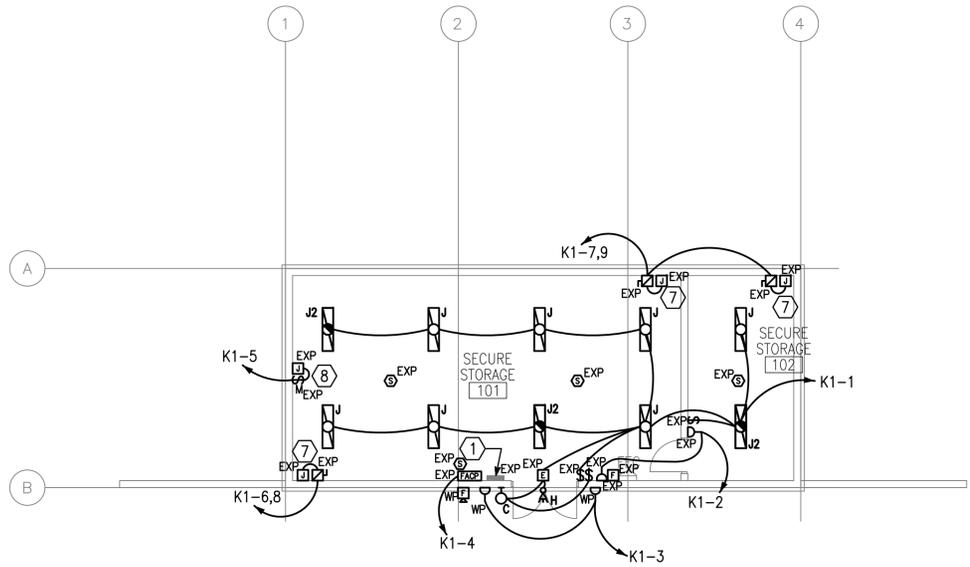
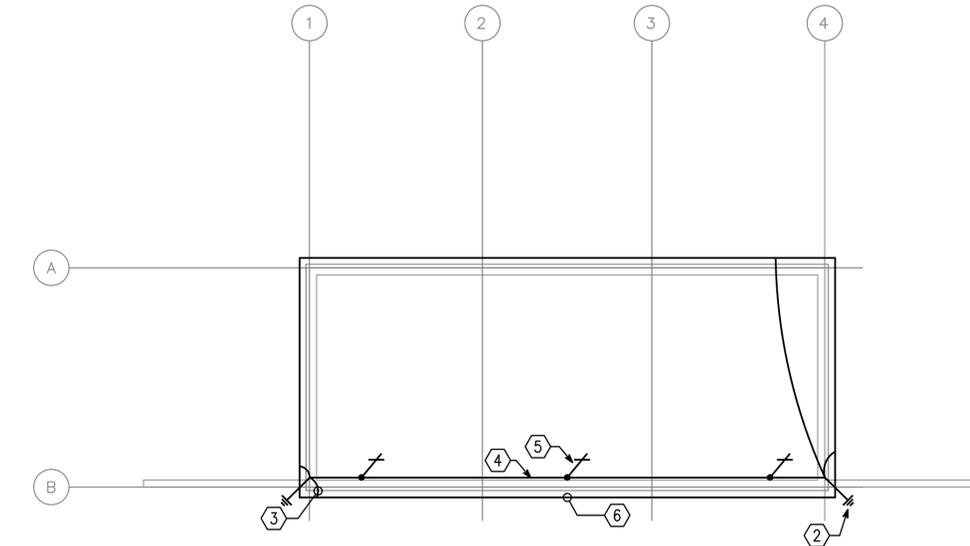


A B C D E F G H

6
5
4
3
2
1



1
E1 | E1
LIGHTING AND POWER PLAN
SCALE: 1:100



2
E1 | E1
ROOF LIGHTNING PROTECTION PLAN
SCALE: 1:100

GENERAL NOTES:

1. REFER TO DRAWING #E0 FOR THE ELECTRICAL SYMBOLS LIST.
2. EXIT SIGNS SHALL BE WIRED AHEAD OF ANY LOCAL SWITCHING ON CIRCUITS.
3. REFER TO DRAWING #E3 FOR THE LIGHTING FIXTURE SCHEDULE.
4. REFER TO DRAWING #E2 FOR THE POWER RISER.
5. REFER TO DRAWING #E4 FOR PANEL SCHEDULES.
6. LIGHT FIXTURES INDICATED AS EMERGENCY SHALL BE PROVIDED WITH A BATTERY BACKUP BALLAST.
7. COORDINATE EXACT MOUNTING LOCATION OF DISCONNECTING MEANS FOR MECHANICAL AND PLUMBING EQUIPMENT IN THE FIELD.
8. FUSIBLE SAFETY SWITCHES THAT ARE NOT OTHERWISE IDENTIFIED SHALL BE 380V, 1P, 30A FUSED SAFETY SWITCHES WITH 20A FUSES.
9. ALL PANELS, DEVICES, EQUIPMENT, ETC. SHALL BE EXPLOSION-PROOF OR SHALL BE PROVIDED WITH AN EXPLOSION-PROOF ENCLOSURE. ALL WORK IN THIS BUILDING SHALL BE IN ACCORDANCE WITH NEC ARTICLE 511. EXPLOSION PROOF EQUIPMENT SHALL BE USED FOR ALL FIXTURES AND DEVICES. PROVIDE CONDUIT SEALS WHERE REQUIRED. ALL WIRING SHALL BE IN ACCORDANCE WITH NEC ARTICLE 501. FOR CLASS I LOCATIONS.

NUMBERED NOTES:

- ① PANEL K1 WITH NEMA 4X EXPLOSION-PROOF COVER.
- ② INSTALL DOWN CONDUCTOR IN 25MM SCHEDULE 80 PVC CONDUIT TO 20MM DIAMETER X 3 METERS SOLID COPPER TINNED GROUND ROD. (TYPICAL)
- ③ CADWELD TO BUILDING STRUCTURE AT 18 METERS ON CENTER AROUND THE ENTIRE PERIMETER OF THE BUILDING. (TYPICAL)
- ④ 120mm LIGHTNING PROTECTION CABLE.
- ⑤ AIR TERMINAL. (TYPICAL)
- ⑥ (1) 120.0MM2 BARE, TINNED, COPPER COUNTERPOISE GROUND 700MM BELOW GRADE.
- ⑦ PROVIDE POWER CONNECTION TO ELECTRIC UNIT HEATER #2. SEE DRAWINGS #M1 AND #E4 FOR MORE INFORMATION.
- ⑧ PROVIDE POWER CONNECTION TO EXHAUST FANS. SEE DRAWINGS #M1 AND #E4 FOR MORE INFORMATION.

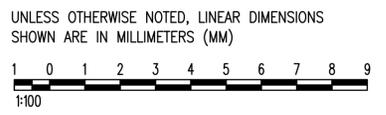


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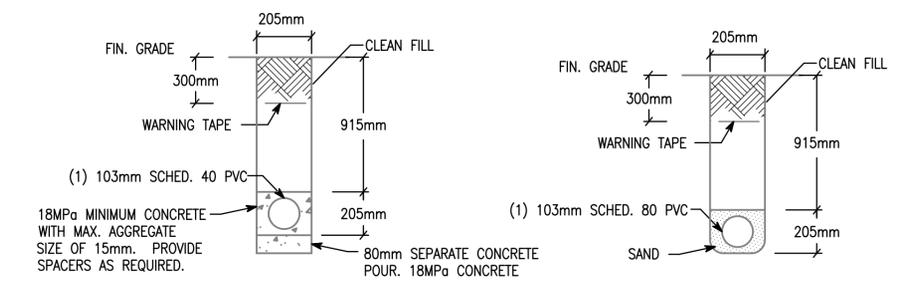
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DWN BY: JRG	SUBMITTED BY: BAKER
CHK BY: JRG	FILE NO: ANPSDE-101XXX
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AFGHAN NATIONAL POLICE
STANDARD DESIGN
SECURE STORAGE
LIGHTING AND POWER PLAN

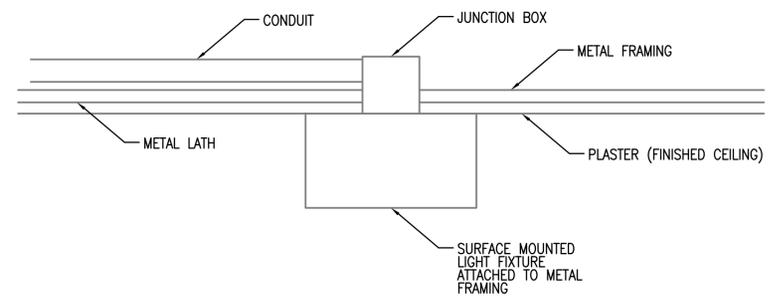
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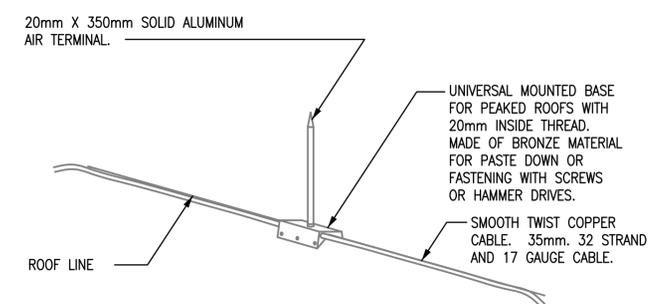
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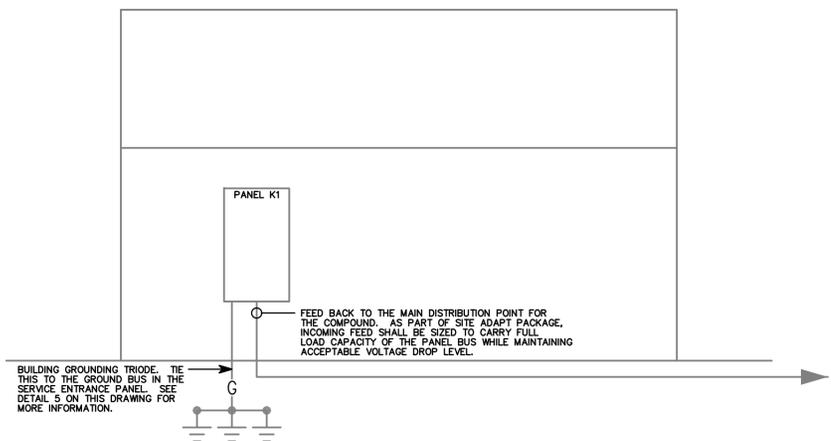
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E2 E2
TYPICAL DUCT BANK DETAILS FOR CONDUIT IN SAND OR CONCRETE
SCALE: N.T.S.



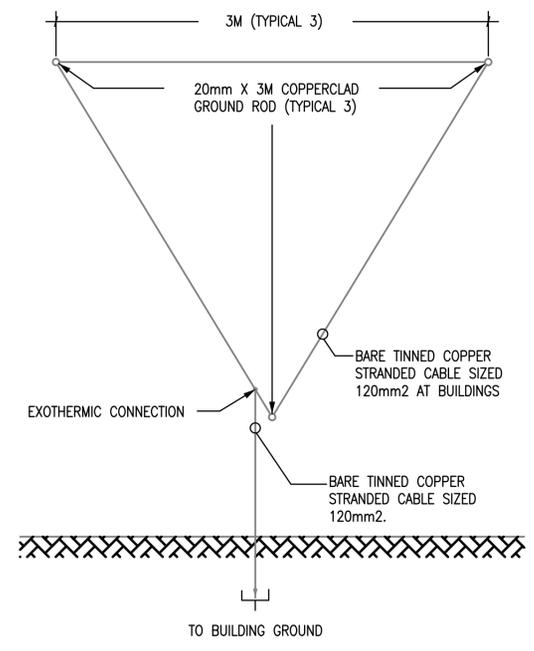
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E2 E2
TYPICAL DETAIL FOR SURFACE MOUNTED LIGHT FIXTURES
SCALE: N.T.S.



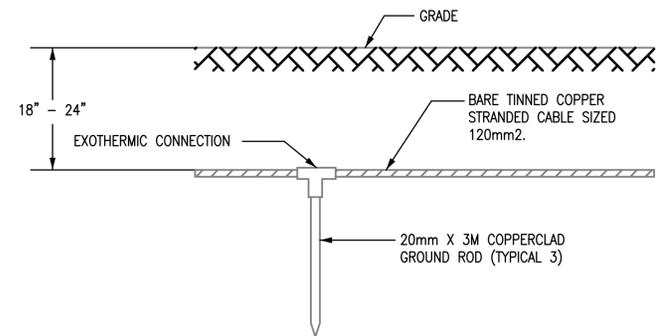
3
E2 E2
LIGHTNING PROTECTION AIR TERMINAL DETAIL
SCALE: N.T.S.



4
E2 E2
B.1 RISER DIAGRAM
SCALE: N.T.S.



5
E2 E2
GROUND TRIPOD SYSTEM DETAIL - PLAN
SCALE: N.T.S.



6
E2 E2
GROUND TRIPOD SYSTEM DETAIL - ELEVATION
SCALE: N.T.S.

US Army Corps of Engineers
Afghanistan Engineer District

NO.	DATE	DESCRIPTION	SYMBOL

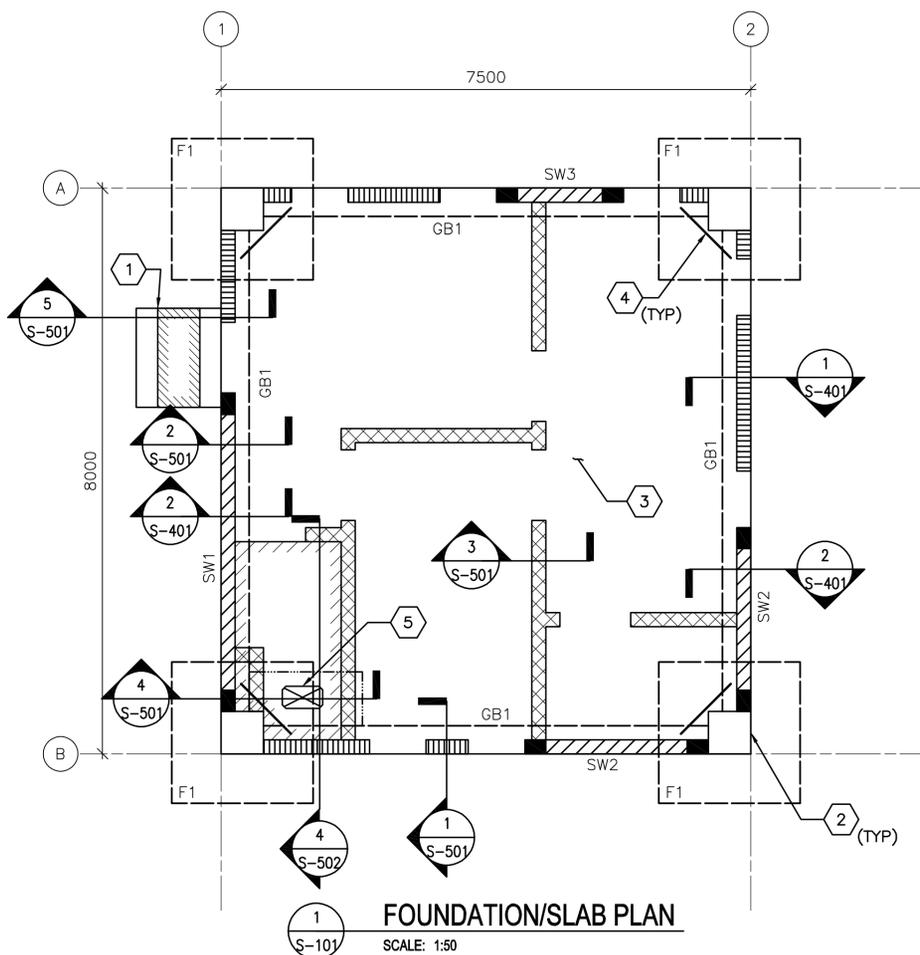
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CHK BY:	JRG	FILE NO.:	ANPSDE-502XXX

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STANDARD DESIGN
SECURE STORAGE
DETAILS

SHEET REFERENCE NUMBER:
E2

100% SUBMISSION



FOUNDATION/SLAB PLAN
 SCALE: 1:50

FOUNDATION/SLAB PLAN NOTES:

1. REFER TO SHEET S-001 FOR STRUCTURAL NOTES AND DESIGN CRITERIA.
2. FINISH FIRST FLOOR ELEVATION SHALL BE (DATUM 0.00) ALL PLUS OR MINUS DIMENSIONS INDICATED ON PLAN OR REFERRED TO IN NOTES RELATE TO FINISH FLOOR ELEVATION.
3. SLAB-ON-GRADE IS 150 WITH #13 @ 300 OC EW LOCATED 38 FROM T/SLAB.
4. TOP OF EXTERIOR FOOTINGS SHALL BE -950 UNLESS OTHERWISE INDICATED.
5. COLUMN FOOTINGS INDICATED BY F# ON PLAN. REFER TO COLUMN FOOTING SCHEDULE ON SHEET S-601.
6. REFER TO COLUMN SCHEDULE ON SHEET S-601.
7. GRADE BEAM INDICATED BY GB# ON PLAN, REFER TO BEAM SCHEDULE ON SHEET S-601.
8. SHEARWALL INDICATED BY SW# ON PLAN, REFER TO SHEARWALL SCHEDULE ON SHEET S-601.
9. SEE TYP EXTERIOR CMU WALL DETAIL ON SHEET S-701.
10. SEE MECHANICAL AND ELECTRICAL SHEETS FOR CONCRETE PAD LOCATIONS, SIZES, AND THICKNESS NOT SHOWN. SEE SHEET S-701 FOR DETAILS.
11. THICKENED SLAB UNDER PERIMETER CMU WALLS NOT SHOWN FOR CLARITY.

FOUNDATION/SLAB PLAN KEY NOTES: (X)

1. CONC PAD (ENTRANCE)-SEE ARCH DWGS FOR INFORMATION
2. REINF CONC COLUMN
3. REINF CONC SLAB-ON-GRADE
4. (2)-#13 RE-ENTRANT CORNER BARS - SEE S-701 FOR INFORMATION
5. SLAB OPENING - COORD W/ ARCH & MECH SHEETS

FOUNDATION/SLAB PLAN LEGEND:

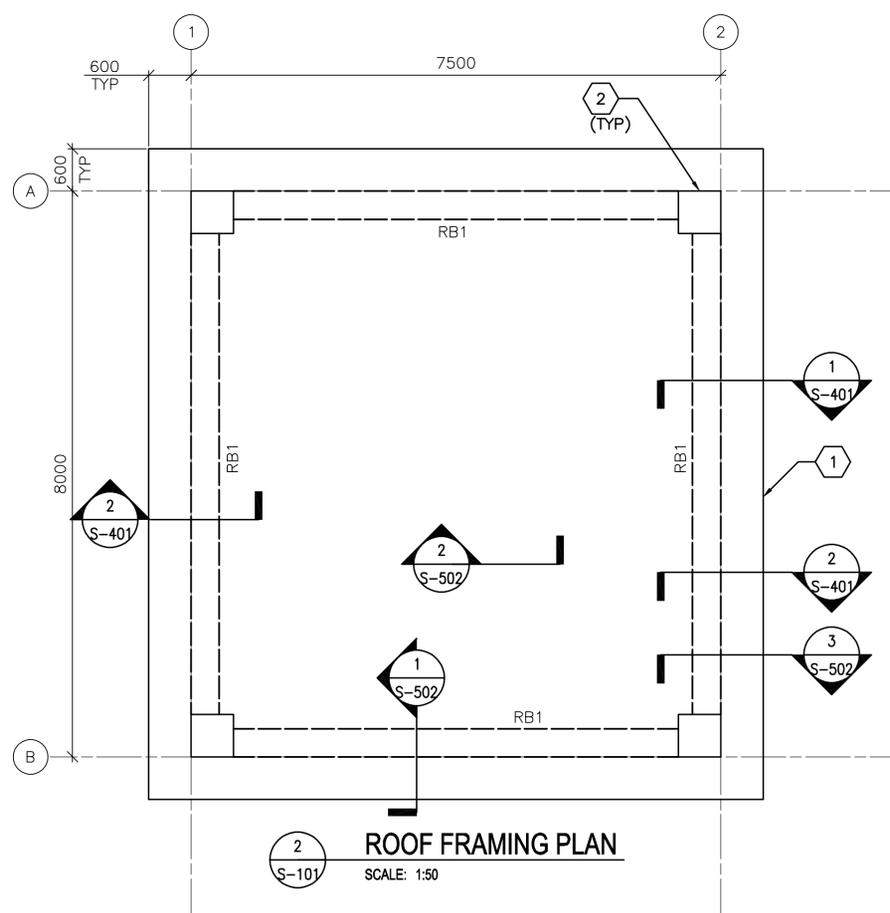
-  REINF CONC SHEAR WALL
-  REINF CONCRETE INFILL WALL
-  REINF CMU WALL
-  INDICATES DROP SLAB 65 BELOW FINISH FLOOR
-  INDICATES DROP SLAB FOR DOOR STOOP 2/A-503
-  SLAB OPENING
-  OUTLINE OF THICKENED SLAB AREAS

ROOF FRAMING PLAN NOTES:

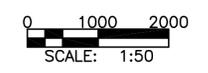
1. REFER TO SHEETS S-001 FOR STRUCTURAL NOTES AND BASIS OF DESIGN.
2. TOP OF SLAB ELEVATION = 3600 UNLESS NOTED OTHERWISE.
3. ROOF SLAB IS 200 WITH #16 @ 300 OC EW T&B.
4. ROOF BEAM INDICATED BY RB# ON PLAN. REFER TO BEAM SCHEDULE ON SHEET S-601.
5. COORDINATE WITH ARCHITECTURAL SHEETS FOR COLD-FORMED STEEL OVERBUILD FRAMING ABOVE ROOF SLAB.
6. COLD-FORMED METAL OVERBUILD ROOF FRAMING NOT SHOWN FOR CLARITY. SEE OVERBUILD ROOF FRAMING DETAILS AND SECTIONS ON SHEET S-702.
7. OVERHANG AREAS OF ROOF SLAB CONTAIN ROOF VENT PENETRATIONS. REFERENCE ARCHITECTURAL DRAWINGS FOR INFORMATION.

ROOF FRAMING PLAN KEY NOTES: (X)

1. CONC ROOF SLAB (BELOW ROOF OVERBUILD)
2. REINF CONC COLUMN (BELOW CONC ROOF SLAB)



ROOF FRAMING PLAN
 SCALE: 1:50



APPROVED:

 A/E DESIGNER OF RECORD

SEAL:


Rev.	Date	Description	Mark	Appr.	Date

Designed by: KMP/MMY
 Dwn by: RCG
 Cld by: CWV
 Rev: 0
 Date: 8/16/10
 Design file no.
 Drawing code:
 File name: ANAFRUS-101FFP
 Plot date: 8/24/10
 Plot scale: XX

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 AFGHANISTAN ENGINEER DISTRICT
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 A Unit of Michael Baker Corporation
 100 Ardsley Drive
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 www.mbakercorp.com

Submitted by: BAKER

AFGHAN NATIONAL ARMY
 STANDARD DESIGN
 FAMILY RESPONSE UNIT OFFICES (STAND ALONE)
 FOUNDATION/SLAB &
 ROOF FRAMING PLAN

Sheet reference number:
S-101

1

2

3

4

5



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AFGHANISTAN ENGINEER DISTRICT

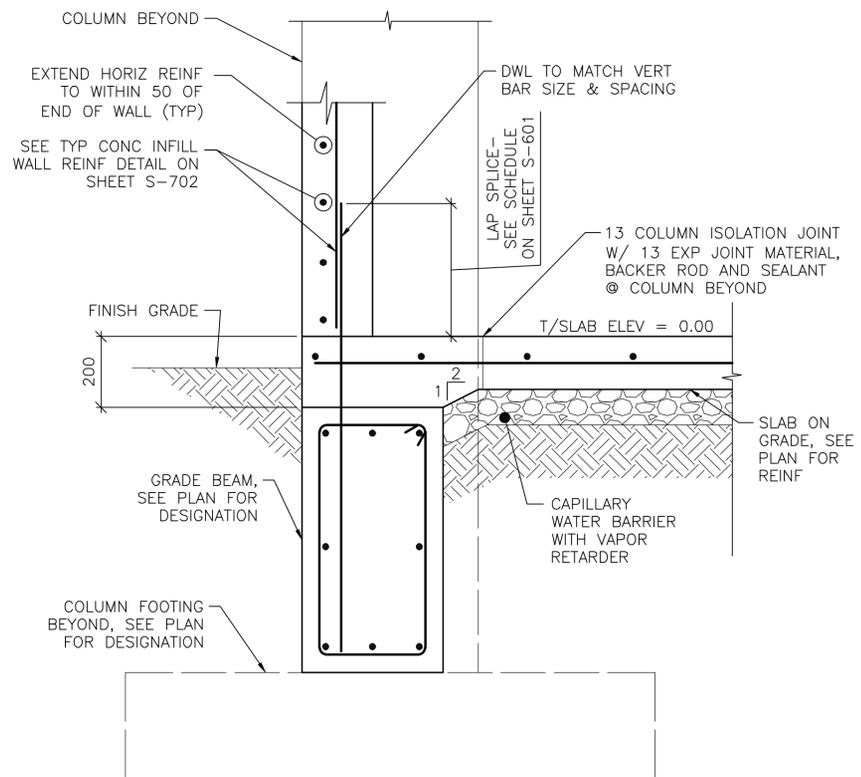
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Designed by: KMP	Checked by: RCG	Reviewed by: LHM	Submitted by: BAKER
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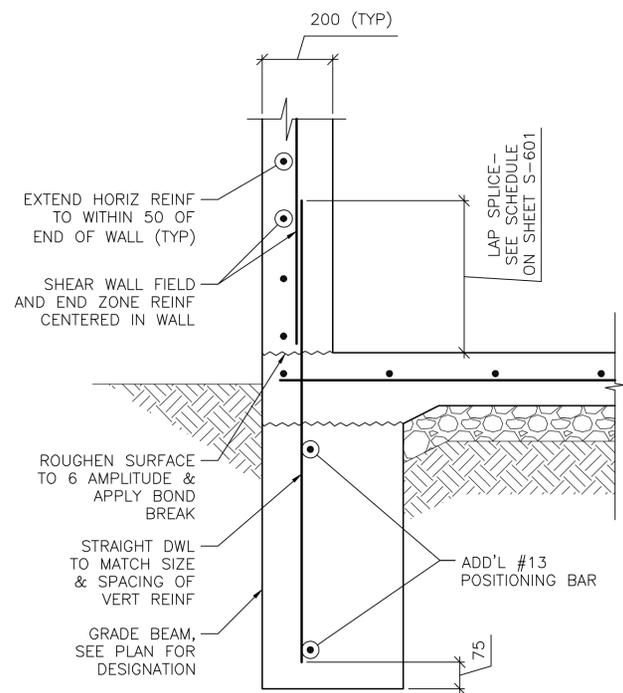
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AFGHAN NATIONAL ARMY
STANDARD DESIGN
FAMILY RESPONSE UNIT OFFICES (STAND ALONE)
FOUNDATION SECTIONS

Sheet reference number:
S-501

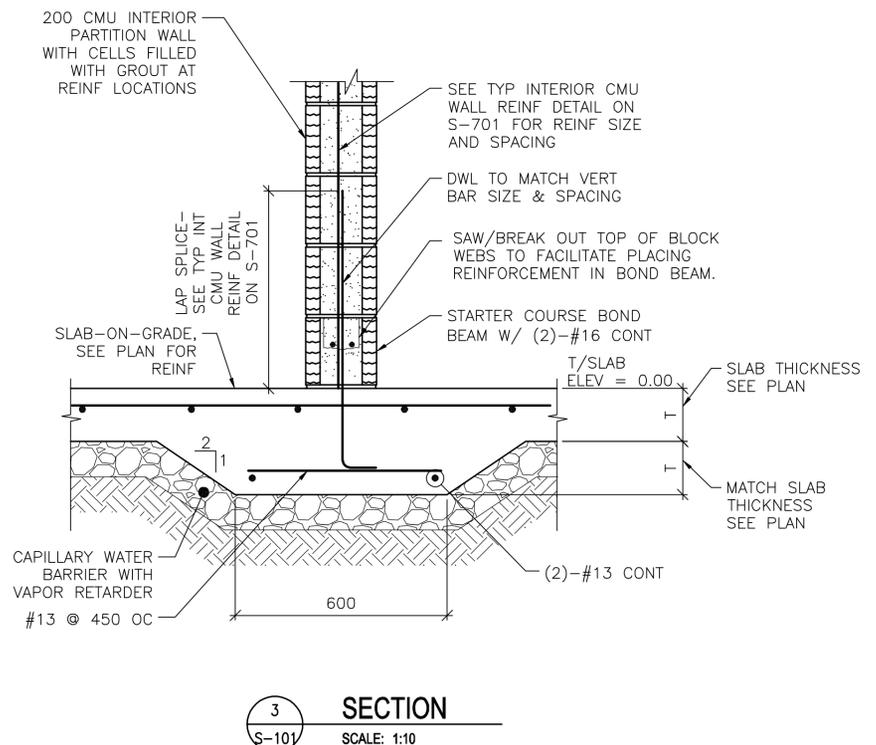


1 SECTION
S-101 SCALE: 1:10

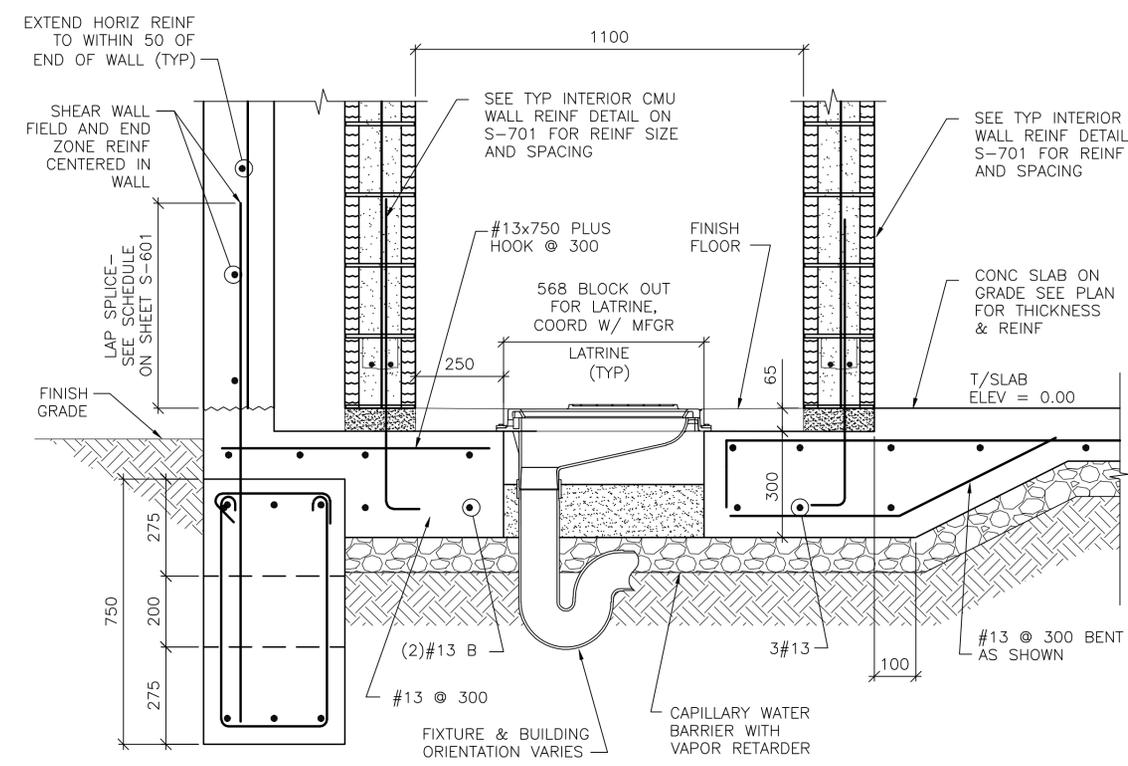


2 SECTION
S-101 SCALE: 1:10

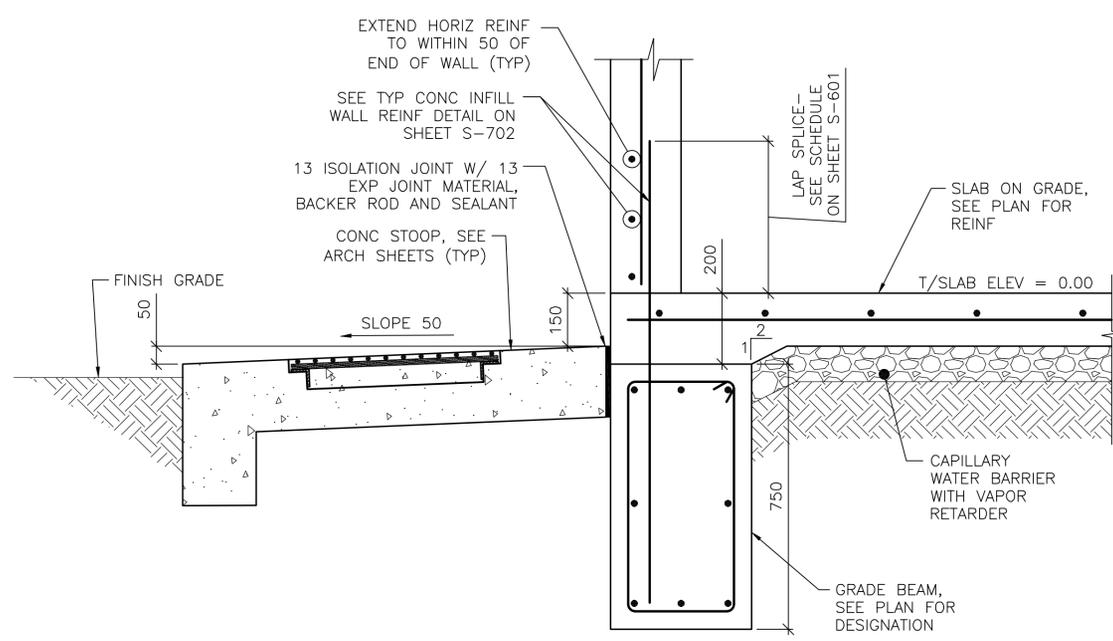
NOTE:
1. SECTION DEPICTS SHEAR WALL TERMINATION ONLY. GRADE BEAM REINFORCING NOT SHOWN FOR CLARITY.
2. SEE SHEET S-601 AND SHEET S-702 FOR SCHEDULED FIELD AND END ZONE REINF.



3 SECTION
S-101 SCALE: 1:10



4 SECTION
S-101 SCALE: 1:10



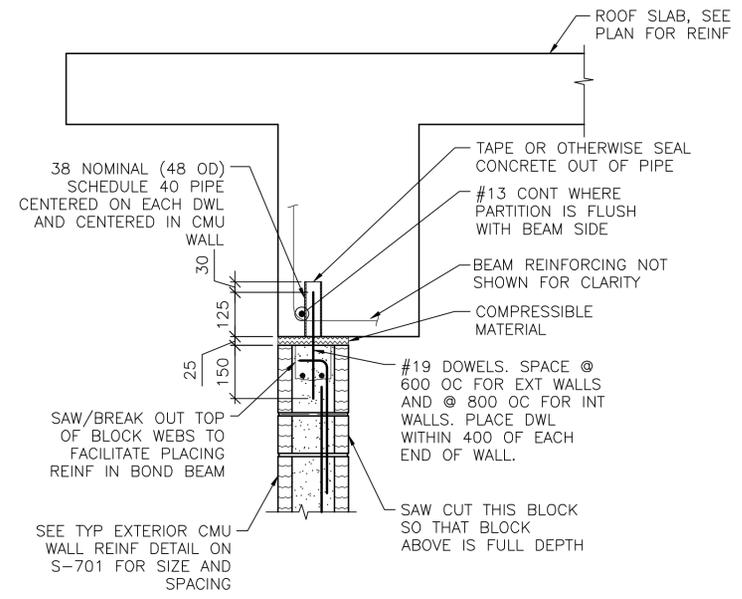
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S-101 SCALE: 1:10



UNLESS OTHERWISE NOTED, LINEAR DIMENSIONS SHOWN ON DRAWINGS ARE IN MILLIMETERS (mm)

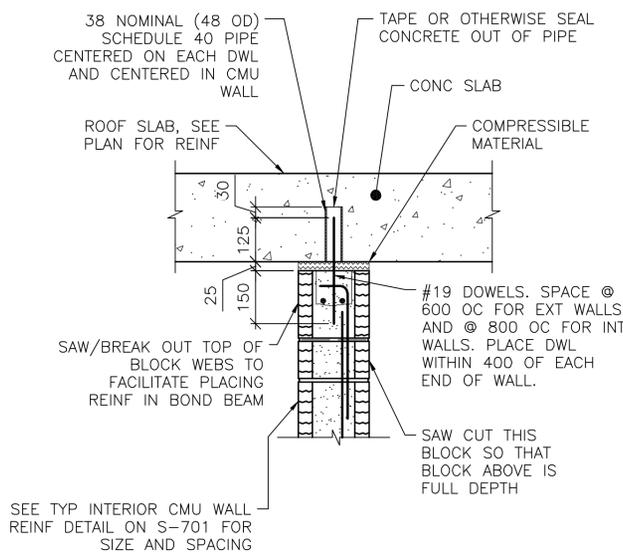
APPROVED:
Chris M...
A/E DESIGNER OF RECORD





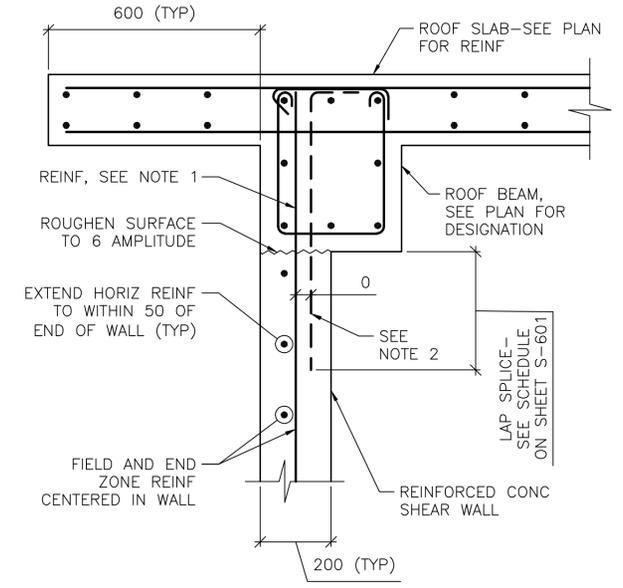
NOTES:
 1. EXTEND DWEL REINF TO 25 CLEAR FROM TOP OF CMU WALL.

1 SECTION
 S-101 SCALE: 1:10



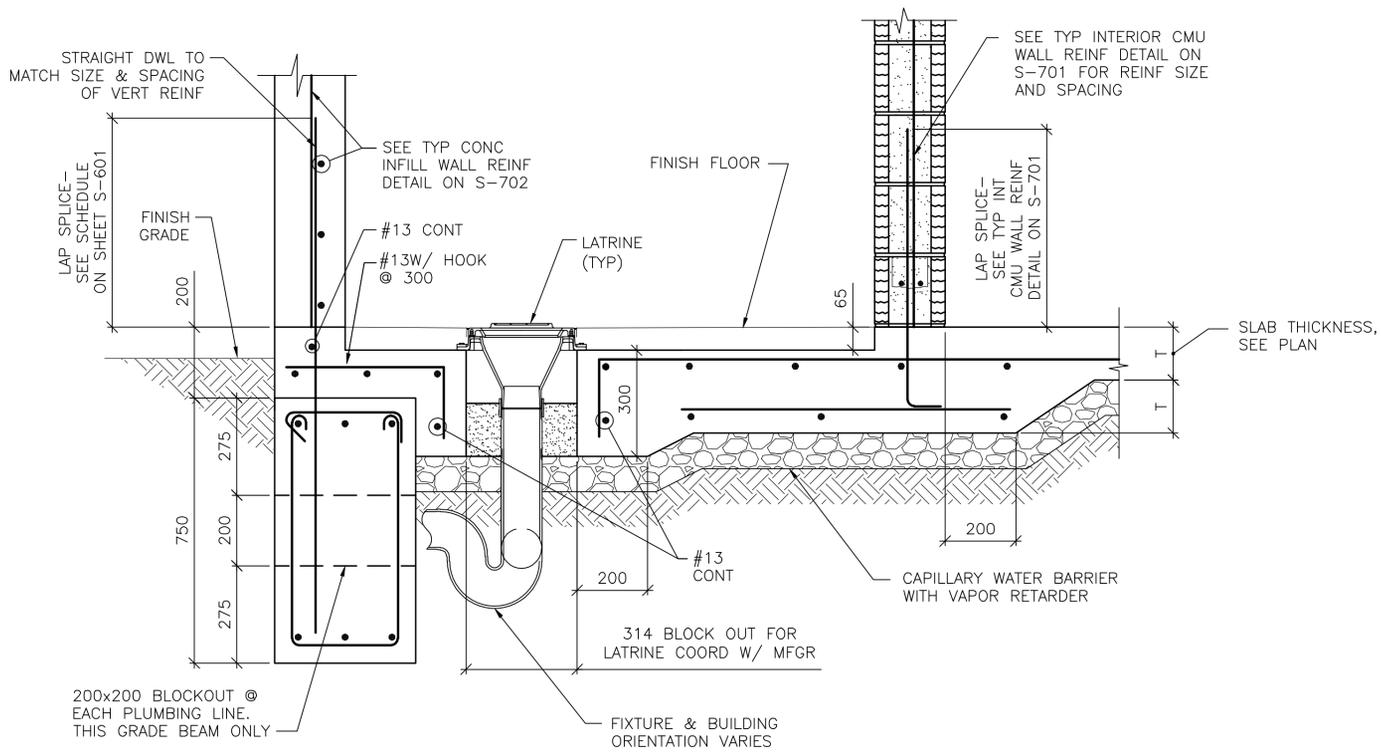
NOTES:
 1. EXTEND DWEL REINF TO 25 CLEAR FROM TOP OF CMU WALL.
 2. SLAB REINF NOT SHOWN FOR CLARITY.

2 SECTION
 S-101 SCALE: 1:10



NOTES:
 1. TERMINATE "FIELD" VERT REINF & END ZONE REINF @ 50 CLEAR FROM TOP OF ROOF SLAB.
 2. WHERE END ZONE REINFORCING CANNOT BE DEVELOPED IN BEAM DEPTH, PROVIDE HOOKED DWLS SAME SIZE & SPACING. PROVIDE TENSION LAP BELOW ROOF BEAM.
 3. SEE SHEET S-601 AND SHEET S-702 FOR SCHEDULED FIELD AND END ZONE REINF.

3 SECTION
 S-101 SCALE: 1:10



4 SECTION
 S-101 SCALE: 1:10



UNLESS OTHERWISE NOTED, LINEAR DIMENSIONS SHOWN ON DRAWINGS ARE IN MILLIMETERS (mm)

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 A/E DESIGNER OF RECORD



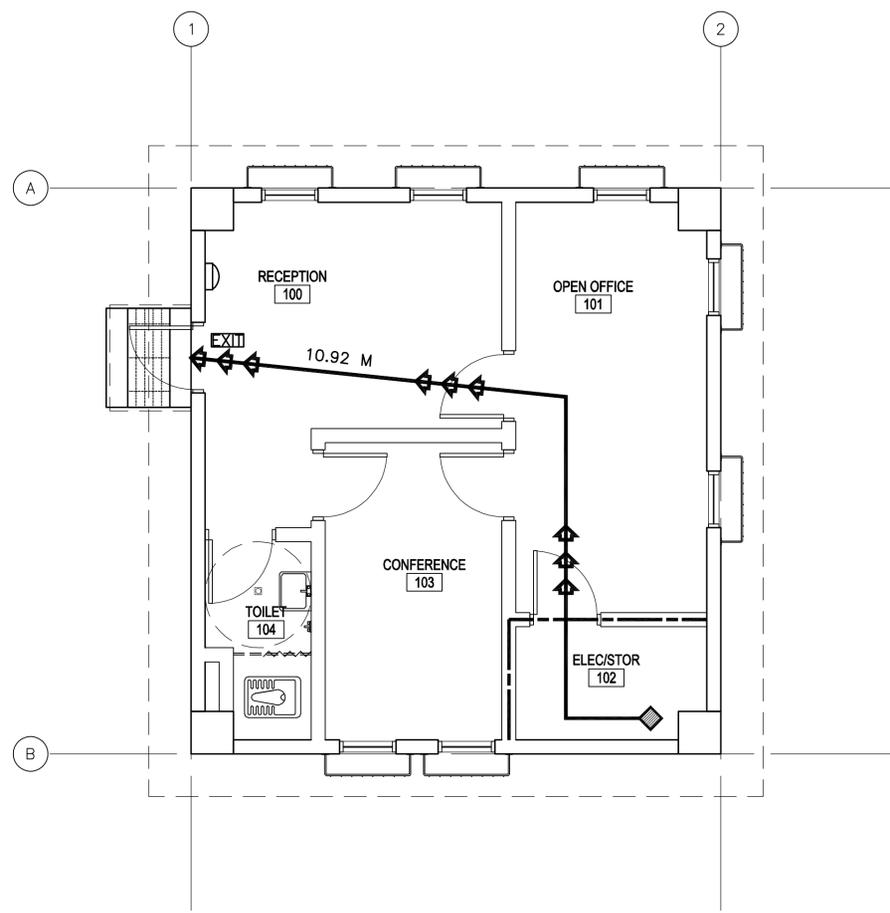
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		Plot date: 8/24/10
		Plot scale: 1:1

Designed by: KMP
 Dwn by: RCG
 Cld by: CWV
 Reviewed by: LHM
 Submitted by: BAKER

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 APO AE 96338
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 A Unit of Michael Baker Corporation
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 100 Alsides Drive, PA 15108
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AFGHAN NATIONAL ARMY
 STANDARD DESIGN
 FAMILY RESPONSE UNIT OFFICES (STAND ALONE)
 FOUNDATION & FRAMING SECTIONS

Sheet reference number:
S-502



1
A-001
FLOOR PLAN LIFE SAFETY PLAN
SCALE: 1:50

LEGEND:

- DENOTES PATHS OF EXIT TRAVEL
- DENOTES DOOR AS AN EMERGENCY EXIT; SEE E-101 FOR ILLUMINATED EXIT SIGNS
- DENOTES STARTING POINT FOR TRAVEL DISTANCE
- DENOTES FIRE EXTINGUISHER LOCATIONS
- (1) HOUR RATED WALL

CODE ANALYSIS:

1. **REFERENCES:**
2006 INTERNATIONAL BUILDING CODE (2006 IBC)
2006 LIFE SAFETY CODE (2006 NFPA 101)
2. **IBC OCCUPANCY CLASSIFICATION:**
GROUP B (BUSINESS NFPA 101 6.1.11 AND CHAPTER 38)
3. **TYPE OF CONSTRUCTION (IBC):** TYPE II-B (UNPROTECTED/NONSPRINKLERED)
4. **IBC TABLE 503: ALLOWABLE HEIGHT AND BUILDING AREAS:**
GROUP B
ALLOWABLE AREA: 2,137 SM
ALLOWABLE HEIGHT: 3 STORIES (16 M)

GROUP B
PROPOSED AREA: 60 SM
PROPOSED HEIGHT: 1 STORY (<16 M)
5. **IBC TABLE 601 & 602: FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS FOR TYPE II-B**

BUILDING ELEMENT	RATING (HOUR)	REFERENCE
STRUCTURAL FRAME (COLUMNS, GIRDERS & TRUSSES)	0	TABLE 601
BEARING WALLS EXTERIOR	0	TABLE 601
BEARING WALLS INTERIOR	0	TABLE 601
NONBEARING WALLS & PARTITIONS INTERIOR	0	TABLE 601
FLOOR CONSTRUCTION	0	TABLE 601
ROOF CONSTRUCTION	0	TABLE 601
EXTERIOR WALL	0	TABLE 602
6. **IBC TABLE 803.5 - INTERIOR WALL AND CEILING FINISH REQUIREMENTS FOR B OCCUPANCY/NONSPRINKLERED**

GROUP	EXIT ENCLOSURES AND EXIT PASSAGEWAY	CORRIDORS	ROOMS AND ENCLOSED SPACES
B	A	B	C
7. **NFPA 101 TABLE 7.3.1.2 - OCCUPANT LOAD**
BUSINESS = 9.3 SM/PERSON BUSINESS PROPOSED = 6 OCCUPANTS
8. **NFPA 101 TABLE 7.3.3.1 - EGRESS CAPACITY**
BUSINESS = 5 MM PER OCCUPANT

REQUIRED: 30 MM (6 OCCUPANTS x 5 MM PER OCCUPANT)
PROPOSED EGRESS CAPACITY: 900 MM
9. **NFPA 101 PARAGRAPH 38.2.6.2 - EXIT ACCESS TRAVEL DISTANCE (NONSPRINKLERED)**
REQUIRED: 60 METERS
PROPOSED: 11 METERS
10. **NFPA 101 PARAGRAPH 38.3.6.1(1) & (2) - CORRIDORS**
NO RATED CORRIDOR REQUIRED (NONSPRINKLERED);
(1) ALL EXITS ARE AVAILABLE FROM AN OPEN FLOOR AREA
(2) SPACE IS OCCUPIED BY A SINGLE TENANT
11. **NFPA 101 PARAGRAPH 38.2.4.1 - NUMBER OF EXITS**
BUSINESS REQUIRED: 1 MINIMUM
BUSINESS PROPOSED: 1 EXITS

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

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Date	Rev.	Description
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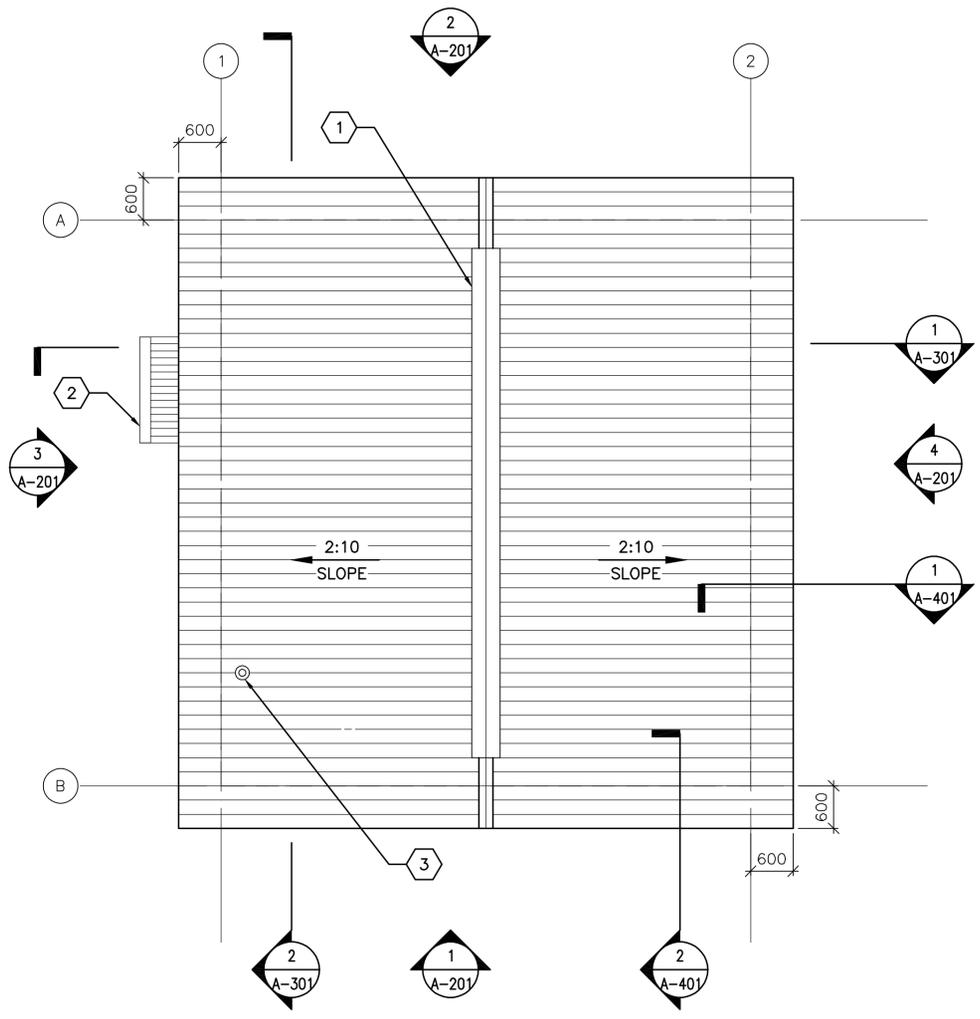
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Dwn by: KJG
Ckd by: NLJ
Reviewed by: LHM
Submitted by: BAKER

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Drawing code:
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Plot date: 8/24/10
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AFGHAN NATIONAL ARMY
STANDARD DESIGN
FAMILY RESPONSE UNIT OFFICES (STAND ALONE)
LIFE SAFETY PLAN

Sheet reference number:
A-001



1
A-101
ROOF PLAN
SCALE: 1:50

GENERAL NOTES:

- A. THE APPROXIMATE LOCATION OF ROOF DEVICES AND PENETRATIONS ARE SHOWN ON THE ROOF PLAN FOR INFORMATION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR UNDERSTANDING THE ACTUAL LOCATION OF THESE AND ALL OTHER ITEMS PRIOR TO BEGINNING CONSTRUCTION. COORDINATE ALL ROOF PENETRATIONS WITH STRUCTURAL, MECHANICAL AND PLUMBING WORK.
- B. PLUMBING VENT PENETRATIONS SHALL TERMINATE 300 MM MINIMUM ABOVE THE ROOF.
- C. UNLESS OTHERWISE NOTED, NOTES, DETAILS OR FEATURES INDICATED FOR ONE CONDITION SHALL BE APPLICABLE FOR ALL ALIKE AND SIMILAR CONDITIONS.
- D. STOCKPILING OF MATERIALS, EQUIPMENT AND ANY OTHER ITEMS ON THE ROOF IS PROHIBITED.
- E. ROOFS SHALL BE CORRUGATED METAL ROOF PANELS ON COLD-FORMED METAL FRAMING ON CONCRETE SLAB.

KEY NOTES:

- 1. CONTINUOUS METAL RIDGE VENT - SEE DETAIL 4/A-501.
- 2. CANOPY - SEE DETAIL 2/A-503.
- 3. PLUMBING VENT - SEE DETAIL 5/A-501.



Rev.	Date	Description	Appr.
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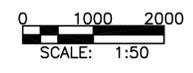
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AFGHAN NATIONAL ARMY
STANDARD DESIGN
FAMILY RESPONSE UNIT OFFICES (STAND ALONE)
ROOF PLAN

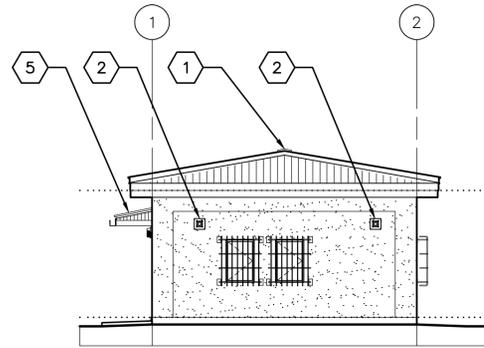
LINEAR DIMENSIONS SHOWN ARE IN MILLIMETERS (MM), UNLESS OTHERWISE NOTED

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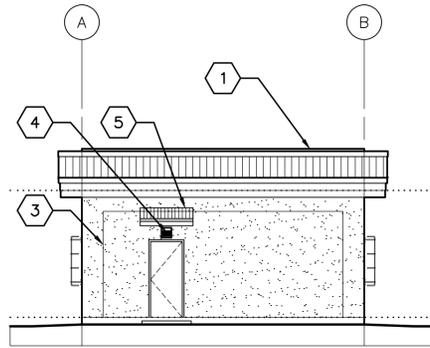
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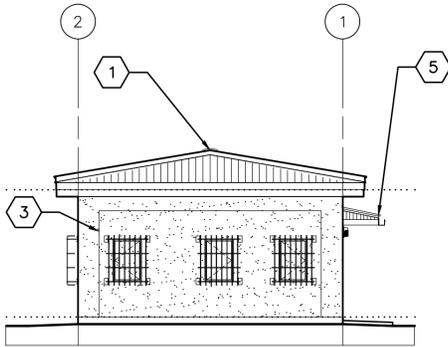
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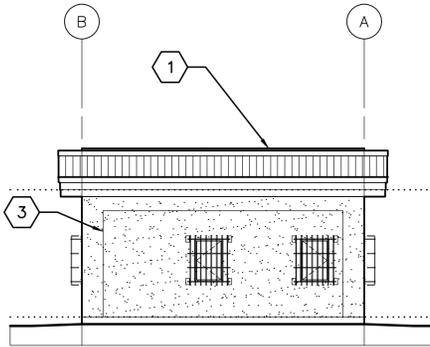
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A-201 SCALE: 1:100



3 ELEVATION
A-201 SCALE: 1:100



2 ELEVATION
A-201 SCALE: 1:100



4 ELEVATION
A-201 SCALE: 1:100

GENERAL NOTES:

- A. COORDINATE SIZE AND LOCATION OF OPENINGS FOR MECHANICAL ITEMS WITH MECHANICAL DRAWINGS.
- B. PROVIDE STRUCTURAL LINTELS AS REQUIRED - SEE STRUCTURAL DRAWINGS
- C. ALL EXTERIOR WALL FINISHES SHALL BE STUCCO OVER CMU AND CONCRETE SUBSTRATES. PROVIDE CONTROL JOINTS IN STUCCO WALL FINISH AS NOTED. SEE DETAIL 2A/A-501.
- D. ROOF SHALL BE CORRUGATED METAL ROOF PANELS ON COLD-FORMED METAL FRAMING ON CONCRETE SLAB.

KEY NOTES:

- 1. CONTINUOUS METAL RIDGE VENT - SEE DETAIL 4/A-501.
- 2. EXHAUST FAN, LOCATE TOP OF WALL PENETRATION 2800 MM ABOVE FINISHED FLOOR - SEE MECHANICAL DRAWINGS.
- 3. STUCCO CONTROL JOINT - SEE DETAIL 2A/A-501.
- 4. EXTERIOR LIGHT FIXTURE - SEE ELECTRICAL.
- 5. CANOPY - SEE DETAIL 2/A-503.



US ARMY CORPS OF ENGINEERS
AFGHANISTAN ENGINEER DISTRICT

Rev.	Date	Description
0	06/30/10	Design file no.
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Dwn by:	KJG
Reviewed by:	LHM
Submitted by:	BAKER
U.S. ARMY CORPS OF ENGINEERS AFGHANISTAN ENGINEER DISTRICT APO AE 96338	Michael Baker Jr., Inc A Unit of Michael Baker Corporation 100 Ardsley Drive, PA 15108 www.mbakercorp.com

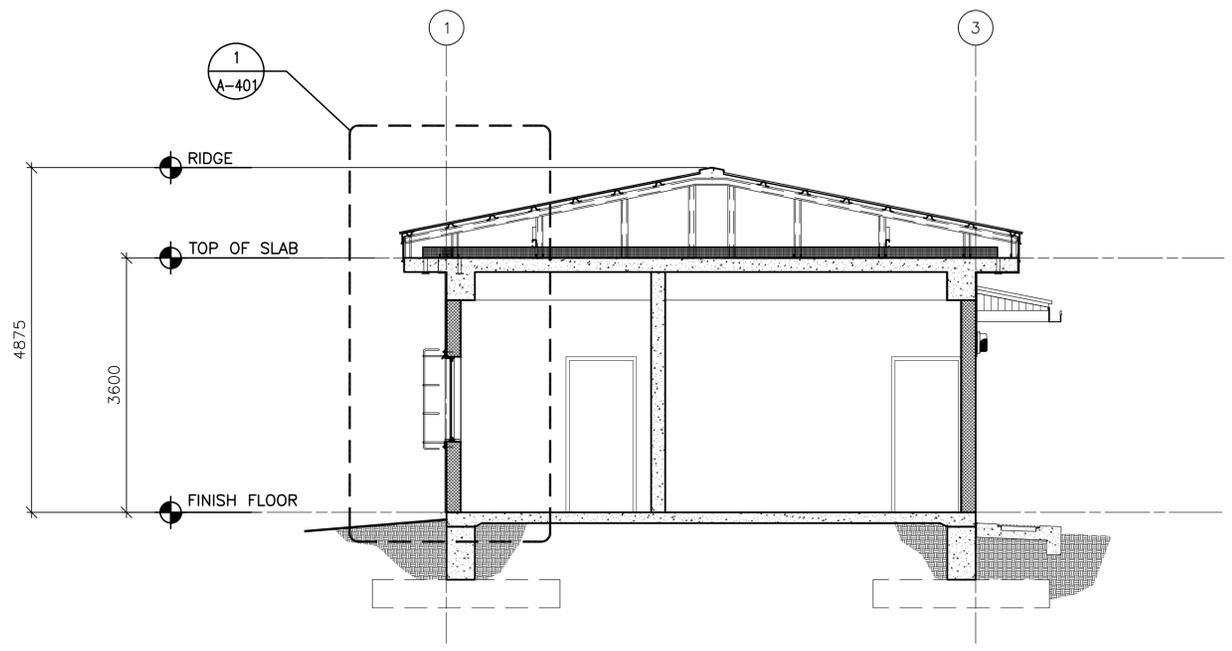
AFGHAN NATIONAL ARMY
REGIONAL MILITARY TRAINING CENTER
STANDARD DESIGN
FAMILY RESPONSE UNIT OFFICES (STAND ALONE)
ELEVATIONS

Sheet reference number:
A-201

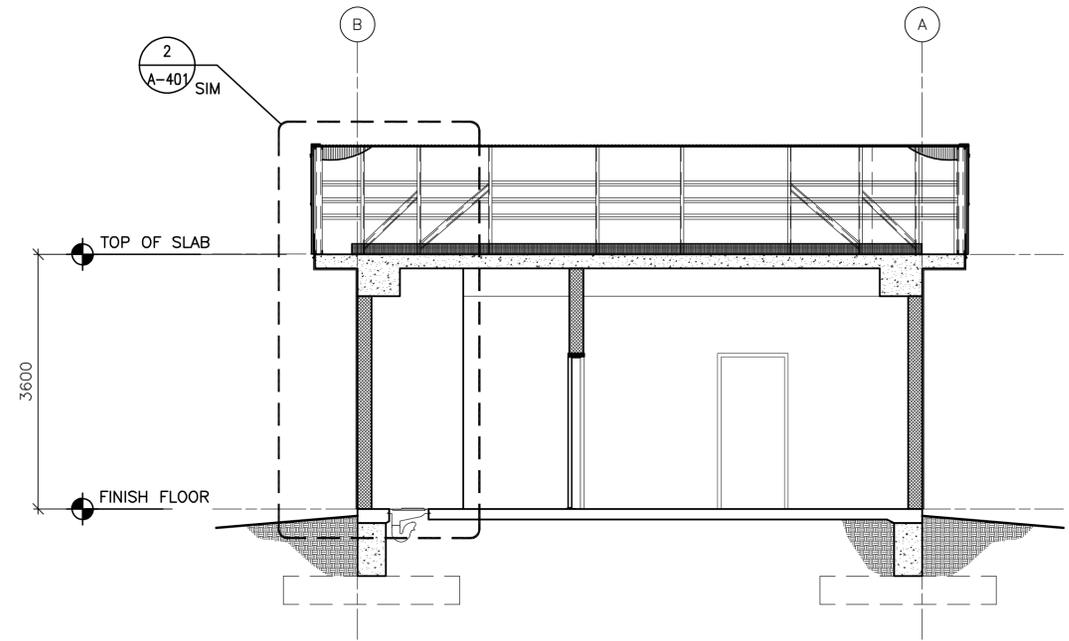
LINEAR DIMENSIONS SHOWN ARE IN MILLIMETERS (MM), UNLESS OTHERWISE NOTED

APPROVED: *[Signature]*
A/E DESIGNER OF RECORD





1 BUILDING SECTION
SCALE: 1:50



2 BUILDING SECTION
SCALE: 1:50

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

0 1000 2000
SCALE: 1:50

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SEAL:



AFGHAN NATIONAL ARMY
STANDARD DESIGN
FAMILY RESPONSE UNIT OFFICES (STAND ALONE)
BUILDING SECTIONS

Sheet reference number:
A-301

U.S. ARMY CORPS OF ENGINEERS
AFGHANISTAN ENGINEER DISTRICT
APO AE 96338
Michael Baker, Jr., Inc
A Unit of Michael Baker Corporation
100 Ardsley Drive, PA 15108
www.mbakercorp.com

Designed by: KRC
Dwn by: KJG
Reviewed by: LHM
Submitted by: BAKER

Date: 8/16/10
Design file no.
Drawing code:
File name: ANAFRUA-301BS
Plot date: 8/24/2010
Plot scale:

Rev.	Date	Mark	Description
0			

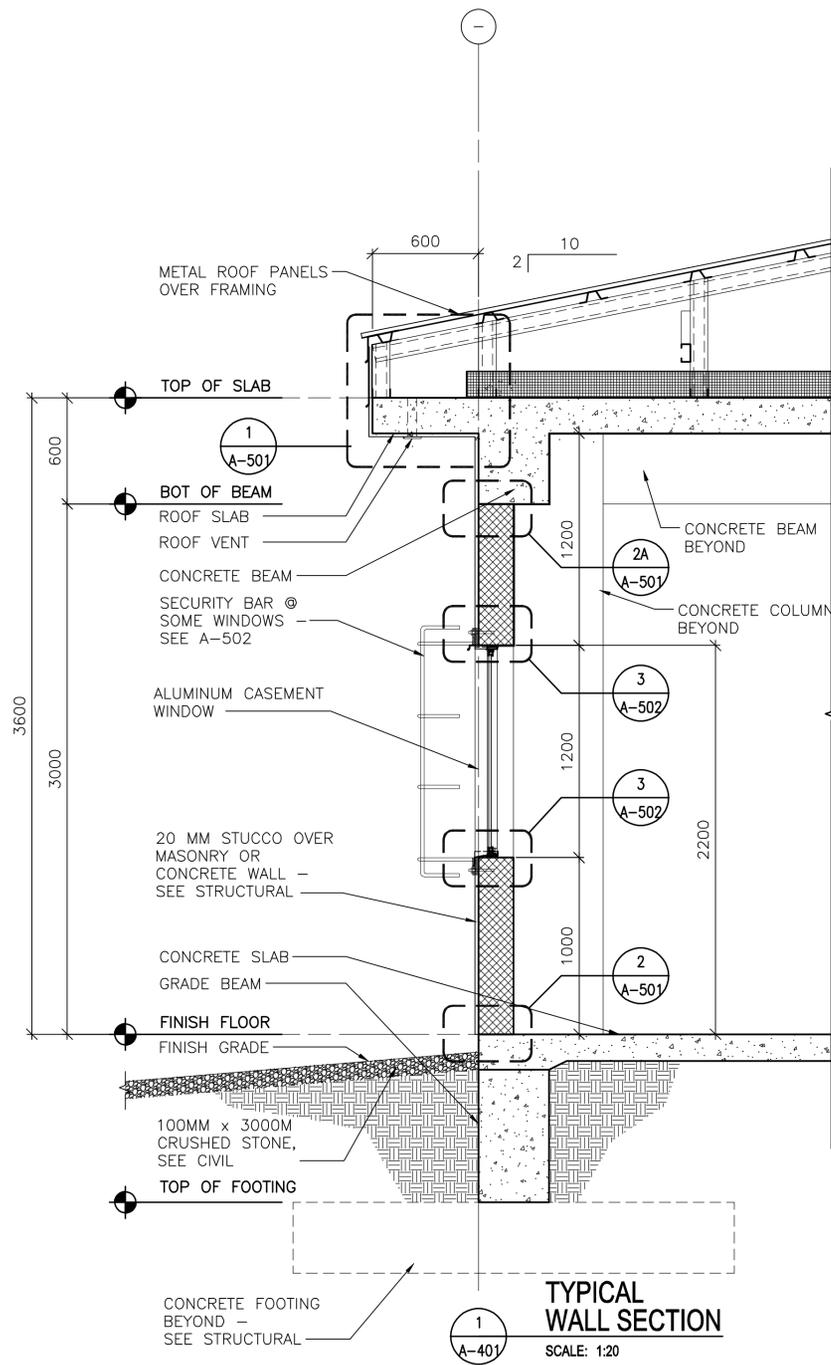


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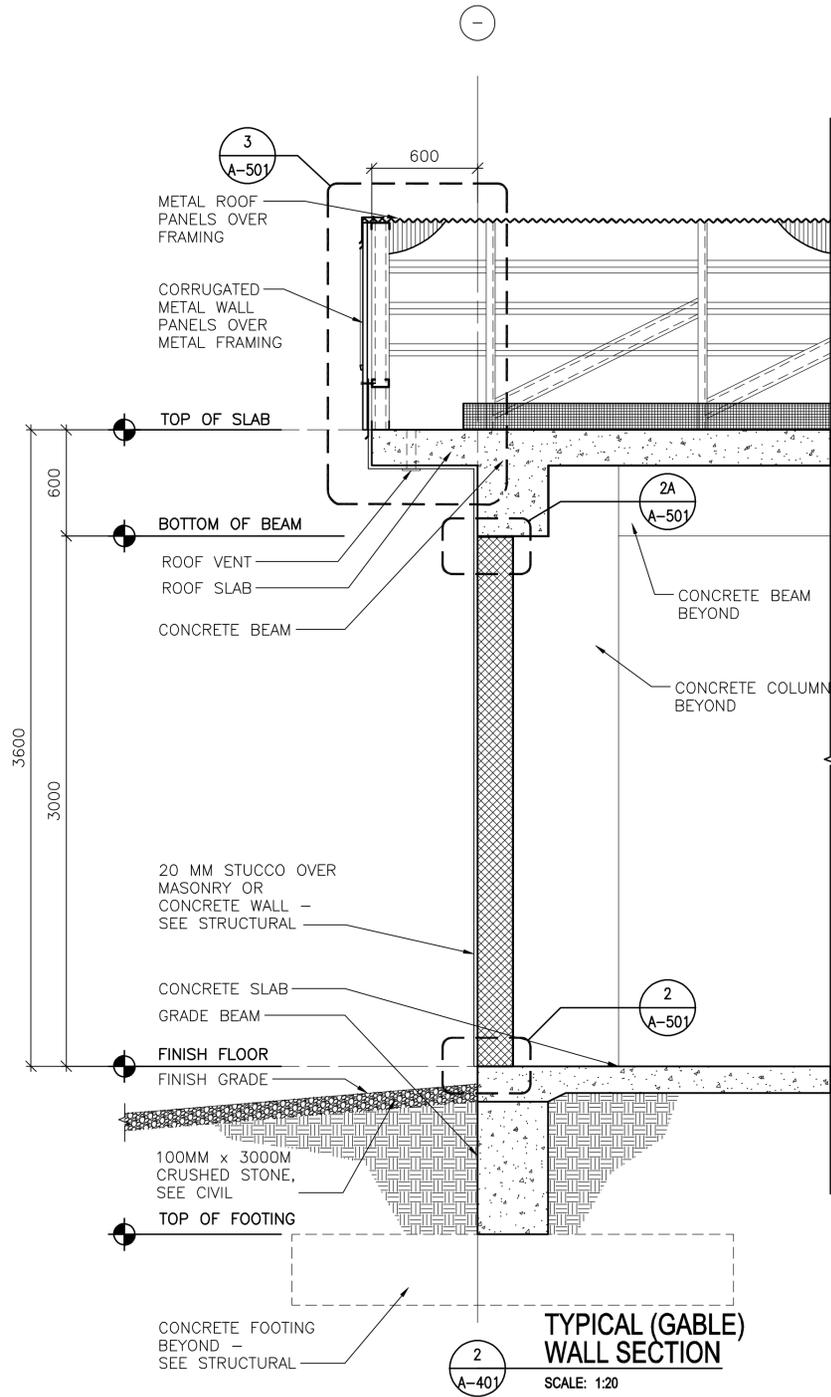
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Dwn by:	KJG	Reviewed by:	LHM
Submitted by:	BAKER	File name:	ANAFRUA-401WS
		Plot date:	8/24/10
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AFGHAN NATIONAL ARMY
STANDARD DESIGN
FAMILY RESPONSE UNIT OFFICES (STAND ALONE)

Sheet reference number:
A-401



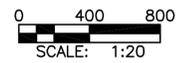
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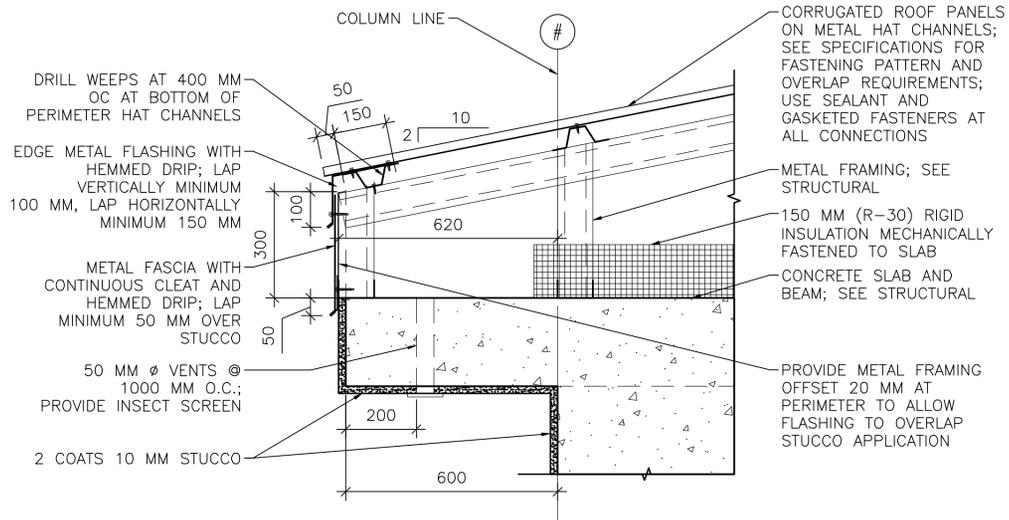


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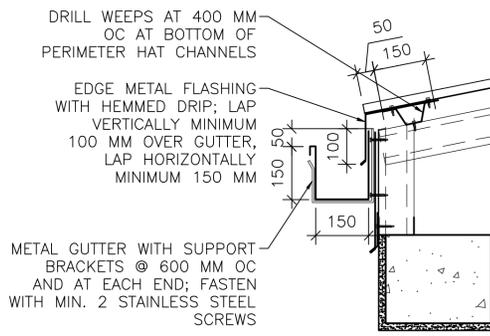
LINEAR DIMENSIONS SHOWN ARE IN MILLIMETERS (MM), UNLESS OTHERWISE NOTED

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SEAL:

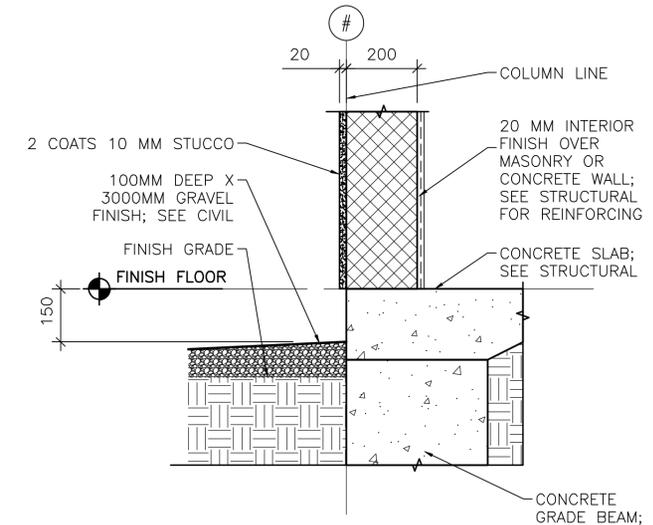




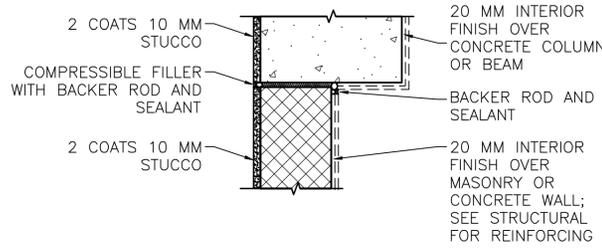
1 EAVE DETAIL
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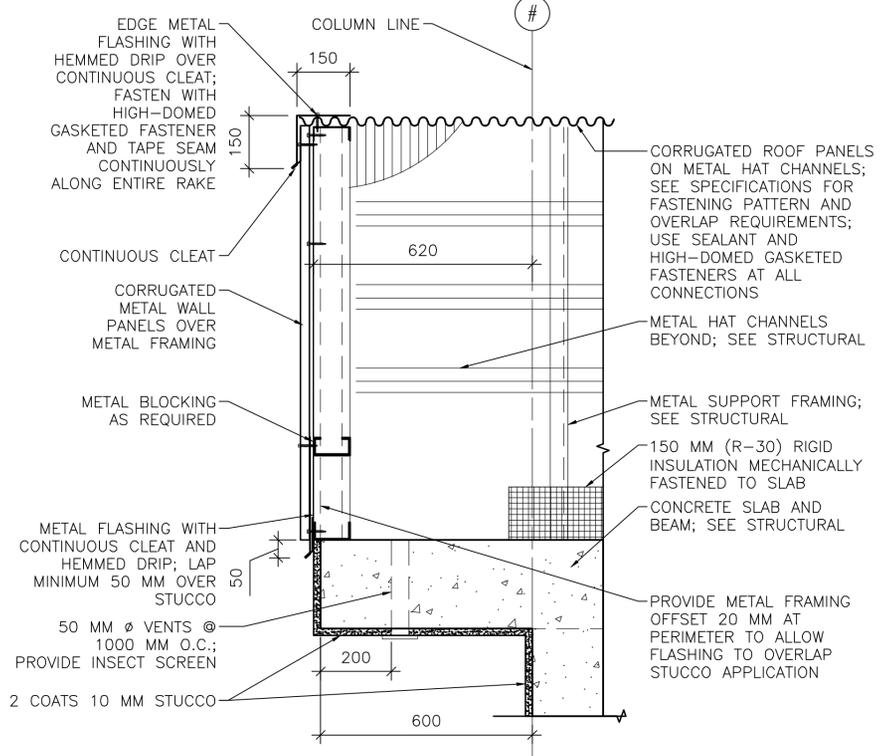
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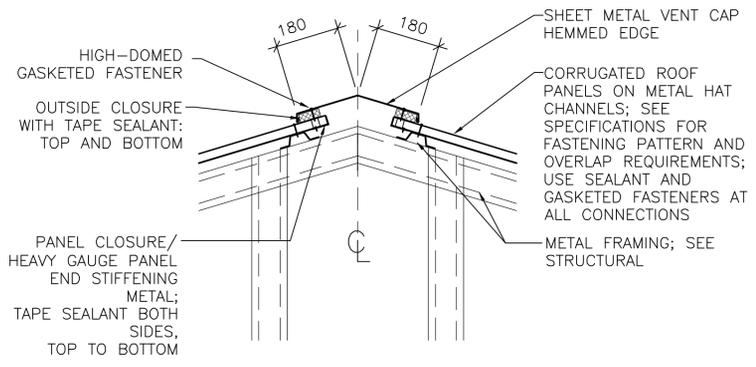
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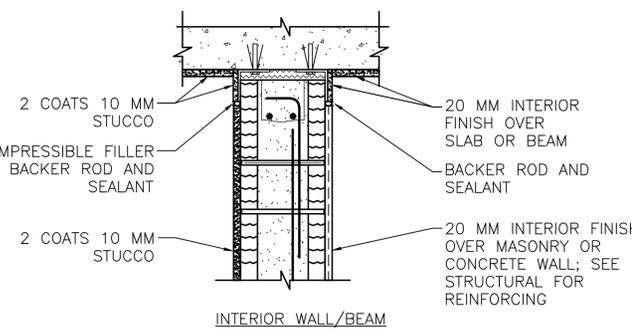
2A STUCCO/CONTROL JOINT DETAIL
SCALE: 1:10



3 RAKE/EAVE DETAIL
SCALE: 1:10

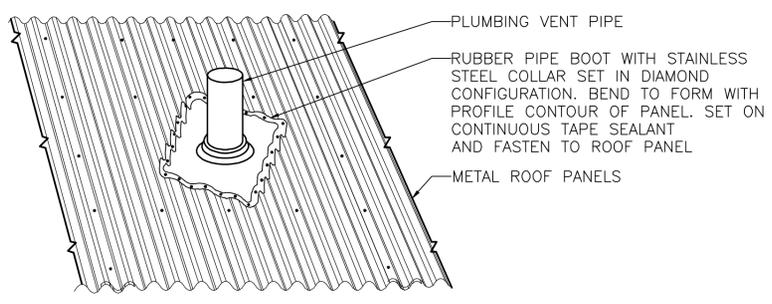


4 RIDGE VENT DETAIL
SCALE: 1:10



2B STUCCO @ BRACING DETAIL
SCALE: 1:10

NOTE: DETAIL FOR FINISHES ONLY. SEE STRUCTURAL FOR INFORMATION.



5 PLUMBING VENT DETAIL
SCALE: NTS



Rev.	Date	Description	Mark	Appr.	Date
0	8/16/10				

Designed by:	KRC	Checked by:	NLJ
Dwn by:	KJG	Reviewed by:	LHM
Submitted by:	BAKER	File name:	AMRUA-901T
		Plot date:	8/24/10
		Plot scale:	1:10

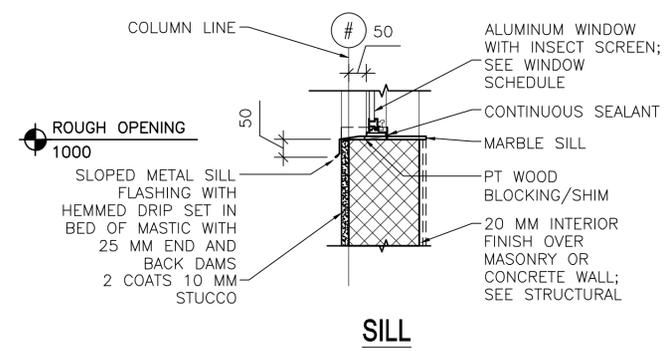
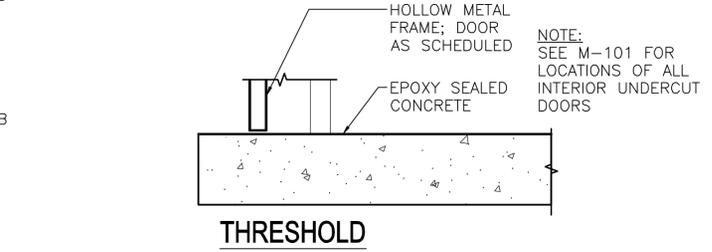
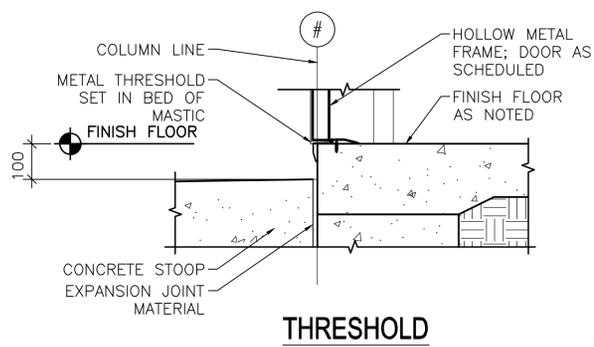
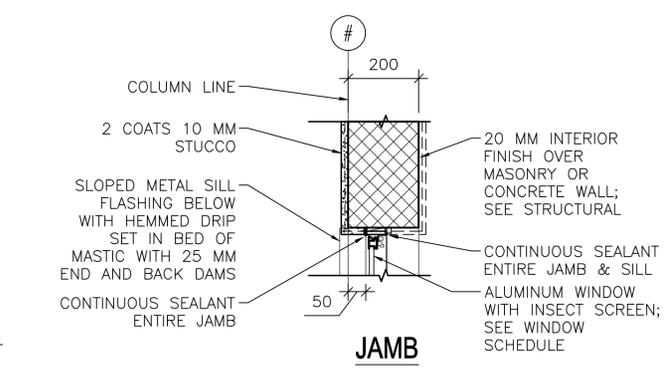
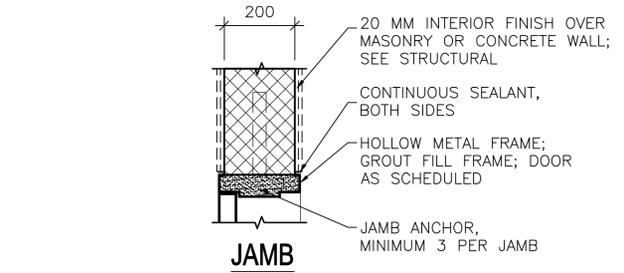
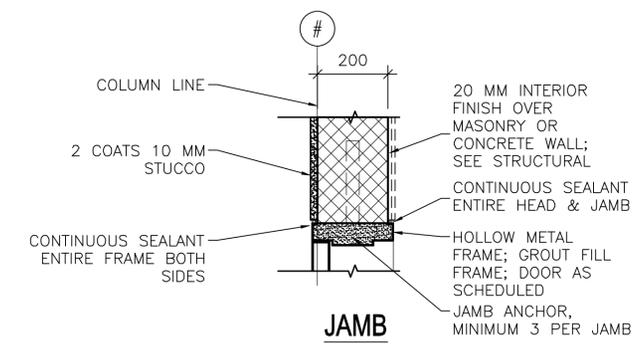
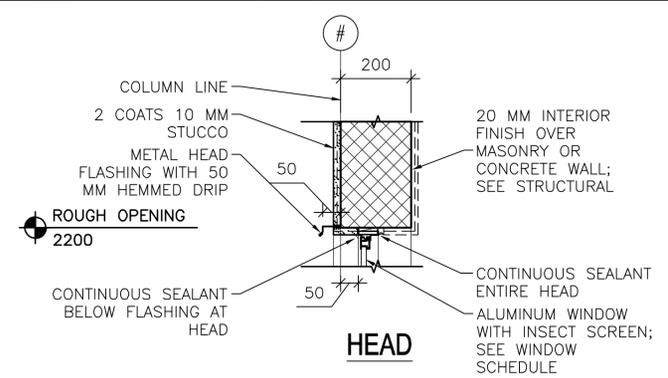
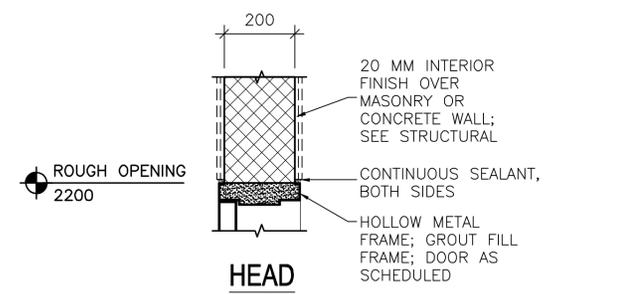
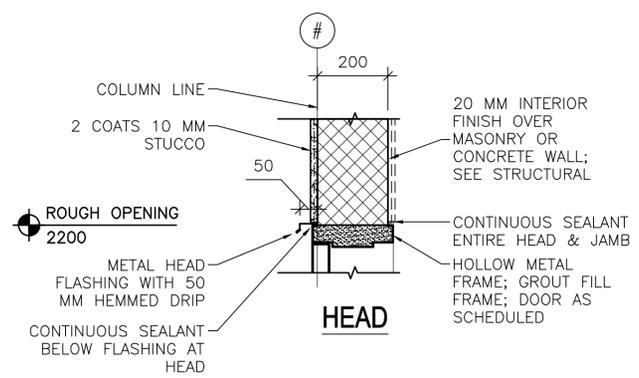
U.S. ARMY CORPS OF ENGINEERS
AFGHANISTAN ENGINEER DISTRICT
APO AE 96338
Michael Baker Jr., Inc
A Unit of Michael Baker Corporation
100 Ardsley Drive, PA 15108
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AFGHAN NATIONAL ARMY
STANDARD DESIGN
FAMILY RESPONSE UNIT OFFICES (STAND ALONE)
EXTERIOR DETAILS
Sheet reference number:
A-501

APPROVED: *[Signature]*
A/E DESIGNER OF RECORD
SEAL:



LINEAR DIMENSIONS SHOWN ARE IN MILLIMETERS (MM), UNLESS OTHERWISE NOTED
SCALE: 1:10

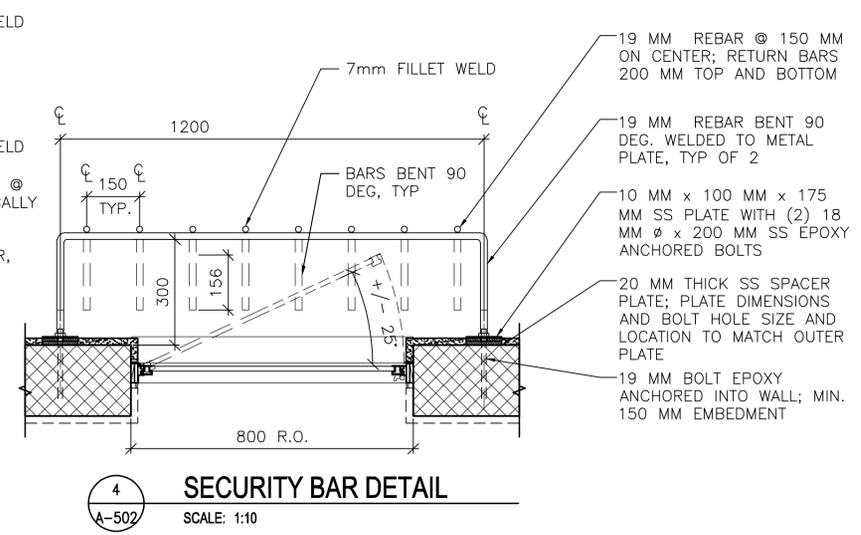
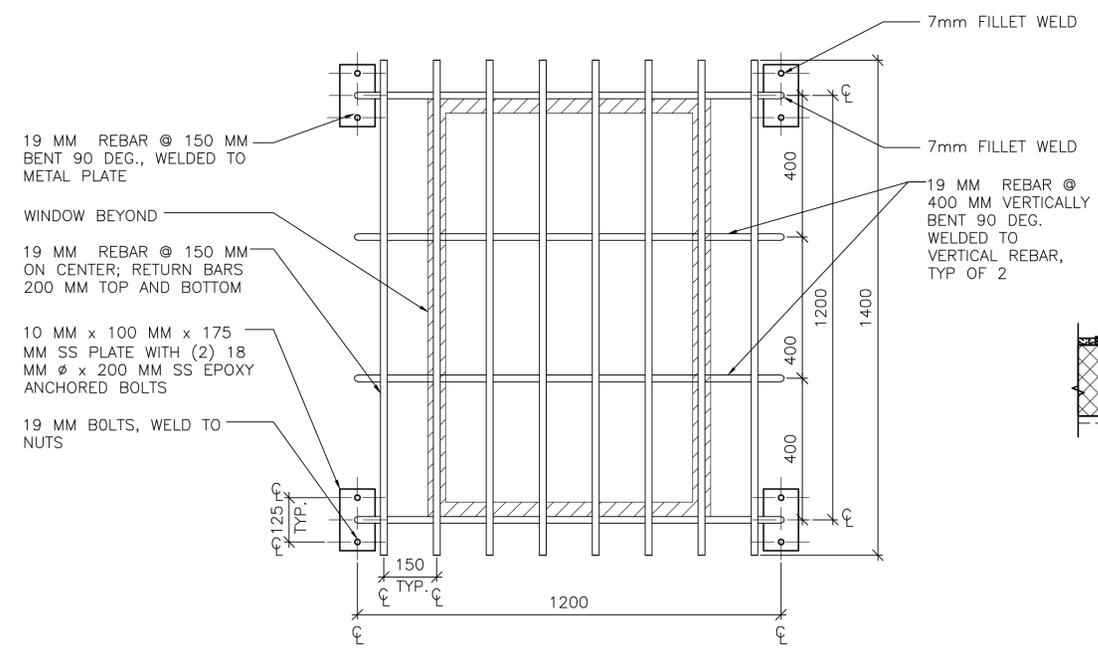


1 EXTERIOR DOOR DETAILS
SCALE: 1:10

2 INTERIOR DOOR DETAILS
SCALE: 1:10

3 EXTERIOR WINDOW DETAILS
SCALE: 1:10

NOTES:
1. ALL SECURITY BAR STEEL SHALL BE HOT-DIPPED GALVANIZED.



4 SECURITY BAR DETAIL
SCALE: 1:10

GENERAL NOTES:
A. ALL EXTERIOR DOOR AND WINDOW WOOD BLOCKING SHALL BE PRESERVATIVE TREATED.

APPROVED: *[Signature]*
A/E DESIGNER OF RECORD
SEAL:



LINEAR DIMENSIONS SHOWN ARE IN MILLIMETERS (MM), UNLESS OTHERWISE NOTED
SCALE: 1:10



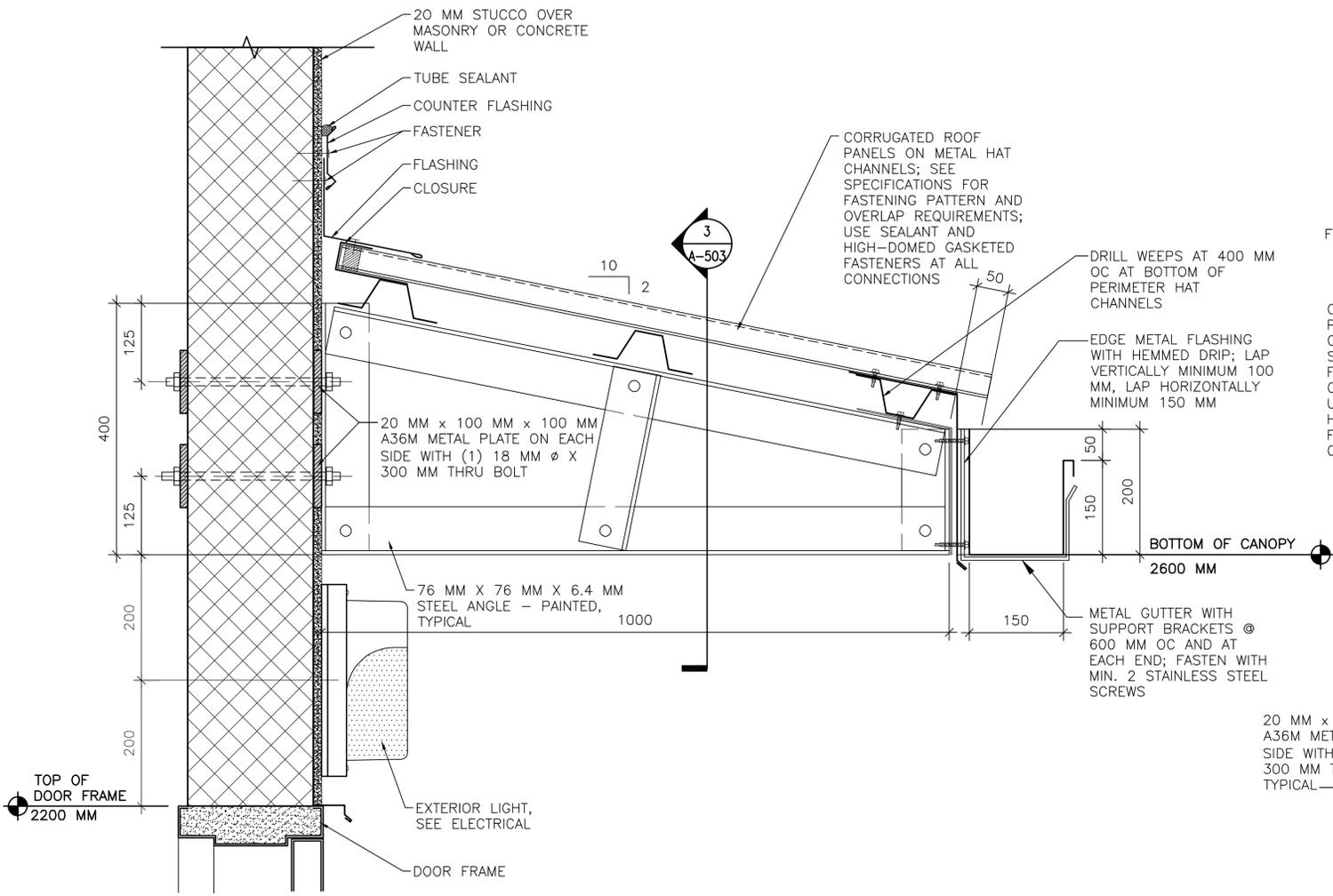
Rev.	Date	Description	Mark	Appr.	Date

Designed by: KRC
Dwn by: KJG
U.S. ARMY CORPS OF ENGINEERS
AFGHANISTAN ENGINEER DISTRICT
APO AE 96338
Michael Baker Jr., Inc.
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Alside Business Park
100 Alside Drive, PA 15108
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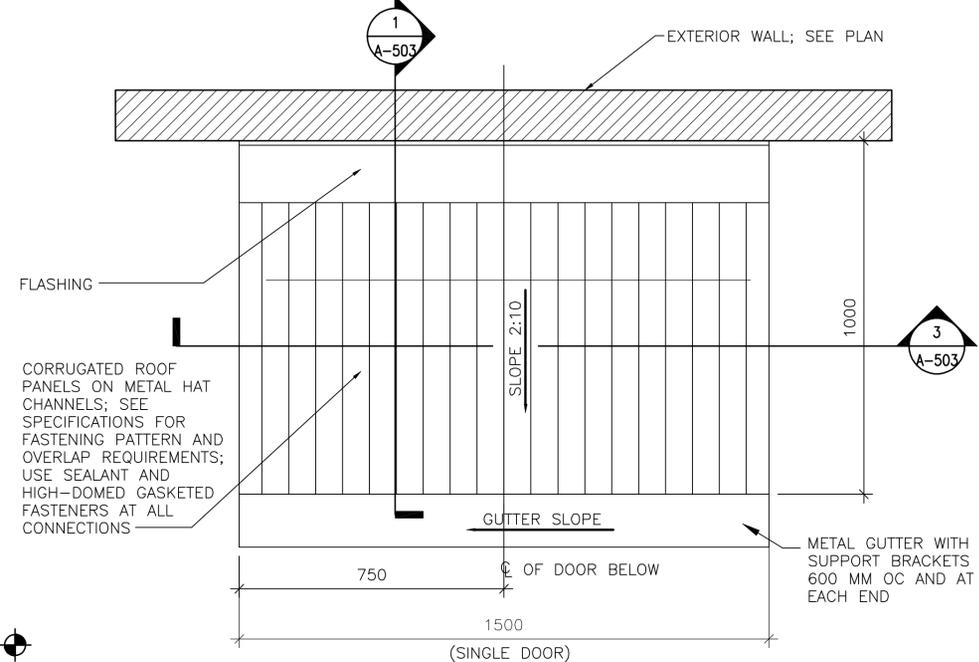
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Plot date: 8/24/2010
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AFGHAN NATIONAL ARMY
STANDARD DESIGN
FAMILY RESPONSE UNIT OFFICES (STAND ALONE)
HEAD, JAMB & SILL
DETAILS

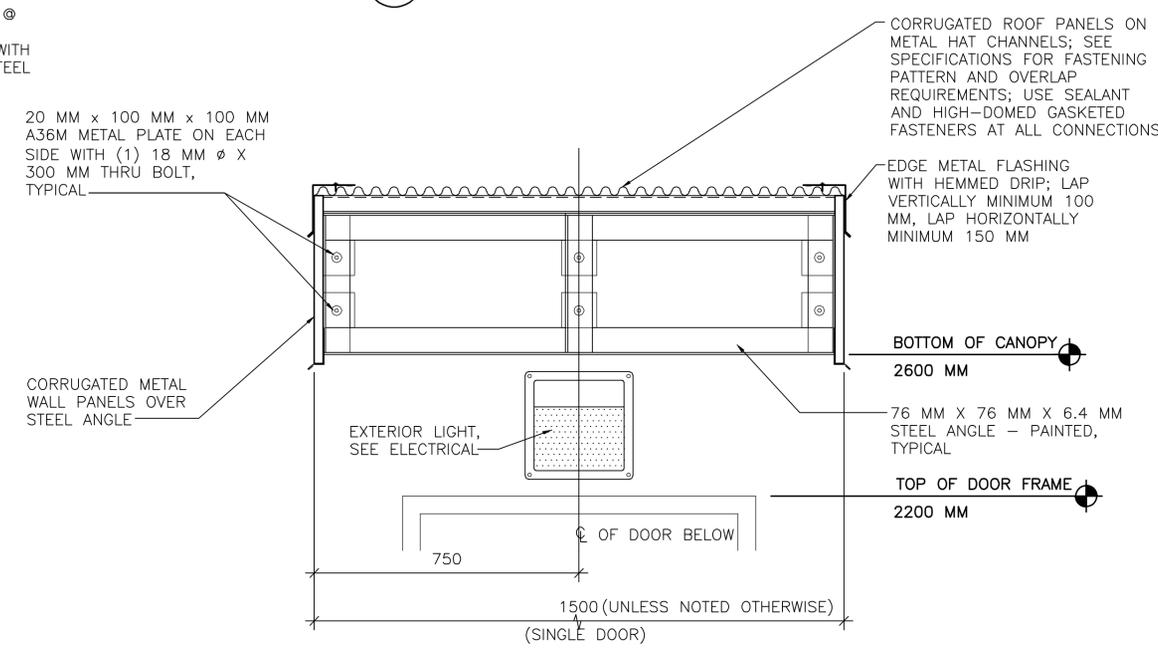
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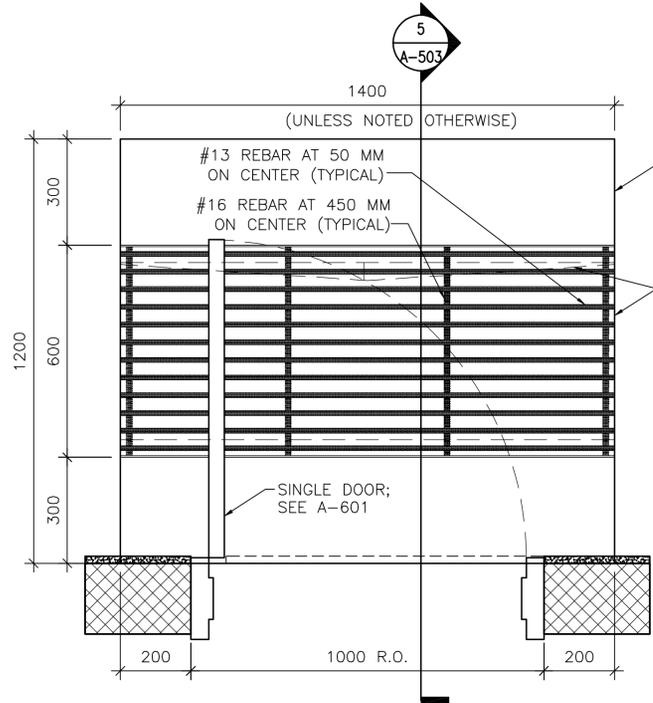
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A-503
CANOPY CONNECTION DETAILS
SCALE: 1:5



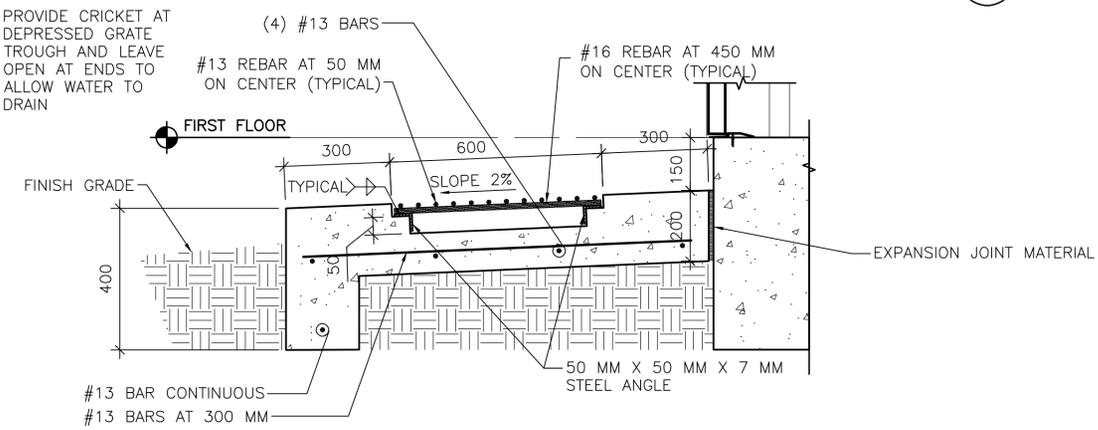
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A-503
CANOPY PLAN
SCALE: 1:10



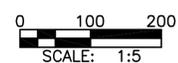
3
A-503
CANOPY CONNECTION DETAILS
SCALE: 1:10



4
A-503
DOOR STOOP PLAN (WITH GRATE)
SCALE: 1:10



5
A-503
DOOR STOOP DETAIL
SCALE: 1:10



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

SHEET NOTES:
1. SEE A-102 FOR FLOOR PLANS AND CANOPY LOCATIONS.

APPROVED: *[Signature]*
A/E DESIGNER OF RECORD
SEAL:



Date	Rev.	Description	Mark	Date	Appr.

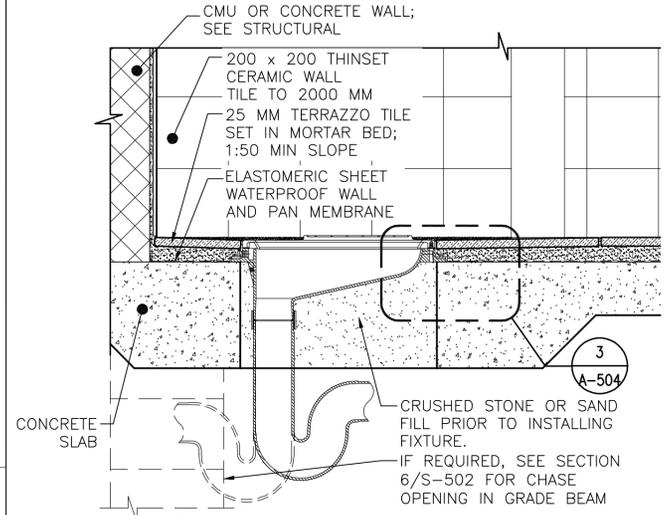
Designed by: DLB
Dwn by: ECN
Reviewed by: LHM
Submitted by: BAKER

Date: 8/16/10
Design file no.:
Drawing code: ANAFRUA-0000T
File name: ANAFRUA-0000T
Plot date: 8/24/10
Plot scale: xx

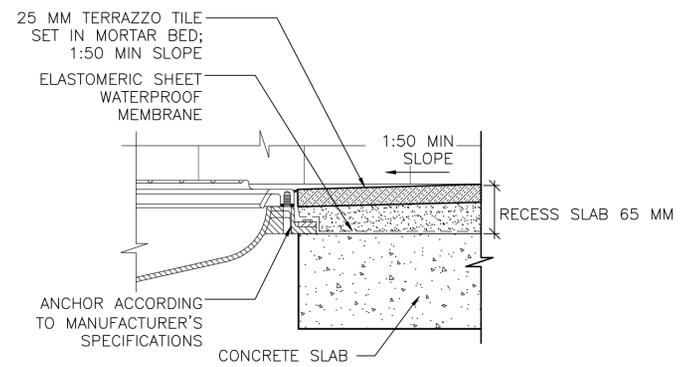
U.S. ARMY CORPS OF ENGINEERS
AFGHANISTAN ENGINEER DISTRICT
APO AE 96338
Michael Baker, Jr., Inc.
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Arlide Business Park
100 Arside Drive, PA 15108
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AFGHAN NATIONAL ARMY
STANDARD DESIGN
FAMILY RESPONSE UNIT OFFICES (STAND ALONE)
STOOP & CANOPY DETAILS

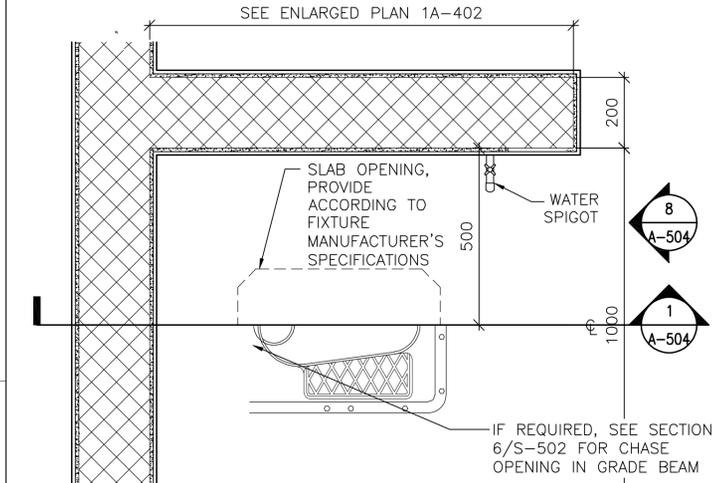
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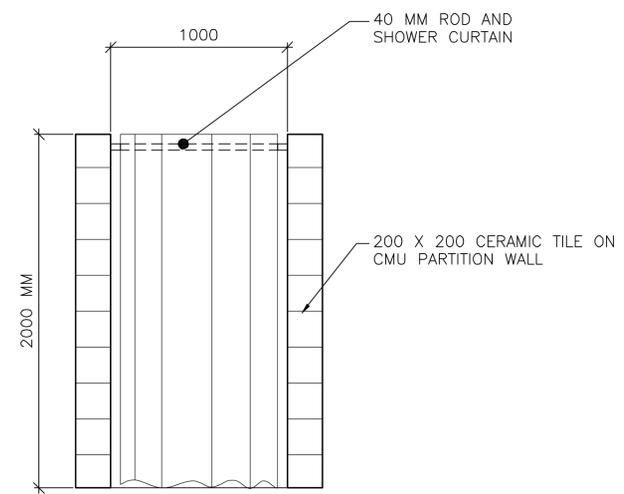
1 LATRINE DETAIL
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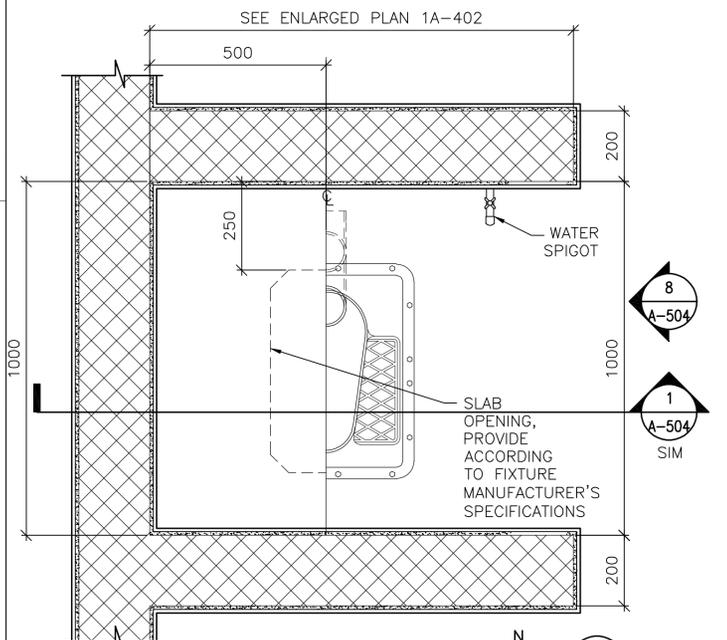
3 MOUNTING DETAIL
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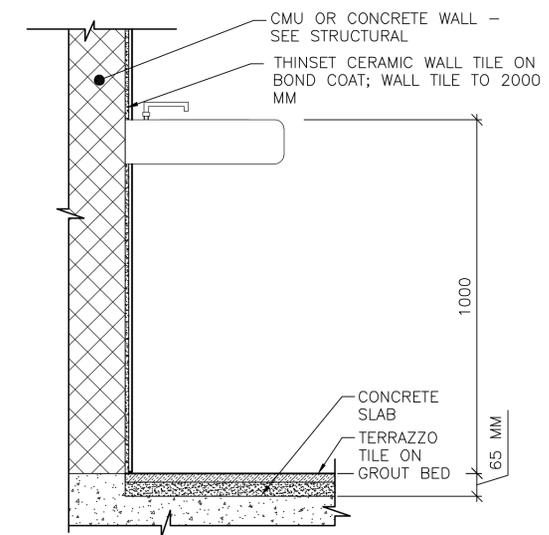
2 TOILET DETAIL
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4 TOILET PARTITION ELEVATION
 SCALE: 1:20

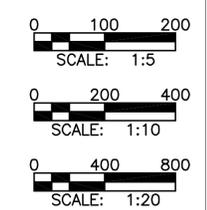


2A TOILET DETAIL
 SCALE: 1:10



5 WALL MOUNTED LAVATORY
 SCALE: 1:10

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



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 A/E DESIGNER OF RECORD

SEAL: *[Professional Seal]*



Rev.	Date	Description
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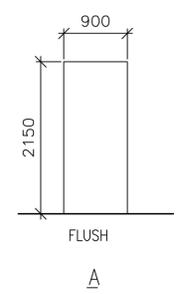
Designed by: KRC
 Dwn by: KJJ
 Cld by: NLJ
 Reviewed by: LHM
 Submitted by: BAKER
 U.S. ARMY CORPS OF ENGINEERS
 AFGHANISTAN ENGINEER DISTRICT
 APO AE 96338
 Michael Baker, Jr., Inc.
 A unit of Michael Baker Corporation
 Airside Business Park
 100 Airside Drive, PA 15108
 www.mbakercorp.com

AFGHAN NATIONAL ARMY
 STANDARD DESIGN
 FAMILY RESPONSE UNIT OFFICES (STAND ALONE)
 TOILET & LAVATORY DETAILS

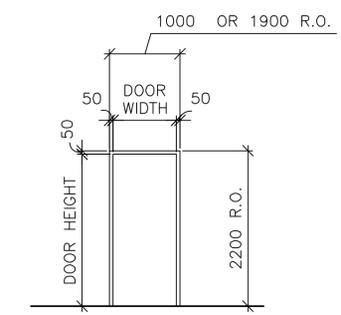
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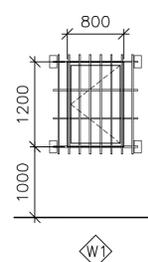
THIS SHEET IS STANDARD AND IS INCLUSIVE OF ALL THE DOOR/WINDOW/HARDWARE TYPES FOR THE ENTIRE CONTRACT. NOT ALL DOOR/WINDOW/HARDWARE TYPES ARE USED FOR ANY PARTICULAR BUILDING DESIGN. CONTRACTOR SHALL REFER TO THE FLOOR PLAN FOR THE TYPES BEING USED.



1 DOOR TYPES SCALE: 1:50

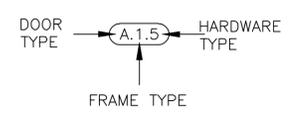


2 FRAME TYPES SCALE: 1:50

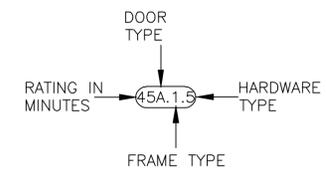


NOTE: DIMENSIONS ARE ROUGH OPENING DIMENSIONS. SEE PLAN FOR ROUGH OPENING LOCATIONS. WINDOW SHALL BE 790MM X 1190MM TO FIT WITHIN ROUGH OPENING.

3 WINDOW TYPES SCALE: 1:50



4 DOOR TAG SCALE: NTS



5 RATED DOOR TAG SCALE: NTS

EXTERIOR DOOR HARDWARE TYPES:

- HW-1 1-1/2 PR HINGES, A5112 114 X 114
1 EA RIM EXIT DEVICE, TYPE 1
1 EA CYLINDER, E09221A, GRADE 1
1 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE
1 EA THRESHOLD, J32130
3 EA DOOR SILENCERS, L03011
1 EA WEATHERSTRIPPING
HW-2 1-1/2 PR HINGES, A5112 114 X 114
1 EA LOCKSET, F13 ENTRY LOCK W/LEVER HANDLES, GRADE 1
1 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE
1 EA THRESHOLD, J32130
3 EA DOOR SILENCERS, L03011
1 EA WEATHERSTRIPPING
HW-3 3 PR HINGES, A5112 114 X 114
2 EA RIM EXIT DEVICE, TYPE 1
2 EA CYLINDER, GRADE 1
2 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE
1 EA DOOR COORDINATOR, TYPE 21
1 EA ASTRAGAL
1 EA THRESHOLD, J32130
2 EA DOOR SILENCERS, L03011
1 EA WEATHERSTRIPPING
HW-4 3 PR HINGES, A5112 114 X 114
1 EA LOCKSET W/LEVER HANDLES, GRADE 1, F13
1 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE
2 EA MAGNETIC HOLDER PIN, ATTACHED TO DOOR LEAF
2 EA MAGNETIC HOLDER RECEIVER, ATTACHED TO STOOP
2 EA LEVER EXTENSION FLUSH BOLTS, L04081
1 EA ASTRAGAL
1 EA THRESHOLD, J32130
2 EA DOOR SILENCERS, L03011
1 EA WEATHERSTRIPPING

INTERIOR DOOR HARDWARE TYPES:

- HW-5 1-1/2 PR HINGES, A8133 114 X 114
1 EA LOCKSET W/LEVER HANDLES, F08, GRADE 1
1 EA WALL STOP, L02101 OR L02161
3 EA DOOR SILENCERS, L03011
HW-6 1-1/2 PR HINGES, A8112 114 X 114
1 EA LOCKSET W/LEVER HANDLES, F08, GRADE 1
1 EA WALL STOP, L02101 OR L02161
1 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE
3 EA DOOR SILENCERS, L03011
HW-7 1-1/2 PR HINGES, A8133
1 EA LOCKSET W/LEVER HANDLES, F13 GRADE 1
1 EA WALL STOP, L02101 OR L02161
2 EA MOP PLATE, J103
3 EA DOOR SILENCERS, L03011
HW-8 1-1/2 PR HINGES, A8112
1 EA LOCKSET W/LEVER HANDLES, F13 GRADE 1
1 EA WALL STOP, L02101 OR L02161
2 EA MOP PLATE, J103
1 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE
3 EA DOOR SILENCERS, L03011
HW-9 1-1/2 PR HINGES, A5112 114 X 114
1 EA RIM EXIT DEVICE, TYPE 1
1 EA CYLINDER, E09221A, GRADE 1
1 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE
3 EA DOOR SILENCERS, L03011
HW-10 3 PR HINGES, A5112 114 X 114
1 EA LOCKSET W/LEVER HANDLES, GRADE 1, F13
2 EA LEVER EXTENSION FLUSH BOLTS, L04081
1 EA ASTRAGAL
2 EA DOOR SILENCERS, L03011
HW-11 1-1/2 PR HINGES, A8112 114 X 114
1 EA LOCKSET W/LEVER HANDLES, F13, GRADE 1
1 EA WALL STOP, L02101 OR L02161
1 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE
3 EA DOOR SILENCERS, L03011
1 EA ROBE HOOK
HW-13 3 PR HINGES, A5112 114 X 114
1 EA LOCKSET W/LEVER HANDLES, GRADE 1, F13
1 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE
2 EA LEVER EXTENSION FLUSH BOLTS, L04081
1 EA ASTRAGAL
2 EA DOOR SILENCERS, L03011
HW-14 3 PR HINGES, A5112 114 X 114
2 EA RIM EXIT DEVICE, TYPE 1
2 EA CYLINDER, GRADE 1
2 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE
1 EA DOOR COORDINATOR, TYPE 21
1 EA ASTRAGAL
2 EA DOOR SILENCERS, L03011

DOOR AND HARDWARE NOTES:

- 1. INTERIOR AND EXTERIOR METAL DOORS AND FRAME COLORS SHALL MATCH ADJACENT WALL COLORS AS SELECTED BY THE CONTRACTING OFFICER.
2. FRAMES, EXCEPT FIRE-RATED FRAMES, SHALL BE MOUNTED AND ADJUSTED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. FRAMES SHALL BE FASTENED WITH MINIMUM OF THREE ANCHORS PER JAMB AT EQUAL INTERVALS.
3. DIMENSIONS SHOWN ON DOOR TYPES DETAIL ARE BASED UPON MODULAR MASONRY (OR ROUGH OPENING) WIDTH OF 1000MM AND HEIGHT OF 2200 MM FOR STANDARD 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 A SATIN OR BRUSHED FINISH.
5. HARDWARE TYPES INCLUDE BUILDERS HARDWARE MANUFACTURERS ASSOCIATION (BMHA) NUMBER.
6. DOORS IN 2 HOUR RATED PARTITIONS SHALL BE 1.5 HOUR (90 MINUTE) RATED DOORS IN ACCORDANCE WITH NFPA 101, TABLE 8.3.4.2.
7. DOORS IN 1 HOUR RATED WALLS SHALL BE 3/4 HOUR (45 MINUTE) RATED DOORS IN ACCORDANCE WITH NFPA 101, TABLE 8.3.4.2.
8. DOORS IN 1 HOUR RATED CORRIDOR WALLS SHALL BE 1/3 HOUR (20 MINUTE) IN ACCORDANCE WITH NFPA 101, TABLE 8.3.4.2.
10. PROVIDE DOOR STOPS TO PROTECT WALLS ON LOCATIONS WHERE DOOR SWING WILL STRIKE WALL.
11. SEE M-101 FOR LOCATIONS OF ALL UNDERCUT DOORS.

WINDOW TYPE NOTES:

- 1. ALL EXTERIOR WINDOWS SHALL BE ALUMINUM WITH INSECT SCREENS. WINDOWS SHALL BE COMMERCIAL GRADE.
2. ALL EXTERIOR WINDOWS SHALL BE OPERABLE.
3. SEE 4/A-502 FOR SECURITY BAR DETAILS.

DOOR TAG NOTES:

- 1. THE DOOR TAG INDICATES THE DOOR TYPE, FRAME TYPE AND HARDWARE SET FOR EACH DOOR.
2. THE DOOR TAG FOR RATED DOORS INCLUDES THE RATING OF THE DOOR IN MINUTES.

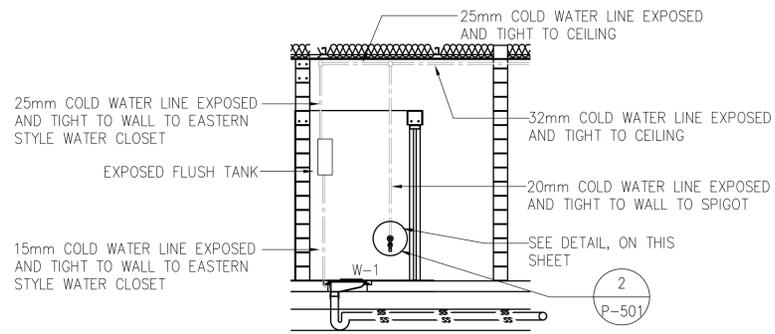
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Table with columns: Date, Design file no., Drawing code, File name, Plot date, Plot scale, Designed by, Dwn by, Cld by, Reviewed by, Submitted by

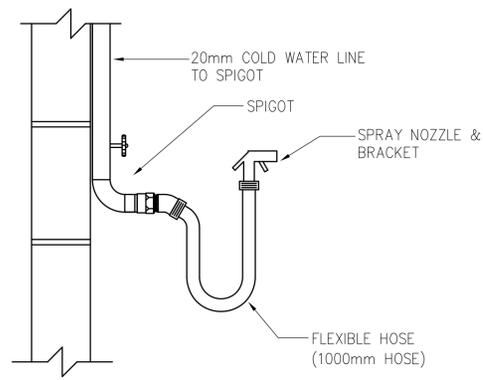
AFGHAN NATIONAL ARMY STANDARD DESIGN FAMILY RESPONSE UNIT OFFICES (STAND ALONE) WINDOW AND DOOR SCHEDULES

APPROVED: [Signature] A/E DESIGNER OF RECORD SEAL: [Stamp]

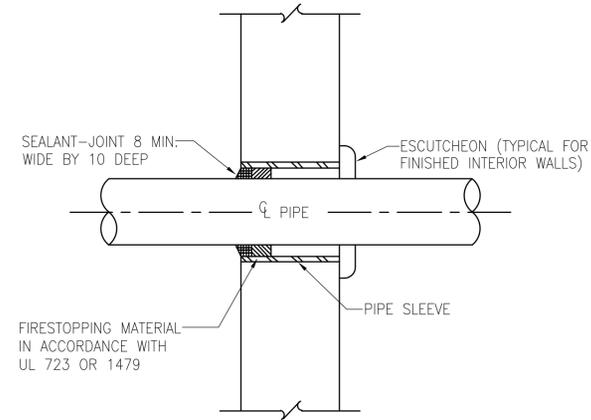
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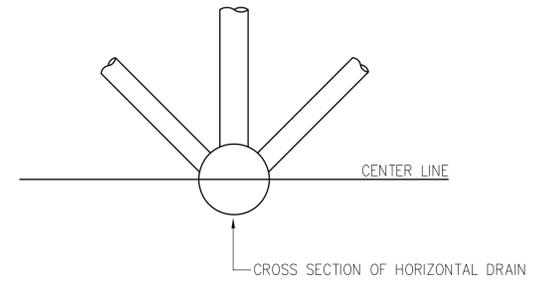
1
P-501
TYPICAL EASTERN STYLE WATER CLOSET SANITARY & WATER INSTALLATION SCHEMATIC
SCALE: N.T.S.



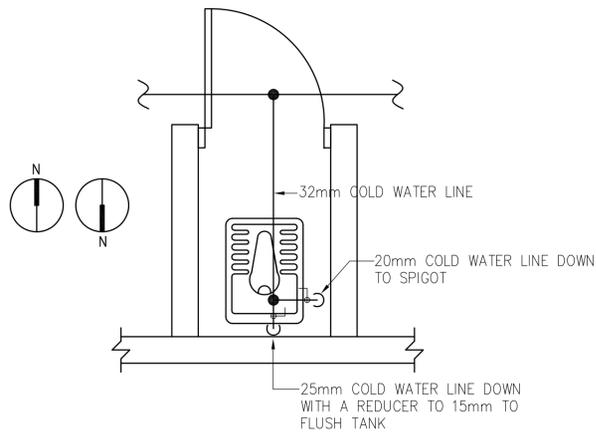
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P-501
TYPICAL DETAIL - SPIGOT, FLEXIBLE HOSE, AND SPRAY NOZZLE
SCALE: N.T.S.



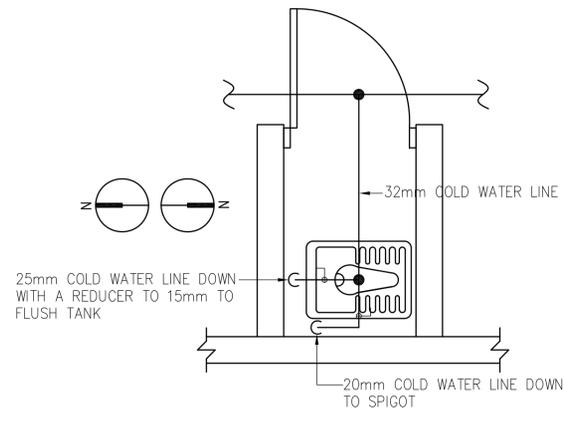
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P-501
TYPICAL WALL PENETRATION DETAIL
SCALE: N.T.S.



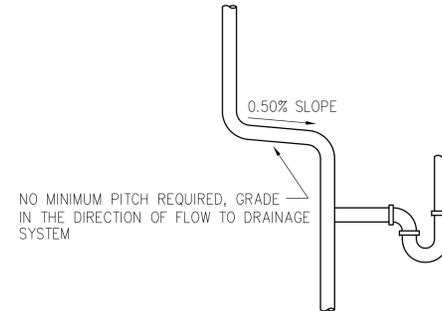
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P-501
ACCEPTABLE VENT CONNECTIONS TO HORIZONTAL DRAIN - DETAIL
SCALE: N.T.S.



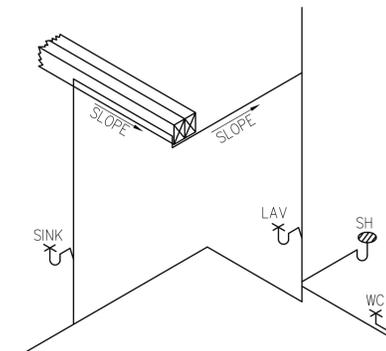
5
P-501
TYPICAL EASTERN STYLE WATER CLOSET WITH SPIGOT WATER PIPING DETAIL
SCALE: N.T.S.



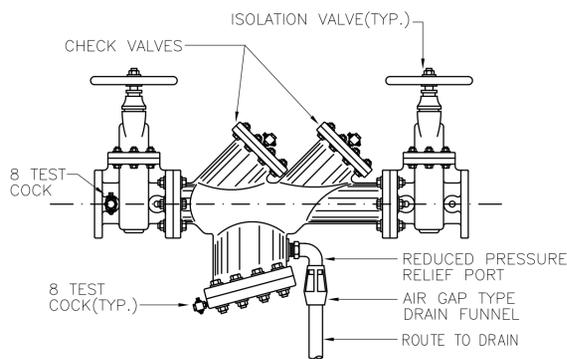
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P-501
TYPICAL EASTERN STYLE WATER CLOSET WITH SPIGOT WATER PIPING DETAIL
SCALE: N.T.S.



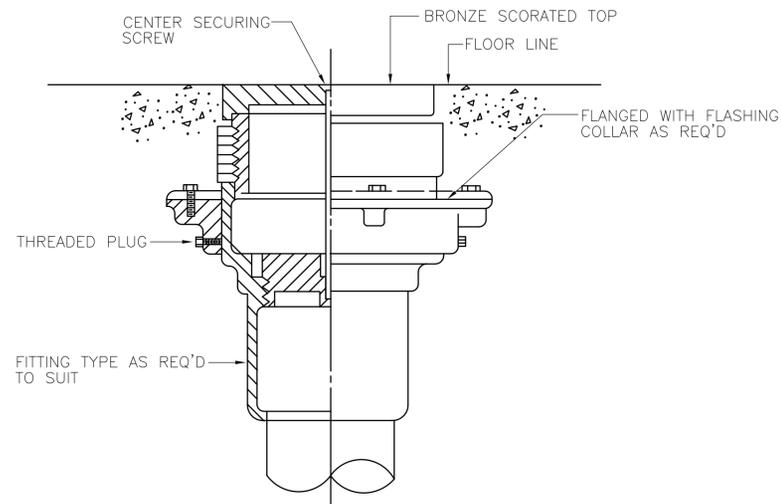
7
P-501
TYPICAL VENT SLOPE DETAILS
SCALE: N.T.S.



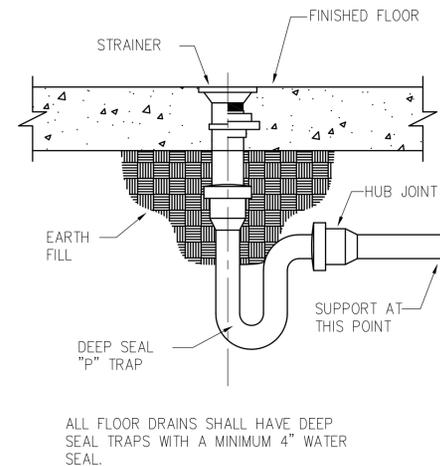
8
P-501
TYPICAL VENT SLOPE DETAILS
SCALE: N.T.S.



9
P-501
TYPICAL BACKFLOW PREVENTER DETAIL
SCALE: N.T.S.



10
P-501
TYPICAL FLOOR CLEANOUT DETAIL
SCALE: N.T.S.



11
P-501
FLOOR DRAIN DETAIL
SCALE: N.T.S.

NO MINIMUM PITCH REQUIRED, GRADE IN THE DIRECTION OF FLOW TO DRAINAGE SYSTEM

ALL FLOOR DRAINS SHALL HAVE DEEP SEAL TRAPS WITH A MINIMUM 4" WATER SEAL.

FIXTURE LIST							
TYPE	ITEM	SOIL & WASTE	VENT	COLD WATER	HOT WATER	REMARKS	REMARKS 2
W-1	EASTERN STYLE WATER CLOSET	100mm	50mm	25mm	-----	FLUSH VALVE	LOW FLOW EFFICIENT TYPE
L-2	WALL MOUNTED	40mm	40mm	15mm	15mm	WALL HUNG	LOW FLOW EFFICIENT TYPE
FD-1	FLOOR DRAIN	50mm	---	---	---	FINISH FLOOR SPACES	-----
HWH-1	POINT OF USE WATER HEATER	---	---	SEE DWG.	SEE DWG.	INSTANTANEOUS ELECTRIC WATER HEATER, 220/50/1, 7kW	-----



US ARMY CORPS OF ENGINEERS
AFGHANISTAN ENGINEER DISTRICT

Rev.	Date	Design file no.	Drawn by	Checked by	Reviewed by	Submitted by	File name	Plot date	Plot scale
10	06/30/10		RMH	CJM	CJM	CJM	ANAFRUP-001	07/20/2010	1:100

U.S. ARMY CORPS OF ENGINEERS
AFGHANISTAN ENGINEER DISTRICT
APO AE 96338
Michael Baker Jr., Inc.
A unit of Michael Baker Corporation
Arlide Business Park
Moon Township, PA 15108
www.mbakercorp.com

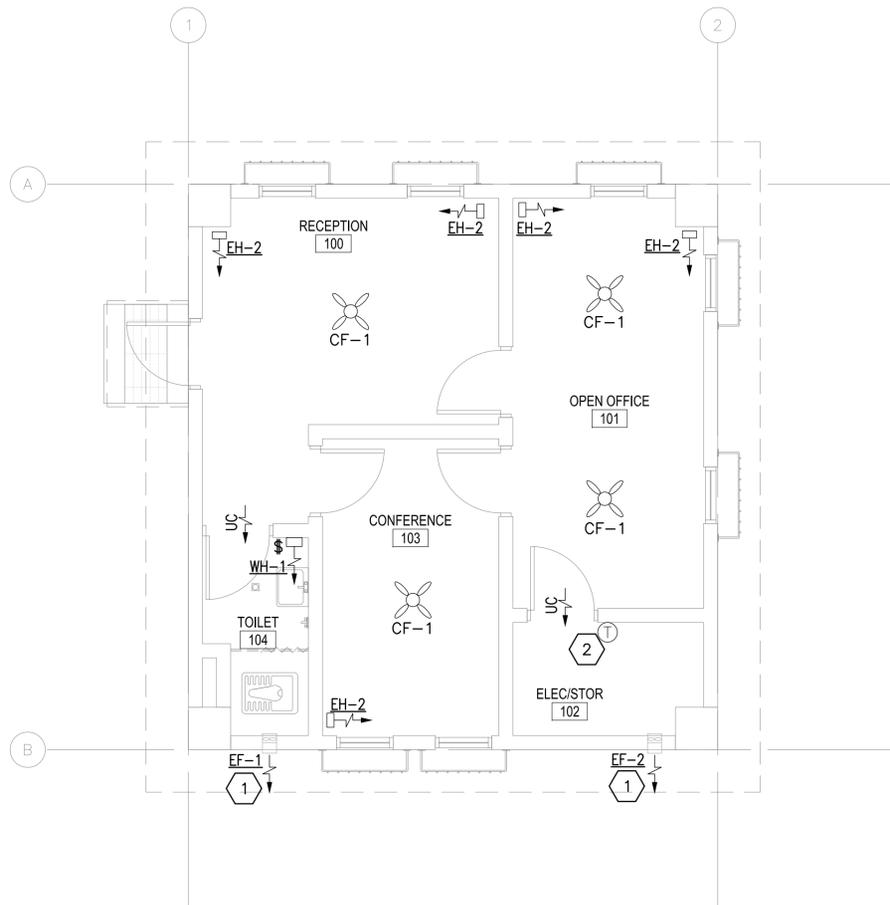
AFGHAN NATIONAL ARMY
STANDARD DESIGN
FAMILY RESPONSE UNIT OFFICES (STAND ALONE)
PLUMBING DETAILS

APPROVED:

A/E DESIGNER OF RECORD

SEAL:

Sheet reference number:
P-501



1 HVAC FLOOR PLAN
M-101 SCALE: 1:50

ELECTRIC UNIT HEATER SCHEDULE					
NO.	CMS	KW	FINAL AIR TEMP. °C	ELECT. CHAR.	MOUNTING
EH-2	0.200	2.6	38	220/1/50	WALL HUNG

- NOTES:
 1. UNIT HEATERS SHALL HAVE TAMPER PROOF INTEGRAL STATS.
 2. COORDINATE LOCATION AND ORIENTATION IN FIELD.

EXHAUST FAN SCHEDULE							
NO.	TYPE	FAN CMS	DRIVE	HP	SP mmH2O	ELECTRICAL DATA	SWITCH
EF-1	WALL	0.035	DIRECT	FRACT	9.5	220/1/50	⊙ WALL
EF-2	WALL	0.035	DIRECT	FRACT	9.5	220/1/50	W/ STAT

- NOTE:
 1. FANS SHALL HAVE SPRING OPERATED BACK DRAFT DAMPER.

CEILING FAN					
NO.	BLADE SIZE		VOLTAGE	SWITCH	REMARKS
	mm	IN			
CF-1	1320	52	220/1/50	⊙ WALL	3 SPEED REVERSIBLE MOTOR

- NOTES:
 1. INSTALL FANS 2.5M AFF.
 2. PROVIDE WITH OUT LIGHT FIXTURE.
 3. PROVIDE WITH REMOTE MOUNTED ON-OFF SWITCH SHOWN ON ELECTRICAL DRAWINGS.

ELECTRIC FAN-FORCED WALL HEATER SCHEDULE					
NO.	KW	AMPS	KW/HR	ELECT. CHAR.	MOUNTING
WH-1	0.5	2.1	38	220/1/50	SURFACE

- NOTES:
 1. COORDINATE LOCATION AND ORIENTATION IN FIELD.

GENERAL NOTES:

- DO NOT SCALE DRAWINGS – ALL DIMENSIONS AND CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE.
- ALL WORK PERFORMED ON THIS BUILDING SHALL BE IN COMPLIANCE WITH ALL PERTINENT CODES, RULES, ORDINANCES AND REGULATIONS OF THE GOVERNING AUTHORITIES.
- ALL WORK PERFORMED UNDER AND IN CONNECTION WITH THESE DRAWINGS AND SPECIFICATIONS SHALL BE IN STRICT COMPLIANCE WITH THE LATEST SAFETY AND HEALTH STANDARDS.

SYMBOLS:

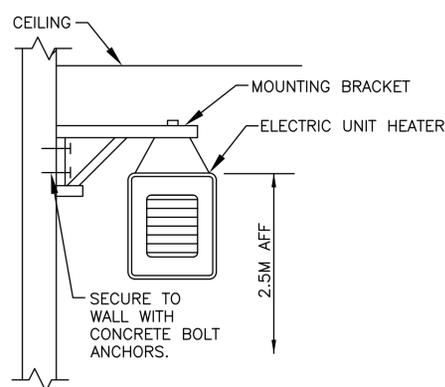
- ⊙ KEY NOTE
- (0.050) AIR VOLUME IN CUBIC METERS PER SECOND (CMS)
- ⊕ THERMOSTAT WITH LOCKING COVER
- UC DOOR UNDERCUT 25mm.
- ⌚ SINGLE POLE SWITCH FOR EXHAUST FAN – 20A RATED
- ⊠ ELECTRIC HEATER
- ⊗ CEILING FAN
- DIRECTION OF AIR FLOW

ABBREVIATIONS:

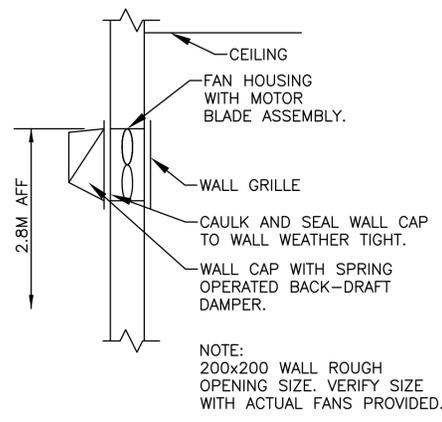
- AFF ABOVE FINISH FLOOR
- CF CEILING FANS
- CMS CUBIC METERS PER SECOND
- EF EXHAUST FAN
- EH ELECTRIC HEAT
- STATS THERMOSTATS
- WH WALL HEATER

KEY NOTE:

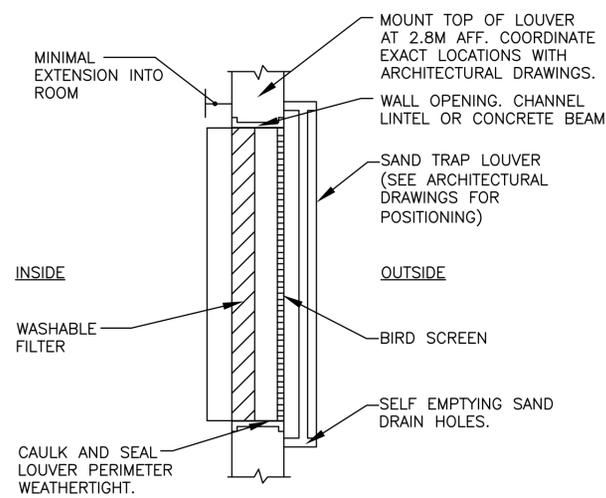
- ⊙1 WALL EXHAUST FAN WITH LOW SPRING OPERATED BACK-DRAFT DAMPER. SEE DETAIL THIS SHEET.
- ⊙2 THERMOSTAT MOUNTED AS HIGH AS POSSIBLE. INTERLOCK STAT WITH CORRESPONDING EXHAUST FAN, SET FAN TO ENERGIZE ON RISE IN TEMPERATURE ABOVE 25°C (77°F).



2 ELECTRIC UNIT HEATER MOUNTING DETAIL
M-101 N.T.S.



3 WALL EXHAUST FAN DETAIL
M-101 N.T.S.



4 FILTERED SAND TRAP LOUVER
M-101 N.T.S.



APPROVED: _____
 A/E DESIGNER OF RECORD
 SEAL:

 Matthew R. Sotosky



Rev.	Date	Description
10	06/30/10	Design file no.
		Drawing code:
		File name: ANAFRUM-01
		Plot date: 07/20/10
		Plot scale: xx

Designed by:	RML	Checked by:	CJM
Dwn by:	JUN	Reviewed by:	MRS
Submitted by:	BAKER		

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 APO AE 96338
 Michael Baker Jr., Inc.
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 Airside Business Park
 Moon Township, PA 15108
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AFGHAN NATIONAL ARMY
 STANDARD DESIGN
 FAMILY RESPONSE UNIT OFFICES (STAND ALONE)
 HVAC – FLOOR PLAN

Sheet reference number:
 M-101

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

STRUCTURAL DESIGN CRITERIA (CONT)

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

1.5 WIND LOADS (PER IBC 2006)

1.5.1 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

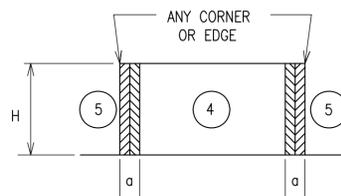
1.5.2 DESIGN WIND PRESSURE – MAIN WINDFORCE RESISTING SYSTEM

LOCATION	CORNER ZONE WIDTH "a"	MEAN ROOF HEIGHT (h)	WINDWARD WALL (@ MEAN ROOF HEIGHT)	LEEWARD WALL (@ MEAN ROOF HEIGHT)	ROOF
FIELD ZONE	N/A	5115mm	680 N/m ²	-480 N/m ²	-470 N/m ²
CORNER ZONE	1440mm	5115mm	800 N/m ²	-418 N/m ²	-750 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°.

1.5.3 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:



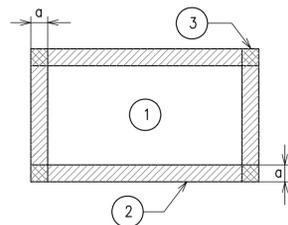
LOCATION	WINDWARD PRESSURE N/m ² (inward)		LEEWARD PRESSURE N/m ² (outward)		a (mm)
	④	⑤	④	⑤	
MAIN BUILDING					(mm)
AREA = 1 m ²	788	788	-850	-1050	1440
AREA = 2 m ²	748	748	-815	-967	1440
AREA = 5 m ²	700	700	-765	-880	1440
AREA = 10 m ²	648	648	-715	-750	1440

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

1.5 WIND LOADS (CON'T)

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 (mm)
	①	②	③	
MAIN BUILDING				(mm)
AREA = 1 m ²	-787	-931	-1738	1440
AREA = 2 m ²	-787	-931	-1738	1440
AREA = 5 m ²	-787	-931	-1738	1440
AREA = 10 m ²	-787	-931	-1738	1440

NOTES:
 1. DESIGN WIND PRESSURES ABOVE REPRESENT THE NET PRESSURE (SUM OF INTERNAL AND EXTERNAL PRESSURE) APPLIED NORMAL TO ALL SURFACES.
 2. LINEAR INTERPOLATION BETWEEN VALUES OF TRIBUTARY AREA IS PERMISSIBLE.
 3. 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/cm ³
MINIMUM BEARING DEPTH BELOW GRADE	800mm
SEISMIC SITE CLASS (based on in-situ soil)	D

CONCRETE BEAM SCHEDULE

GRADE BEAM						
MARK	SIZE (BxH)	REINFORCING			REMARKS	
		TOP	BOTTOM	STIRRUPS		
GB1	400x750	(3)-#22	(3)-#22	#13 @ 200	(1) #22 EF	TOP BAR LAP AT CENTER BOT BAR LAP PAST COL

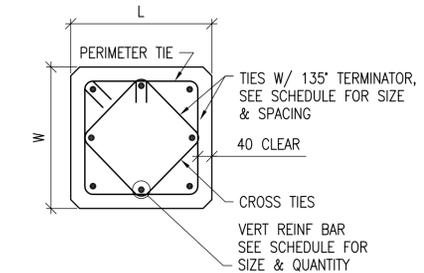
ROOF BEAM						
MARK	SIZE (BxH)	REINFORCING			REMARKS	
		TOP	BOTTOM	STIRRUPS		
RB1	400x600	(2)-#19	(2)-#19	#13 @ 250	N/A	TOP BAR LAP AT CENTER BOT BAR LAP PAST COL

NOTE:
 1. DIMENSIONS NOTED ARE MILLIMETERS (mm) UON.

CONCRETE COLUMN SCHEDULE

MARK	SIZE (LxW)	VERT BARS	REINFORCING
			TIES
C1	400x400	(8)-#25	#13 @ 100 (CORE OF EXT & CORNER COLUMNS) #13 @ 150 (CORE OF INTERIOR COLUMNS) #13 @ 200 (OTHER)

NOTE:
 1. DIMENSIONS NOTED ARE MILLIMETERS (mm) UON.
 2. SECOND STORY COLUMNS ARE SAME AS FIRST STORY COLUMNS.
 3. CORE INDICATES THE AREA OF COLUMN & BEAM INTERSECTION
 4. TIE INDICATES PERIMETER & CROSS TIE COMBINED



1 COLUMN DETAIL
 SCALE: 1:10

SPREAD FOOTING SCHEDULE

MARK	FOOTING SIZE (mm)			FOOTING REINFORCING	REMARKS
	LENGTH	WIDTH	THICKNESS		
F1	2000	2000	300	(7)-#16 EW BOTT	-----
F2	2200	2200	300	(8)-#16 EW BOTT	-----
F3	4900	2000	300	(8)-#16 LONG, T&B (17)-#16 SHORT, BOTT	-----
F4	4900	2200	300	(8)-#16 LONG, T&B (17)-#16 SHORT, BOTT	-----

NOTES:
 1. DIMENSIONS NOTED ARE MILLIMETERS (mm) UON.

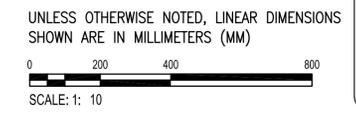
US Army Corps of Engineers
 Afghanistan Engineer District

NO.	DESCRIPTION	DATE

DESIGNED BY: KMP
 DATE: 09-30-09
 DWN BY: RCG
 SUBMITTED BY: BAKER
 CHK BY: CWV
 FILE NO.: ANPSDS-02XXXX
 Michael Baker, Jr. Inc.
 A Unit of Michael Baker Corporation
 1000 Business Park
 Moon Township, PA 15108
 www.mbakercorp.com

AFGHAN NATIONAL POLICE
 STANDARD DESIGN
 ADMINISTRATION BUILDING (508 GSM)
 WOOD FIRED HEAT OPTION
 DESIGN CRITERIA & SCHEDULES

SHEET REFERENCE NUMBER:
S2



100% SUBMISSION

SYMBOL	DESCRIPTION	DATE	APP

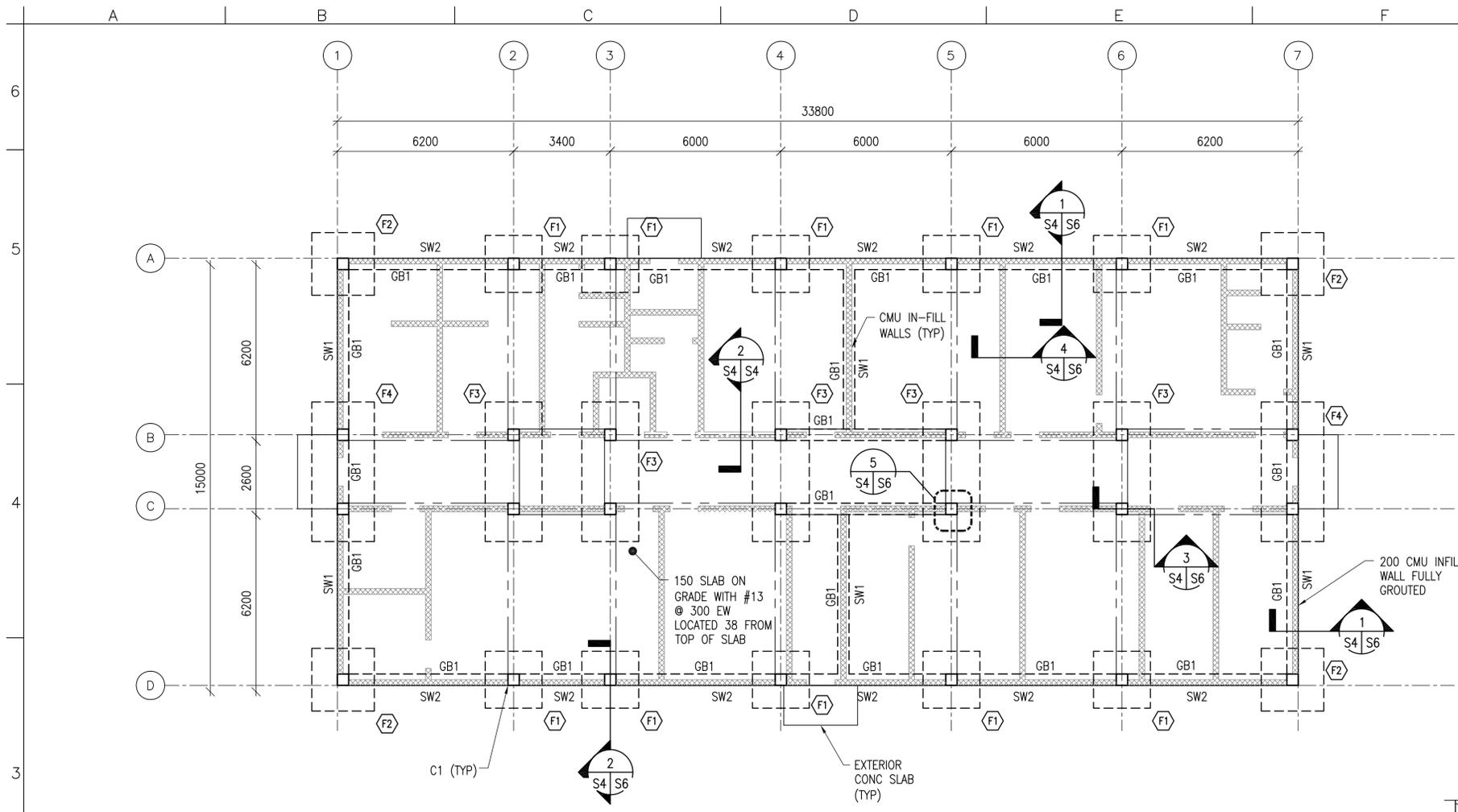
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DWN BY:	RCG	SUBMITTED BY:	BAKER
CHK BY:	CWW	FILE NO.:	ANFSDS-104XXX

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AFGHAN NATIONAL POLICE
STANDARD DESIGN
ADMINISTRATION BUILDING (508 GSM)
WOOD FIRED HEAT OPTION
FOUNDATION PLAN

SHEET REFERENCE NUMBER:
S4

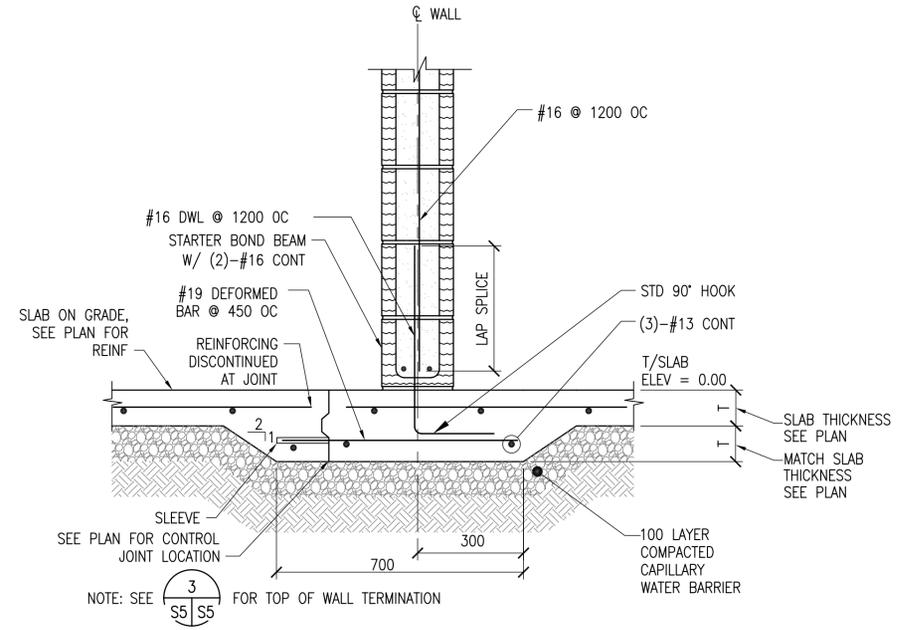
100% SUBMISSION



1
FOUNDATION PLAN
SCALE: 1:100

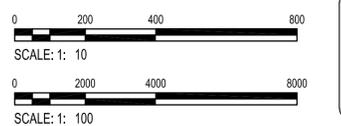
PLAN NOTES:

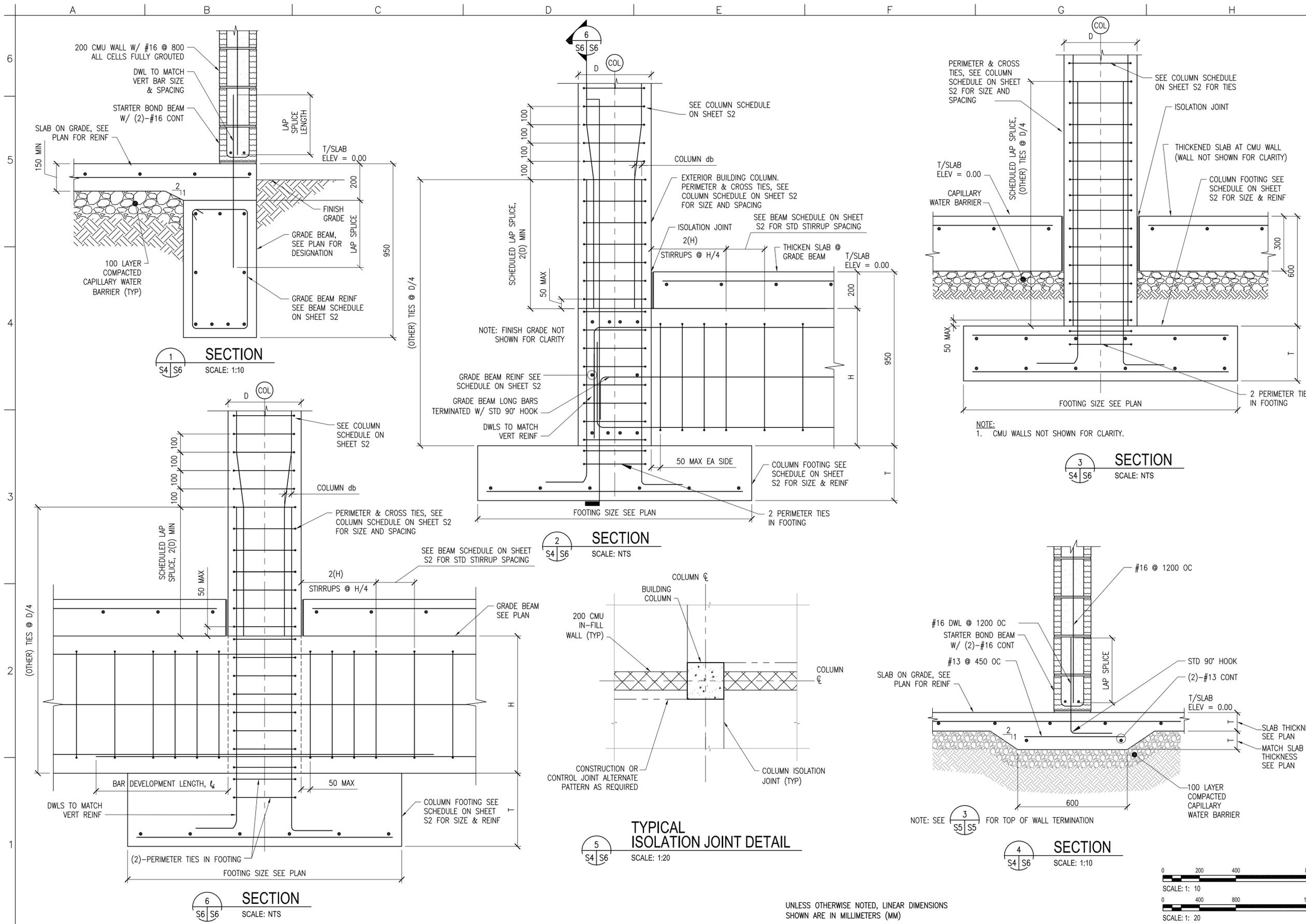
1. FINISH FIRST FLOOR ELEVATION SHALL BE (DATUM 0.0). ALL PLUS OR MINUS DIMENSIONS INDICATED ON PLAN OR REFERRED TO IN NOTES RELATE TO FINISH FIRST FLOOR ELEVATION.
2. TOP OF EXTERIOR FOOTINGS SHALL BE -950 UNLESS OTHERWISE INDICATED.
3. TOP OF INTERIOR FOOTING SHALL BE -600 UNLESS OTHERWISE INDICATED.
4. SPREAD FOOTINGS INDICATED BY F# ON PLAN. REFER TO SPREAD FOOTING SCHEDULE ON SHEET S2.
5. COLUMNS INDICATED THUS C# ON PLAN. REFER TO COLUMN SCHEDULE ON SHEET S2.
6. REFER TO SHEETS S1 TO S3 FOR STRUCTURAL NOTES AND BASIS OF DESIGN.
7. CTJ & CSJ INDICATES SLAB CONTROL OR CONSTRUCTION JOINTS. RESPECTIVELY, REFER TO SHEET S8 FOR DETAILS.
8. SEE CMU WALL REINFORCING SCHEDULE ON SHEET S3.
9. REFER TO ARCHITECTURAL SHEETS FOR MASONRY PARTITION TYPES.
10. SEE MECHANICAL AND ELECTRICAL SHEETS FOR CONCRETE PAD LOCATIONS, SIZES, AND THICKNESS NOT SHOWN. SEE SHEET S8 FOR DETAILS.



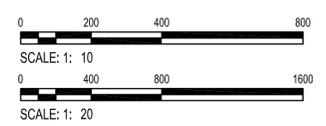
2
SECTION
SCALE: 1:10

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





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



US Army Corps of Engineers
Afghanistan Engineer District

NO.	DATE	DESCRIPTION	SYMBOL

DESIGNED BY: KMP
DATE: 09-30-09
DWN BY: RCG
SUBMITTED BY: BAKER
CHK BY: CWV
FILE NO.: ANFSDS-306XXX

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AFGHAN NATIONAL POLICE
STANDARD DESIGN
ADMINISTRATION BUILDING (508 GSM)
WOOD FIRED HEAT OPTION

FOUNDATION SECTIONS & DETAILS

SHEET REFERENCE NUMBER:
S6

100% SUBMISSION

KEY NOTES:

1. CORRUGATED METAL ROOF PANELS ON COLD-FORMED METAL FRAMING.
2. CONTINUOUS RIDGE VENT
3. METAL GUTTER
4. METAL DOWNSPOUT WITH SPLASH BLOCK
5. ROOF PENETRATION - RE: DETAIL 5/A2
6. LINE OF BUILDING WALL BELOW.
7. METAL CANOPY

SYMBOL	DESCRIPTION	DATE	APP

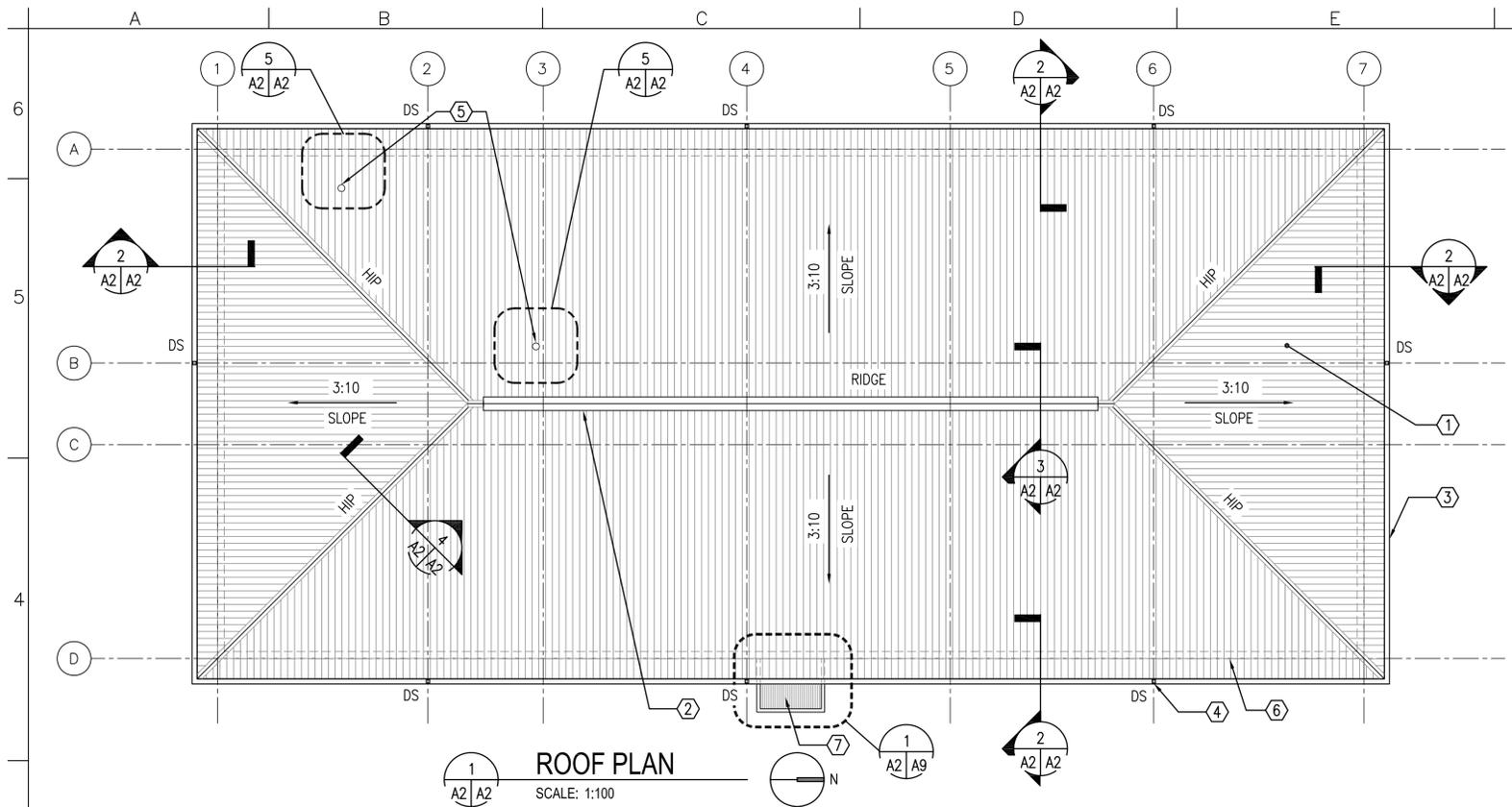
DESIGNED BY:	DATE:	09-30-09
KOB	SUBMITTED BY:	BAKER
DWN BY:	KJG	
CHK BY:	NLJ	
FILE NO.:	ANPSDA-102XXX	

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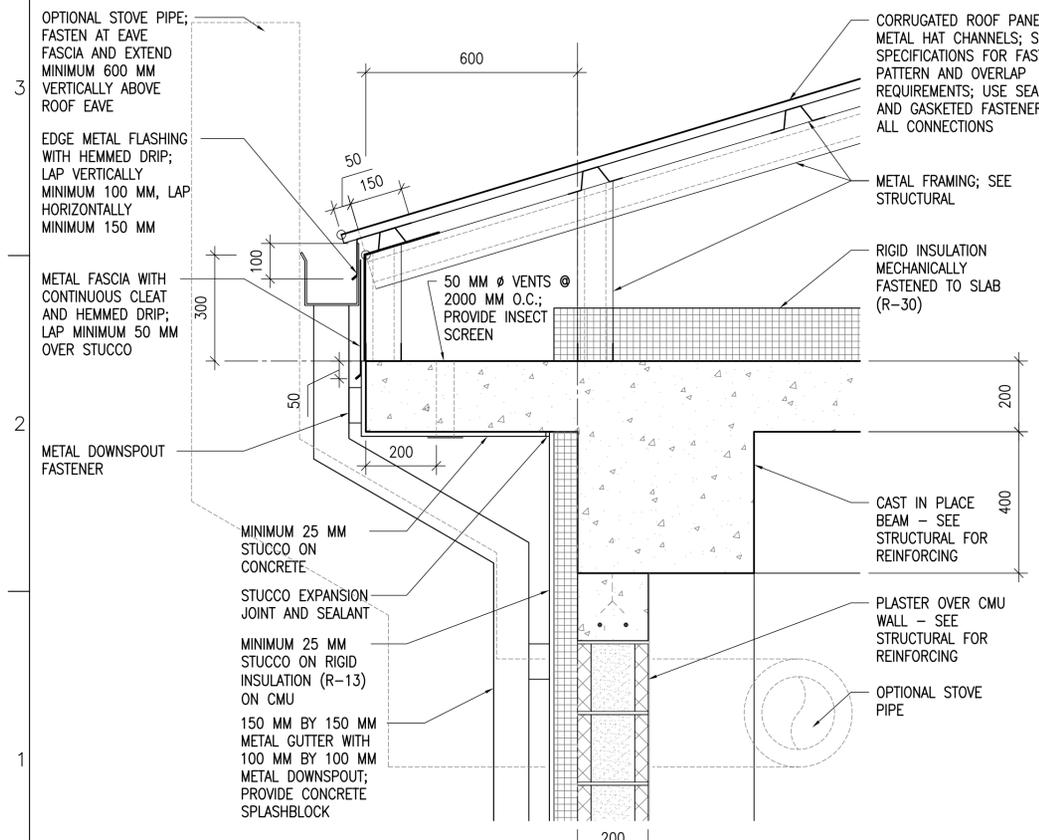
AFGHAN NATIONAL POLICE
STANDARD DESIGN
ADMINISTRATION BUILDING (508 GSM)
WOOD FIRED HEAT OPTION
ROOF PLAN AND DETAILS

SHEET REFERENCE NUMBER:
A2

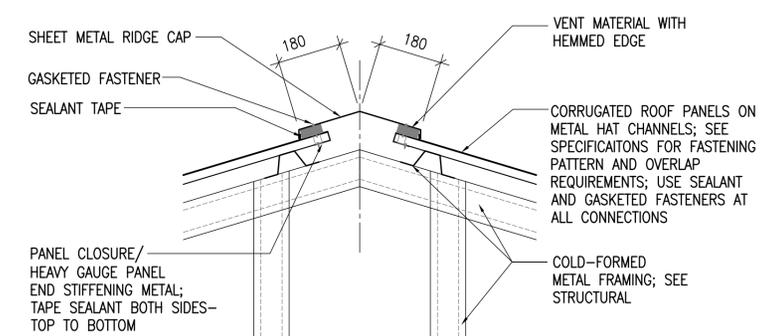
100% SUBMISSION



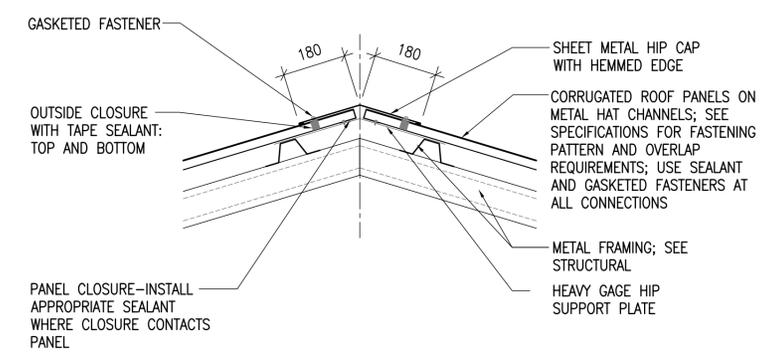
1 ROOF PLAN
SCALE: 1:100



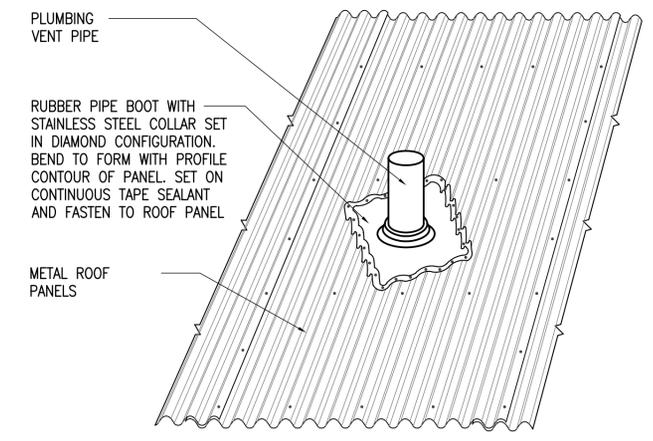
2 EAVE DETAIL
SCALE: 1:10



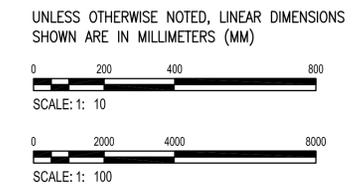
3 RIDGE VENT DETAIL
SCALE: 1:10



4 HIP DETAIL
SCALE: 1:10



5 PLUMBING VENT DETAIL
SCALE: NONE



SYMBOL	DESCRIPTION	DATE	APP

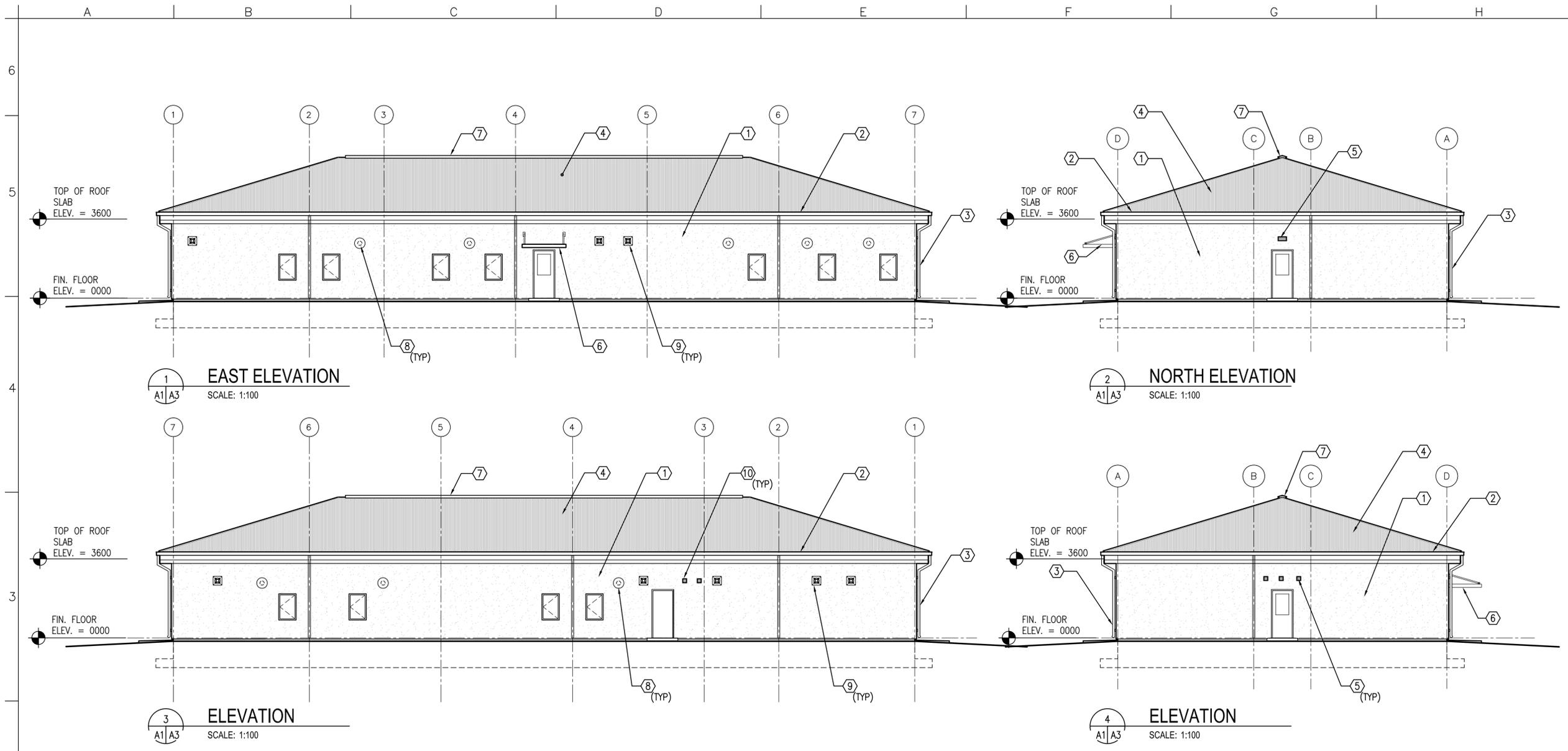
DESIGNED BY:	DATE:	09-30-09
DWN BY:	KOB	
CHK BY:	KJG	
FILE NO.:	ANPSDA-203XXX	
SUBMITTED BY:	BAKER	

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A Unit of Michael Baker Corporation
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AFGHAN NATIONAL POLICE
STANDARD DESIGN
ADMINISTRATION BUILDING (508 GSM)
WOOD FIRED HEAT OPTION
EXTERIOR ELEVATIONS

SHEET REFERENCE NUMBER:
A3

100% SUBMISSION



KEY NOTES:

1. STUCCO AND RIGID INSULATION SYSTEM OVER CMU AND CONCRETE.
2. METAL GUTTER
3. METAL DOWNSPOUT WITH SPLASH BLOCK
4. CORRUGATED METAL ROOF PANELS ON COLD-FORMED METAL FRAMING.
5. LOUVER - RE: MECH
6. METAL ENTRANCE CANOPY
7. CONTINUOUS RIDGE VENT
8. TWO-PIECE WALL THIMBLE AND TRIM PLATE FOR OPTIONAL WOOD BURNING STOVE CHIMNEY PIPE. STOVE AND PIPE BY OTHERS.
9. EXHAUST FAN - RE: MECH
10. EXHAUST FAN WITH DUCT WALL CAP - RE: MECH

GENERAL NOTES:

1. COORDINATE SIZE AND LOCATION OF OPENINGS FOR MECHANICAL ITEMS WITH MECHANICAL DRAWINGS
2. PROVIDE STRUCTURAL LINTELS AS REQUIRED - RE: STRUCT

UNLESS OTHERWISE NOTED, LINEAR DIMENSIONS SHOWN ARE IN MILLIMETERS (MM)
0 2000 4000 8000
SCALE: 1: 100

