

AFGHAN NATIONAL ARMY

STANDARD BUILDING DESIGN

CRIME INVESTIGATION DIRECTORATE OFFICES WITH FAMILY RESPONSE UNIT OFFICES

100% DESIGN SUBMITTAL



Rev.	Date	Description
0		

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AFGHAN NATIONAL ARMY
STANDARD DESIGN
CRIME INVESTIGATION DIRECTORATE OFFICES (CID)
WITH FAMILY RESPONSE UNIT OFFICES (FRU)
COVER SHEET

Sheet reference number:
G-001

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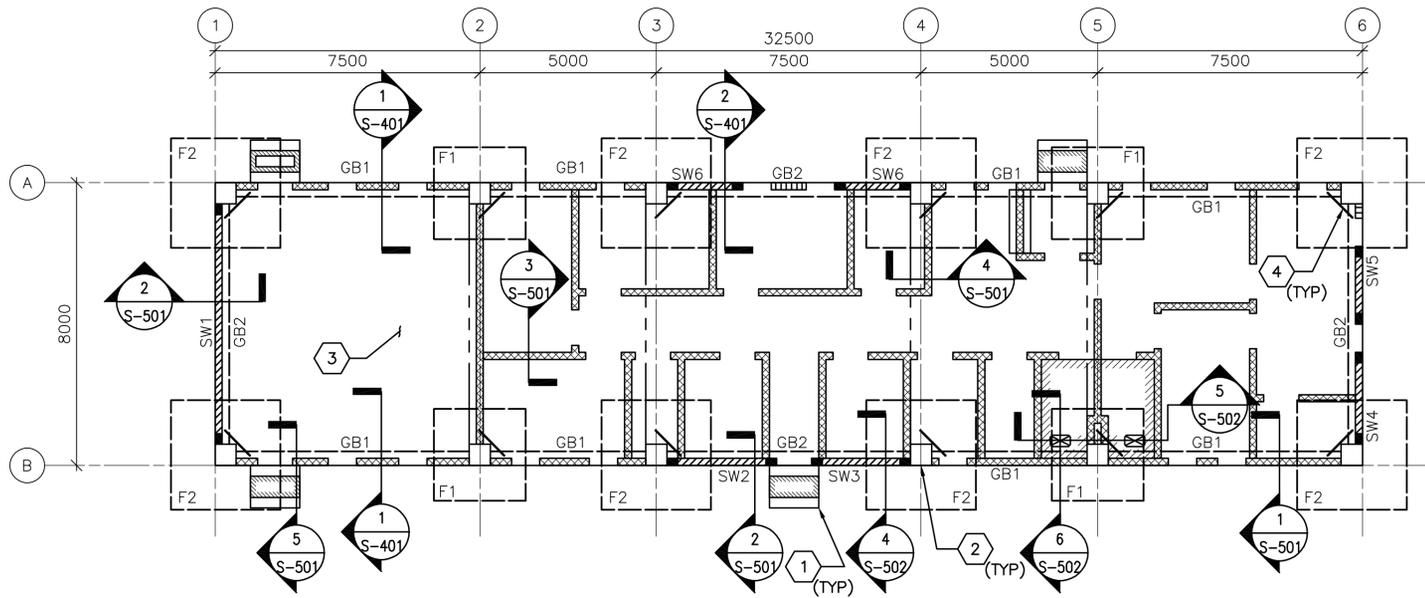
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US ARMY CORPS OF ENGINEERS
AFGHANISTAN ENGINEER DISTRICT



1 FOUNDATION/SLAB PLAN
SCALE: 1:100

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. TOP OF INTERIOR FOOTINGS WITHOUT GRADE BEAM ABOVE SHALL BE -600.
6. COLUMN FOOTINGS INDICATED BY F# ON PLAN. REFER TO COLUMN FOOTING SCHEDULE ON SHEET S-601.
7. REFER TO COLUMN SCHEDULE ON SHEET S-601.
8. GRADE BEAM INDICATED BY GB# ON PLAN, REFER TO BEAM SCHEDULE ON SHEET S-601.
9. SHEARWALL INDICATED BY SW# ON PLAN, REFER TO SHEARWALL SCHEDULE ON SHEET S-601.
10. SEE TYP EXTERIOR AND INTERIOR CMU WALL REINFORCING DETAILS ON SHEET S-701.
11. SEE MECHANICAL AND ELECTRICAL SHEETS FOR CONCRETE PAD LOCATIONS, SIZES, AND THICKNESS NOT SHOWN. SEE SHEET S-701 FOR DETAILS.
12. THICKENED SLAB UNDER CMU PERIMETER & PARTITION WALLS NOT SHOWN FOR CLARITY.

FOUNDATION/SLAB PLAN KEY NOTES: (X)

- 1. CONC SLAB (ENTRANCE)-SEE ARCH DWGS FOR INFORMATION
2. REINF CONC COLUMN
3. REINF CONC SLAB-ON-GRADE
4. (2)-#13 RE-ENTRANT CORNER BARS (TYP) - SEE S-701 FOR INFORMATION

FOUNDATION/SLAB PLAN LEGEND:

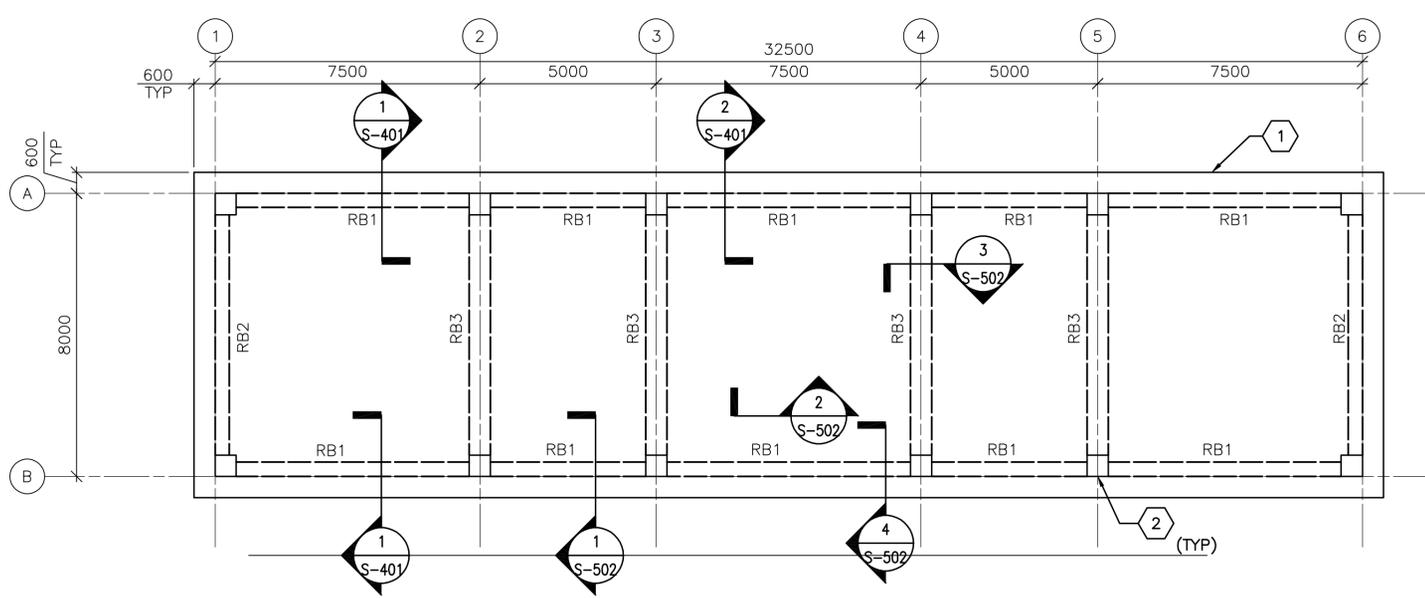
- REINF CONC SHEAR WALL
REINF CONCRETE INFILL WALL
REINF CMU WALL
CONTROL JOINT
INDICATES DROP SLAB 65 BELOW FINISH FLOOR
INDICATES DROP SLAB FOR DOOR STOOP 4/A-505
SLAB OPENING
OUTLINE OF THICKENED SLAB AREAS

ROOF FRAMING PLAN NOTES:

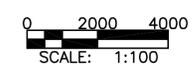
- 1. REFER TO SHEETS S-001 FOR STRUCTURAL NOTES AND DESIGN CRITERIA.
2. TOP OF SLAB ELEVATION = 3700 UNLESS NOTED OTHERWISE.
3. ROOF SLAB IS 200 WITH #16 @ 300 OC EW T&B.
4. ROOF BEAM INDICATED BY RB# ON PLAN. REFER TO BEAM SCHEDULE ON SHEET S-601.
5. COORDINATE WITH ARCHITECTURAL SHEETS FOR COLD-FORMED 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. CMU PARTITION WALLS (BELOW ROOF SLAB) NOT SHOWN FOR CLARITY.
8. OVERHANG AREAS OF ROOF SLAB CONTAIN ROOF VENT PENETRATIONS. REFERENCE ARCHITECTURAL DRAWINGS FOR INFORMATION.

ROOF FRAMING KEY NOTES: (X)

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



2 ROOF FRAMING PLAN
SCALE: 1:100



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

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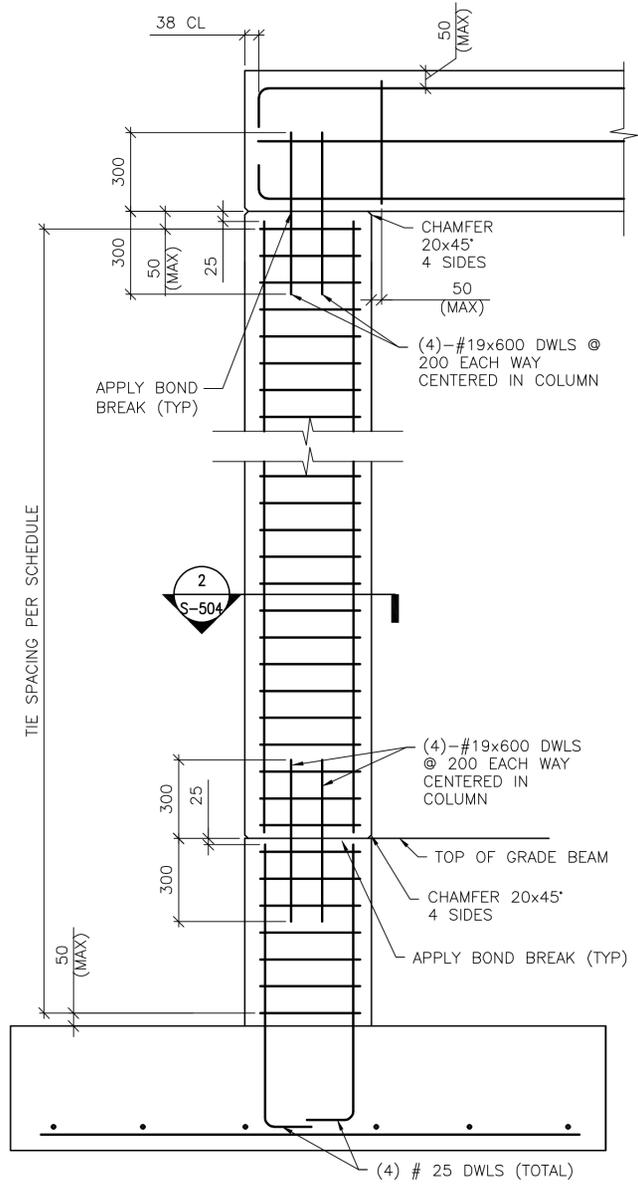


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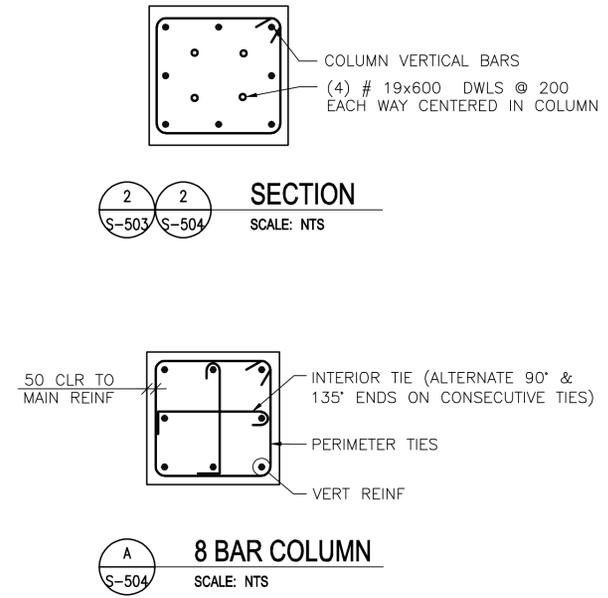
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AFGHAN NATIONAL ARMY STANDARD DESIGN
CRIME INVESTIGATION DIRECTORATE OFFICES (CID) WITH FAMILY RESPONSE UNIT OFFICES (FRU) FOUNDATION/SLAB & ROOF FRAMING PLANS

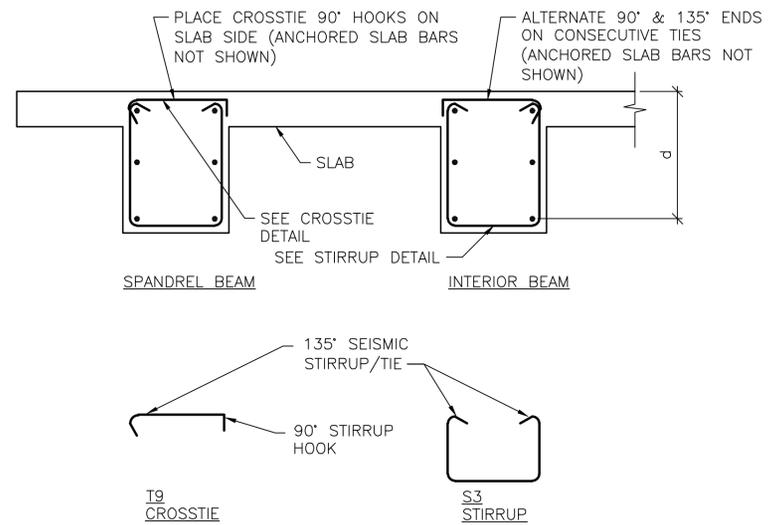
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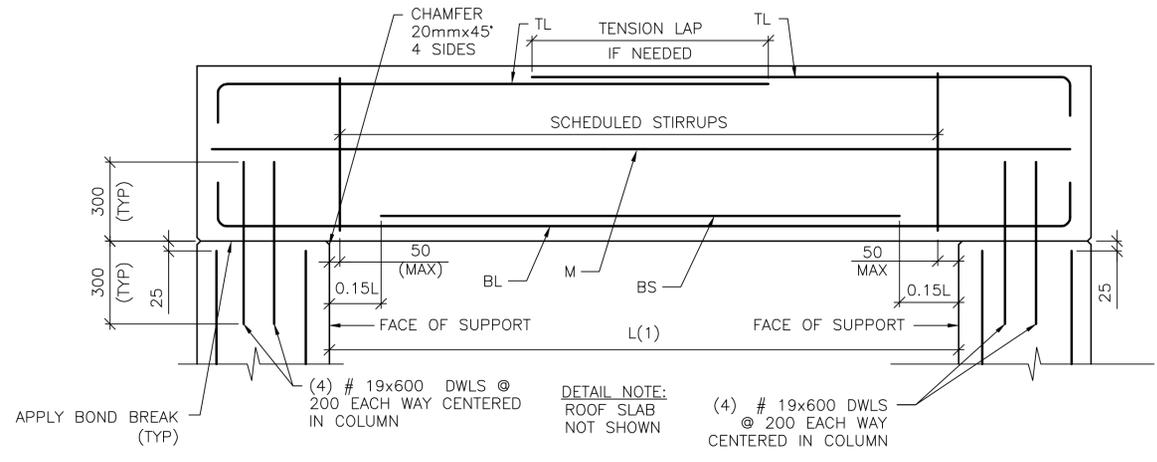
1-STORY COLUMN REINF DETAILS
 SCALE: NTS
 (WITH GRADE BEAM)



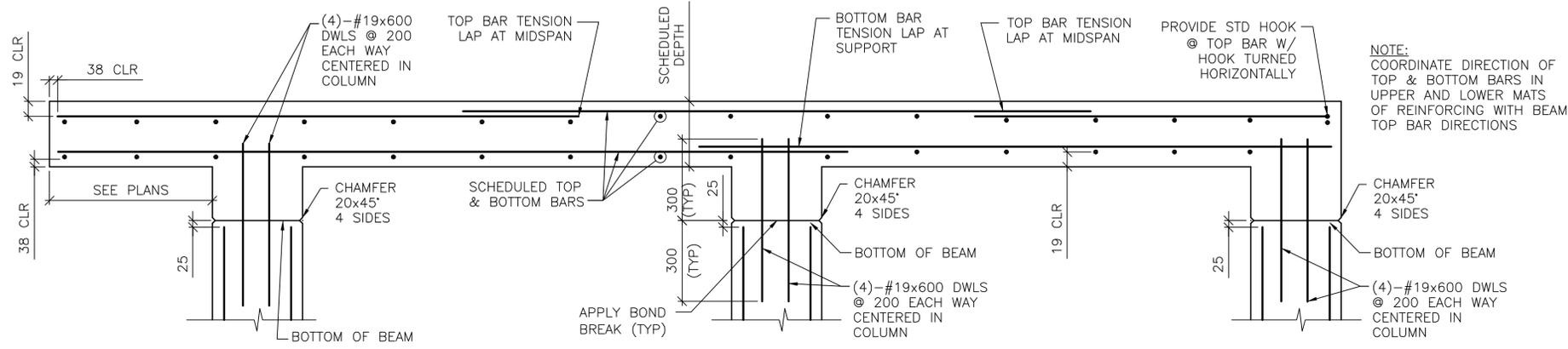
8 BAR COLUMN
 SCALE: NTS



BEAM REINFORCEMENT DETAILS
 SCALE: NTS



SINGLE SPAN ROOF BEAM REINFORCING DETAIL
 SCALE: NTS



FRAMED SLAB REINFORCING DETAIL
 SCALE: NTS



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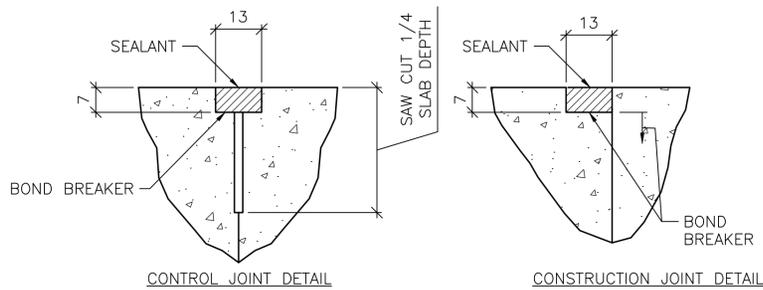
AFGHAN NATIONAL ARMY
 STANDARD DESIGN
 CRIME INVESTIGATION DIRECTORATE OFFICES (CID)
 WITH FAMILY RESPONSE UNIT OFFICES (FRU)

Sheet reference number:
S-504

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

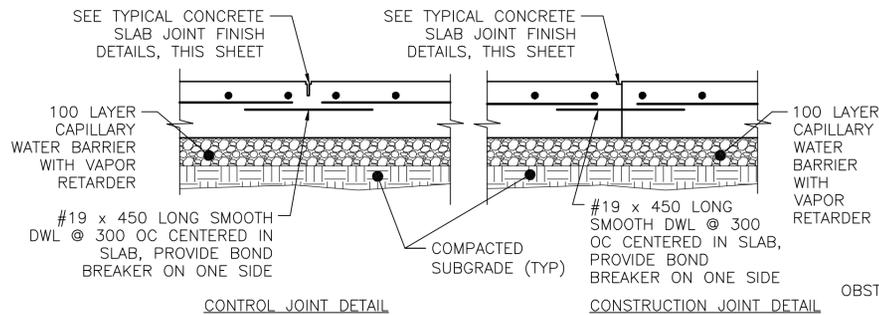
APPROVED:
Chris White
 A/E DESIGNER OF RECORD





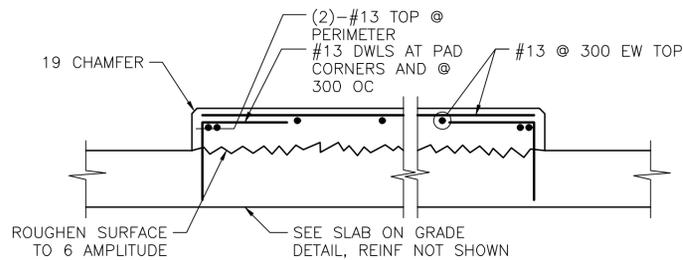
TYPICAL CONCRETE SLAB JOINT FINISH DETAILS

1 S-701 SCALE: NTS



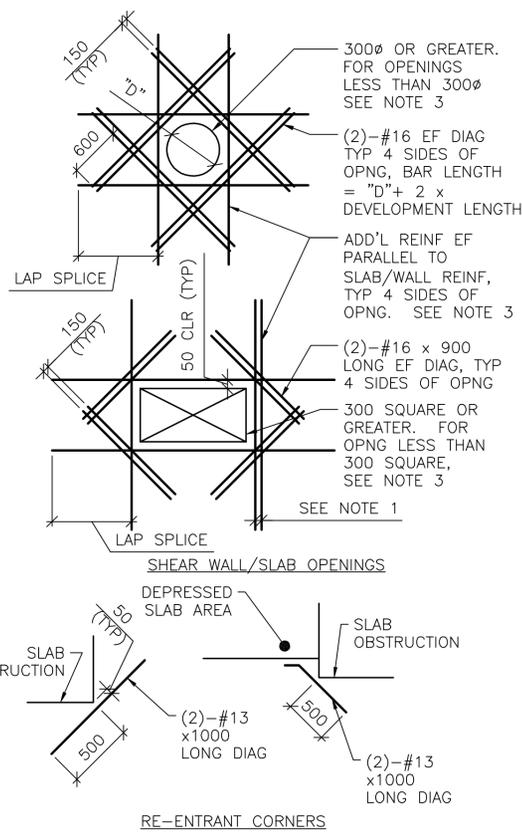
TYPICAL SLAB ON GRADE JOINT DETAIL

2 S-701 SCALE: NTS



INTERIOR EQUIPMENT PAD DETAIL

3 S-701 SCALE: NTS

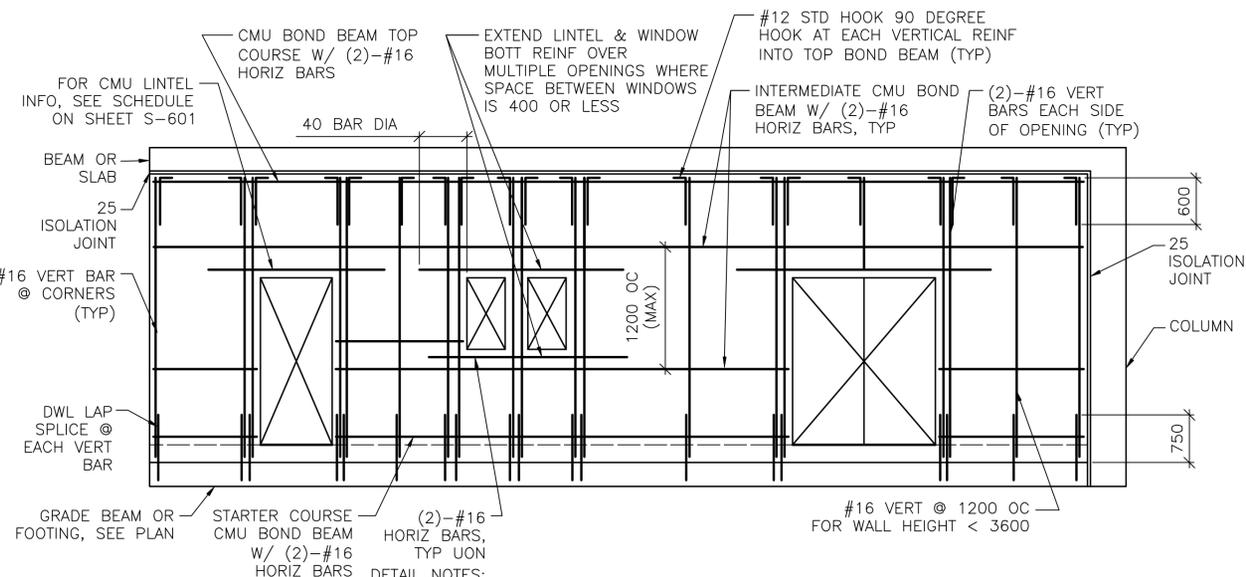


DETAIL NOTES:

- WHERE MORE THAN ONE ADDITIONAL BAR IS REQUIRED PARALLEL TO THE EXISTING SLAB/WALL REINFORCING THE ADDITIONAL REINFORCING BARS SHALL BE SPACED AT 100 ON CENTER.
- ADDITIONAL REINFORCING PARALLEL TO THE SLAB/WALL REINFORCING SHALL BE #16 BARS THAT PROVIDE A STEEL AREA ON EACH SIDE OF THE OPENING EQUAL TO 1/2 THE AREA OF THE REINFORCING CUT BY THE OPENING.
- FOR OPENINGS WITH SIDES OR DIAMETERS LESS THAN 300 SPREAD THE SLAB/WALL REINFORCING TO CLEAR THE OPENING.

ADD'L CONCRETE REINFORCEMENT DETAILS

4 S-701 SCALE: NTS

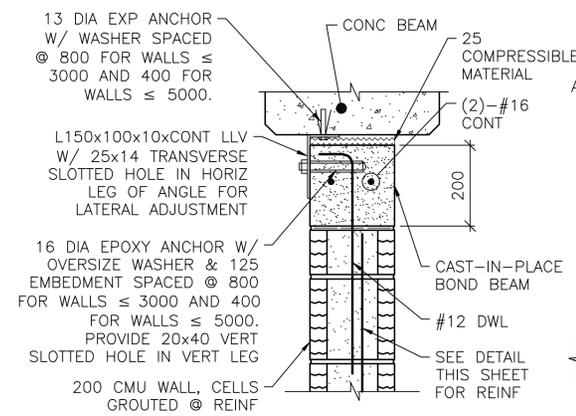


DETAIL NOTES:

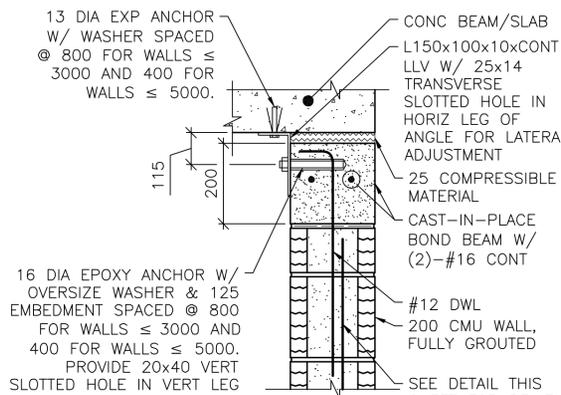
- CENTER VERT REINF IN WALL.
- GROUT ALL CMU CELLS IN EXTERIOR WALLS & REINFORCED CELLS IN INTERIOR WALLS.
- REFERENCE ARCH DWGS FOR JOINT INFORMATION
- DOWELS BETWEEN TOP BOND BEAM AND BEAM/SLAB ABOVE (INCLUDING EMBEDDED PIPE SLEEVE) NOT SHOWN FOR CLARITY. SEE SPECIFIC S-500 SERIES DWGS FOR INFO.
- FOR INFORMATION ON ALTERNATE CAST-IN-PLACE WALL BOND BEAMS, REFERENCE ALTERNATE TOP OF CMU WALL BRACING DETAILS THIS SHEET.

TYP CMU WALL REINF DETAIL

7 S-701 SCALE: NTS



- NOTES:**
- AT ANCHOR BOLTS, ADD AN ADDITIONAL 25 COMPRESSIBLE MATERIAL BELOW EXP ANCHOR HEAD.

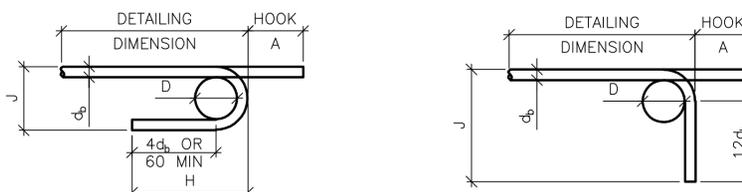


NOTES:

- THIS DETAIL IS AN ALTERNATE TOP OF WALL ANCHORAGE DETAIL TO BE USED AT THE CONTRACTOR'S OPTION IN LIEU OF DETAILS SHOWN ON S-400 & S-500 DRAWINGS.
- CAST-IN-PLACE BOND BEAM SHOWN AT TOP OF WALL IS ALSO APPLICABLE FOR INTERMEDIATE AND STARTER COURSE BOND BEAMS WITHIN WALL.

ALTERNATE TOP OF CMU WALL BRACING DETAILS

5 S-701 SCALE: NTS



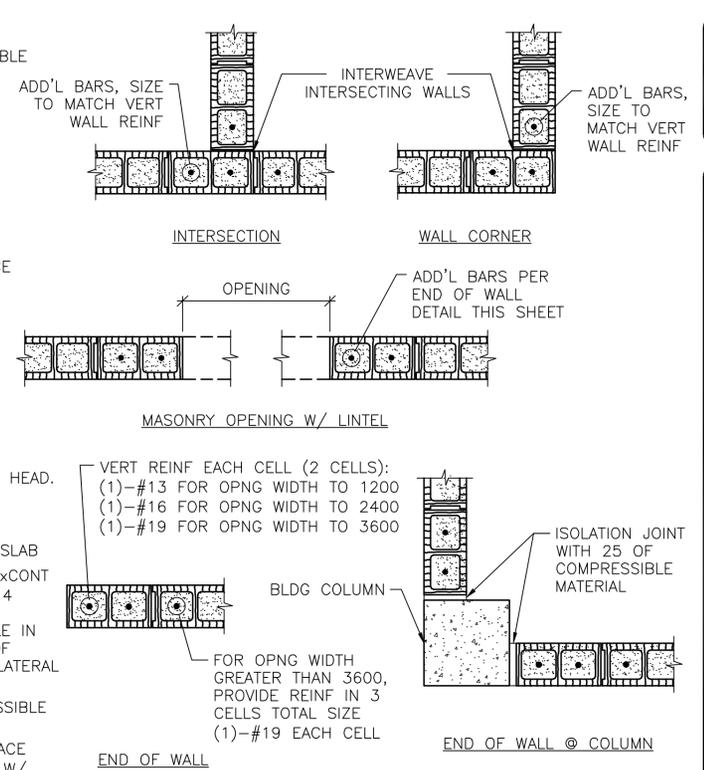
SIZES OF 180° HOOK			
BAR SIZE	A	J	APPROX H
#10	130	80	100
#13	150	100	110
#16	180	130	130
#19	200	150	150
#22	250	180	180
#25	280	200	200
#29	380	290	260
#32	430	320	290
#36	480	360	320

$D = 6d_b$ FOR #10-#25
 $D = 6d_b$ FOR #29-#36
 $d_b =$ BAR DIA

SIZES OF 90° HOOK		
BAR SIZE	A	J
#10	140	150
#13	190	220
#16	230	270
#19	270	320
#22	320	370
#25	370	430
#29	420	480
#32	470	580
#36	520	610

TYP REINFORCEMENT BAR BENDING DETAILS

8 S-701 SCALE: NTS



- NOTES:**
- OPENING WIDTH SHALL NOT EXCEED 3600 FOR THIS TYPE OF JAMB.
 - ALL CELLS FULLY GROUTED AT EXTERIOR WALLS. AT INTERIOR WALLS, ONLY GROUT CELLS CONTAINING REINF.

TYP CMU DETAILS

6 S-701 SCALE: NTS

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

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

SEAL:



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 AFGHANISTAN ENGINEER DISTRICT

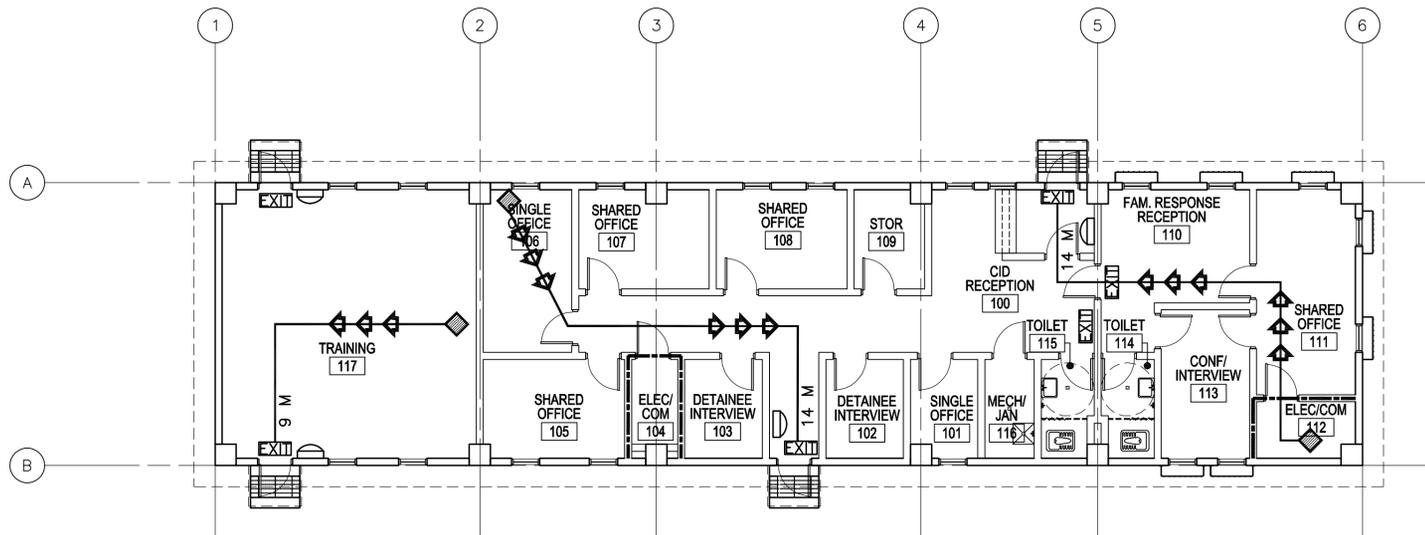
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 Cld by: CWV
 Reviewed by: LHM
 Submitted by: BAKER

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AFGHAN NATIONAL ARMY
 STANDARD DESIGN
 CRIME INVESTIGATION DIRECTORATE OFFICES (CID)
 WITH FAMILY RESPONSE UNIT OFFICES (FRU)

Sheet reference number:
S-701



1 LIFE SAFETY PLAN
SCALE: 1:100

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: 260 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 = 28 OCCUPANTS
8. **NFPA 101 TABLE 7.3.3.1 - EGRESS CAPACITY**
BUSINESS = 5 MM PER OCCUPANT

REQUIRED: 140 MM (28 OCCUPANTS x 5 MM PER OCCUPANT)
PROPOSED EGRESS CAPACITY: 1800 MM
9. **NFPA 101 PARAGRAPH 38.2.6.2 - EXIT ACCESS TRAVEL DISTANCE (NONSPRINKLERED)**
REQUIRED: 60 METERS
PROPOSED: 14 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: 4 EXITS

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

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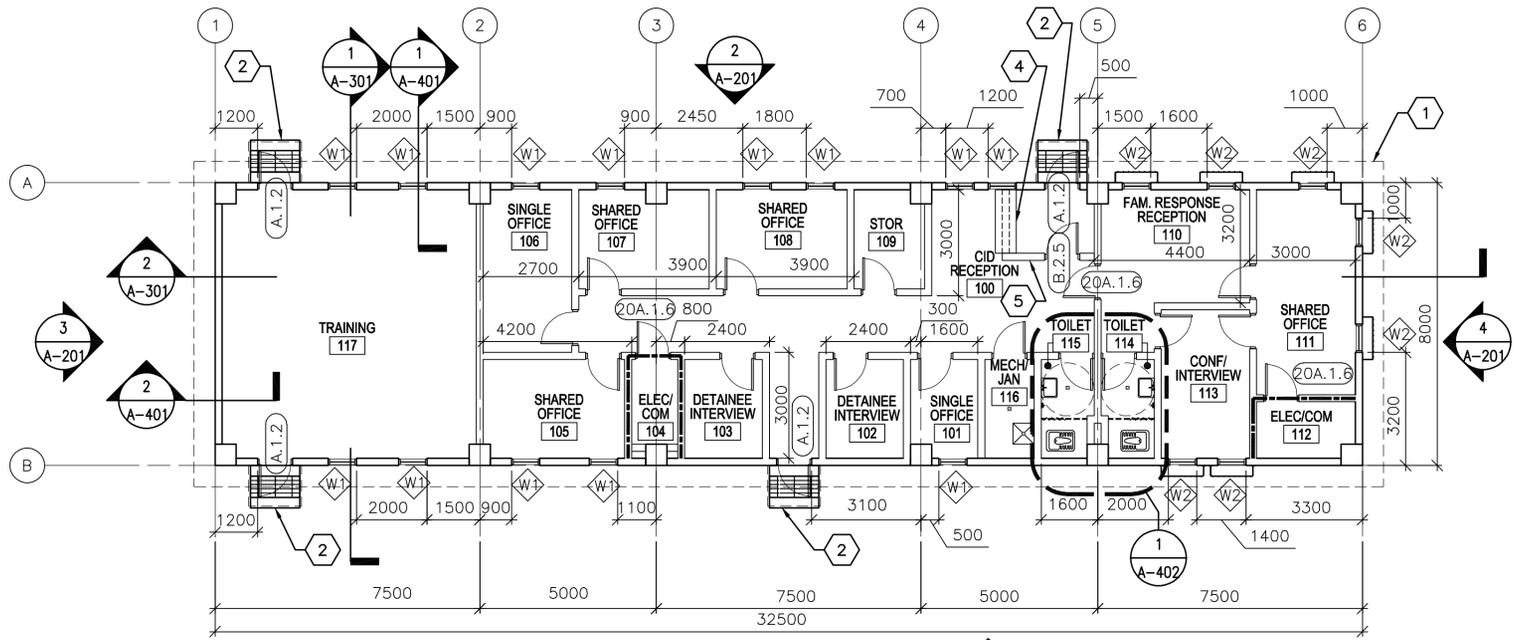
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LIFE SAFETY PLAN

Sheet reference number:
A-001



FLOOR PLAN
SCALE: 1:100

GENERAL NOTES:

- A. DIMENSIONS ARE SHOWN TO OUTER EDGE OF EXTERIOR STRUCTURAL COLUMNS, STRUCTURAL COLUMN GRID, EDGE OF INTERIOR PARTITIONS, EDGE OF WINDOW ROUGH OPENINGS, AND TO HINGED SIDE OF DOOR FRAME OPENINGS.
- B. HINGE SIDE OF OPENINGS FOR DOORS AND FRAMES SHALL BE LOCATED 200 MM FROM THE ADJACENT WALL OR COLUMN, UNLESS NOTED OTHERWISE.
- C. INTERIOR PARTITIONS SHALL BE 200 MM CMU. SEE STRUCTURAL DRAWINGS FOR LOCATION OF CONCRETE SHEAR WALLS.
- D. COSMETIC REPAIR OF MINOR DEFECTS: REPAIR OR FILL MORTAR JOINTS AND MINOR DEFECTS, INCLUDING BUT NOT LIMITED TO SPALLS, IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND PRIOR TO COATING APPLICATION. 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 NEWLY PAINTED SURFACES.
- E. PLASTER AND MASONRY SURFACES SHALL BE ALLOWED TO CURE FOR AT LEAST 30 DAYS BEFORE PAINTING. CONCRETE SLABS-ON-GRADE SHALL BE ALLOWED TO CURE 90 DAYS BEFORE STAINING OR SEALING.
- F. DO NOT USE PAINT MATERIALS CONTAINING LEAD CONTENT IN EXCESS OF 0.009 PERCENT OF THE WEIGHT OF THE TOTAL NONVOLATILE CONTENT OF THE PAINT OR THE WEIGHT OF THE DRIED PAINT FILM.
- G. DO NOT USE ANY ASBESTOS CONTAINING MATERIALS (ACM) IN PROJECT. ACM IS DEFINED AS 1% OR MORE BY VOLUME.
- H. DO NOT USE PAINT MATERIALS CONTAINING MERCURIAL FUNGICIDES.
- I. FACTORY PRIMED METAL DOORS AND FRAMES SHALL RECEIVE TWO COATS OF PAINT.
- J. FILL REMAINING SPACE AT PENETRATIONS IN FIRE-RATED FLOORS, PARTITIONS AND CEILINGS WITH APPROPRIATE FIRESTOPPING MATERIALS.
- K. ALL CEILING FINISHES SHALL BE PAINTED PLASTER APPLIED TO STRUCTURE.
- L. ALL WALL FINISHES SHALL BE PAINTED PLASTER APPLIED TO STRUCTURE, UNLESS NOTED OTHERWISE.
- M. ALL FLOOR FINISHES SHALL BE EPOXY SEALED CONCRETE, UNLESS NOTED OTHERWISE.
- N. PROVIDE TILE FINISHES AS INDICATED IN DETAILS.
- O. ALL DOOR, FRAME AND HARDWARE TYPES SHALL BE A.1.6 UNLESS NOTED OTHERWISE.
- P. PROVIDE POLISHED STAINLESS STEEL MIRROR 600 X 800 ABOVE LAVATORY FAUCET.

KEY NOTES:

- 1. LINE OF ROOF OVERHANG ABOVE.
- 2. CONCRETE STOOP WITH GRATE - SEE DETAIL 4/A-504.
- 3. CANOPY - SEE DETAIL 2/A-504.
- 4. COUNTER/SILL - SEE DETAIL 4/A-502.
- 5. HALF WALL - SEE DETAIL 4/A-502.

LEGEND:

- (XXX) DOOR FRAME AND HARDWARE TYPE, SEE SHEET A-601
- (A) WINDOW TYPE, SEE SHEET A-601
- (X) KEY NOTE

ABBREVIATIONS:

- COMM COMMUNICATIONS
- ELEC ELECTRICAL
- MECH MECHANICAL
- JAN JANITOR
- CLOS CLOSET
- FD FLOOR DRAIN

APPROVED: *[Signature]*
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SEAL:
[Professional Engineer Seal]

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



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CRIME INVESTIGATION DIRECTORATE OFFICES (CID)
WITH FAMILY RESPONSE UNIT OFFICES (FRU)
FLOOR PLAN

Sheet reference number:
A-101

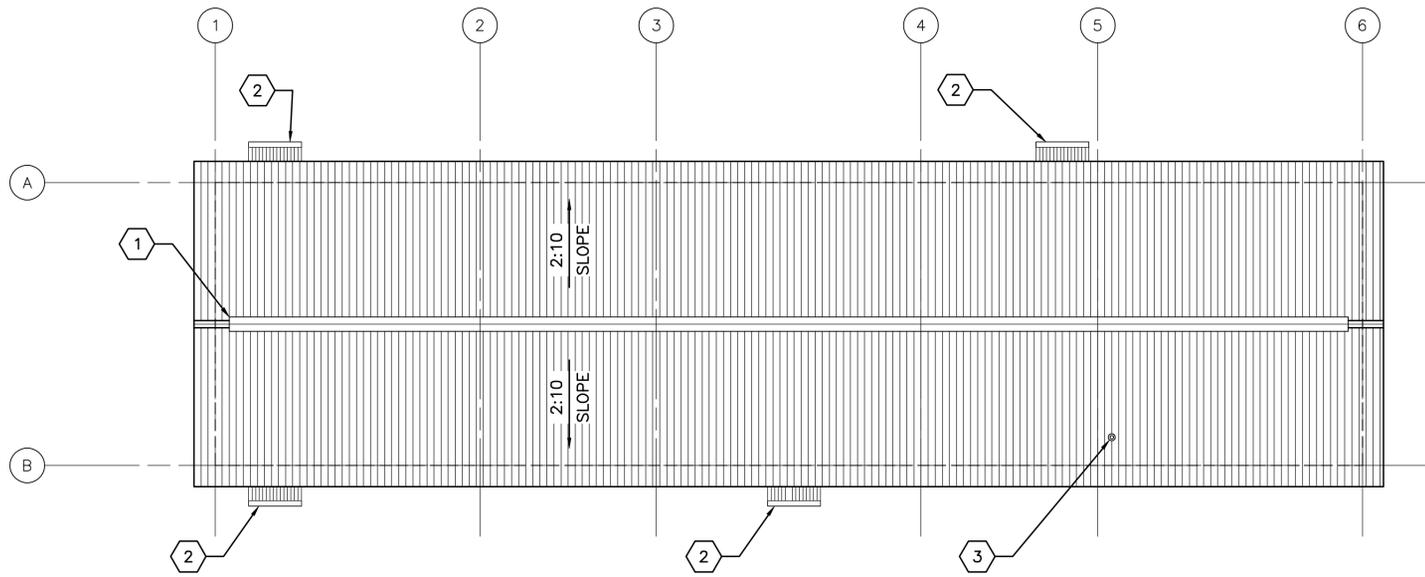
D

B

C

B

A



1 ROOF PLAN
 A-102 SCALE: 1:100

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-504.
- 3. PLUMBING VENT - SEE DETAIL 5/A-501.

Rev.	Date	Description
0		

U.S. ARMY CORPS OF ENGINEERS AFGHANISTAN ENGINEER DISTRICT APO AE 96338	Designed by: KRC	Date: 8/16/10	Rev: 0
Michael Baker Jr., Inc A unit of Michael Baker Corporation 100 Ardsley Drive Mt. Airy, NC 28551 www.mbakercorp.com	Dwn by: KJG	Design file no.	
	Reviewed by: LHM	Drawing code:	
	Submitted by: BAKER	File name: ANACDRFUA-102RP	
		Plot date: 8/24/10	Plot scale: x:k

AFGHAN NATIONAL ARMY
STANDARD DESIGN
CRIME INVESTIGATION DIRECTORATE OFFICES (CID)
WITH FAMILY RESPONSE UNIT OFFICES (FRU)
ROOF PLAN

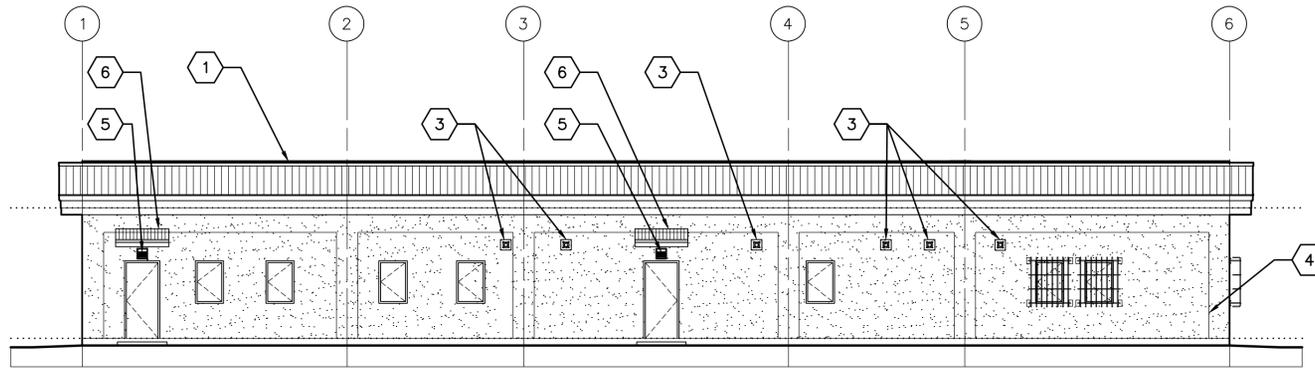
LINEAR DIMENSIONS SHOWN ARE IN MILLIMETERS (MM), UNLESS OTHERWISE NOTED

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

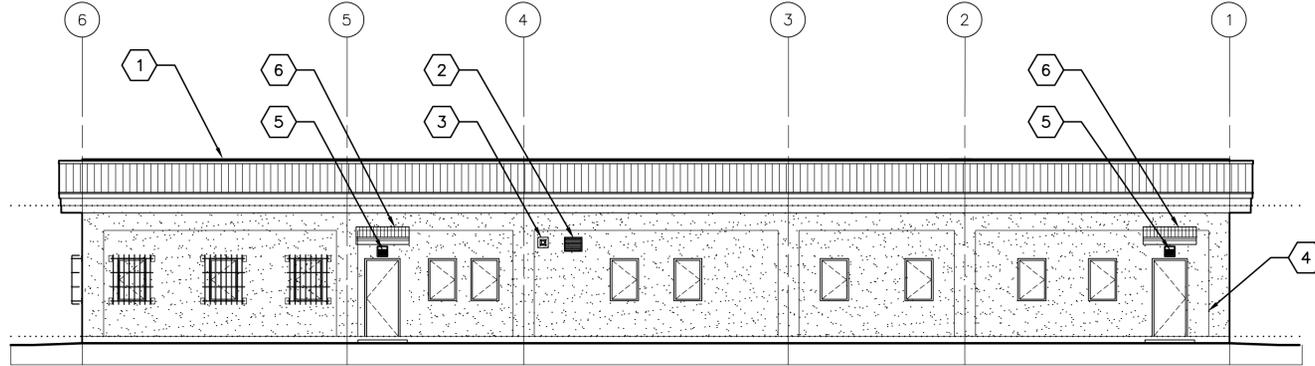
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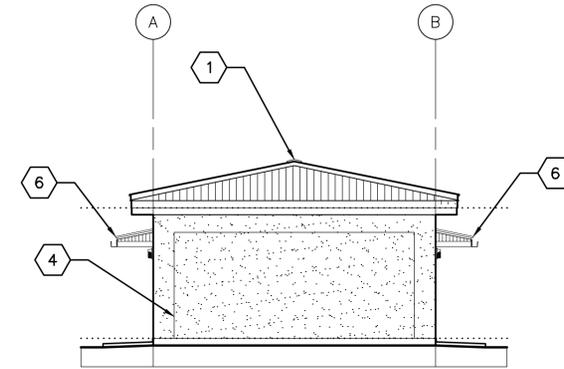
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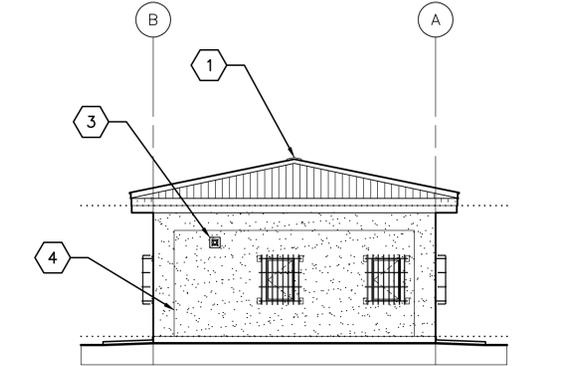
1 ELEVATION
A-201 SCALE: 1:100



2 ELEVATION
A-201 SCALE: 1:100



3 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. LOUVER, LOCATE TOP OF WALL PENETRATION 2800 MM ABOVE FINISHED FLOOR - SEE MECHANICAL DRAWINGS.
- 3. EXHAUST FAN, LOCATE TOP OF WALL PENETRATION 2800 MM ABOVE FINISHED FLOOR - SEE MECHANICAL DRAWINGS.
- 4. STUCCO CONTROL JOINT - SEE DETAIL 2A/A-501.
- 5. EXTERIOR LIGHT FIXTURE - SEE ELECTRICAL.
- 6. CANOPY - SEE DETAIL 2/A-504.



Rev.	Date	Description
0		

Designed by:	KRC	Checked by:	NLJ
Dwn by:	KJG	Reviewed by:	LHM
Submitted by:	BAKER	Drawing code:	AMCGRU-201E
Date:	8/16/10	File name:	AMCGRU-201E
Design file no.:		Plot date:	8/24/10
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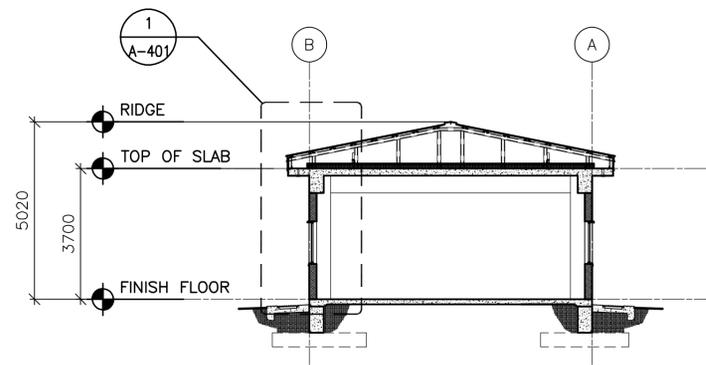
AFGHAN NATIONAL ARMY
STANDARD DESIGN
CRIME INVESTIGATION DIRECTORATE OFFICES (CID)
WITH FAMILY RESPONSE UNIT OFFICES (FRU)
ELEVATIONS

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

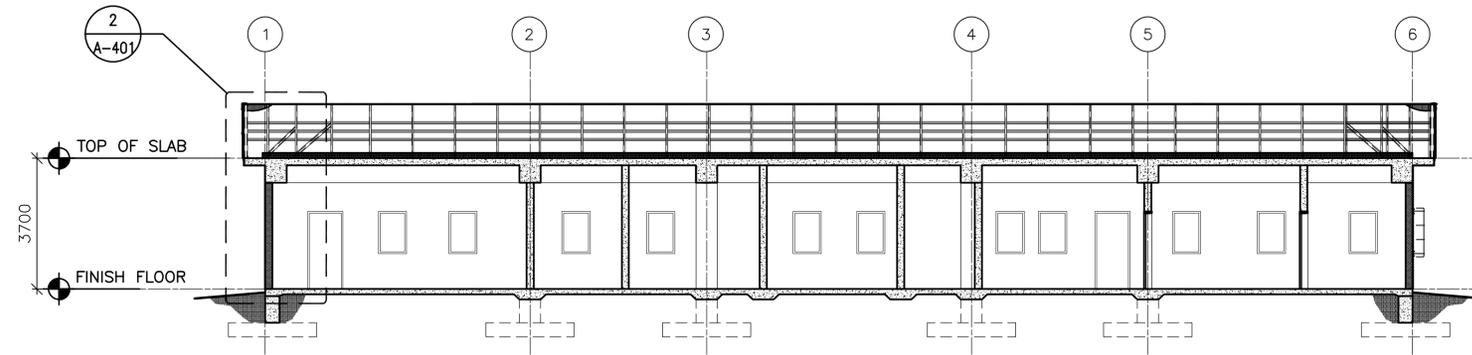
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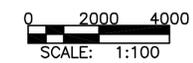


1 BUILDING SECTION
SCALE: 1:100



2 BUILDING SECTION
SCALE: 1:100

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



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SEAL:



US ARMY CORPS
OF ENGINEERS
AFGHANISTAN
ENGINEER DISTRICT

Date	Rev.	Description
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Designed by:	KRC	Checked by:	NLJ
Dwn by:	KJG	Reviewed by:	LHM
Submitted by:	BAKER	Drawing code:	ANACDRFA-301BS
Date:	8/16/10	File name:	ANACDRFA-301BS
Design file no.:		Plot date:	8/24/10
		Plot scale:	

AFGHAN NATIONAL ARMY
STANDARD DESIGN
CRIME INVESTIGATION DIRECTORATE OFFICES (CID)
WITH FAMILY RESPONSE UNIT OFFICES (FRU)
BUILDING SECTIONS

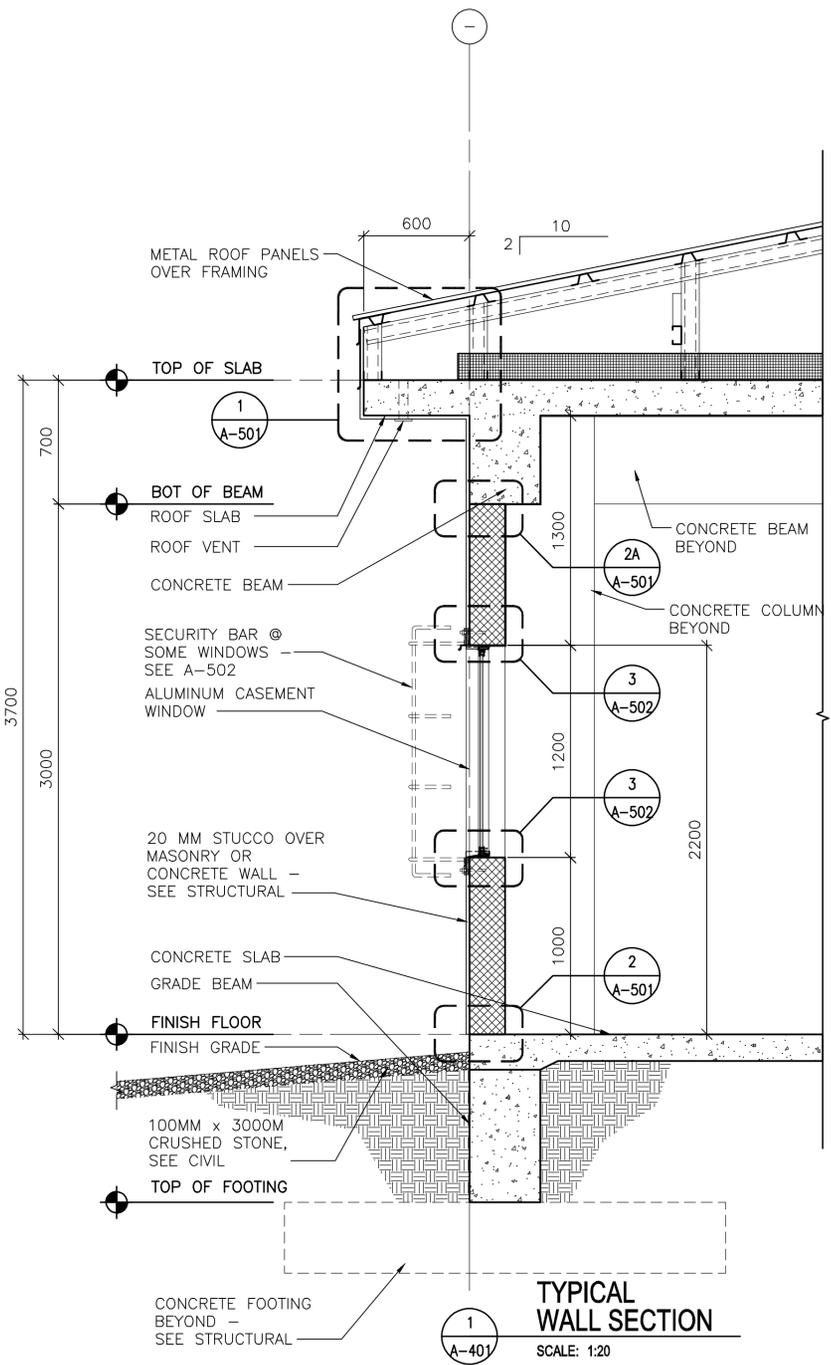
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number:
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Rev.	Date	Description	Mark	Date	Appr.
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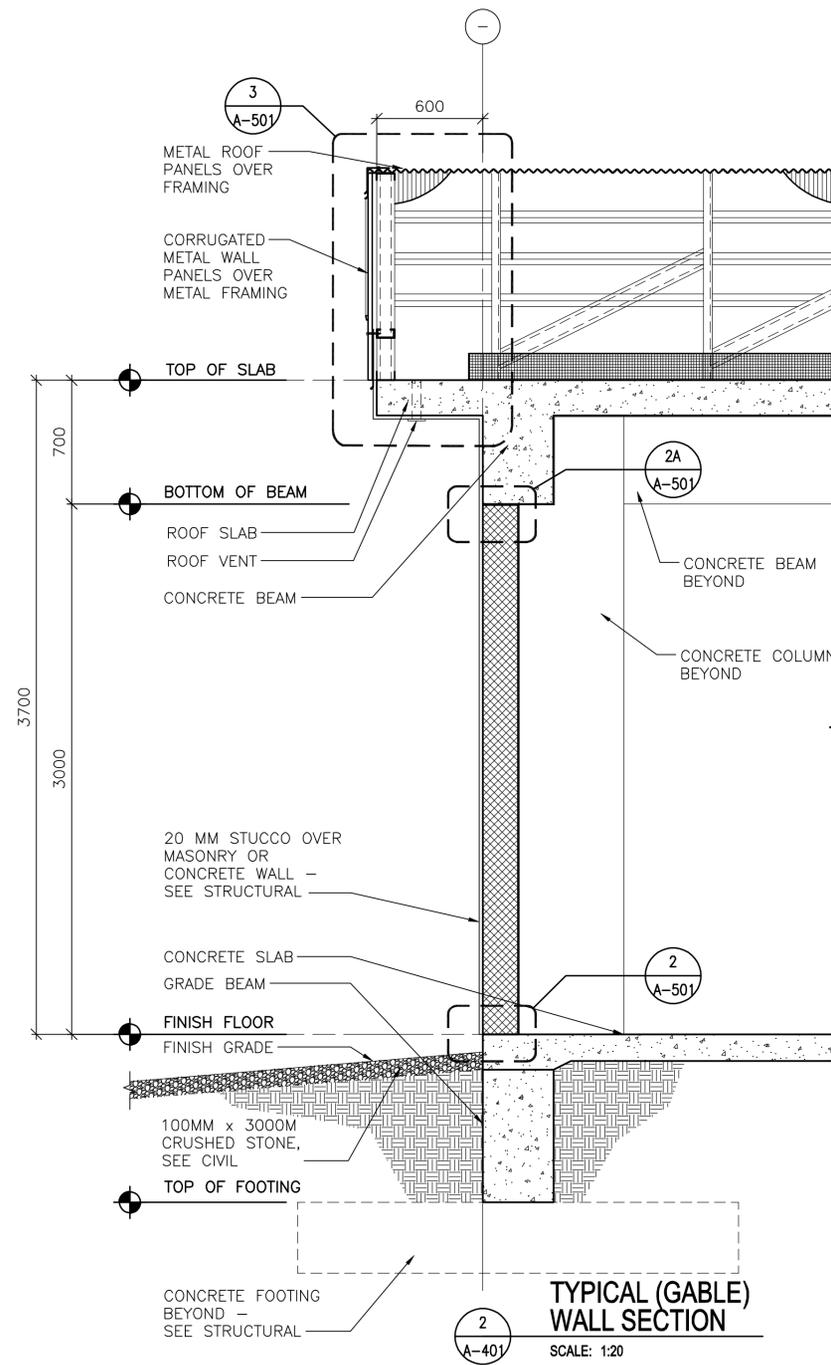
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Dwn by:	KJG	Reviewed by:	LHM
Submitted by:	BAKER	Drawing code:	ANACDRMA-401WS
Date:	8/16/10	File name:	ANACDRMA-401WS
Design file no.:		Plot date:	8/24/10
Plot scale:	1:20		

AFGHAN NATIONAL ARMY
STANDARD DESIGN
CRIME INVESTIGATION DIRECTORATE OFFICES (CID)
WITH FAMILY RESPONSE UNIT OFFICES (FRU)
WALL SECTIONS

Sheet reference number:
A-401



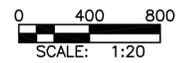
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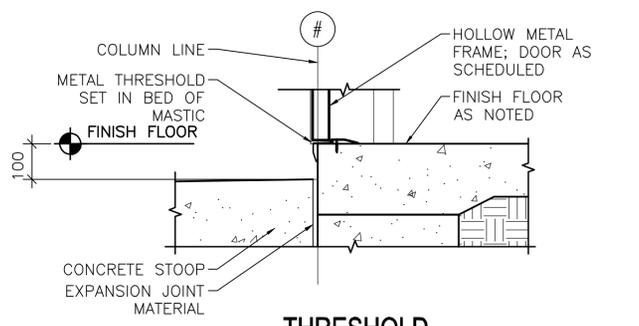
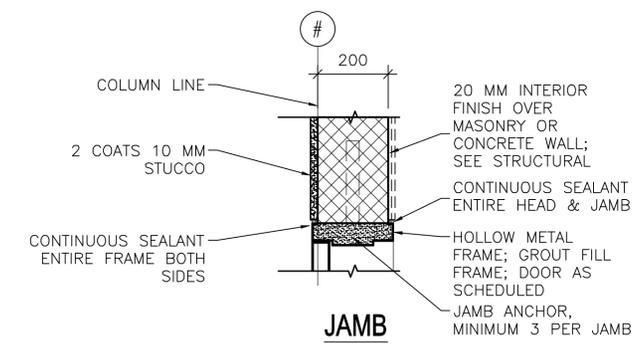
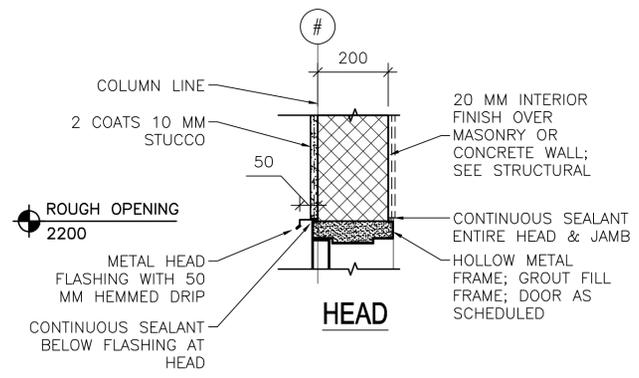


TYPICAL (GABLE) WALL SECTION
SCALE: 1:20

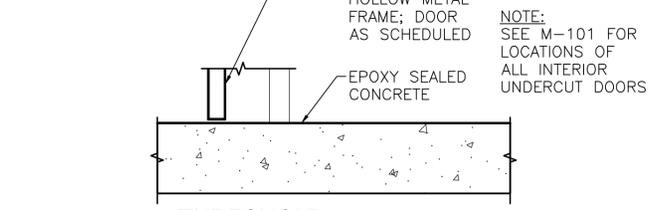
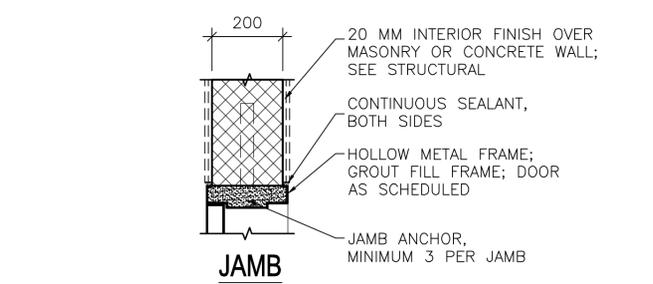
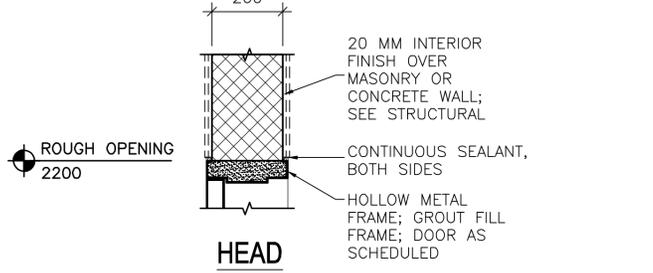
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A/E DESIGNER OF RECORD
SEAL:

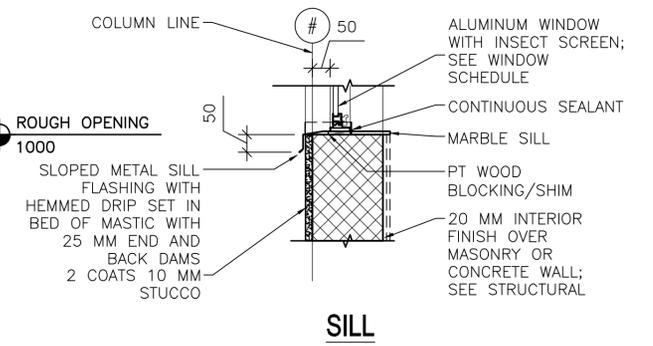
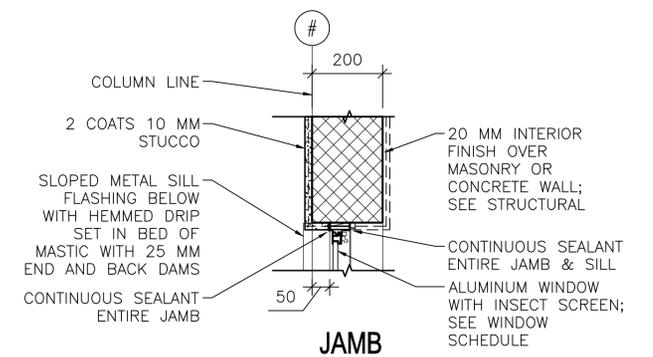
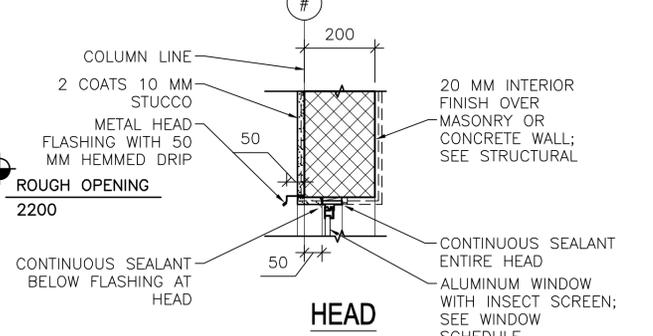




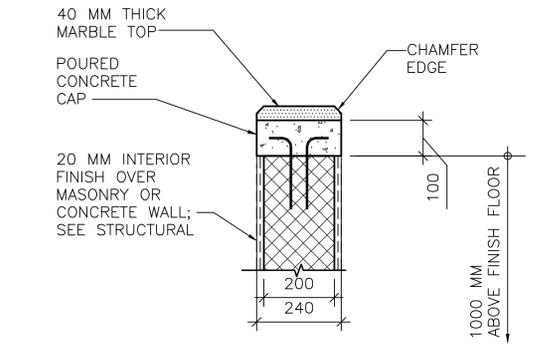
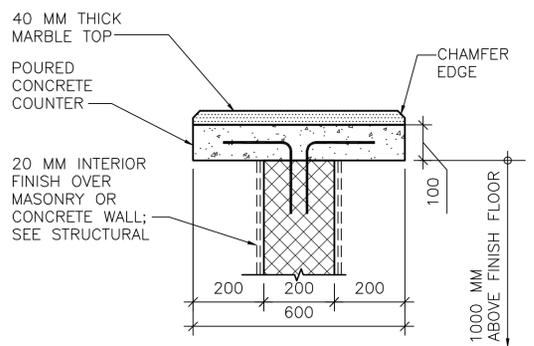
1 EXTERIOR DOOR DETAILS
SCALE: 1:10



2 INTERIOR DOOR DETAILS
SCALE: 1:10

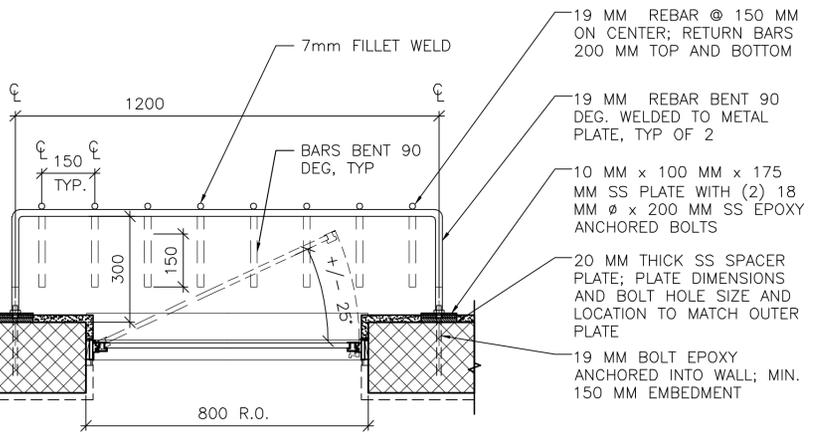
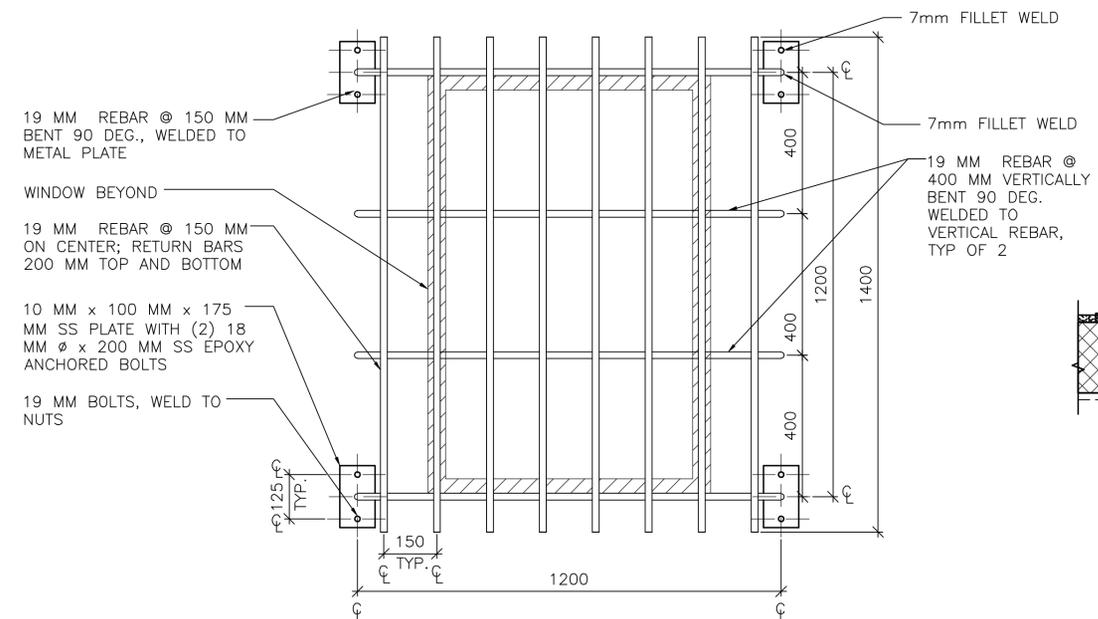


3 EXTERIOR WINDOW DETAILS
SCALE: 1:10



4 TRANSACTION COUNTER
SCALE: 1:10

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



5 SECURITY BAR DETAIL
SCALE: 1:10

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

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A/E DESIGNER OF RECORD
SEAL:



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

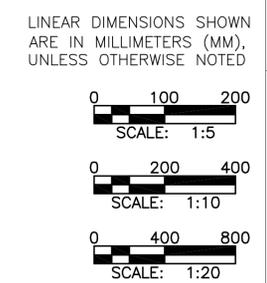
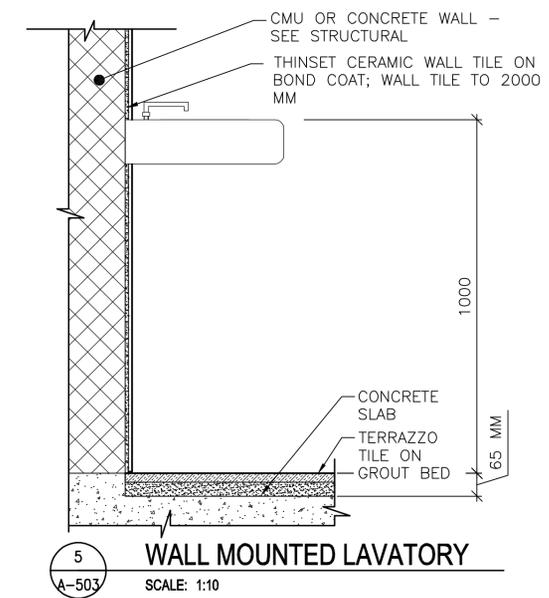
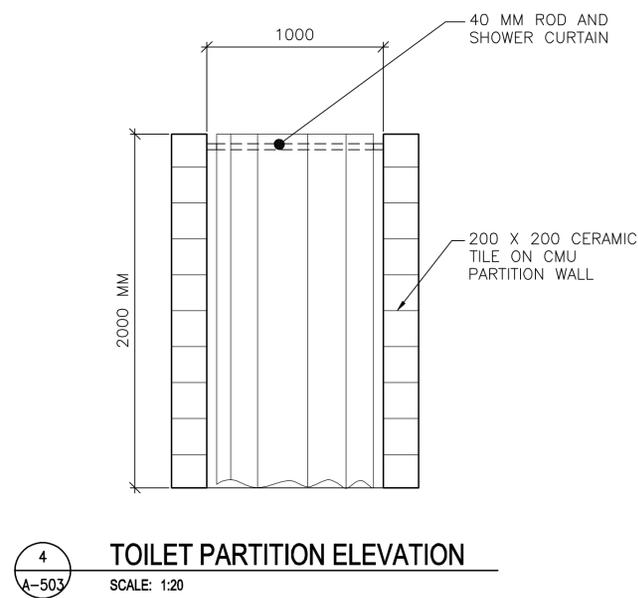
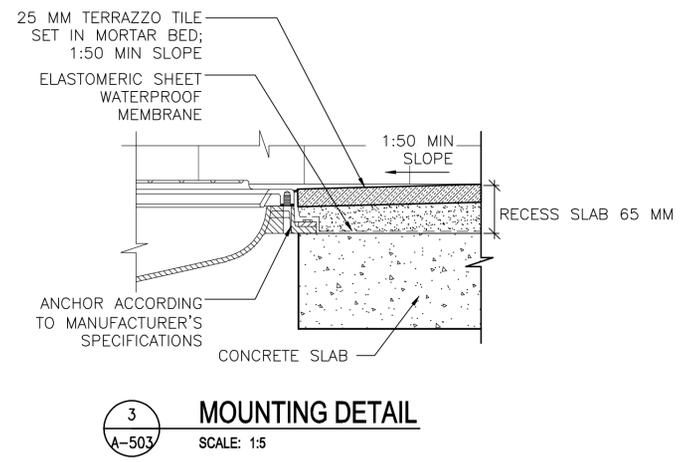
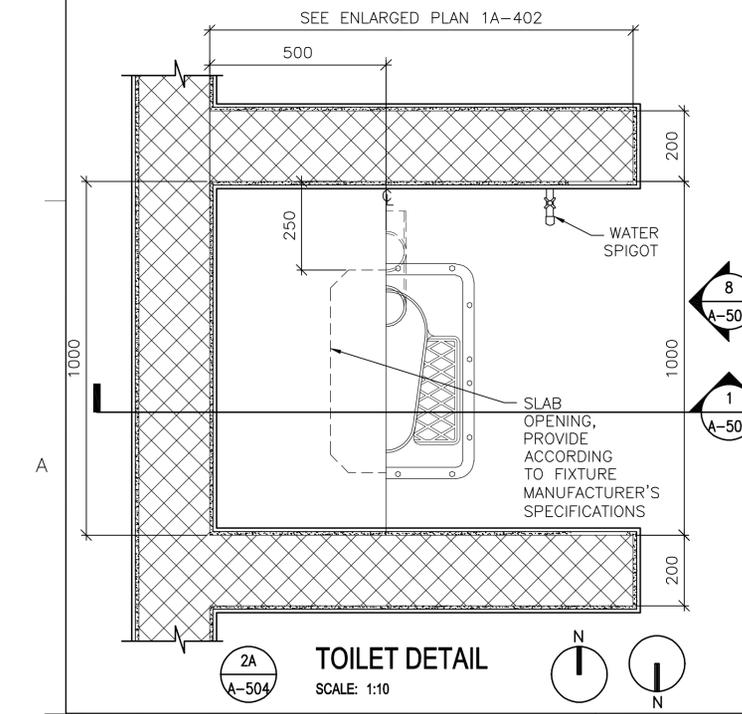
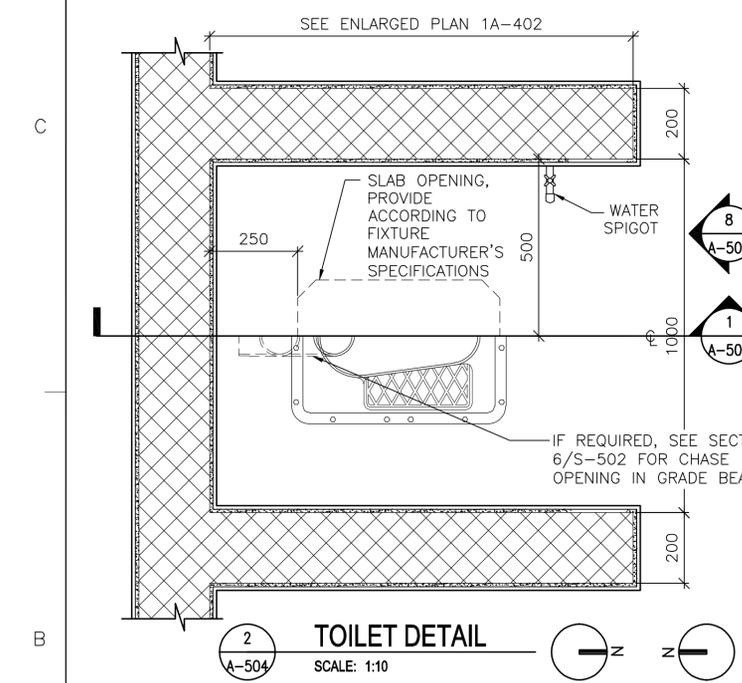
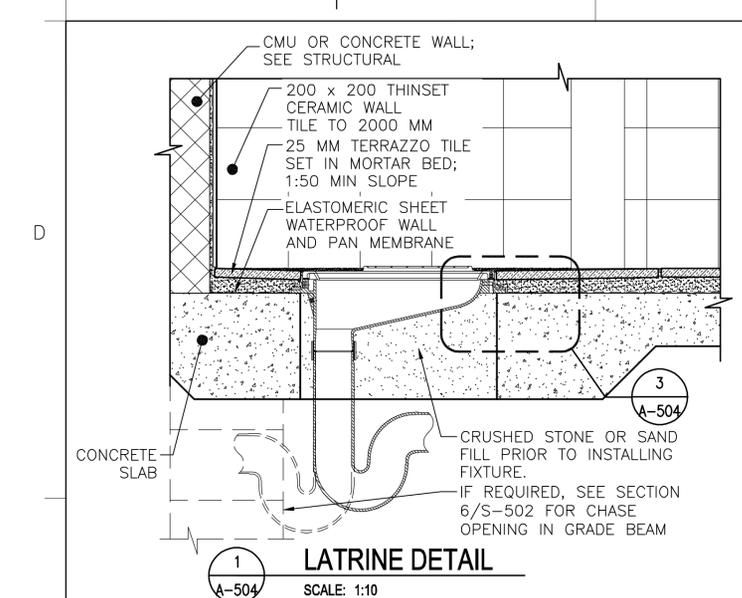


Date	Rev.	Appr.	Mark	Description

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Dwn by:	KJG	Reviewed by:	LHM
Submitted by:	BAKER	File name:	ANACDRFUA-90248
Date:	8/16/10	Design file no.:	
Plot date:	8/24/10	Plot scale:	XX

AFGHAN NATIONAL ARMY
STANDARD DESIGN
CRIME INVESTIGATION DIRECTORATE OFFICES (CID)
WITH FAMILY RESPONSE UNIT OFFICES (FRU)
HEAD, JAMB & SILL
DETAILS

Sheet reference number:
A-502



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

US ARMY CORPS OF ENGINEERS
 AFGHANISTAN ENGINEER DISTRICT

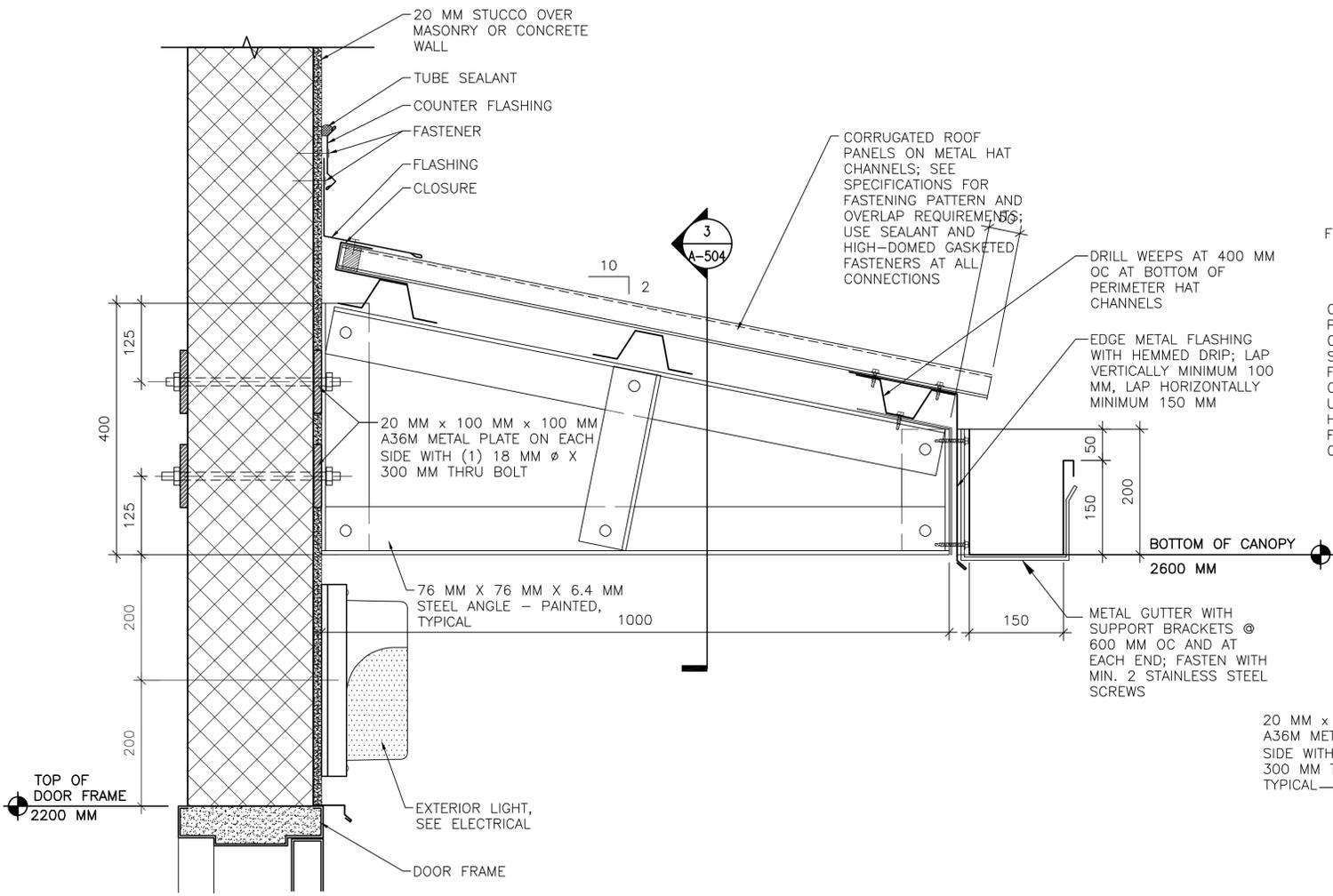
Rev.	Date	Description
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Designed by: KRC
 Dwn by: KJG
 Cld by: NLJ
 Reviewed by: LHM
 Submitted by: BAKER

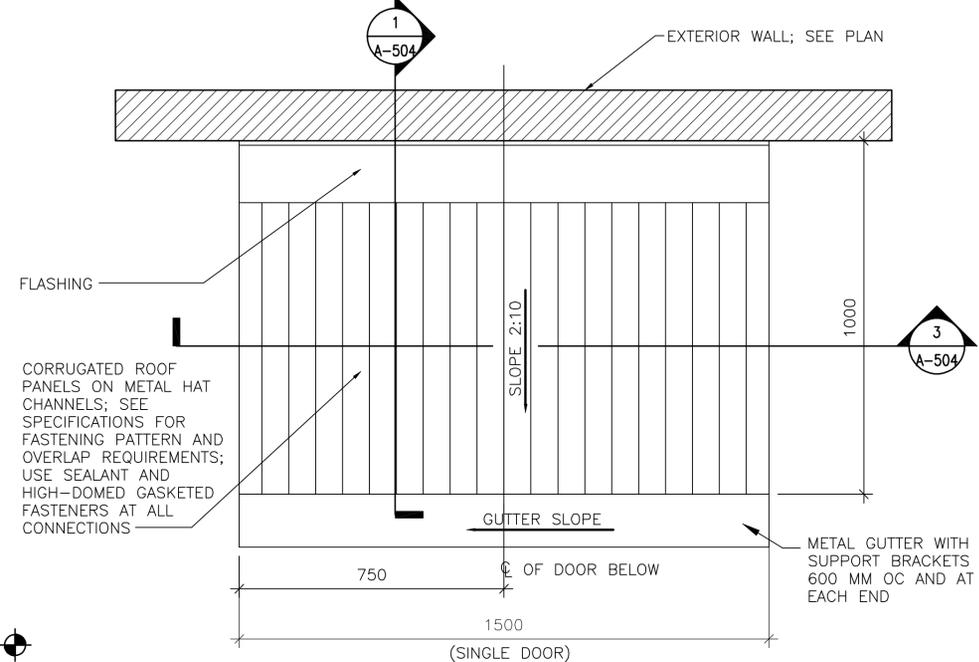
U.S. ARMY CORPS OF ENGINEERS
 AFGHANISTAN ENGINEER DISTRICT
 APO AE 96338
 Michael Baker, Jr., Inc.
 A unit of Michael Baker Corporation
 Airside Business Park
 100 Airside Drive, PA 15108
 www.mbakercorp.com

AFGHAN NATIONAL ARMY
 STANDARD DESIGN
 CRIME INVESTIGATION DIRECTORATE OFFICES (CID)
 WITH FAMILY RESPONSE UNIT OFFICES (FRU)
 TOILET & LAVATORY
 DETAILS

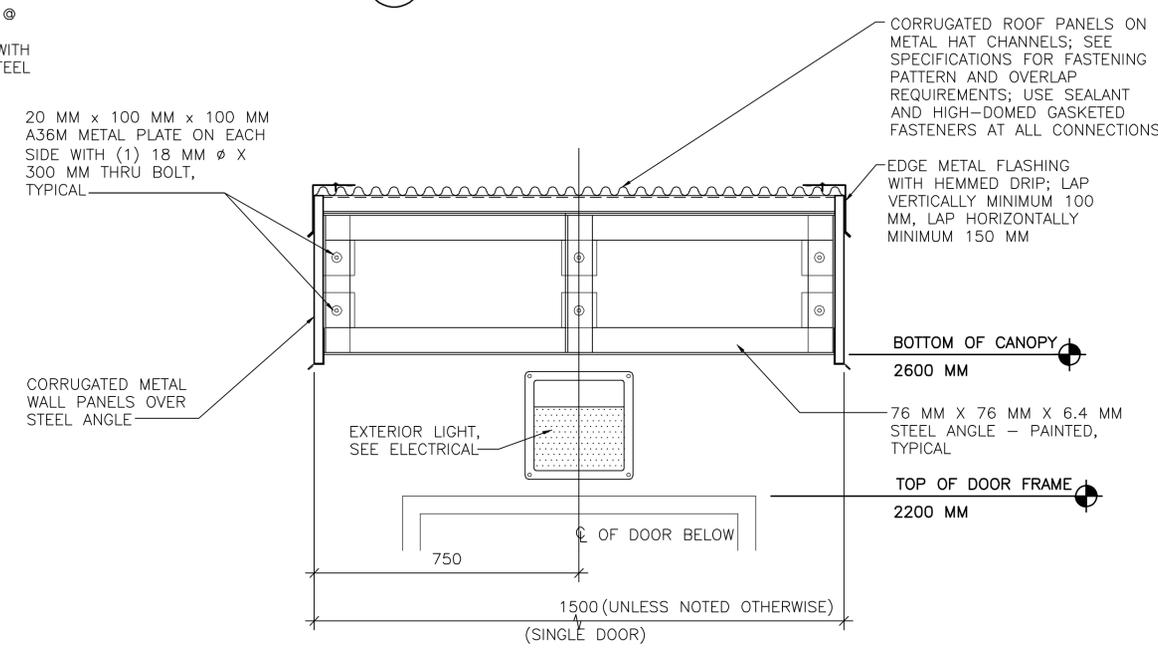
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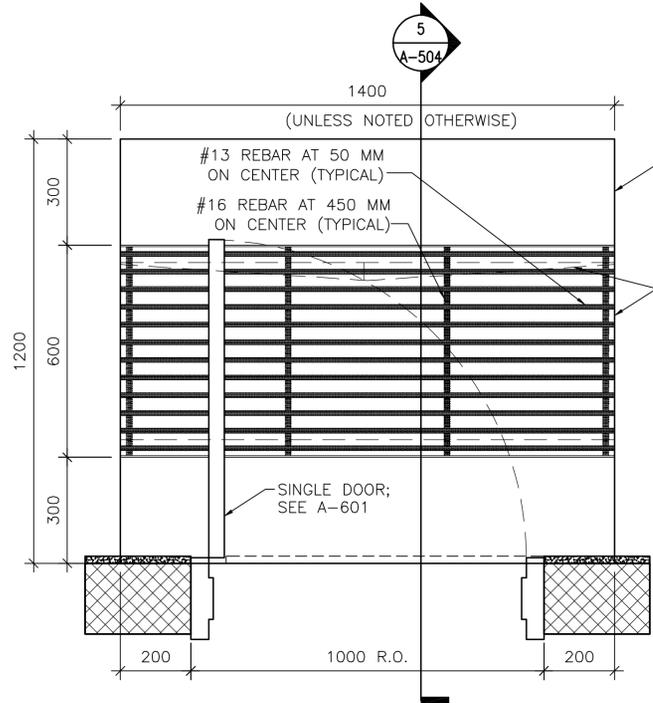
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A-504
CANOPY CONNECTION DETAILS
SCALE: 1:5



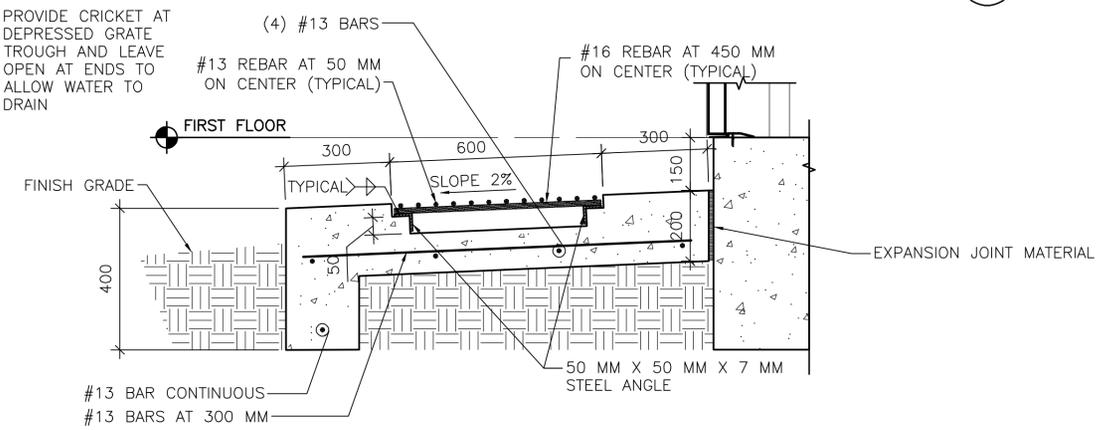
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A-504
CANOPY PLAN
SCALE: 1:10



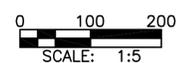
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A-504
CANOPY CONNECTION DETAILS
SCALE: 1:10



4
A-504
DOOR STOOP PLAN (WITH GRATE)
SCALE: 1:10



5
A-504
DOOR STOOP DETAIL
SCALE: 1:10



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

SHEET NOTES:
1. SEE A-101 FOR FLOOR PLANS AND CANOPY LOCATIONS.

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



Date	Rev.	Description	Mark	Appr.	Date

Designed by: DLB
Dwn by: ECN
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
100 Arside Drive, PA, 15108
www.mbakercorp.com

Reviewed by: LHM
Submitted by: BAKER
File name: ANACDRFM-50407
Plot date: 8/16/10
Plot scale: xx

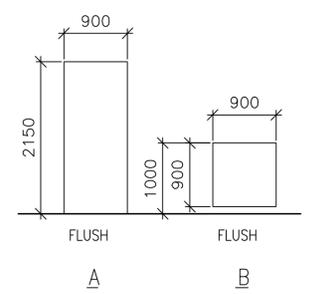
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Design file no.:
Drawing code:
Rev: 0

AFGHAN NATIONAL ARMY
STANDARD DESIGN
CRIME INVESTIGATION DIRECTORATE OFFICES (CID)
WITH FAMILY RESPONSE UNIT OFFICES (FRU)
STOOP & CANOPY DETAILS

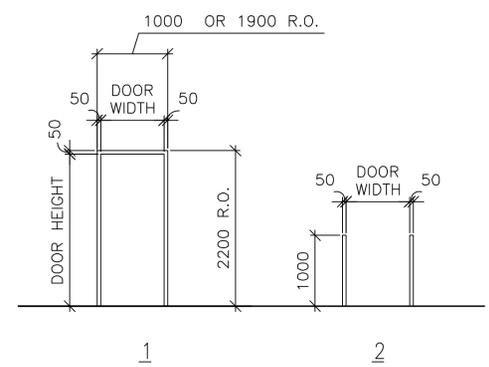
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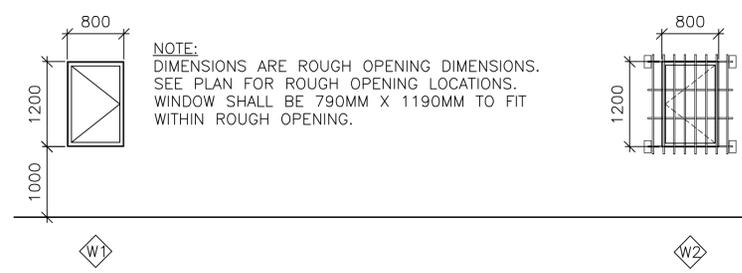
THIS SHEET IS STANDARD AND IS INCLUSIVE OF ALL THE DOOR/WINDOW/ HARDWARE TYPES FOR THE ENTIRE CONTRACT. NOT ALL DOOR/ WINDOW/ HARDWARE TYPES ARE USED FOR ANY PARTICULAR BUILDING DESIGN. CONTRACTOR SHALL REFER TO THE FLOOR PLAN FOR THE TYPES BEING USED.



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

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. ALL EXTERIOR WINDOWS SHALL BE OPERABLE.
4. SEE 5/A-502 FOR SECURITY BAR DETAILS.

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:

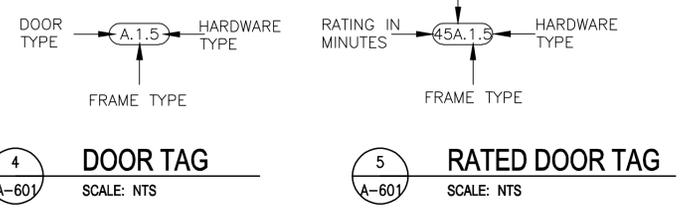
- HW-5 1-1/2 PR HINGES, A8133 114 X 114
1 EA LOCKSET W/LEVER HANDLES, F08, GRADE 1
1 EA WALL STOP, L02101 OR L02161
3 EA DOOR SILENCERS, L03011
HW-6 1-1/2 PR HINGES, A8112 114 X 114
1 EA LOCKSET W/LEVER HANDLES, F08, GRADE 1
1 EA WALL STOP, L02101 OR L02161
1 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE
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.

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.



4 DOOR TAG SCALE: NTS

5 RATED DOOR TAG SCALE: NTS

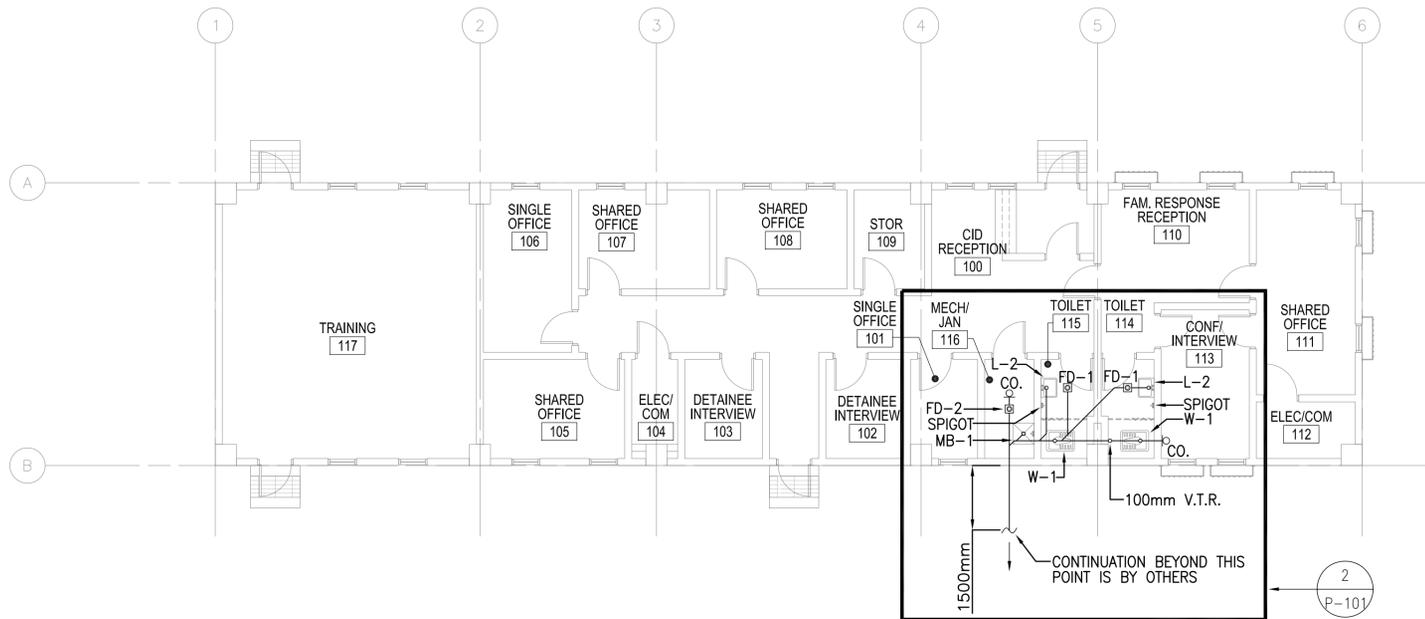
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Design information block including: Date: 8/16/10, Design file no., Drawing code: ANACDRU-A-601, File name: ANACDRU-A-601.dwg, Plot date: 8/24/10, Plot scale: xx, U.S. Army Corps of Engineers, Afghanistan Engineer District, Michael Baker Jr., Inc., A unit of Michael Baker Corporation, 100 Ardsley Drive, PA, 15108, www.mbakercorp.com.

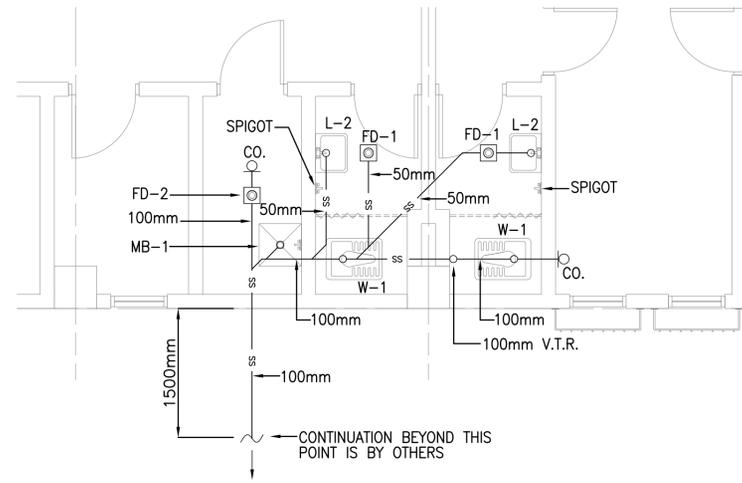
AFGHAN NATIONAL ARMY STANDARD DESIGN, CRIME INVESTIGATION DIRECTORATE OFFICES (CID) WITH FAMILY RESPONSE UNIT OFFICES (FRU), WINDOW AND DOOR SCHEDULES

APPROVED: [Signature], A/E DESIGNER OF RECORD, SEAL: [Professional Engineer Seal for Kevin E. Chaffin, State of South Carolina, No. 23-16]

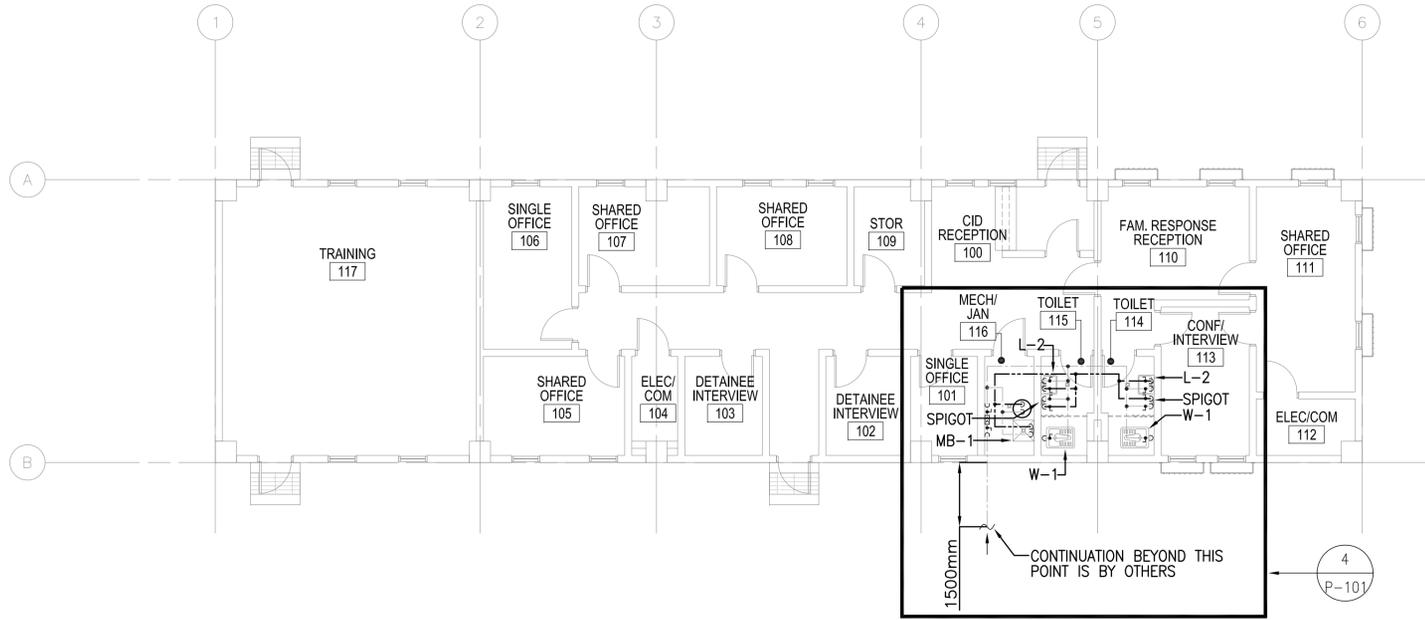
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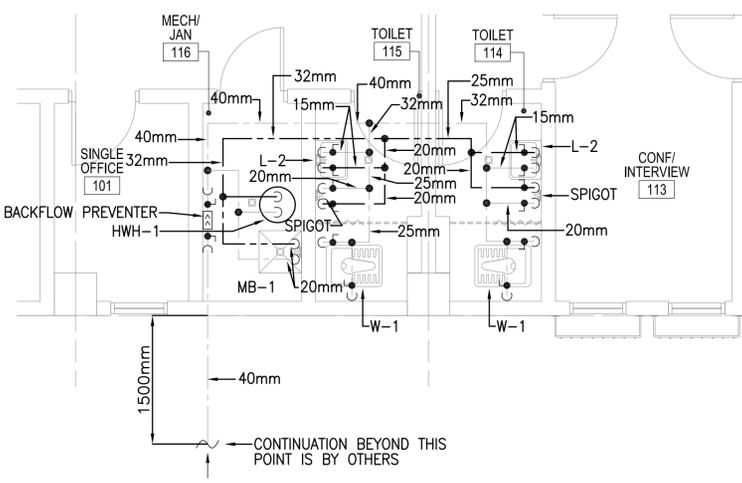
1 FLOOR PLAN - PLUMBING (SANITARY AND VENT)
SCALE: 1:100



2 PARTIAL ENLARGED FLOOR PLAN - PLUMBING (SANITARY AND VENT)
SCALE: 1:50



3 FLOOR PLAN - PLUMBING (HOT AND COLD WATER)
SCALE: 1:100



4 PARTIAL ENLARGED FLOOR PLAN - PLUMBING (HOT AND COLD WATER)
SCALE: 1:50

FLOOR PLAN NOTES:

- DO NOT SCALE DRAWINGS - ALL DIMENSIONS AND CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE.
- ALL WORK PERFORM ON THIS BUILDING SHALL BE IN COMPLIANCE WITH ALL PERTINENT CODES, RULES, ORDINANCES AND REGULATIONS OF THE GOVERNING AUTHORITIES.
- ALL WORK PERFORM ON UNDER AND IN CONNECTION WITH THESE DRAWINGS AND SPECIFICATIONS SHALL BE IN STRICT COMPLIANCE WITH THE LATEST SAFETY AND HEALTH STANDARDS.
- REPORT ANY DISCREPANCIES FOUND IN THE PLUMBING DRAWINGS AND/OR IN THE SPECIFICATIONS DURING THE BIDDING PROCESS FOR CLARIFICATION BY THE ENGINEER.
- ALL EASTERN STYLE WATER CLOSETS IN THIS FACILITY ARE TO HAVE THE FIXTURE DESIGNATION OF W-1. EACH FIXTURE SHALL HAVE A 25mm COLD WATER LINE AND A 100mm SANITARY CONNECTION.
- ALL LAV FIXTURES ARE TO HAVE THE FIXTURE DESIGNATION OF L-2. EACH FIXTURE SHALL HAVE A 15mm COLD WATER, 15mm HOT WATER CONNECTION AND A 80mm SANITARY CONNECTION.
- ALL WATER, SANITARY AND VENT PIPING SHALL BE EXPOSED. RUN LINES TIGHT TO THE CEILING AND WALL.
- REFER TO SHEET P501 FOR DETAILS.
- ALL SANITARY BRANCH LINES SHALL BE SLOPED AT 6mm PER 0.3m, AND ALL MAIN LINES SHALL BE SLOPED AT 3mm PER 0.3m, UNLESS OTHERWISE NOTED OR AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

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

APPROVED:

A/E DESIGNER OF RECORD

SEAL:

Matthew R. Sotosky



Rev.	Date	Description
10	06/30/10	Design file no.
		Drawn by: MMS
		Reviewed by: CJM
		Submitted by: BAKER
		File name: ANACDFRUP-101
		Plot date: 07/20/10
		Plot scale: xx

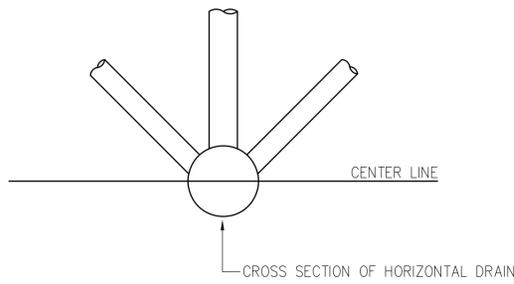
Designed by: RHM
Dwn by: MM
Reviewed by: CJM
Submitted by: BAKER

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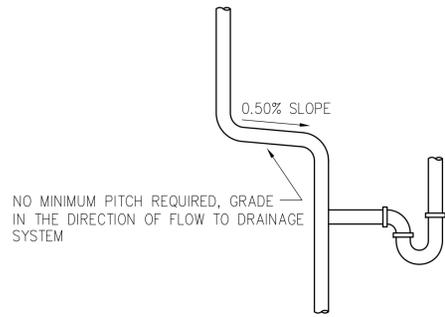
AFGHAN NATIONAL ARMY
STANDARD DESIGN
CRIME INVESTIGATION DIRECTORATE OFFICES (CID)
WITH FAMILY RESPONSE UNIT OFFICES (FRU)

PLUMBING FLOOR PLAN

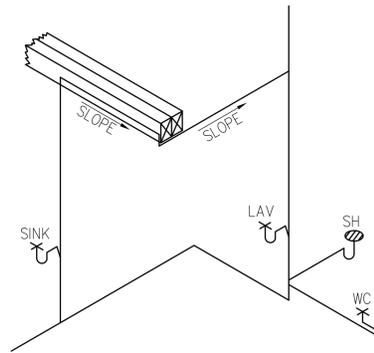
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P-101



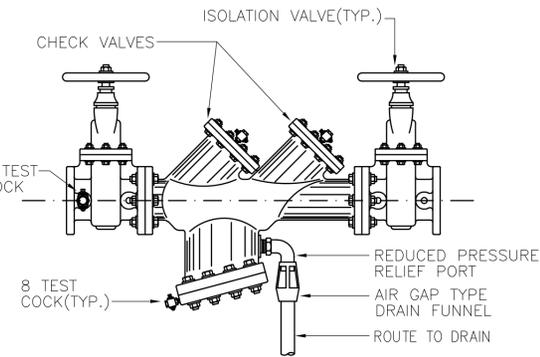
1 ACCEPTABLE VENT CONNECTIONS TO HORIZONTAL DRAIN - DETAIL
P-501 SCALE: N.T.S.



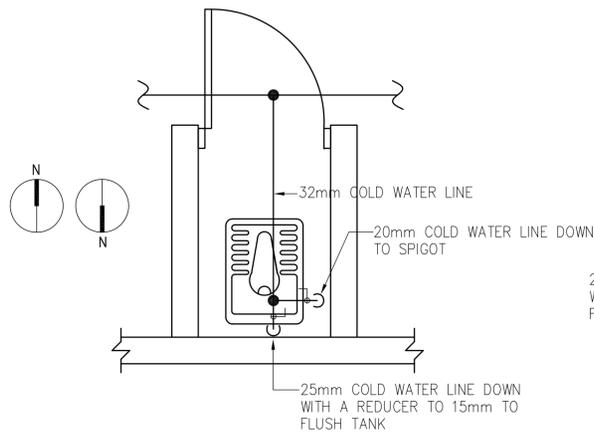
2 TYPICAL VENT SLOPE DETAILS
P-501 SCALE: N.T.S.



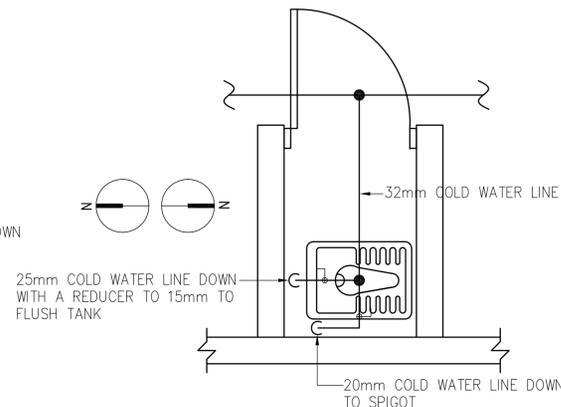
3 TYPICAL VENT SLOPE DETAILS
P-501 SCALE: N.T.S.



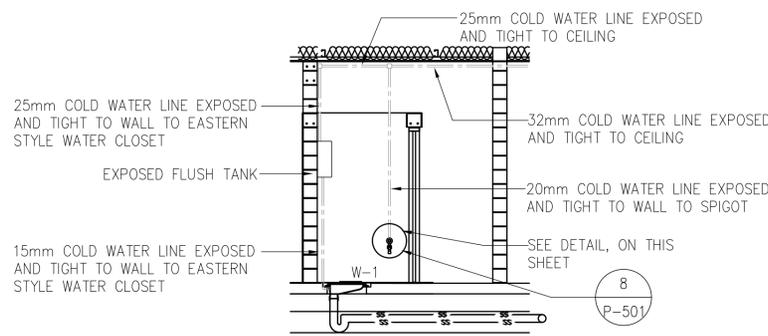
4 TYPICAL BACKFLOW PREVENTER DETAIL
P-501 SCALE: N.T.S.



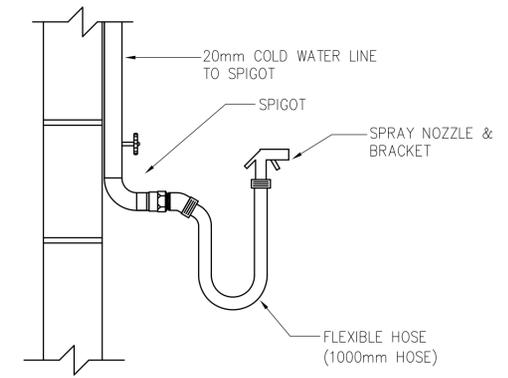
5 TYPICAL EASTERN STYLE WATER CLOSET WITH SPIGOT WATER PIPING DETAIL
P-501 SCALE: N.T.S.



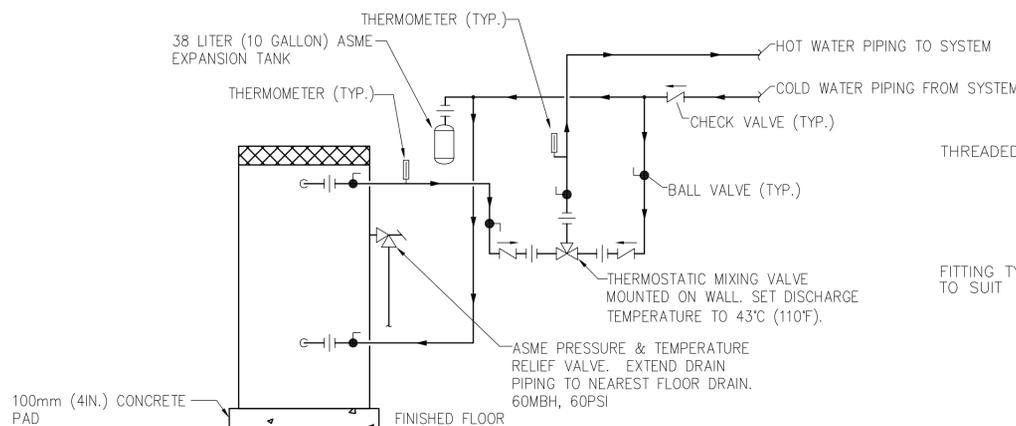
6 TYPICAL EASTERN STYLE WATER CLOSET WITH SPIGOT WATER PIPING DETAIL
P-501 SCALE: N.T.S.



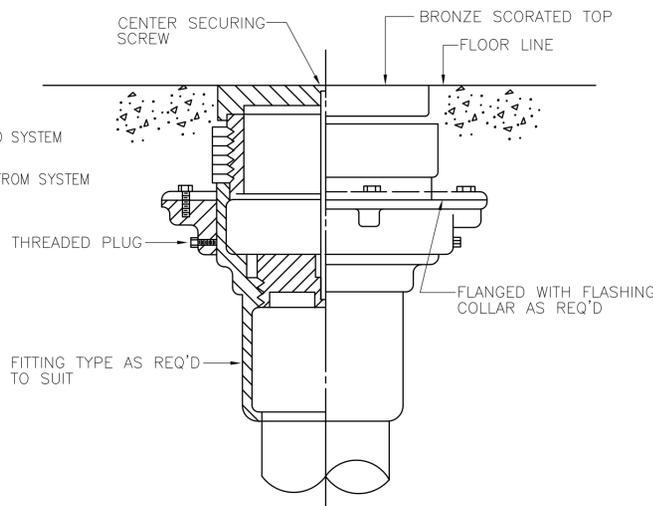
7 TYPICAL EASTERN STYLE WATER CLOSET SANITARY & WATER INSTALLATION SCHEMATIC
P-501 SCALE: N.T.S.



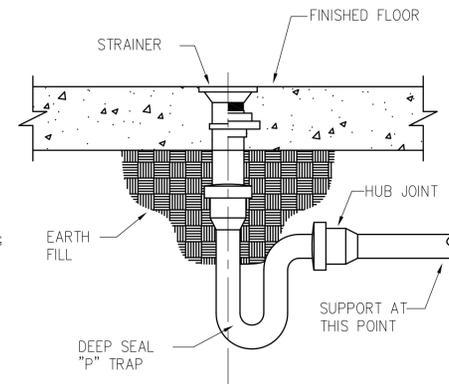
8 TYPICAL DETAIL - SPIGOT, FLEXIBLE HOSE, AND SPRAY NOZZLE
P-501 SCALE: N.T.S.



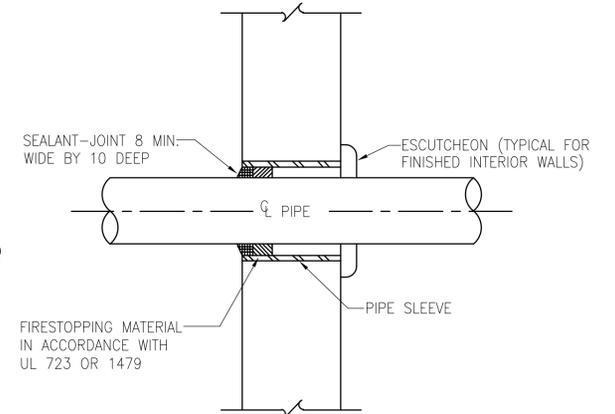
10 ELECTRIC WATER HEATER PIPING SCHEMATIC
P-501 SCALE: N.T.S.



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



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



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

FIXTURE LIST

TYPE	ITEM	SOIL & WASTE	VENT	COLD WATER	HOT WATER	REMARKS	REMARKS 2
W-1	EASTERN STYLE WATER CLOSET	100mm	50mm	15mm	-----	FLUSH TANK	LOW FLOW EFFICIENT TYPE
L-2	WALL MOUNTED	40mm	40mm	15mm	15mm	WALL HUNG	LOW FLOW EFFICIENT TYPE
MB-1	MOP BASIN	80mm	---	20mm	20mm	-----	-----
HWH-1	WATER HEATER	---	---	SEE DWG.	SEE DWG.	75 LITER ELECTRIC WATER HEATER, 220/50/3, 2kW	-----
FD-1	FLOOR DRAIN	50mm	---	---	---	FINISH FLOOR SPACES	-----
FD-2	FLOOR DRAIN	50mm	---	---	---	MECHANICAL ROOMS AND JANITORS CLOSETS	-----

APPROVED:

A/E DESIGNER OF RECORD

SEAL:

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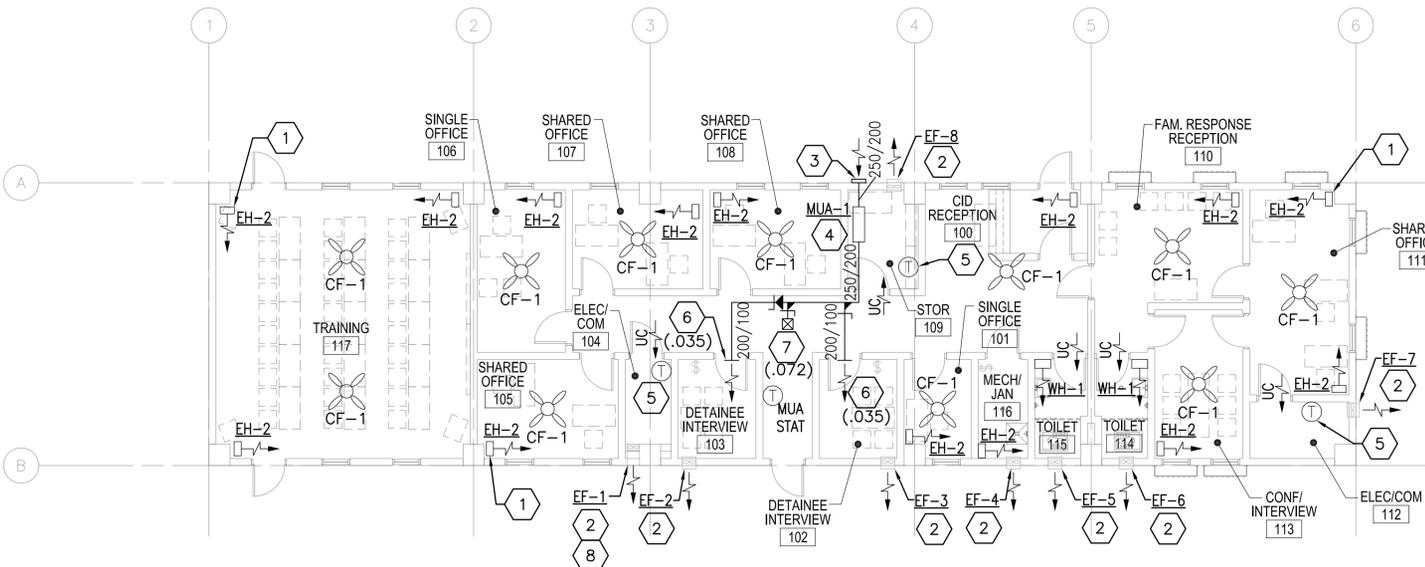
Rev: 10
Date: 06/30/10
Design file no.
Cid by: RMH
Dwn by: RMH
CJM
Drawing code:
Reviewed by: CJM
Submitted by:
File name: ANACDRUP-501
Plot date: 07/30/10
Plot scale: 1:100

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PLUMBING DETAILS AND FIXTURE LIST

Sheet reference number:
P-501



1 HVAC - FLOOR PLAN
M-101 SCALE: 1:100

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

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

NO.	BLOWER CMS	FUSE	KW	MIN. TEMP RISE °C	SP mmH2O	ELECTRICAL DATA	CONTROL
MUA-1	0.142	30	5	20	13	220/1/50	REMOTE

- NOTES:
- PROVIDE REMOTE MOUNTED THERMOSTAT WITH LOCKING COVER.
 - INTERLOCK BLOWER OPERATION W/ EXHAUST FANS EF-2, EF-3 & T-STAT.
 - PROVIDE AIR SENSING SWITCH FOR HEATING OPERATION.

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

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

NO.	KW	AMPS	KW/HR	ELECT. CHAR.	MOUNTING
WH-1	0.5	2.1	38	220/1/50	SURFACE

- NOTES:
- COORDINATE LOCATION AND ORIENTATION IN FIELD.

NO.	TYPE	FAN CMS	DRIVE	HP	SP mmH2O	ELECTRICAL DATA	SWITCH
EF-1	WALL	0.035	DIRECT	FRACT	9.5	220/1/50	W/ STAT
EF-2	WALL	0.035	DIRECT	FRACT	9.5	220/1/50	@ WALL
EF-3	WALL	0.035	DIRECT	FRACT	9.5	220/1/50	@ WALL
EF-4	WALL	0.035	DIRECT	FRACT	9.5	220/1/50	@ WALL
EF-5	WALL	0.035	DIRECT	FRACT	9.5	220/1/50	@ WALL
EF-6	WALL	0.035	DIRECT	FRACT	9.5	220/1/50	@ WALL
EF-7	WALL	0.035	DIRECT	FRACT	9.5	220/1/50	W/ STAT
EF-8	WALL	0.035	DIRECT	FRACT	9.5	220/1/50	W/ STAT

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

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:

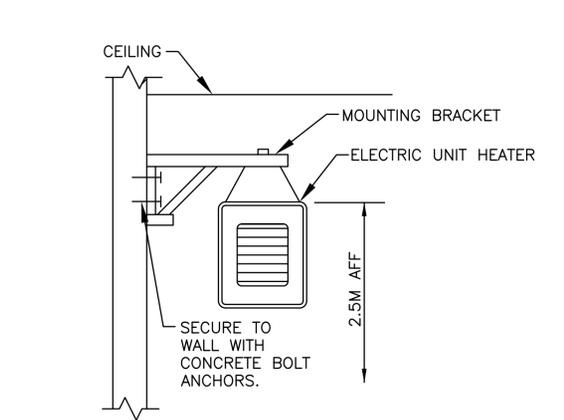
- (X) KEY NOTE
- (0.050) AIR VOLUME IN CUBIC METERS PER SECOND (CMS)
- VOLUME DAMPER
- (T) THERMOSTAT WITH LOCKING COVER
- UC DOOR UNDERCUT 25mm
- TC 200x400 (8X16) TRANSFER GRILLE
- ⚡ SINGLE POLE SWITCH FOR EXHAUST FAN - 20A RATED
- ⊠ ELECTRIC HEATER
- ⊗ CEILING FAN
- DIRECTION OF AIR FLOW

ABBREVIATIONS:

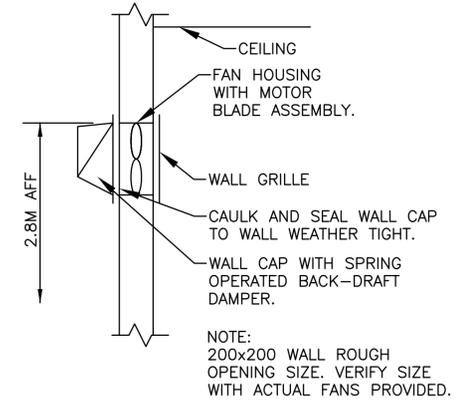
- AFF ABOVE FINISH FLOOR
- CF CEILING FANS
- CMS CUBIC METERS PER SECOND
- EF EXHAUST FAN
- EH ELECTRIC HEATER
- STATS THERMOSTATS
- MUA MAKE UP AIR

KEY NOTE:

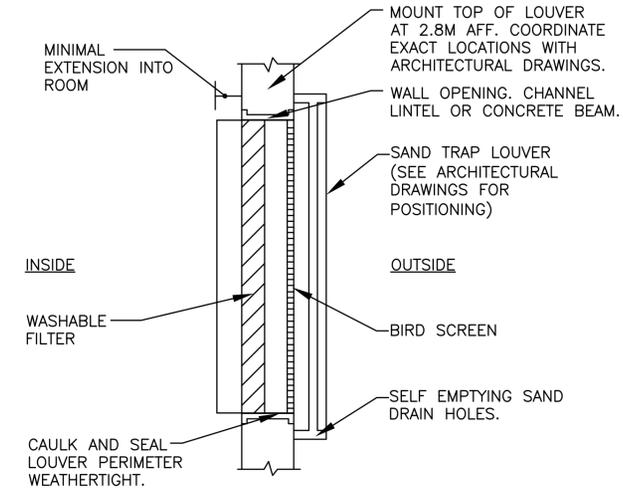
- WALL HUNG ELECTRIC UNIT HEATER (TYPICAL) SEE DETAIL THIS SHEET.
- WALL EXHAUST FAN WITH LOW SPRING OPERATED BACK-DRAFT DAMPER. SEE DETAIL ON SHEET M501.
- 500X400 (20X16) INTAKE LOUVER FOR MAKE UP AIR UNIT. PROVIDE WEATHER PROOF LOUVER WITH 50mm (2") WASHABLE FILTER AND SAND TRAP. SEE DETAIL THIS SHEET. PROVIDE 310x310 WALL ROUGH OPENING. VERIFY OPENING SIZE WITH ACTUAL PROVIDED LOUVER.
- ELECTRIC MAKE UP AIR HEATER SECURED TO STRUCTURE ABOVE. BLOWER SHALL BE SET TO ENERGIZE WITH CORRESPONDING EXHAUST FAN AND OR THE THERMOSTAT, HEAT SHALL BE CONTROLLED BY THERMOSTAT. COORDINATE DUCT AND LIGHT LOCATIONS WITH OTHER TRADES.
- 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).
- 200x150 (8x6) DUCT MOUNTED SUPPLY GRILLE WITH ADJUSTABLE OPPOSED BLADE DAMPERS. BALANCE TO CMS IN PARENTHESIS.
- 200x100 (8x4) WALL MOUNTED SUPPLY GRILLE WITH ADJUSTABLE OPPOSED BLADE DAMPERS. BALANCE TO CMS IN PARENTHESIS.
- PROVIDE DUCT TO MATCH GRILLE SIZE TO EXTEND DUCT TO OUTSIDE WALL GRILLE.



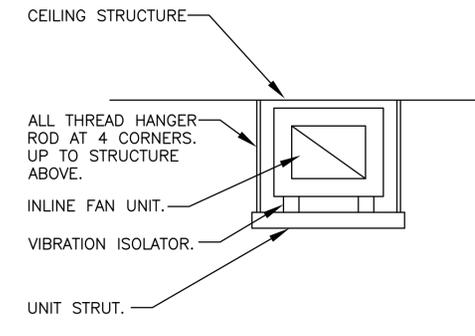
2 ELECTRIC UNIT HEATER MOUNTING DETAIL
M-101 N.T.S.



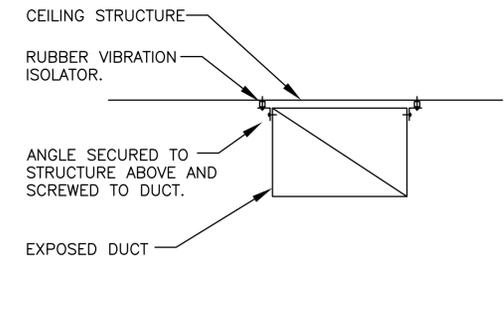
3 WALL EXHAUST FAN DETAIL
M-101 N.T.S.



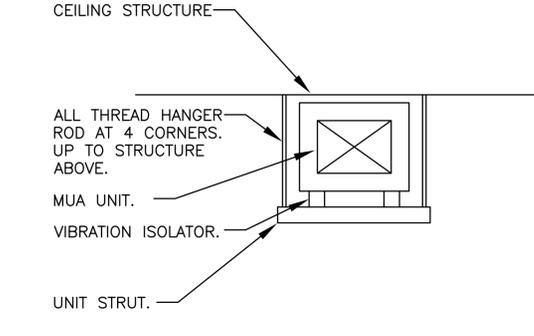
4 FILTERED SAND TRAP LOUVER
M-101 N.T.S.



5 INLINE FAN SUPPORT DETAIL
M-101 N.T.S.



6 EXPOSED DUCT SUPPORT DETAIL
M-101 N.T.S.



7 MAKE UP AIR UNIT SUPPORT DETAIL
M-101 N.T.S.

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



APPROVED:

A/E DESIGNER OF RECORD

SEAL:



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

Designed by: RML
Dwn by: JUN
Cld by: C/M
Reviewed by: MRS
Submitted by: BAKER

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HVAC - FLOOR PLAN

Sheet reference number:
M-101

