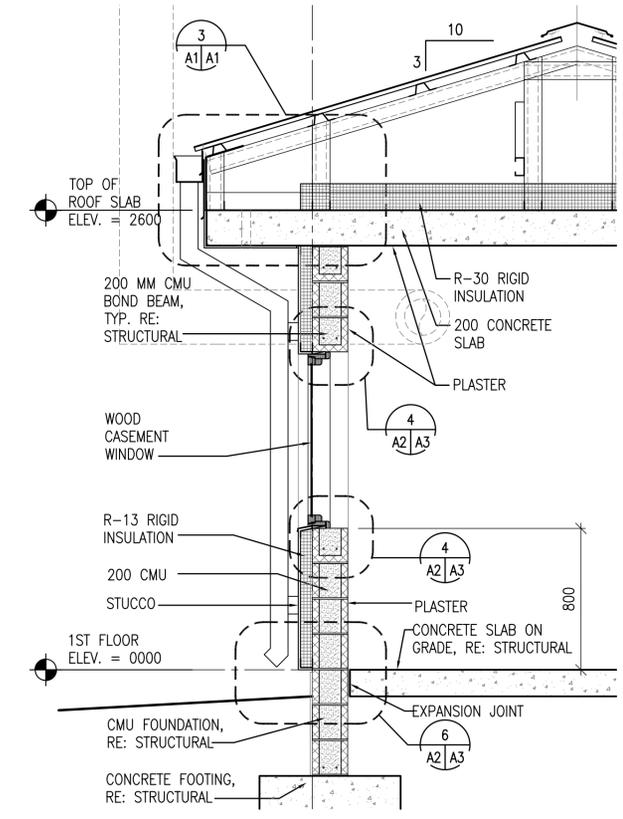
2 NORTH ELEVATION
SCALE: 1:50



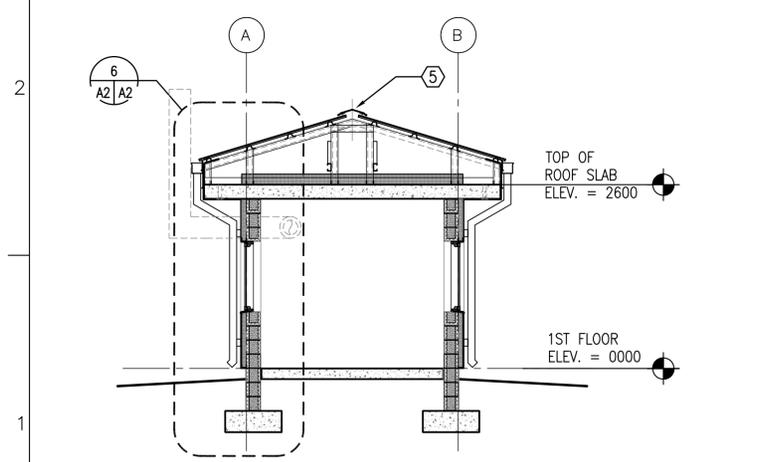
3 WEST ELEVATION
SCALE: 1:50



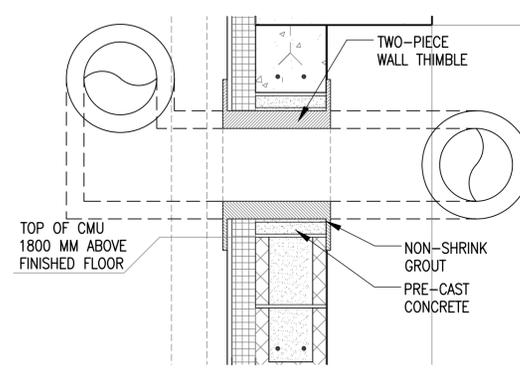
4 SOUTH ELEVATION
SCALE: 1:50



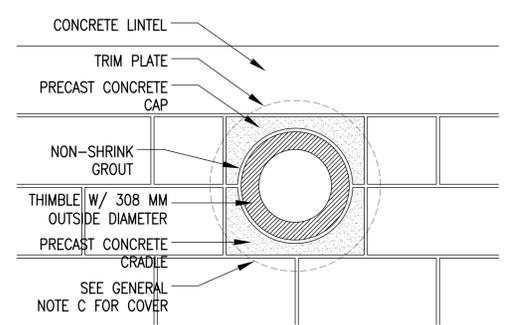
6 WALL SECTION
SCALE: 1:20



5 BUILDING SECTION
SCALE: 1:50



7 THIMBLE DETAIL, TYPICAL
SCALE: 1:10



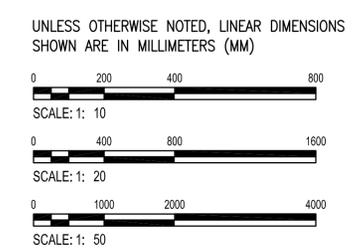
8 THIMBLE DETAIL, TYPICAL
SCALE: 1:10

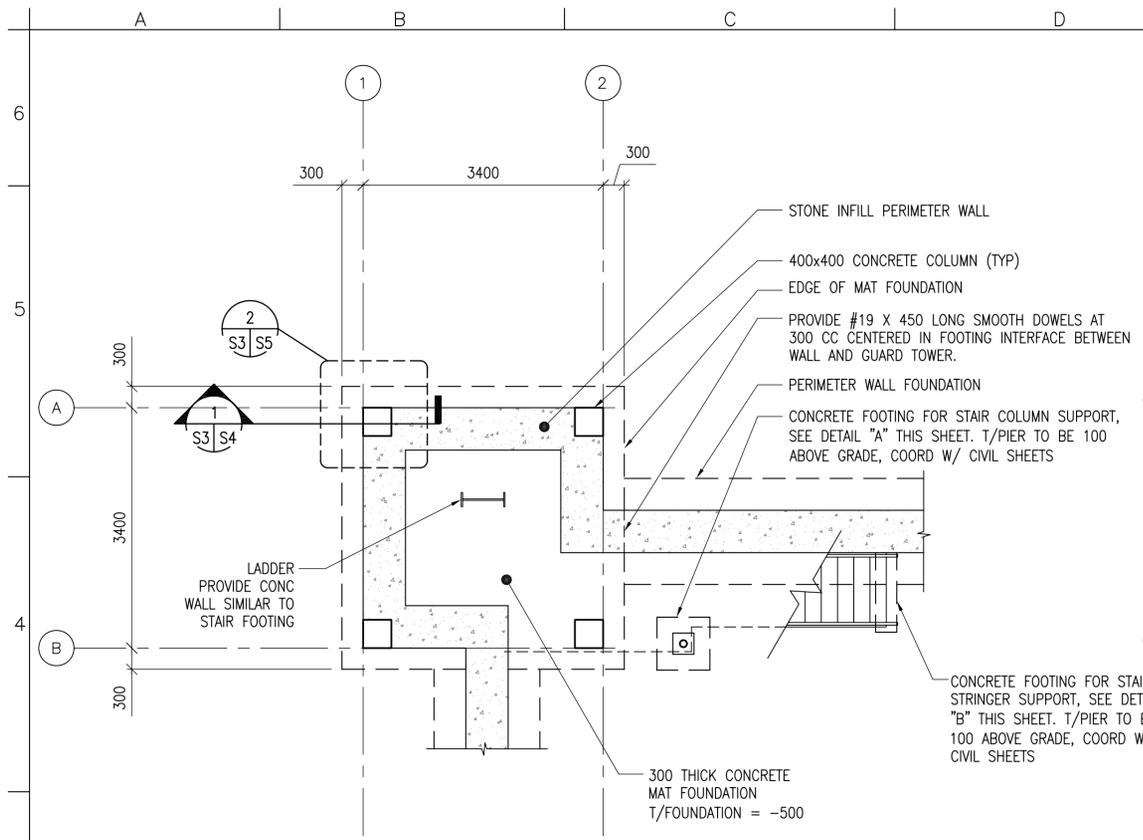
GENERAL NOTES:

- A. COORDINATE SIZE AND LOCATION OF OPENINGS FOR MECHANICAL ITEMS WITH MECHANICAL DRAWINGS.
- B. PROVIDE STRUCTURAL LINTELS AS REQUIRED - RE: STRUCT
- C. PROVIDE 480 MM SQUARE, 1.5 MM THICK GALVANIZED SHEET METAL COVER WITH 13 MM HEMMED EDGE FOR WALL THIMBLE UNTIL STOVE PIPE IS PROVIDED. INSTALL COVER ON EXTERIOR FACE OF THIMBLE TRIM PLATE. COVER SHALL BE SET IN SILICONE SEALANT AND FASTENED WITH 4 STAINLESS STEEL SCREWS. ALIGN FASTENER LOCATIONS WITH COVER PLATE FASTENER OPENINGS SO ADDITIONAL FASTENER PENETRATIONS ARE NOT CREATED IN EXTERIOR FINISH.

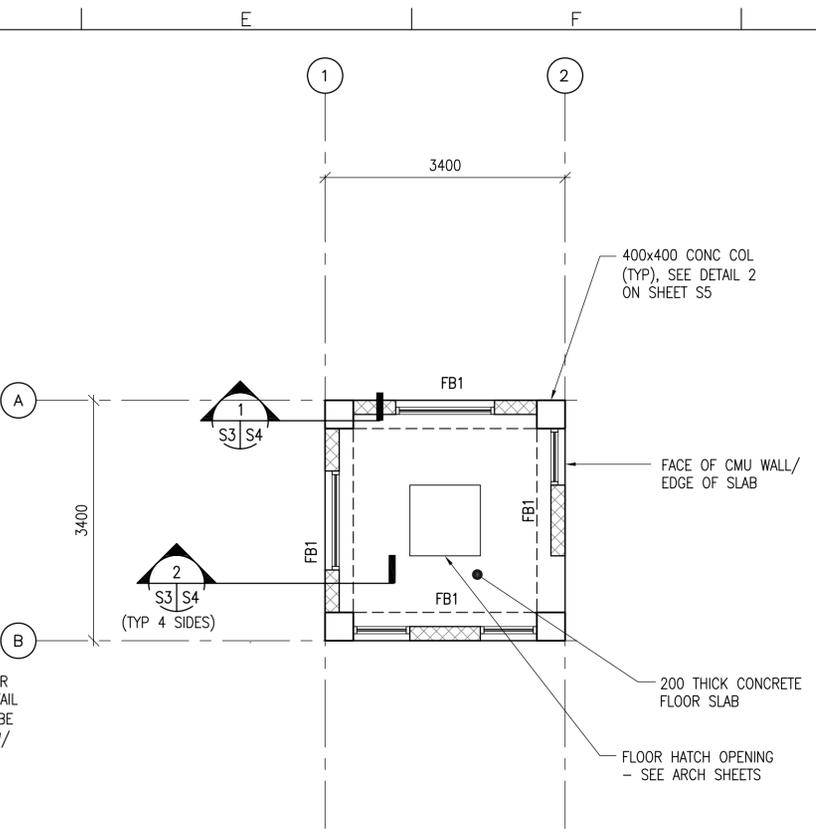
KEY NOTES:

1. STUCCO AND RIGID INSULATION SYSTEM ON CMU
2. CORRUGATED METAL ROOF PANELS ON COLD-FORMED METAL FRAMING
3. METAL GUTTER
4. METAL DOWNSPOUT WITH SPLASH BLOCK
5. RIDGE VENT
6. TWO-PIECE WALL THIMBLE AND TRIM PLATE FOR OPTIONAL WOOD BURNING STOVE CHIMNEY PIPE. STOVE AND PIPE BY OTHER

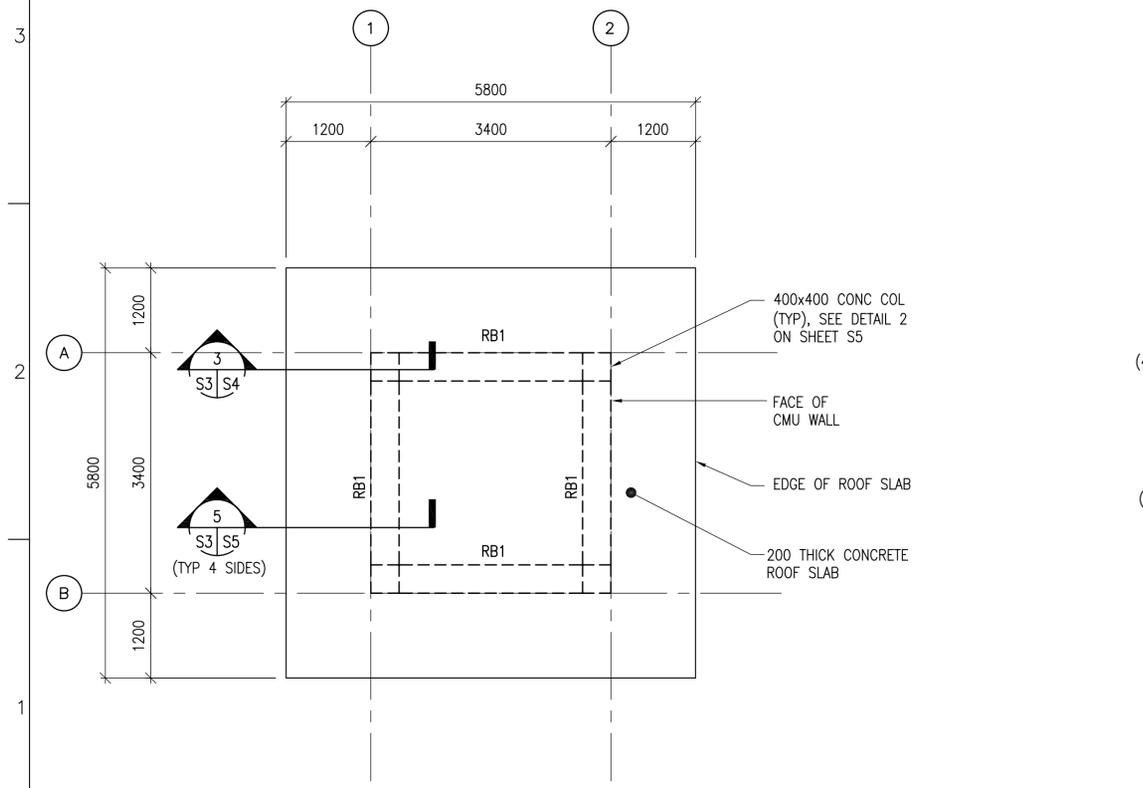




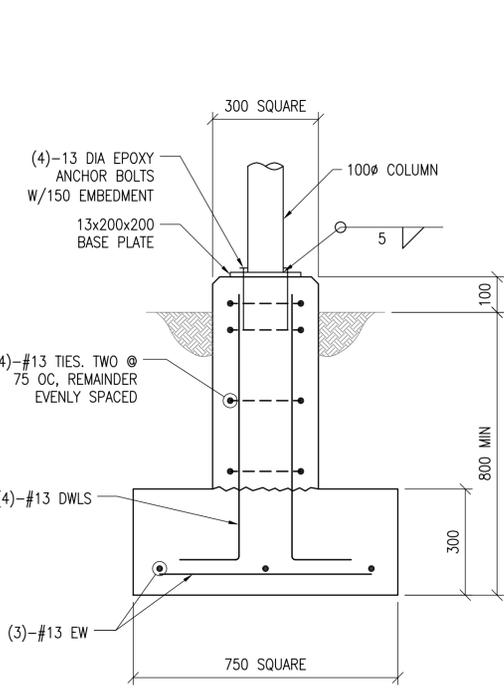
1 GUARD TOWER FOUNDATION PLAN
 S3 | S3 SCALE: 1:50



2 GUARD TOWER ELEVATED FLOOR FRAMING PLAN
 S3 | S3 SCALE: 1:50

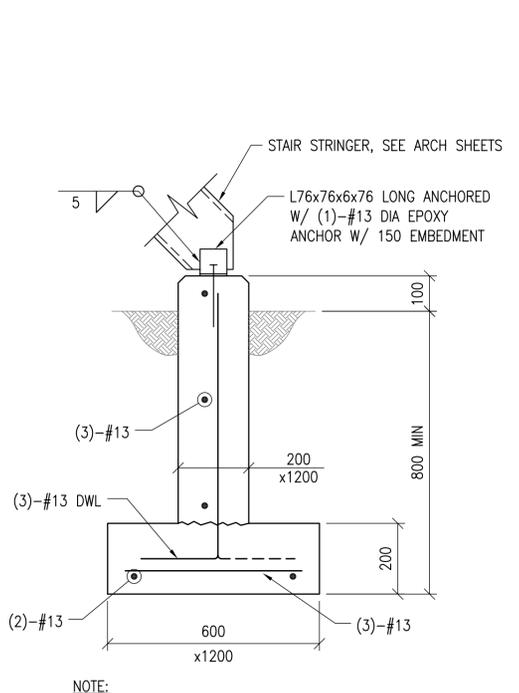


3 GUARD TOWER ROOF FRAMING PLAN
 S3 | S3 SCALE: 1:50



NOTE: AT WEST STAIR COLUMN FOUNDATION OMIT FOOTER & DOWEL INTO PERIMETER WALL FOUNDATION

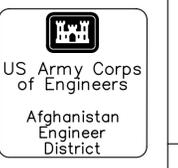
A DETAIL
 S3 | S3 SCALE: 1:10



NOTE:
 1. USE SIMILAR DETAIL FOR LADDER.

B DETAIL
 S3 | S3 SCALE: 1:10

- NOTES:**
1. FINISH GRADE ELEVATION SHALL BE (DATUM 0.0) ALL PLUS OR MINUS DIMENSIONS INDICATED ON PLAN OR REFERRED TO IN NOTES RELATE TO FINISH GRADE ELEVATION.
 2. TOP OF FOOTINGS: SEE PLAN
 3. REFER TO SHEETS S1 AND S2 FOR STRUCTURAL NOTES, BASIS OF DESIGN, SYMBOLS AND ABBREVIATIONS.
 4. REFER TO ARCHITECTURAL SHEETS FOR MASONRY PARTITION TYPES
 5. ALL CMU CELLS TO BE FULLY GROUTED. SEE SHEET S5 FOR REINF SIZE, SPACING & DETAILS.
 6. CONCRETE ROOF AND FLOOR STRUCTURE SHALL BE POURED-IN-PLACE IN ONE CONTINUOUS OPERATION AND SHORED AS REQUIRED UNTIL THE CONCRETE REACHES 75% OF ITS STRENGTH AS A MINIMUM.
 7. COORD W/ ARCHITECTURAL SHEETS FOR COLD-FORMED STEEL OVERBUILT FRAMING ABOVE ROOF SLAB.
 8. COLD-FORMED METAL OVERBUILT ROOF FRAMING NOT SHOWN FOR CLARITY. SEE OVERBUILT ROOF FRAMING DETAILS AND SECTIONS ON SHEET S4.



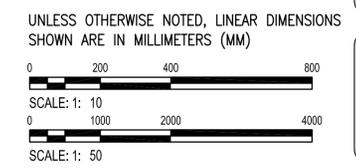
SYMBOL	DATE	DESCRIPTION

DESIGNED BY: GPH	DATE: 09-30-09
DWN BY: MDB	SUBMITTED BY: BAKER
CHK BY: CWV	FILE NO: ANPSUS-103XXX

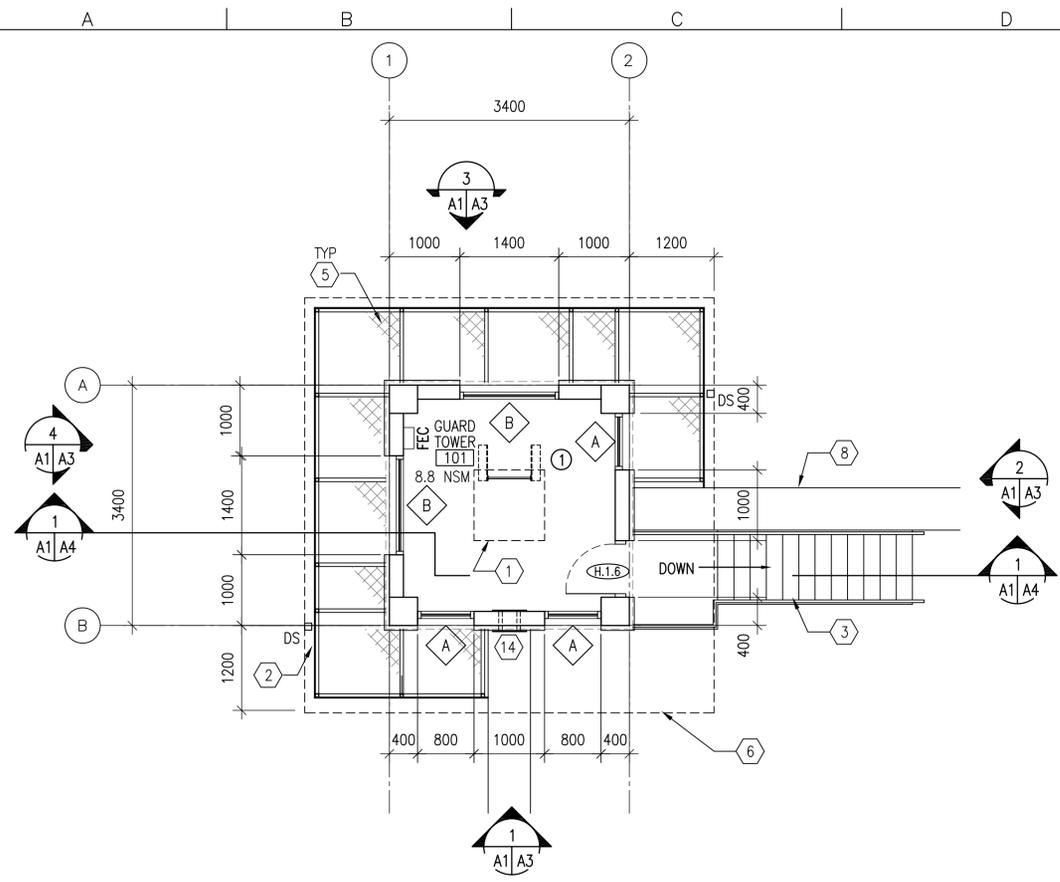
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 A Unit of Michael Baker Corporation
 1000 Business Park
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 Moon Township, PA 15108
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AFGHAN NATIONAL POLICE
 STANDARD DESIGN
 GUARD TOWER
 FOUNDATION, FLOOR FRAMING AND ROOF PLANS

SHEET REFERENCE NUMBER:
S3



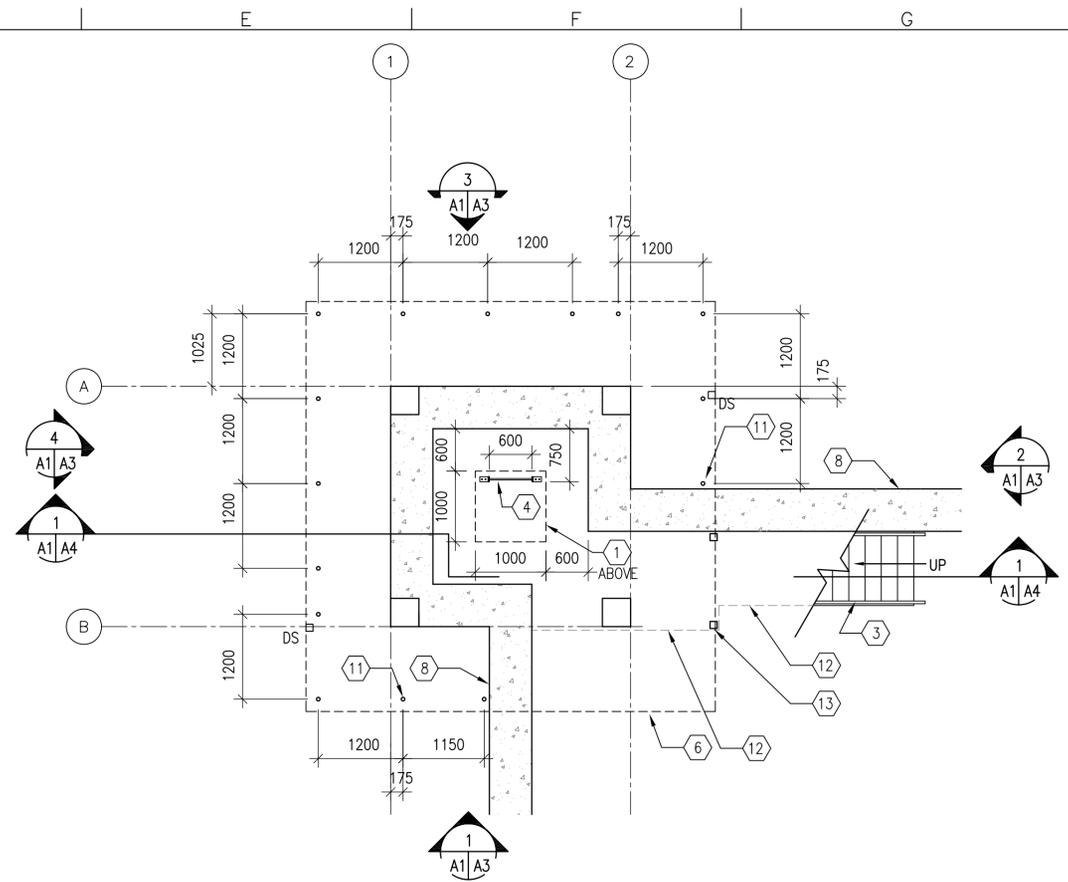
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1
A1 | A1

FIRST FLOOR PLAN

SCALE: 1:50
11.6 GSM



2
A1 | A1

GROUND FLOOR PLAN

SCALE: 1:50

- ROOM FINISHES:** (X)
- WALLS: PAINTED PLASTER,
FLOOR: SEALED CONCRETE
CEILING: PAINTED PLASTER APPLIED TO STRUCTURE

- LEGEND:**
- (F.1.4) DOOR TYPE, SEE SHEET A5
 - (A) WINDOW TYPE, SEE SHEET A5
 - (X) KEY NOTE
 - FEC FIRE EXTINGUISHER CABINET
 - (1) ROOM FINISH TYPE DESIGNATION

UNLESS OTHERWISE NOTED, LINEAR DIMENSIONS SHOWN ARE IN MILLIMETERS (MM)

SCALE: 1: 50

GENERAL NOTES:

- OPENINGS FOR DOORS SHALL BE LOCATED 200 MM FROM THE ADJACENT WALL UNLESS NOTED OTHERWISE.
- SURFACES TO BE PAINTED SHALL BE CLEAN AND FREE OF FOREIGN MATTER BEFORE APPLICATION OF PAINT. CLEANING SHALL BE SCHEDULED SO THAT DUST AND OTHER CONTAMINANTS WILL NOT FALL ON WET, NEWLY PAINTED SURFACES.
- CONCRETE AND INTERIOR MASONRY SURFACES GROUTED SOLID SHALL BE ALLOWED TO DRY AT LEAST 30 DAYS BEFORE PAINTING EXCEPT CONCRETE SLAB ON GRADE WHICH SHALL BE ALLOWED TO CURE 90 DAYS BEFORE PAINTING.
- PAINTS CONTAINING LEAD IN EXCESS OF 0.06 PERCENT BY WEIGHT OF THE TOTAL NONVOLATILE CONTENT SHALL NOT BE USED.
- MERCURIAL FUNGICIDES SHALL NOT BE USED IN OIL-BASE PAINT.
- REMOVE LOOSE DIRT AND CLEAN SURFACES BEFORE PAINTING. APPLY PAINT TO INTERIOR STRUCTURAL RIGID FRAMINGS AND CEILINGS AND TEST FOR ADHESION. PRIMER COAT FOR MASONRY. INITIAL FIRST COAT WITH AN ACRYLIC LATEX PAINT FOR EXTERIOR SURFACES AND A SECOND COAT WITH A WATER REPELLENT ACRYLIC LATEX PAINT.
- METAL DOORS AND FRAMES SHALL RECEIVE A PRIMER COAT PLUS TWO COATS OF PAINT.
- DIMENSIONS ARE TO STRUCTURAL COLUMN GRID, EDGE OF WINDOW OPENINGS, AND TO HINGE SIDE OF DOOR OPENINGS.

KEY NOTES: (X)

- 900 MM x 900 MM FLOOR HATCH - RE: DETAIL 1/A6.
- RPG STANDOFF SCREEN
- EXTERIOR STEEL STAIR.
- LADDER - RE: DETAIL 3/A6.
- RETURN FENCE HORIZONTALLY TO FACE OF WALL.
- LINE OF ROOF OVERHANG, ABOVE.
- NOT USED
- STONE FORCE PROTECTION WALL.
- NOT USED
- NOT USED
- 50 MM DIAMETER GALVANIZED STEEL PIPE SUPPORT.
- LINE OF STEEL STAIR AND PLATFORM ABOVE.
- STEEL STAIR COLUMN.
- TWO-PIECE WALL THIMBLE AND TRIM PLATE FOR OPTIONAL WOOD BURNING STOVE CHIMNEY PIPE. STOVE AND PIPE BY OTHERS.

US Army Corps of Engineers
Afghanistan Engineer District

DATE	DESCRIPTION	SYMBOL

DESIGNED BY: DATE: 09-30-09	DESIGNED BY: PFF	DATE: 09-30-09
DWN BY: PFF	CHK BY: NLJ	FILE NO: ANPSDA-101XXX
SUBMITTED BY: BAKER		
Michael Baker, Jr. Inc. A Unit of Michael Baker Corporation Attn: Business Park 100 S. 4th Street Moon Township, PA 15108 www.mbakercorp.com		

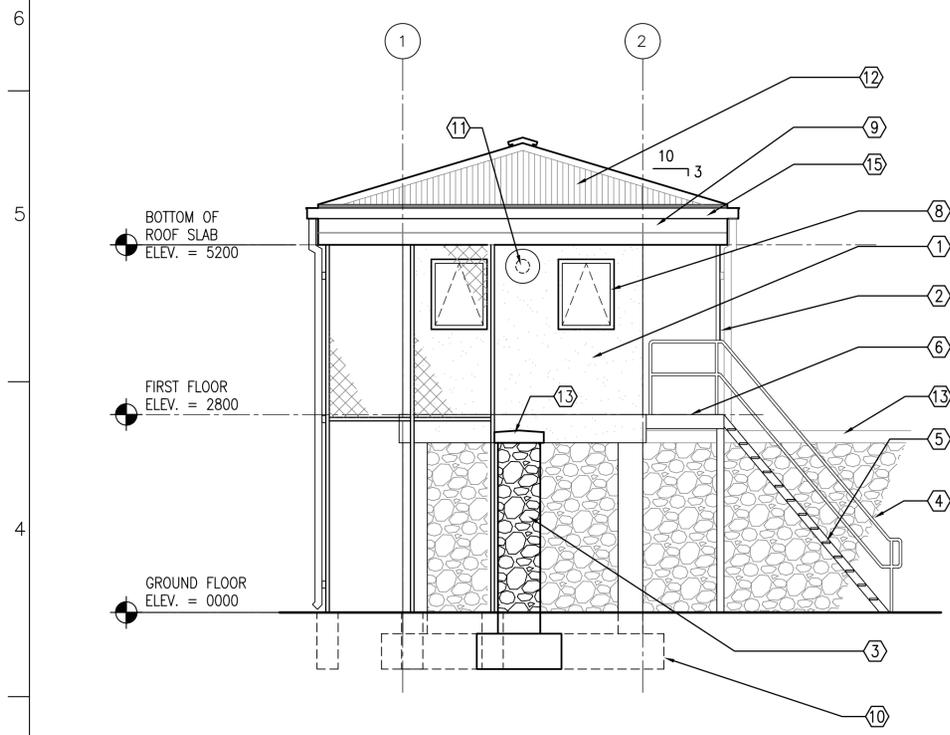
AFGHAN NATIONAL POLICE
STANDARD DESIGN
GUARD TOWER

FLOOR PLANS

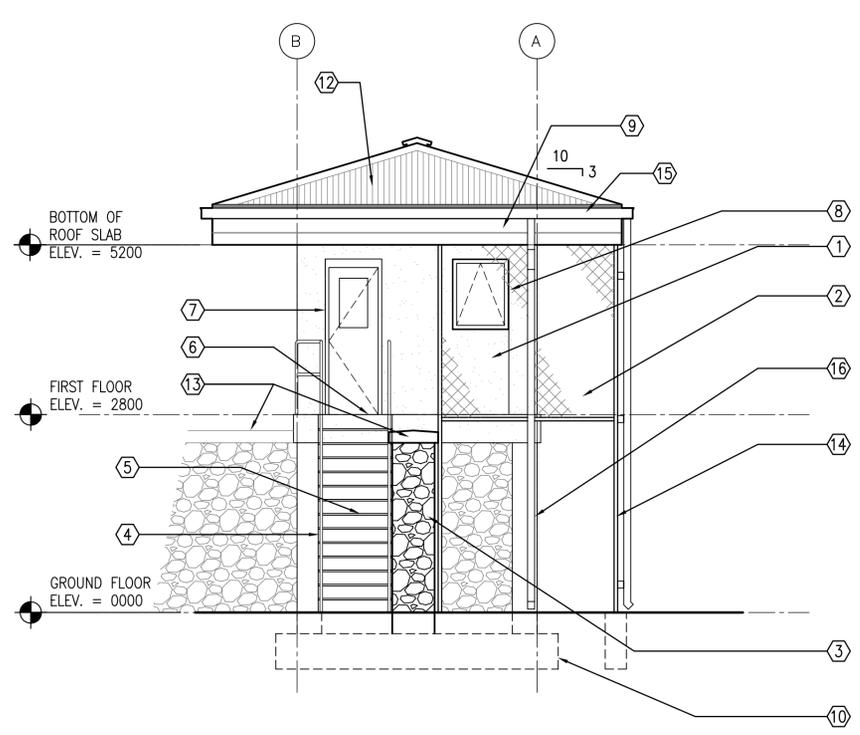
SHEET REFERENCE NUMBER:
A1

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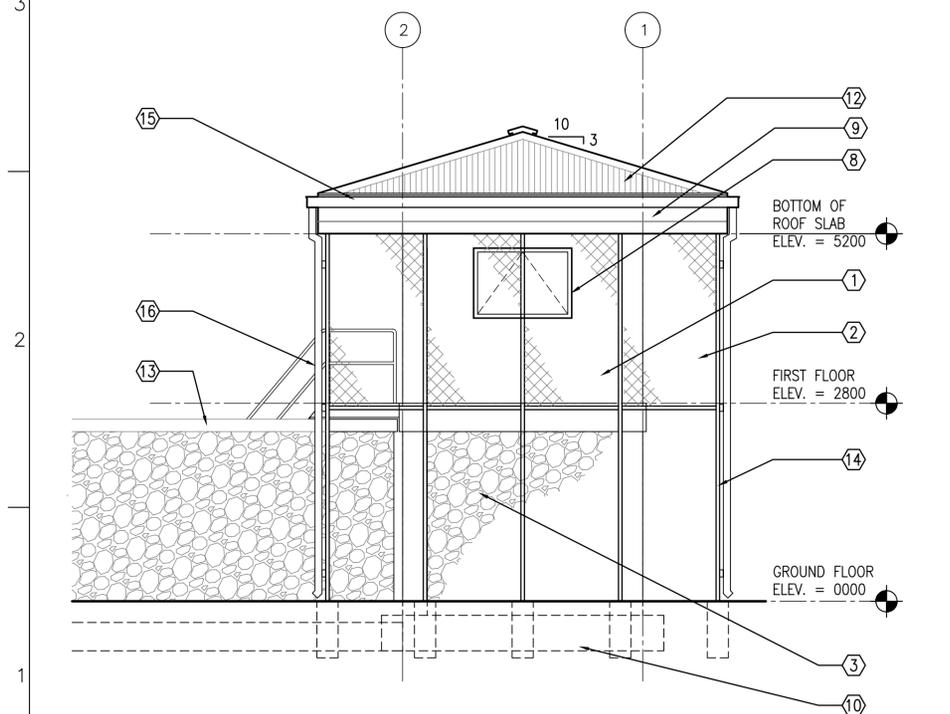
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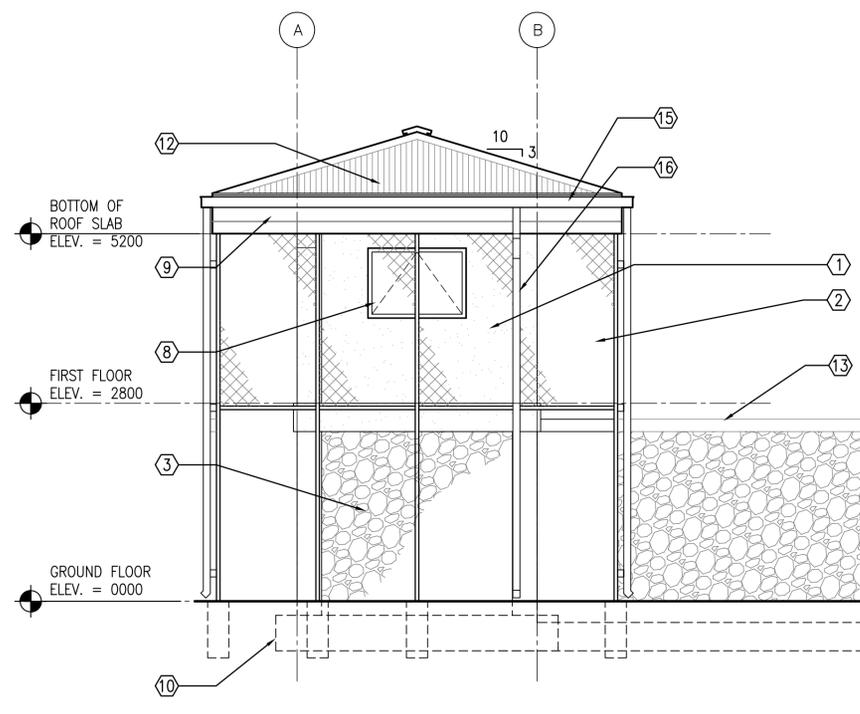
1 EAST ELEVATION
A1 A3 SCALE: 1:50



2 NORTH ELEVATION
A1 A3 SCALE: 1:50



3 WEST ELEVATION
A1 A3 SCALE: 1:50



4 SOUTH ELEVATION
A1 A3 SCALE: 1:50

KEY NOTES:

1. STUCCO AND RIGID INSULATION SYSTEM ON CMU AND CONCRETE
2. RPG STANDOFF SCREEN
3. STONE FORCE PROTECTION WALL, BEYOND
4. STEEL PIPE RAILING
5. STEEL STAIR TREADS
6. STEEL DIAMOND PLATE PLATFORM
7. STEEL FRAME AND DOOR WITH PLEXI GLASS LITE
8. WOOD AWNING WINDOW
9. STEEL FASCIA
10. SEE STRUCTURAL DRAWINGS FOR CONCRETE FOOTING
11. TWO-PIECE WALL THIMBLE AND TRIM PLATE FOR OPTIONAL WOOD BURNING STOVE CHIMNEY PIPE, STOVE AND PIPE BY OTHERS.
12. CORRUGATED METAL ROOF PANELS ON COLD-FORMED METAL FRAMING
13. CAST CONCRETE WALL CAP
14. 50 DIAMETER GALVANIZED STEEL PIPE SUPPORTS
15. METAL GUTTER
16. METAL DOWNSPOUT WITH SPLASH BLOCK


US Army Corps of Engineers
Afghanistan Engineer District

SYMBOL	DESCRIPTION	DATE	APP

DESIGNED BY: PFF	DATE: 09-30-09
DWN BY: PFF	SUBMITTED BY: BAKER
CHK BY: NLJ	FILE NO: ANPSDA-203XXX

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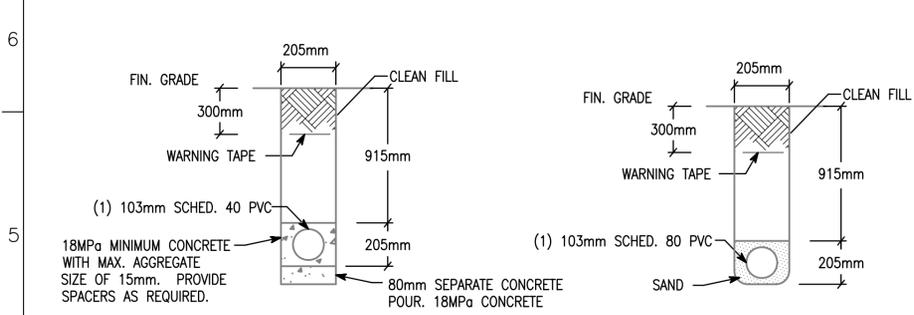
AFGHAN NATIONAL POLICE
STANDARD DESIGN
GUARD TOWER
EXTERIOR ELEVATIONS

UNLESS OTHERWISE NOTED, LINEAR DIMENSIONS SHOWN ARE IN MILLIMETERS (MM)
0 1000 2000 4000
SCALE: 1: 50

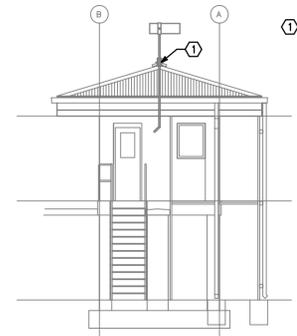
SHEET REFERENCE NUMBER:
A3

100% SUBMISSION

A B C D E F G H

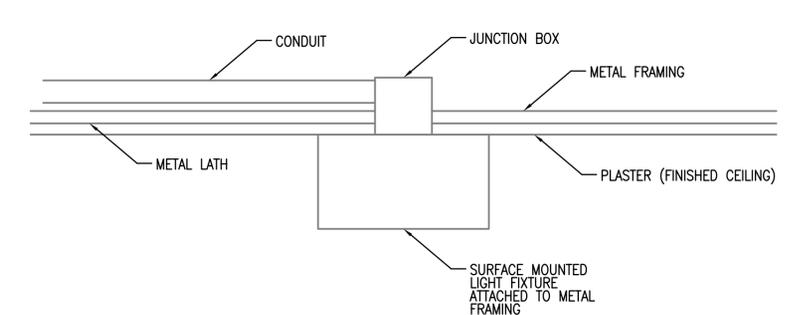


1 TYPICAL DUCT BANK DETAILS FOR CONDUIT IN SAND OR CONCRETE
SCALE: N.T.S.

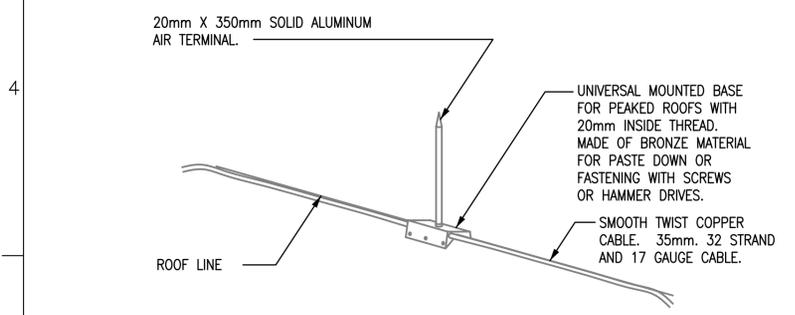


2 GUARD TOWER ELEVATION
SCALE: N.T.S.

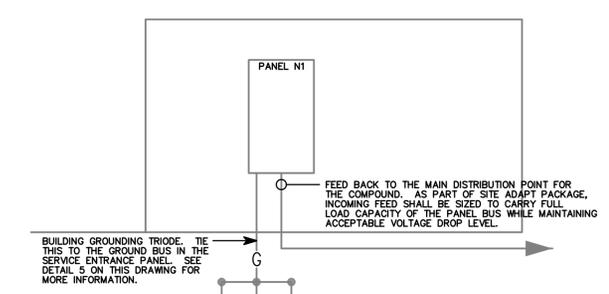
TOWER NUMBERED NOTE
 ① CONTRACTOR SHALL ENSURE THAT THE MOUNTING HARDWARE FOR THE SEARCHLIGHT CREATES A WEATHERPROOF SEAL WITH THE ROOF. CONTRACTOR SHALL PROVIDE ANY NECESSARY GASKETING TO ENSURE THERE IS NO WATER LEAKAGE INTO THE GUARD TOWER.



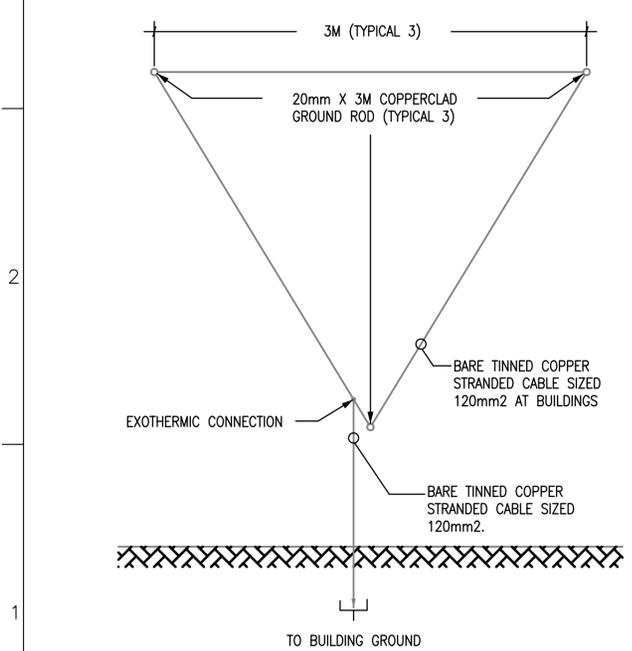
3 TYPICAL DETAIL FOR SURFACE MOUNTED LIGHT FIXTURES
SCALE: N.T.S.



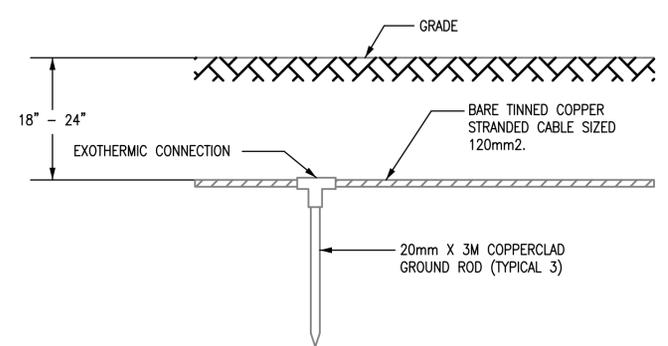
4 LIGHTNING PROTECTION AIR TERMINAL DETAIL
SCALE: N.T.S.



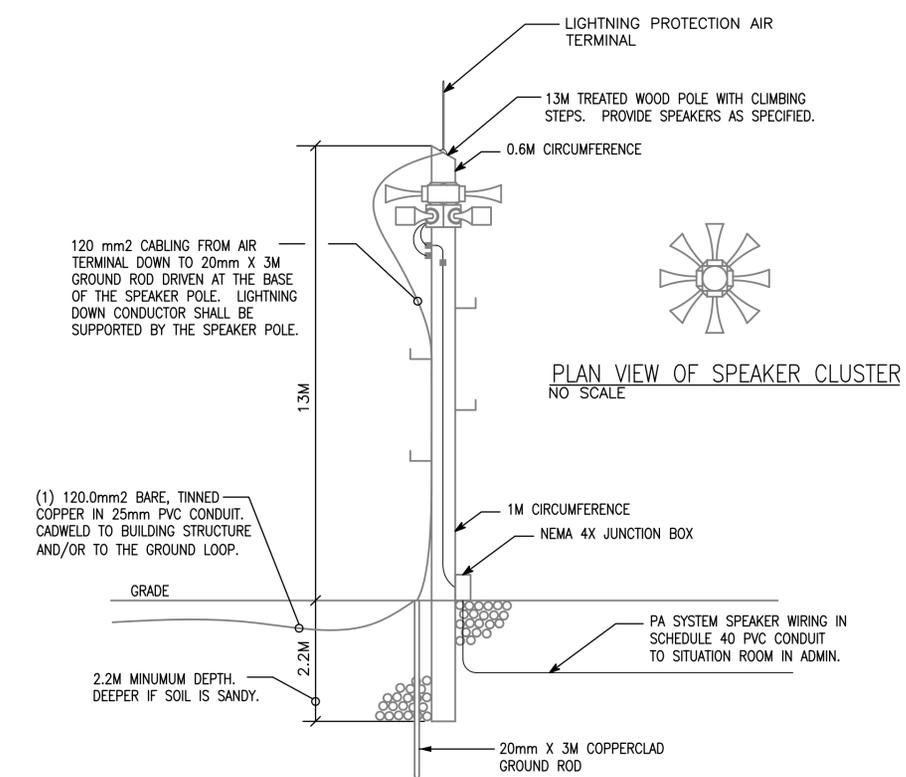
5 N.1 RISER DIAGRAM
SCALE: N.T.S.



6 GROUND TRIPOD SYSTEM DETAIL - PLAN
SCALE: N.T.S.



7 GROUND TRIPOD SYSTEM DETAIL - ELEVATION
SCALE: N.T.S.



8 POLE DETAIL - PA SYSTEM
SCALE: N.T.S.

US Army Corps of Engineers
Afghanistan Engineer District

NO.	DATE	DESCRIPTION	SYMBOL

DESIGNED BY: JRG
 SUBMITTED BY: BAKER
 DATE: 09-30-09
 CHK BY: JRG
 FILE NO.: ANFSDE-502XXX

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AFGHAN NATIONAL POLICE
 STANDARD DESIGN
 GUARD TOWER
 DETAILS

SHEET REFERENCE NUMBER:
E2

100% SUBMISSION

