

1 FOUNDATION/SLAB PLAN  
S-101 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 FIRST FLOOR ELEVATION.
3. SLAB-ON-GRADE IS 150 WITH #13 @ 300 OC EW LOCATED 38 FROM T/SLAB UON. WHERE NOTED 300 SLAB-ON-GRADE SHALL BE REINFORCED W/ #13 @ 300 OC EW T&B.
4. TOP OF EXTERIOR FOOTINGS SHALL BE -950 UNLESS OTHERWISE INDICATED.
5. SPREAD FOOTINGS INDICATED BY F# ON PLAN. REFER TO SPREAD 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 AND INTERIOR CMU WALL REINF DETAILS 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/PARTITION 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 - COORDINATE W/ ARCH AND PLUMB DWGS.
6. NOT USED
7. 50 ISOLATION JOINT BETWEEN STRUCTURES LOCATED ABOVE FIRST FLOOR SLAB-ON-GRADE

**FOUNDATION/SLAB PLAN LEGEND:**

- REINF CONC SHEAR WALL
- REINF CMU WALL
- CONTROL JOINT
- INDICATES DROP SLAB 65 BELOW FINISH FLOOR
- INDICATES DROP SLAB 200 BELOW FINISH FLOOR
- SLAB OPENING



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

APPROVED:

*Chris M. [Signature]*

A/E DESIGNER OF RECORD

SEAL:



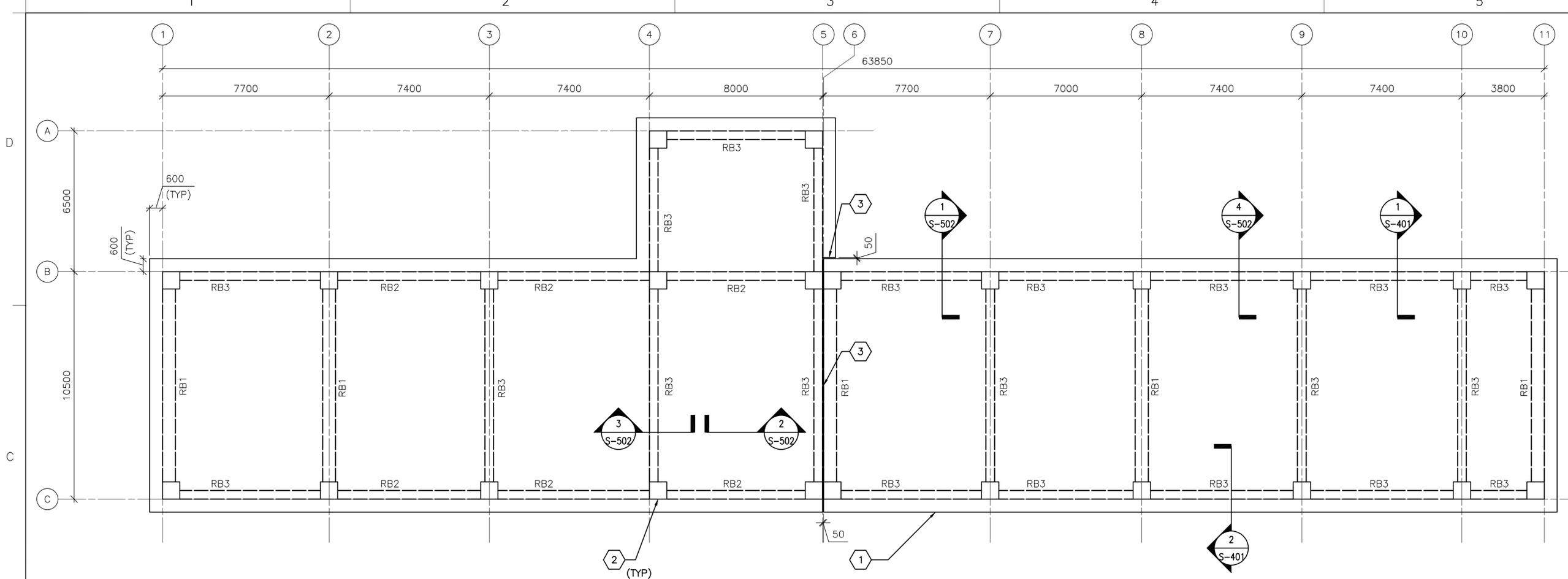
Rev.	Date	Description
0	2/23/10	Design file no.

Designed by:	KMP/MMY
Dwn by:	RCG
Reviewed by:	LHM
Submitted by:	BAKER

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BOQ OFFICER BARRACKS  
FOUNDATION/SLAB PLAN

Sheet reference number:  
**S-101**



1 ROOF FRAMING PLAN  
 S-102 SCALE: 1:100

**ROOF FRAMING PLAN NOTES:**

- REFER TO SHEETS S-001 FOR STRUCTURAL NOTES AND DESIGN CRITERIA.
- TOP OF SLAB ELEVATION = 3800 UNLESS NOTED OTHERWISE.
- ROOF SLAB IS 300 WITH #19 @ 300 OC EW T&B.
- ROOF BEAM INDICATED BY RB# ON PLAN. REFER TO BEAM SCHEDULE ON SHEET S-601
- COORDINATE WITH ARCHITECTURAL SHEETS FOR COLD-FORMED STEEL OVERBUILD FRAMING ABOVE ROOF SLAB.
- COLD-FORMED METAL OVERBUILD ROOF FRAMING NOT SHOWN FOR CLARITY. SEE OVERBUILD ROOF FRAMING DETAILS AND SECTIONS ON SHEET S-702.
- CMU PARTITION WALLS (BELOW ROOF SLAB) NOT SHOWN FOR CLARITY.
- OVERHANG AREAS OF ROOF SLAB CONTAIN ROOF VENT PENETRATIONS. REFERENCE ARCHITECTURAL DRAWINGS FOR INFORMATION.
- DISCONTINUE ALL ROOF FRAMING AT BUILDING EXPANSION JOINT. REFER TO ARCHITECTURAL SHEETS FOR COLD-FORMED ROOF OVERBUILD FRAMING EXPANSION JOINT DETAIL.

**ROOF FRAMING PLAN KEY NOTES:** (X)

- CONC ROOF SLAB (BELOW ROOF OVERBUILD)
- REINF CONC COLUMN (BELOW CONC ROOF SLAB)
- 50 ISOLATION JOINT BETWEEN STRUCTURES LOCATED ABOVE FIRST FLOOR SLAB-ON-GRADE



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

APPROVED:  
*Chris White*  
 A/E DESIGNER OF RECORD



Rev.	Date	Description	Mark	Appr.	Date

Designed by: KMP/AMM	Date: 2/23/10	Rev: 0
Dwn by: RCG	Design file no.:	
Reviewed by: LHM	Drawing code: ANAB00S-107RP	
Submitted by: BAKER	File name: ANAB00S-107RP	
	Plot date: 2/22/10	
	Plot scale: xx	

AFGHAN NATIONAL ARMY REGIONAL MILITARY TRAINING CENTER STANDARD DESIGN	BOQ OFFICER BARRACKS	ROOF FRAMING PLAN
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Sheet reference number:  
**S-102**

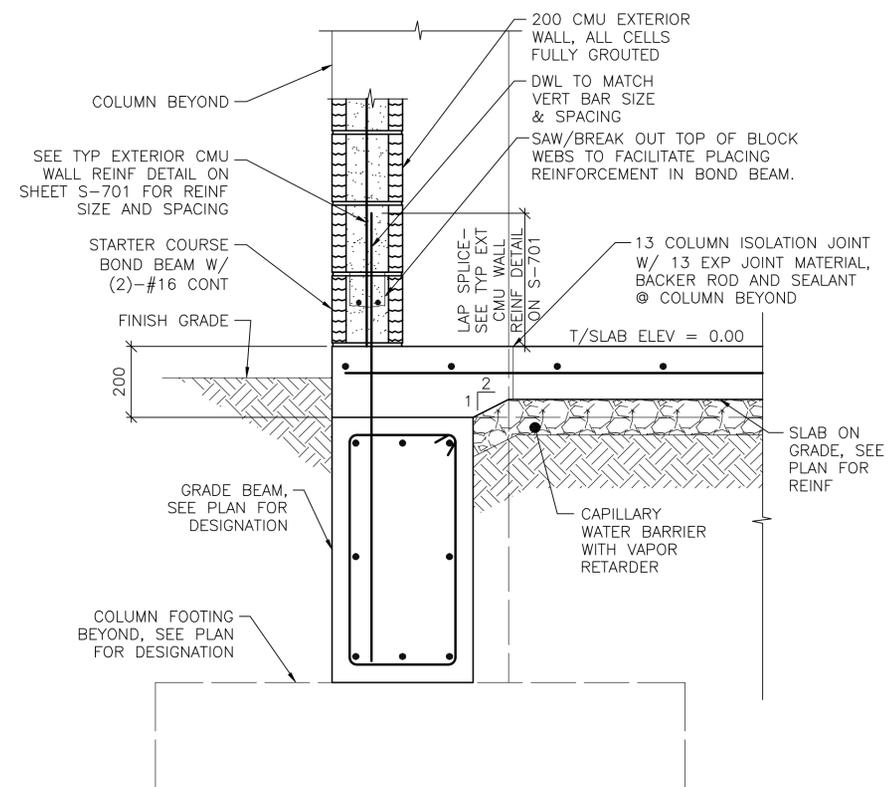






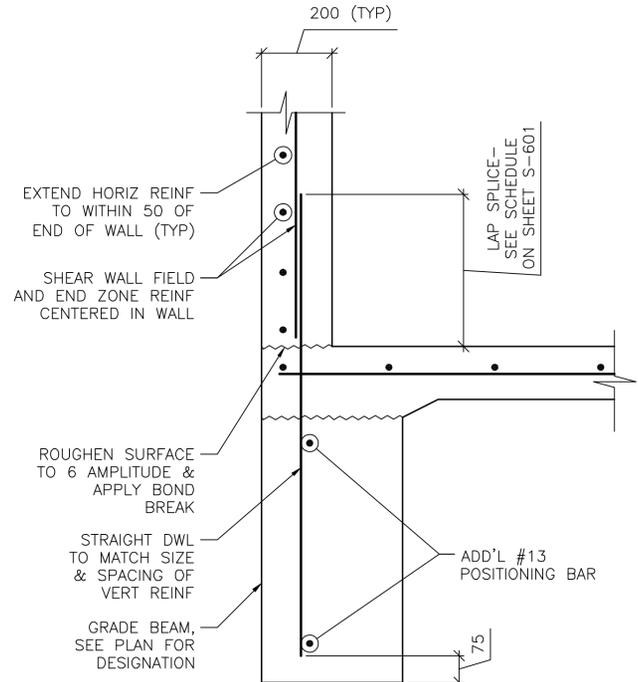
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Rev.	Date	Description	Mark	Appr.



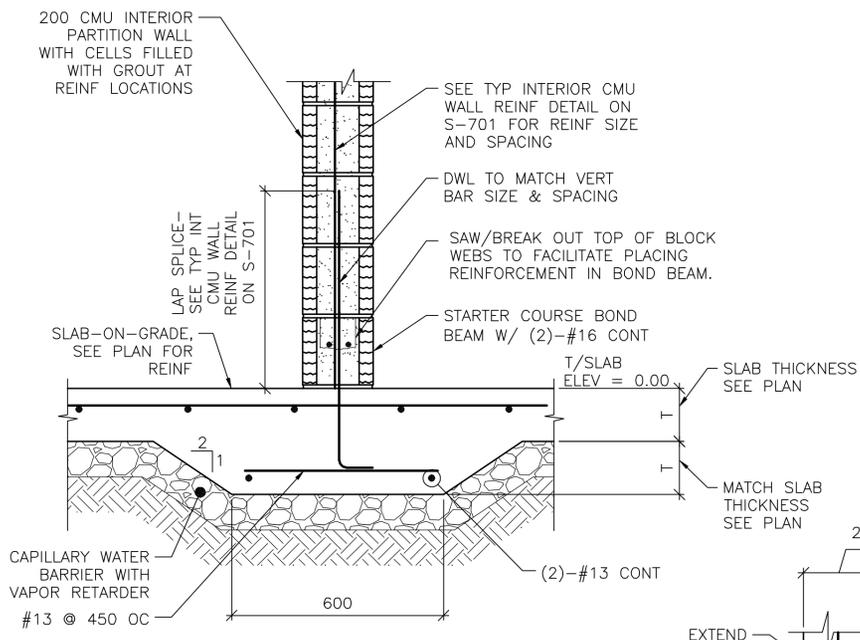
NOTE:  
1. SECTION IS SIMILAR FOR INTERIOR CMU PARTITIONS OVER GRADE BEAMS SHOWING THICKENED 200 CONC SLAB AREA.

1 SECTION  
S-101 SCALE: 1:10

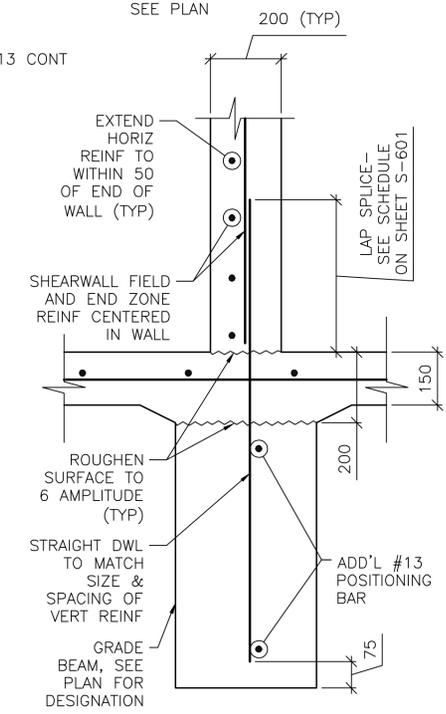


NOTE:  
1. SECTION DEPICTS SHEAR WALL TERMINATION ONLY. GRADE BEAM REINFORCING NOT SHOWN FOR CLARITY.  
2. SEE SHEET S-601 AND SHEET S-702 FOR SCHEDULED FIELD AND END ZONE REINF.

2 SECTION  
S-101 SCALE: 1:10

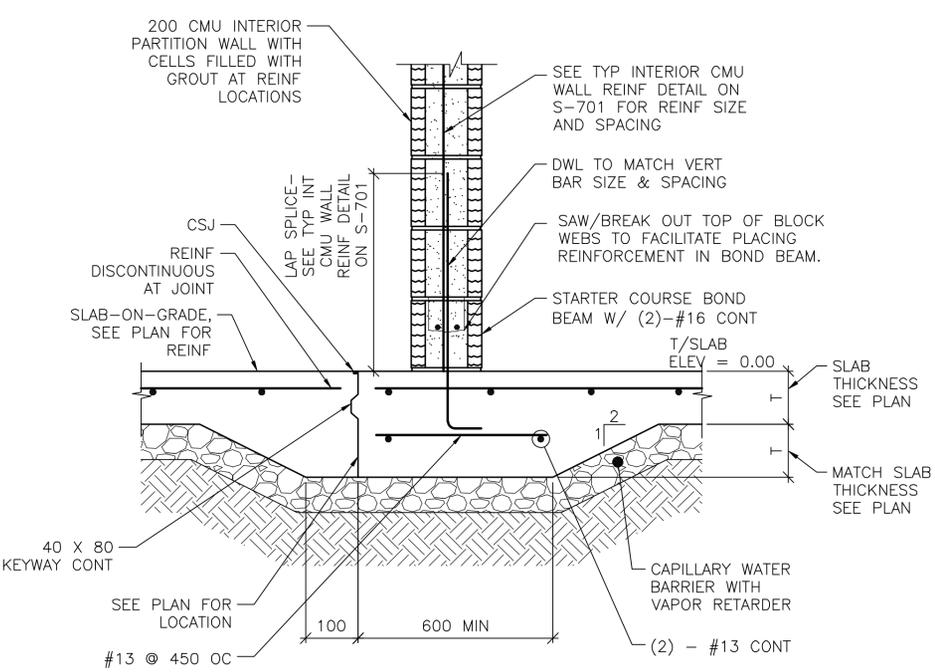


3 SECTION  
S-101 SCALE: 1:10



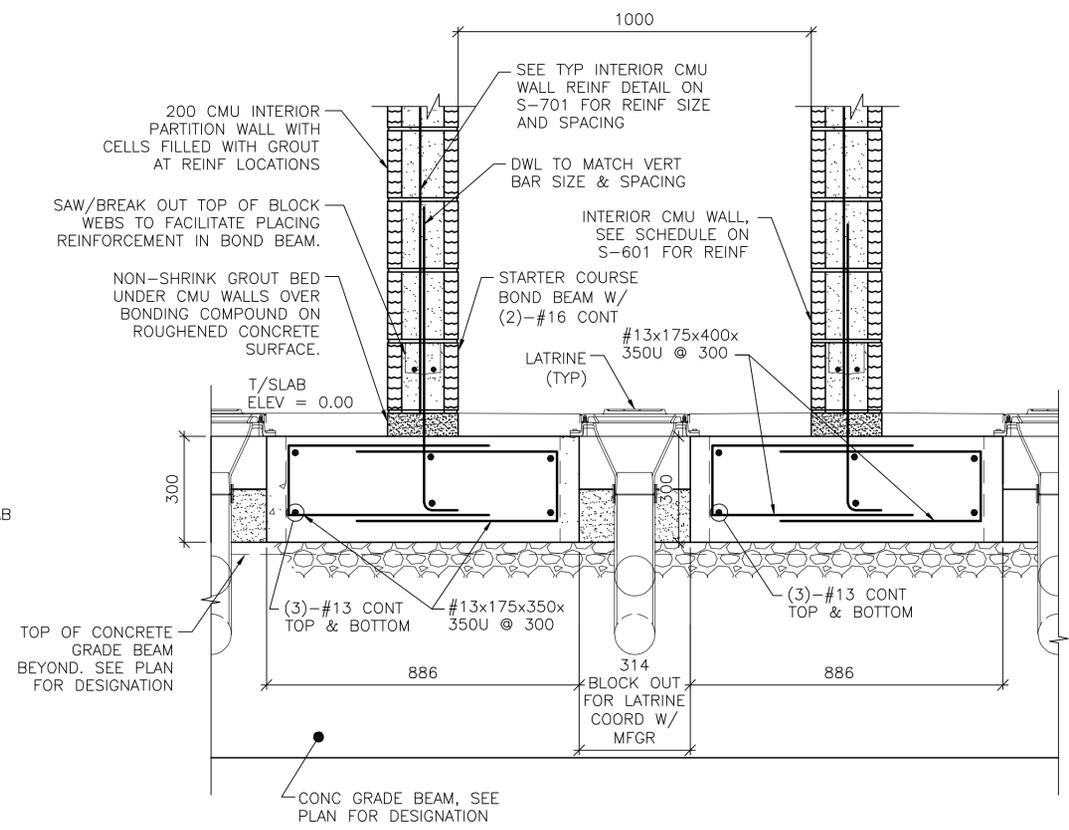
NOTE:  
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2. SEE SHEET S-601 AND SHEET S-702 FOR SCHEDULED FIELD AND END ZONE REINF.

6 SECTION  
S-101 SCALE: 1:10



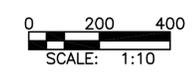
NOTE:  
1. DETAIL IS APPLICABLE AT CONTROL JOINTS RUNNING PARALLEL TO CMU WALLS AND WITHIN 300 OF FACE OF WALL.

4 SECTION  
S-101 SCALE: 1:10



CONC GRADE BEAM, SEE PLAN FOR DESIGNATION

5 SECTION  
S-403 SCALE: 1:10



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APPROVED:

*Chris M...*  
A/E DESIGNER OF RECORD

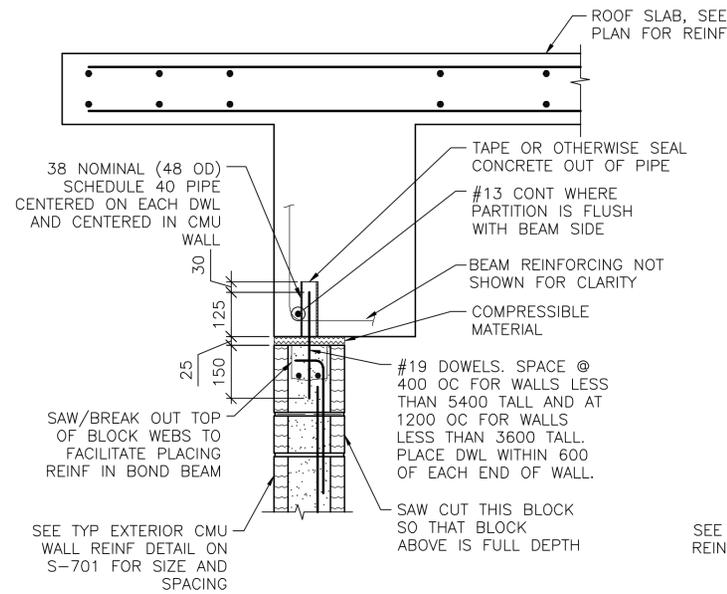
SEAL:



Designed by:	KMP/AMMY	Reviewed by:	LHM
Dwn by:	RCG	Submitted by:	BAKER
Date:	2/23/10	Drawing code:	ANAB008-501SC
Design file no.:		File name:	ANAB008-501SC
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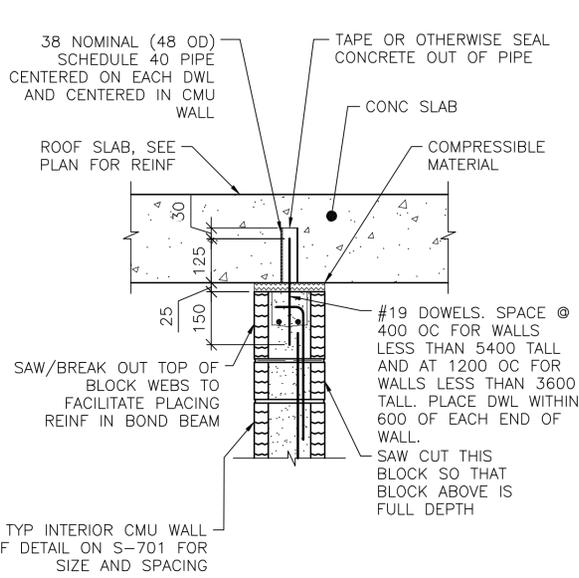
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FOUNDATION SECTIONS

Sheet reference number:  
S-501



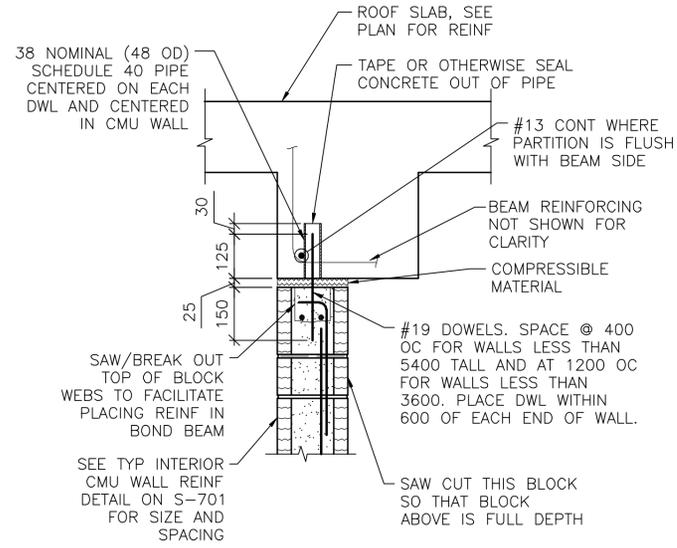
NOTES:  
1. EXTEND DOWEL REINF TO 25 CLEAR FROM TOP OF CMU WALL.

1 SECTION  
S-102 SCALE: 1:10



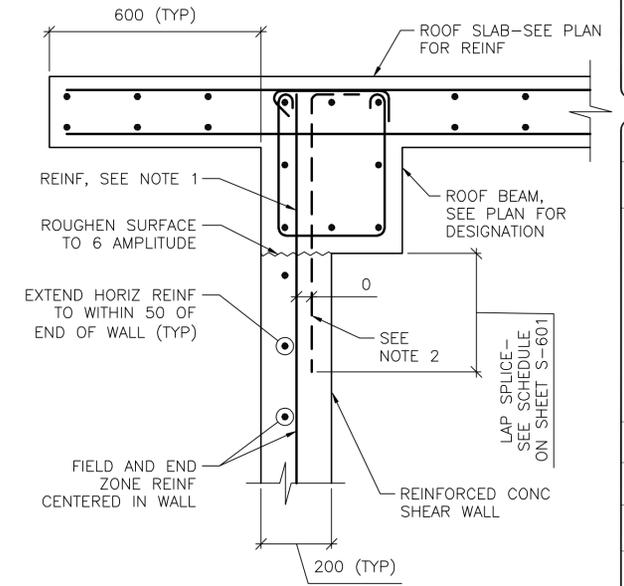
NOTES:  
1. EXTEND DOWEL REINF TO 25 CLEAR FROM TOP OF CMU WALL.  
2. SLAB REINF NOT SHOWN FOR CLARITY.

2 SECTION  
S-102 SCALE: 1:10



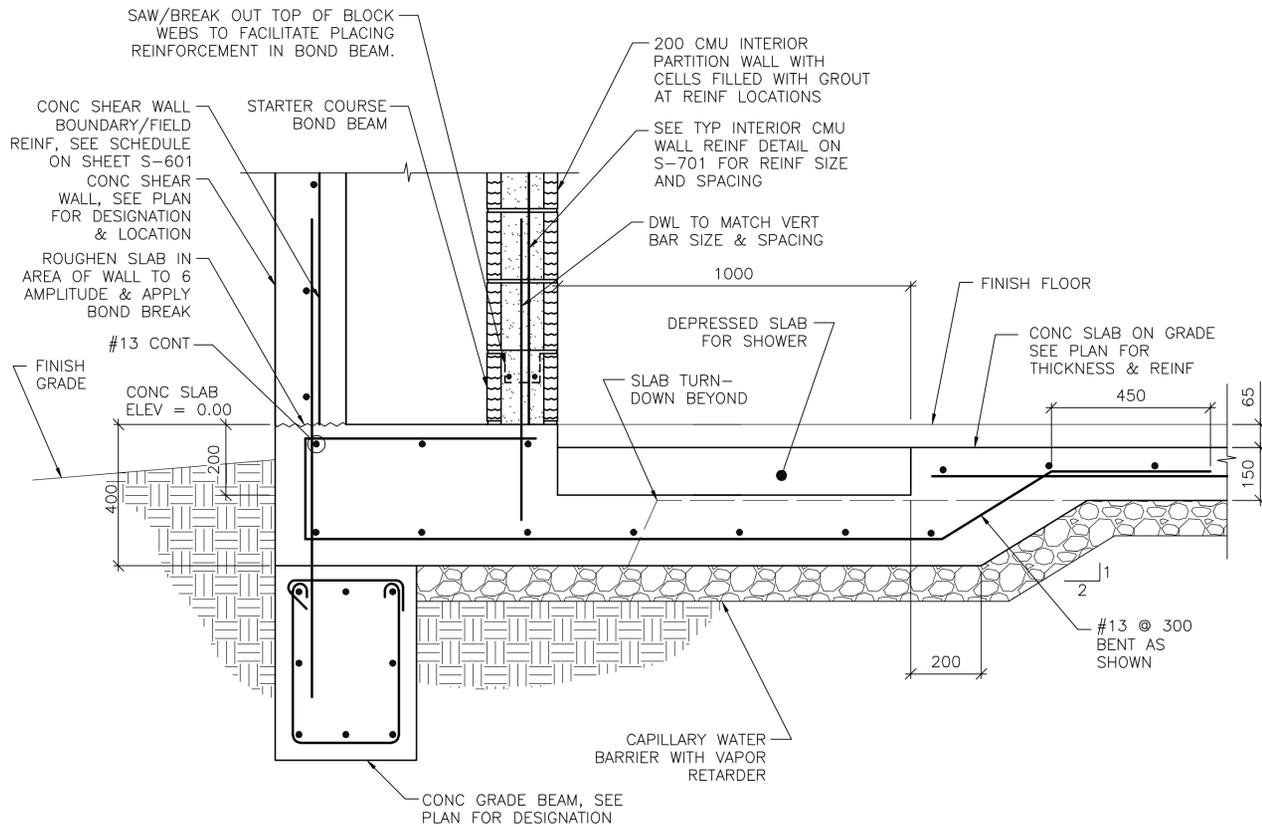
NOTES:  
1. EXTEND DOWEL REINF TO 25 CLEAR FROM TOP OF CMU WALL.  
2. PARTITION WALL MAY BE CENTERED UNDER THE BEAM OR FLUSH AS SHOWN. SEE PLAN FOR LOCATION.  
3. SLAB REINF NOT SHOWN FOR CLARITY.

3 SECTION  
S-102 SCALE: 1:10

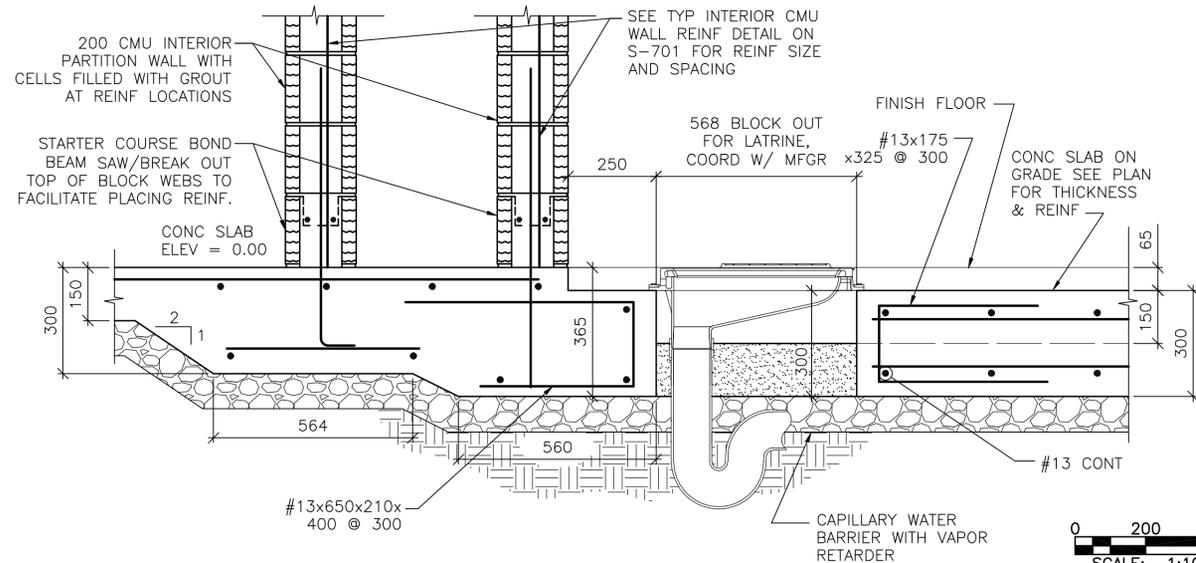


NOTES:  
1. TERMINATE "FIELD" VERT REINF & END ZONE REINF @ 50 CLEAR FROM TOP OF ROOF SLAB.  
2. WHERE END ZONE REINFORCING CANNOT BE DEVELOPED IN BEAM DEPTH, PROVIDE HOOKED DWLS SAME SIZE & SPACING. PROVIDE TENSION LAP BELOW ROOF BEAM.  
3. SEE SHEET S-601 AND SHEET S-702 FOR SCHEDULED FIELD AND END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

4 SECTION  
S-102 SCALE: 1:10



5 SECTION  
S-402 SCALE: 1:10



6 SECTION  
S-402 SCALE: 1:10

0 200 400  
SCALE: 1:10

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APPROVED:

*Chris White*  
A/E DESIGNER OF RECORD

SEAL:

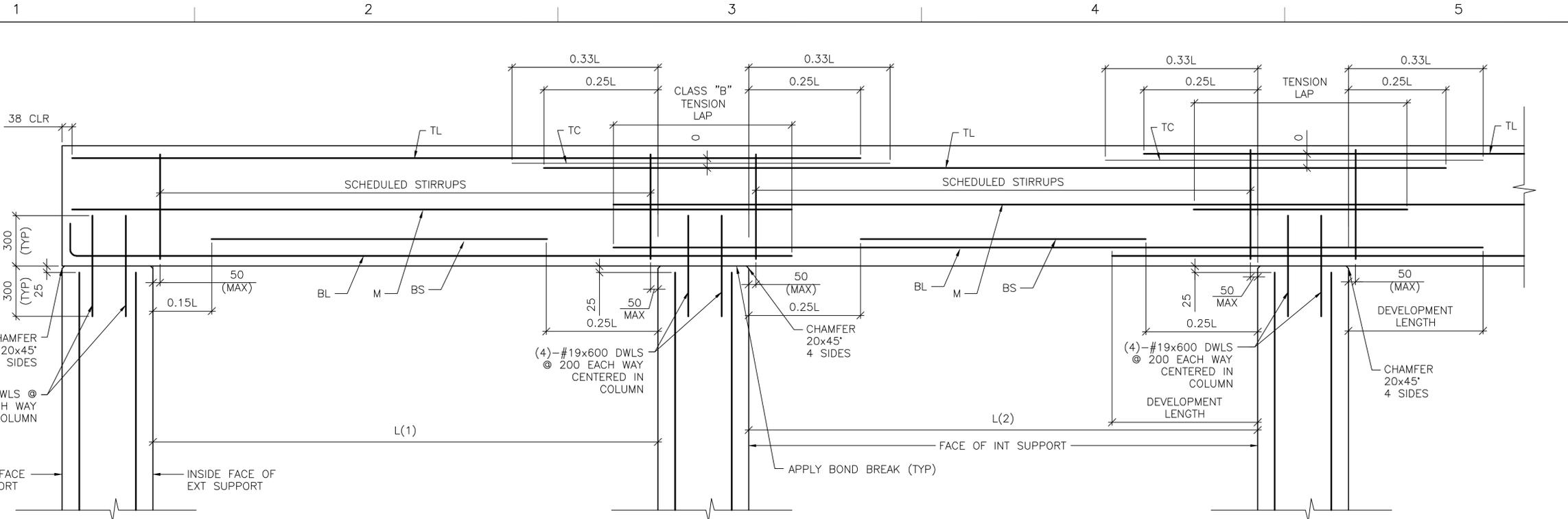


Rev.	Date	Description	Appr.	Date
0	2/23/10	Design file no.		
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		File name: ANABOS-502SC		
		Plot date: 2/22/10		
		Plot scale: XX		

Designed by: KMP/AMMY  
Dwn by: RCG  
Reviewed by: LHM  
Submitted by: BAKER  
Date: 2/23/10  
Design file no.  
Drawing code:  
File name: ANABOS-502SC  
Plot date: 2/22/10  
Plot scale: XX

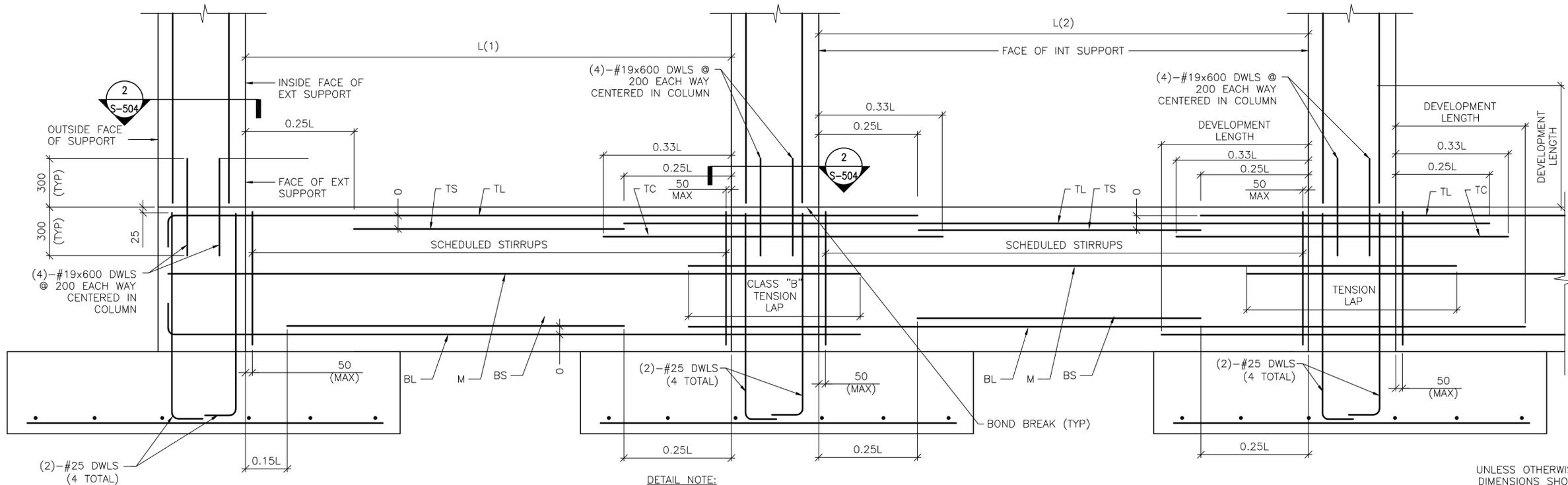
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FOUNDATION & FRAMING SECTIONS

Sheet reference number:  
S-502



**DETAIL NOTE:**  
 1. WORK THIS DETAIL WITH BEAM SCHEDULE ON SHEET S-601.  
 2. L=GREATEST OF ADJACENT SPANS L(1) OR L(2)  
 3. ONLY COLUMN CORNER BARS ARE SHOWN

**1**  
**S-503**  
**ROOF BEAM REINFORCING DETAIL**  
 SCALE: NTS



**DETAIL NOTE:**  
 1. WORK THIS DETAIL WITH BEAM SCHEDULE ON SHEET S-601.  
 2. L=GREATEST OF ADJACENT SPANS L(1) OR L(2)  
 3. ONLY COLUMN CORNER BARS ARE SHOWN.

**2**  
**S-503**  
**GRADE BEAM REINFORCING DETAIL**  
 SCALE: NTS

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

APPROVED:  
*Chris White*  
 A/E DESIGNER OF RECORD  
 SEAL:

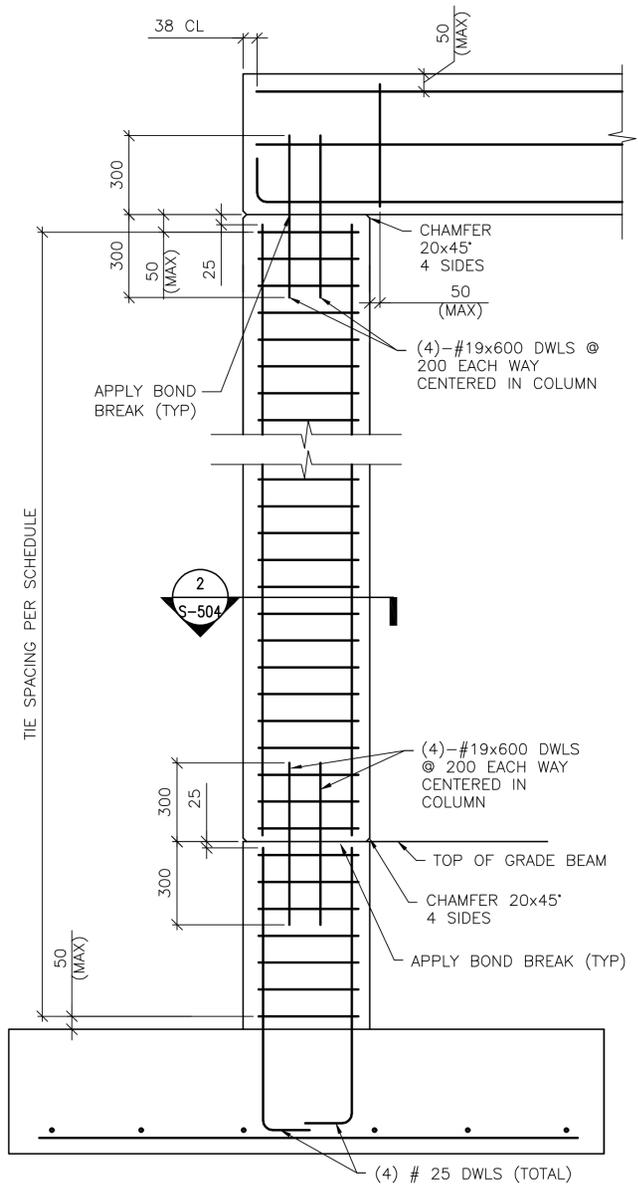


Rev.	Date	Description	Mark	Date	Appr.
0	2/23/10	Design file no.			
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		Reviewed by: LHM			
		Submitted by: BAKER			
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		Plot date: 2/22/2010			
		Plot scale: XX			

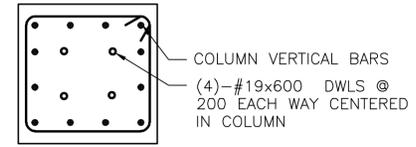
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 BEAM & COLUMN DETAILS

Sheet reference number:  
**S-503**

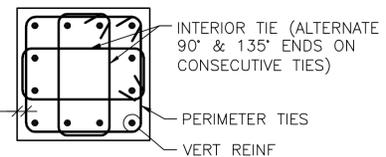


**1** 1-STORY COLUMN REINF DETAILS  
SCALE: NTS  
(WITH GRADE BEAM)

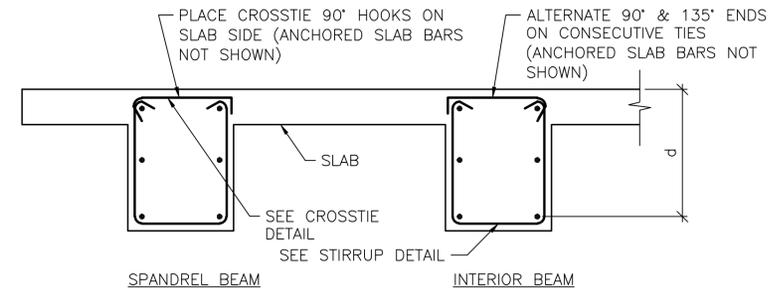


**DETAIL NOTE:**  
1. INTERIOR TIES NOT SHOWN FOR CLARITY. REFER TO DETAIL A THIS SHEET FOR INTERIOR TIE CONFIGURATION.

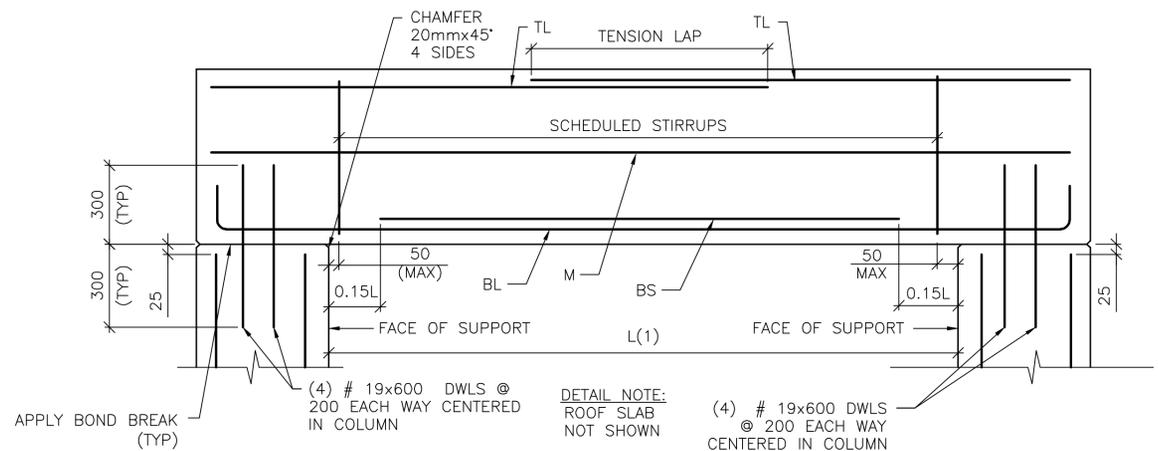
**2** SECTION  
SCALE: NTS



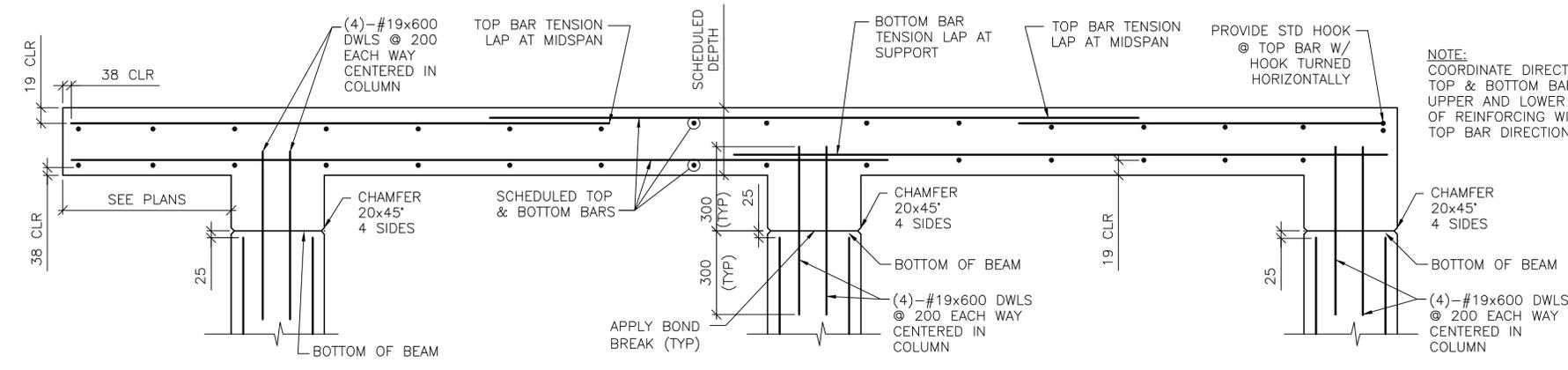
**A** 12 BAR COLUMN  
SCALE: NTS



**B** BEAM REINFORCEMENT DETAILS  
SCALE: NTS



**3** SINGLE SPAN ROOF BEAM REINFORCING DETAIL  
SCALE: NTS



**4** FRAMED SLAB REINFORCING DETAIL  
SCALE: NTS

**NOTE:**  
COORDINATE DIRECTION OF TOP & BOTTOM BARS IN UPPER AND LOWER MATS OF REINFORCING WITH BEAM TOP BAR DIRECTIONS

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

APPROVED:  
*Chris White*  
A/E DESIGNER OF RECORD



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**S-504**



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Dwn by: RCG  
Reviewed by: LHM  
Submitted by: BAKER

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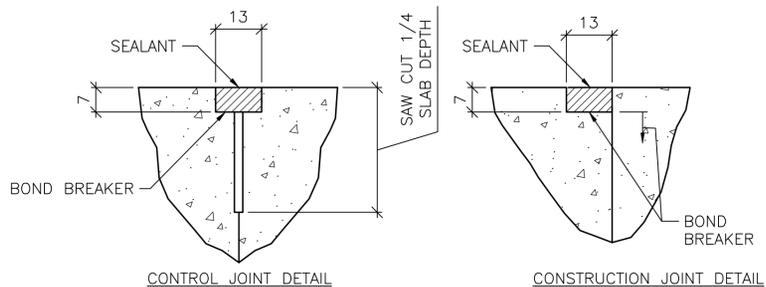
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BEAM & COLUMN DETAILS

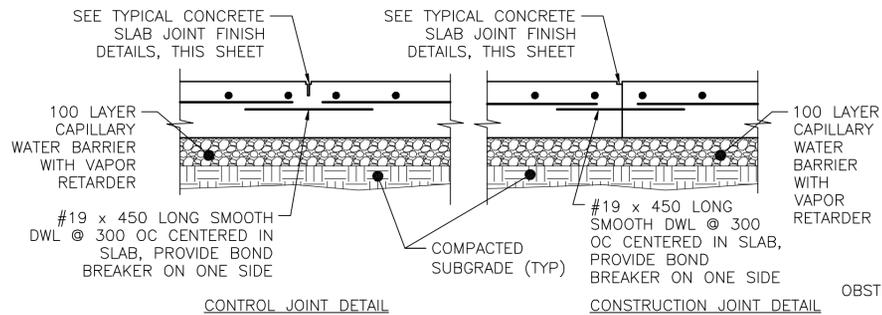






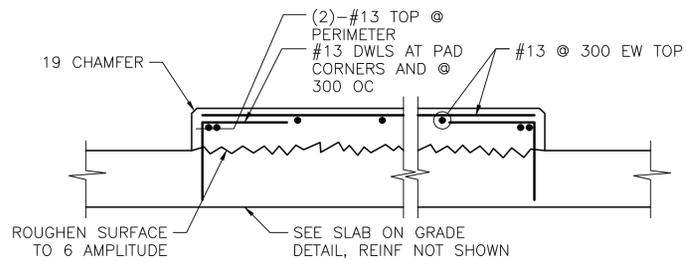
**TYPICAL CONCRETE SLAB JOINT FINISH DETAILS**

1  
S-701  
SCALE: NTS



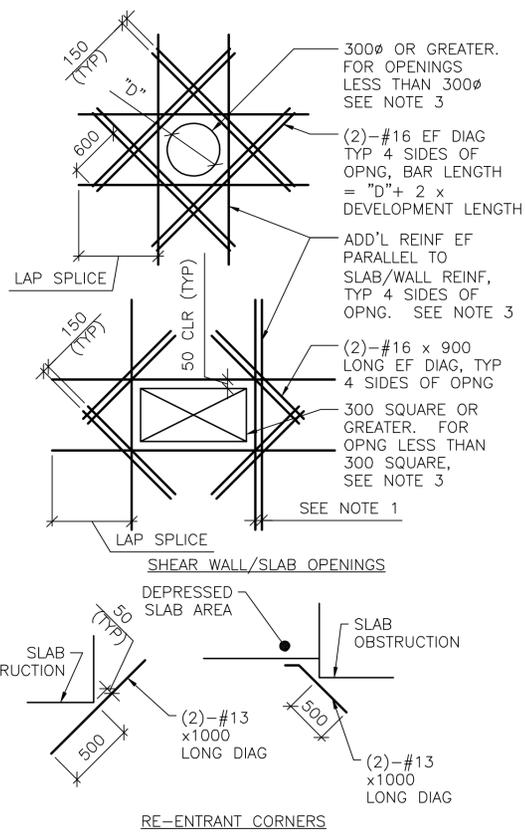
**TYPICAL SLAB ON GRADE JOINT DETAIL**

2  
S-701  
SCALE: NTS



**INTERIOR EQUIPMENT PAD DETAIL**

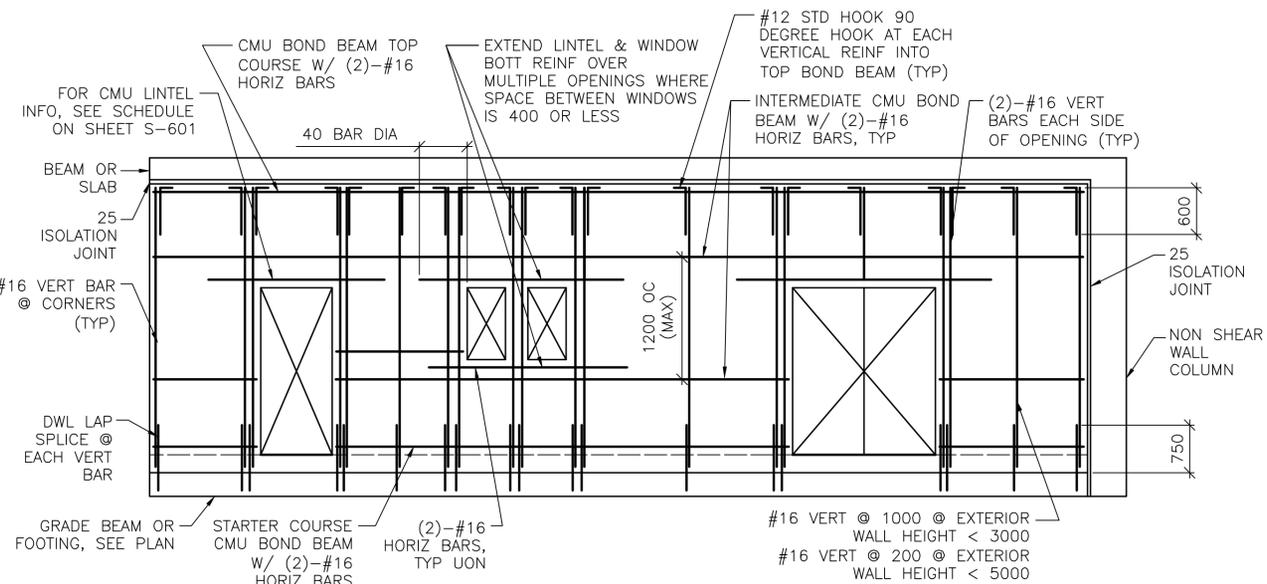
3  
S-701  
SCALE: NTS



- 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**

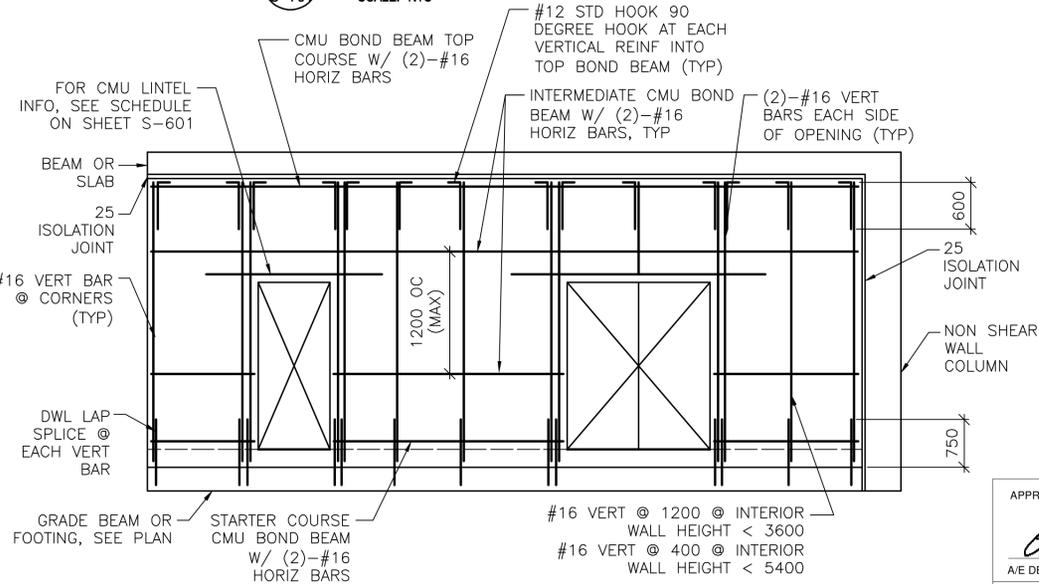
4  
S-701  
SCALE: NTS



- DETAIL NOTE:**
- CENTER VERT REINF IN WALL.
  - GROUT ALL CMU CELLS.
  - 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 EXTERIOR CMU WALL REINF DETAIL**

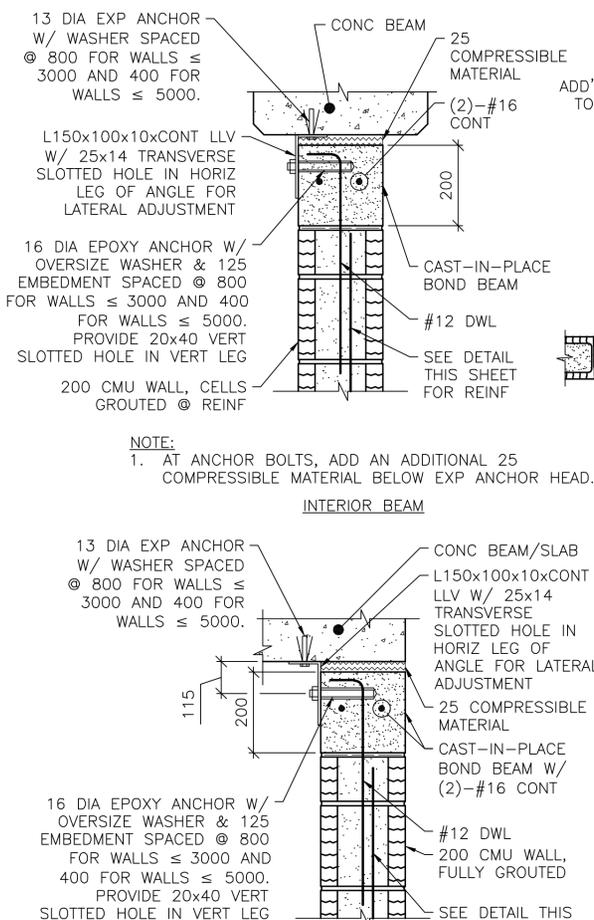
7  
S-701  
SCALE: NTS



- DETAIL NOTE:**
- CENTER VERT REINF IN WALL.
  - GROUT ALL CMU CELLS.
  - 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 INTERIOR CMU WALL REINF DETAIL**

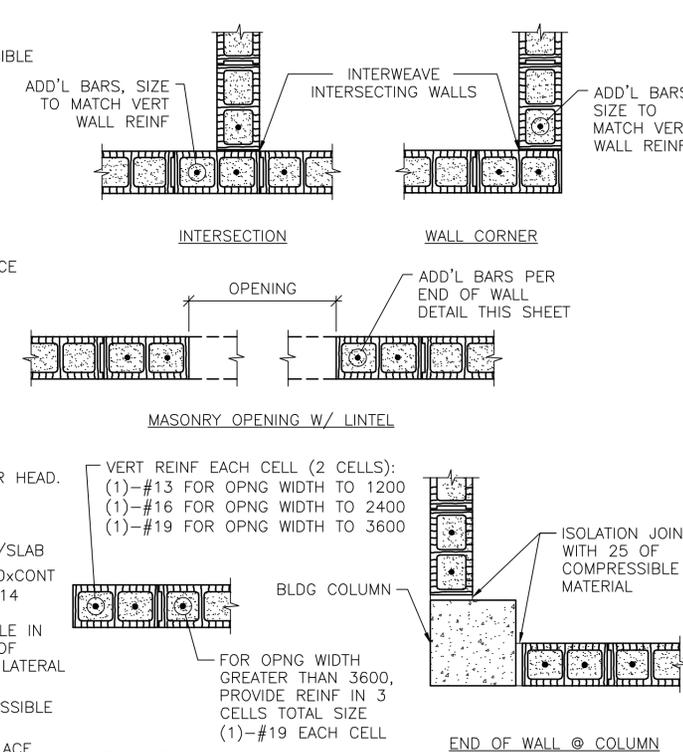
8  
S-701  
SCALE: NTS



- 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



- 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 White*  
A/E DESIGNER OF RECORD

SEAL:

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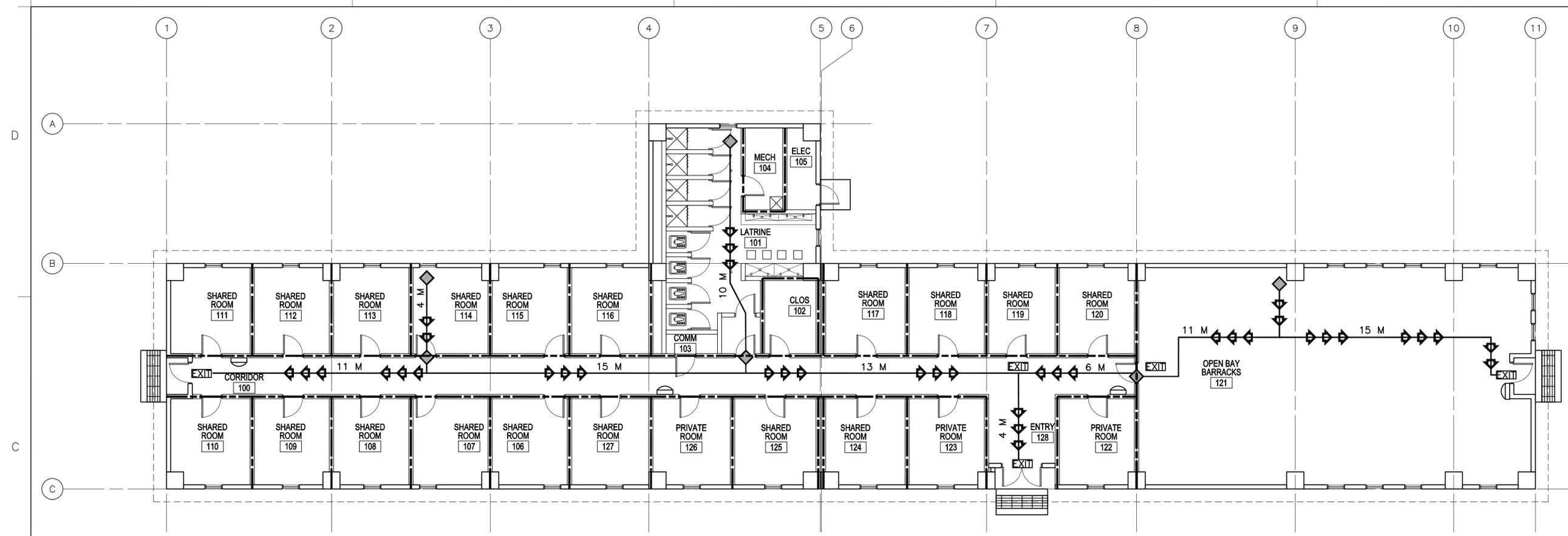
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TYPICAL DETAILS

Sheet reference number:  
**S-701**

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2/23/10	0	Design file no.	
		Drawing code:	
		File name: ANAMB05-101101	
		Plot date: 2/22/2010	
		Plot scale: XX	





**1 LIFE SAFETY PLAN**  
SCALE: 1:100

**CODE ANALYSIS:**

- REFERENCES:**  
2006 INTERNATIONAL BUILDING CODE (2006 IBC)  
2006 LIFE SAFETY CODE (2006 NFPA 101)
- IBC OCCUPANCY CLASSIFICATION:**  
GROUP R-2 (NEW HOTELS AND DORMITORIES NFPA 101 6.1.8 AND CHAPTER 28)
- TYPE OF CONSTRUCTION (IBC):** TYPE II-B (UNPROTECTED/NONSPRINKLERED)
- IBC TABLE 503: ALLOWABLE HEIGHT AND BUILDING AREAS:**  
GROUP R-2  
ALLOWABLE AREA: 1486 SM  
ALLOWABLE HEIGHT: 4 STORIES (16 M)  
  
GROUP R-2  
PROPOSED AREA: 723 SM  
PROPOSED HEIGHT: 1 STORY (<16 M)
- 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
- IBC TABLE 803.5 - INTERIOR WALL AND CEILING FINISH REQUIREMENTS FOR R-2 OCCUPANCY/NONSPRINKLERED**

GROUP	EXIT ENCLOSURES AND EXIT PASSAGEWAY	CORRIDORS	ROOMS AND ENCLOSED SPACES
R-2	B	B	C

- NFPA 101 TABLE 7.3.1.2 - OCCUPANT LOAD**  
HOTELS AND DORMITORIES = 18.6 SM/PERSON  
CALCULATED = 39 OCCUPANTS  
ACTUAL = 61 OCCUPANTS
- NFPA 101 TABLE 7.3.3.1 - EGRESS CAPACITY**  
HOTELS AND DORMITORIES = 5 MM PER OCCUPANT  
  
MINIMUM REQUIRED: 305 MM (61 OCCUPANTS x 5 MM PER OCCUPANT)  
PROPOSED EGRESS CAPACITY: 3600 MM: (4) 900 MM DOORS
- NFPA 101 PARAGRAPH 28.2.6 - EXIT ACCESS TRAVEL DISTANCE**  
MAXIMUM ALLOWED WITHIN ROOM OR SUITE TO CORRIDOR: 23 METERS  
MAXIMUM ALLOWED CORRIDOR DOOR OF ANY ROOM OR SUITE TO NEAREST EXIT: 30 METERS  
  
PROPOSED WITHIN ROOM OR SUITE TO CORRIDOR: 4 METERS MOST ROOMS, 15 METERS ROOM 121  
PROPOSED CORRIDOR DOOR OF ANY ROOM OR SUITE TO NEAREST EXIT: 26 METERS  
  
STORAGE ROOMS: 1 HOUR SEPARATION REQUIRED.
- NFPA 101 PARAGRAPH 28.3.6.1.2 - CORRIDOR FIRE-RESISTANCE RATING (HOUR)**  
REQUIRED: WALLS NOT LESS THAN ONE HOUR FIRE RESISTANCE RATING  
PROPOSED: 1 HOUR RATING.
- NFPA 101 PARAGRAPH 28.3.6.2 & TABLE 8.3.4.2 - DOORS INTO EXIT ACCESS CORRIDORS**  
REQUIRED MINIMUM: 20 MINUTE FIRE PROTECTION RATING  
PROPOSED: 20 MINUTE DOORS
- NFPA 101 PARAGRAPH 28.2.3.3 - CORRIDOR WIDTH**  
REQUIRED: SUFFICIENT FOR OCCUPANT LOAD, BUT NOT LESS THAN 1120 MM  
CALCULATED WIDTH REQUIRED PER OCCUPANT LOAD: 305 MM (61 OCCUPANTS X 5 MM)  
PROVIDED: 1700 MM
- NFPA 101 PARAGRAPH 28.2.5.3 - COMMON PATH OF TRAVEL**  
MAXIMUM ALLOWED: 10.7 METERS  
PROVIDED: 6 METERS
- NFPA 101 PARAGRAPH 28.2.5.5 - DEAD END CORRIDORS**  
PERMITTED: 10.7 METERS  
PROPOSED: 6 METERS
- NFPA 101 PARAGRAPH 28.2.4.1 AND 7.4.1.1 - MINIMUM NUMBER OF EXITS**  
REQUIRED: 2 MINIMUM  
PROPOSED: 3 EXITS
- NFPA 101 PARAGRAPH 28.2.1.2 & 24.2 - SECONDARY MEANS OF ESCAPE**  
ONE OF THE FOLLOWING REQUIRED:  
1) DOOR, SIMILAR TO PRIMARY, BUT REMOTE FROM PRIMARY  
2) OPERABLE WINDOW, 0.53 SM, NOT LESS THAN 510 MM WIDE, 610 MM HIGH, NOT MORE THAN 1120 MM AFF, WITHIN 6100 MM OF GRADE  
PROVIDED: OPERABLE WINDOWS, 0.96 SM EACH PER SLEEPING ROOM

- NFPA 101 PARAGRAPH 24.2.2.4 - TWO PRIMARY MEANS OF ESCAPE**  
AREA WITH DWELLING UNIT EXCEEDS 185 SM PER STORY  
ALLOWED AREA PER STORY WITHIN DWELLING UNIT: 185 SM  
PROVIDED AREA WITHIN DWELLING UNIT: 195 SM WITHIN ROOM 121  
REQUIRED PRIMARY EXITS: 2  
PROVIDED PRIMARY EXITS: 2
- NFPA 101 PARAGRAPH 28.3.7.1 - SUBDIVISION OF BUILDING SPACES - NONSPRINKLERED**  
REQUIRED: EACH GUEST ROOM OR DORMITORY ROOM SHALL BE SEPARATED FROM OTHER GUEST OR DORMITORY ROOMS BY FIRE BARRIERS HAVING FIRE RESISTANCE RATING OF NOT LESS THAN 1 HOUR  
PROVIDED: 1 HOUR SEPARATION
- HAZARDOUS AREA PROTECTION TABLE 28.3.2.2.2**  
STORAGE ROOMS: 1 HOUR SEPARATION REQUIRED
- NFPA 101 A.3.3.5.3 DORMITORY: ROOMS WITHIN DORMITORIES INTENDED FOR THE USE OF INDIVIDUALS FOR COMBINED LIVING AND SLEEPING PURPOSES ARE GUEST ROOMS OR GUEST SUITES.** EXAMPLES OF DORMITORIES ARE COLLEGE DORMITORIES, FRATERNITY AND SORORITY HOUSES AND MILITARY BARRACKS.
- NFPA 101 28.3.5.2 EXTINGUISHMENT REQUIREMENTS: AUTOMATIC SPRINKLER PROTECTION**  
REQUIRED UNLESS SLEEPING ROOMS HAVE DOORS DIRECTLY TO OUTSIDE.  
DUE TO AUSTERE DESIGN CRITERIA, THE GOVERNMENT HAS A FIRE PROTECTION WAIVER FOR THIS REQUIREMENT.

**LEGEND:**

- DENOTES PATHS OF EXIT TRAVEL
- DENOTES DOOR AS AN EMERGENCY EXIT
- DENOTES STARTING POINT FOR TRAVEL DISTANCE
- DENOTES FIRE EXTINGUISHER LOCATIONS
- (1) HOUR RATED WALL
- (2) HOUR RATED WALL
- (3) HOUR RATED WALL

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

0 2000 4000  
SCALE: 1:100

APPROVED:   
A/E DESIGNER OF RECORD



Rev.	Date	Description
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		Drawn by: KJG
		Checked by: NLJ
		Reviewed by: LHM
		Submitted by: BAKER

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

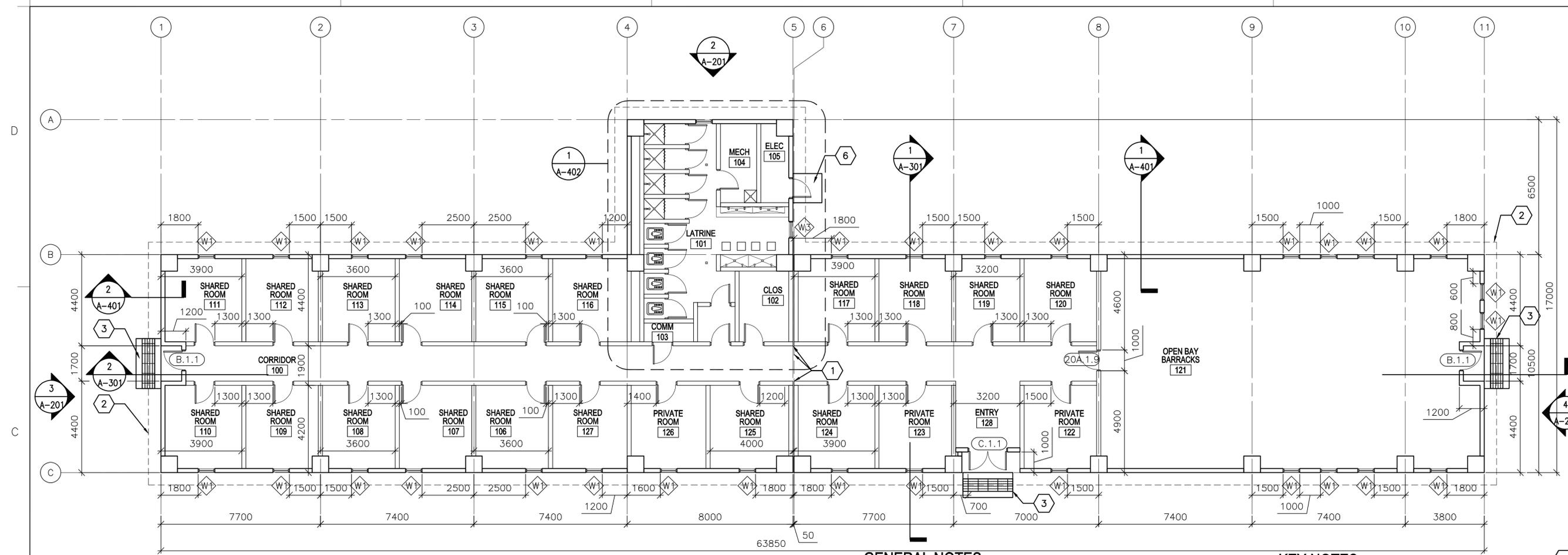
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LIFE SAFETY PLAN

Sheet reference number:  
**A-001**



**1 FLOOR PLAN**  
A-101 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 OPENINGS, AND TO HINGE 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, UNLESS NOTED OTHERWISE.
- 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. CONCRETE, 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 OTHERWISE NOTED.
- M. ALL FLOOR FINISHES SHALL BE SEALED CONCRETE, UNLESS NOTED OTHERWISE.
- N. PROVIDE TILE FINISHES AS INDICATED IN DETAILS & KEY NOTES.
- O. ALL DOOR, FRAME AND HARDWARE TYPES SHALL BE 20A.1.11 UNLESS NOTED OTHERWISE.
- P. TOILET STALL DOORS SHALL BE F.2.12
- Q. SHOWER STALL DOOR, FRAME AND HARDWARE TYPE SHALL BE E.1.12.
- R. PROVIDE POLISHED STAINLESS STEEL MIRROR 600 X 900 ABOVE EVERY LAVATORY FAUCET.

**KEY NOTES:**

- 1. ISOLATION JOINT COVER- SEE SHEET A-506.
- 2. LINE OF ROOF OVERHANG ABOVE.
- 3. CONCRETE STOOP WITH GRATE - SEE DETAIL 1/A-503.
- 4. NOT USED.
- 5. NOT USED.
- 6. CONCRETE STOOP - SEE DETAIL 3/A-503.

**LEGEND:**

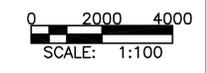
- (XXX) DOOR FRAME AND HARDWARE TYPE, SEE SHEET A-601
- (A) WINDOW TYPE, SEE SHEET A-601
- (X) KEY NOTE

**ABBREVIATIONS:**

- COMM COMMUNICATIONS
- ELEC ELECTRICAL
- MECH MECHANICAL
- JAN JANITOR
- CLOS CLOSET

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

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Designed by: KRC	Checked by: NLJ	Drawn by: KJG	Reviewed by: LHM	Submitted by: BAKER
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FLOOR PLAN

Sheet reference number:  
**A-101**

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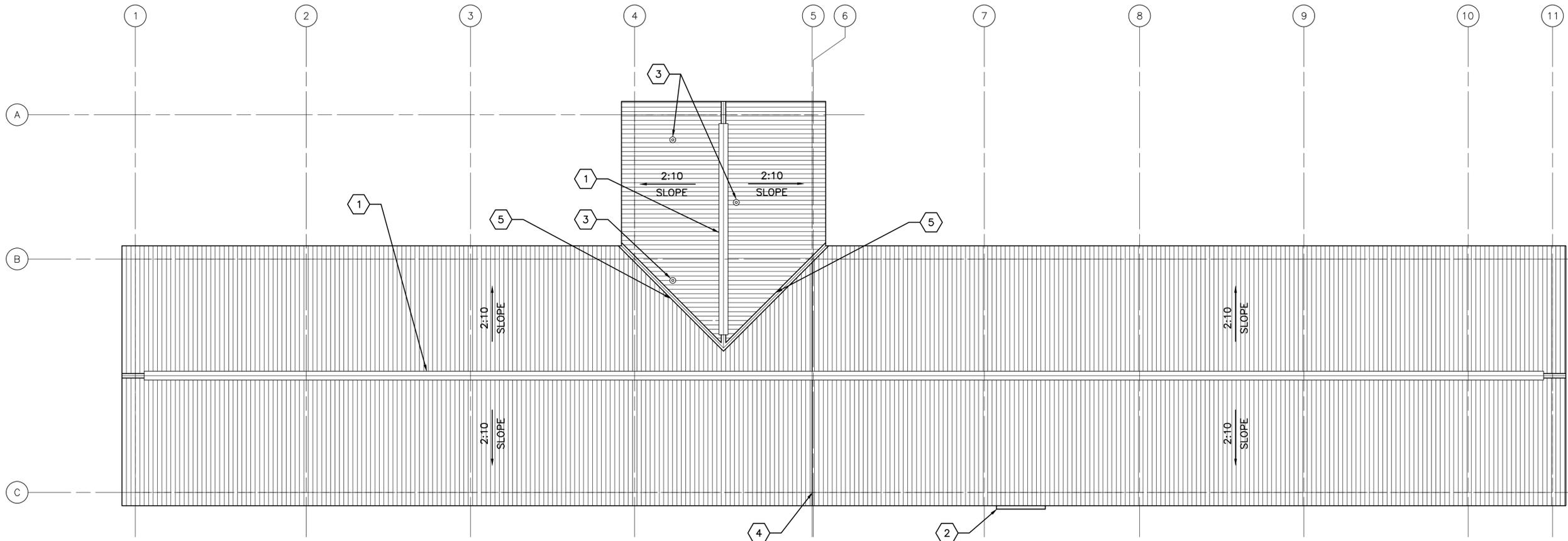
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Dwn by: KJG	Reviewed by: LHM	Date:	2/23/10
Submitted by: BAKER		Design file no.:	
		Drawing code:	
		File name:	ANAB00A-102RP
		Plot date:	2/23/2010
		Plot scale:	XX

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ROOF PLAN

Sheet reference number:  
A-102

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. METAL GUTTER, CENTER ON DOOR, 2300 MM - SEE DETAIL 1A/A-501.
- 3. PLUMBING VENT - SEE DETAIL 5/A-501.
- 4. ROOF EXPANSION JOINT - SEE DETAIL 4A/A-501.
- 5. VALLEY - SEE DETAIL 6/A-501.

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

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*[Signature]*  
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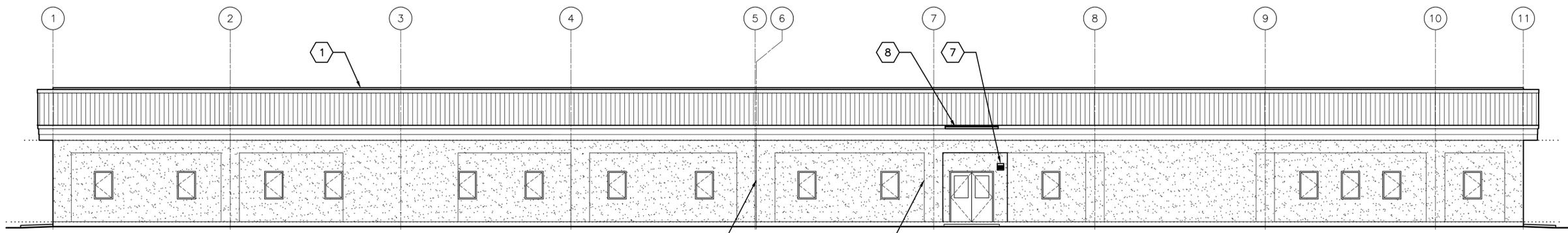


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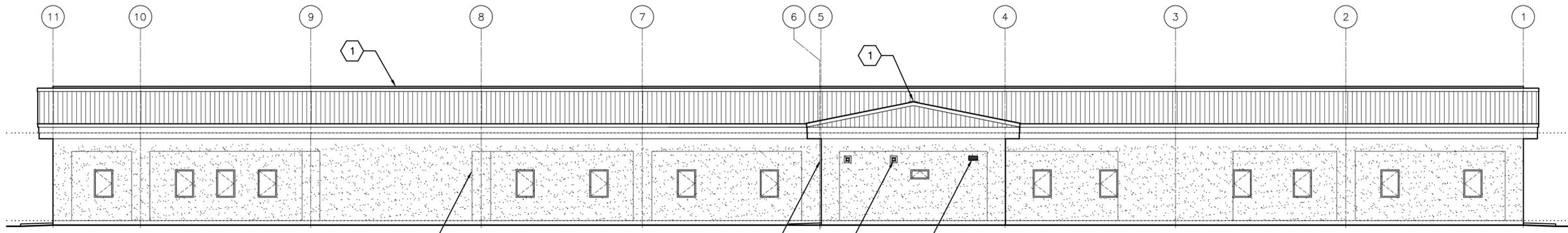


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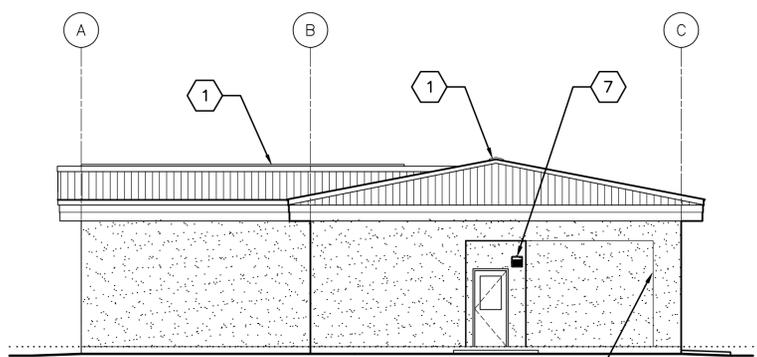
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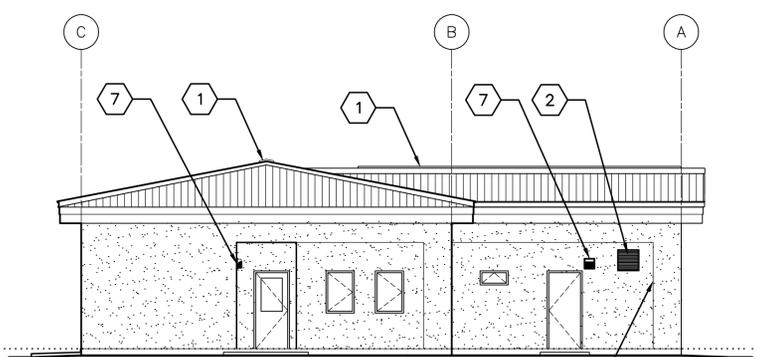
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A-201 SCALE: 1:100



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.
- 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. EXHAUST FAN WITH WALL GRILL, LOCATE TOP OF WALL PENETRATION 2800 MM ABOVE FINISHED FLOOR - SEE MECHANICAL DRAWINGS.
- 5. STUCCO CONTROL JOINT - SEE DETAIL 2A/A-501.
- 6. EXPANSION JOINT COVER - SEE SHEET A-506
- 7. EXTERIOR LIGHT FIXTURE - SEE ELECTRICAL.
- 8. METAL GUTTER, CENTER ON DOOR, 2300 MM - SEE DETAIL 1A/A-501.

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

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**A-201**

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Date	Rev.	Description
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Submitted by:	BAKER	Drawing code:	AMBDQA-3018
		File name:	AMBDQA-3018
		Plot date:	222020
		Plot scale:	1:100

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BUILDING SECTIONS

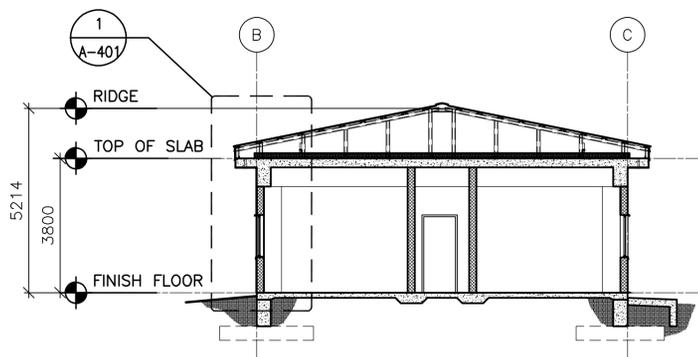
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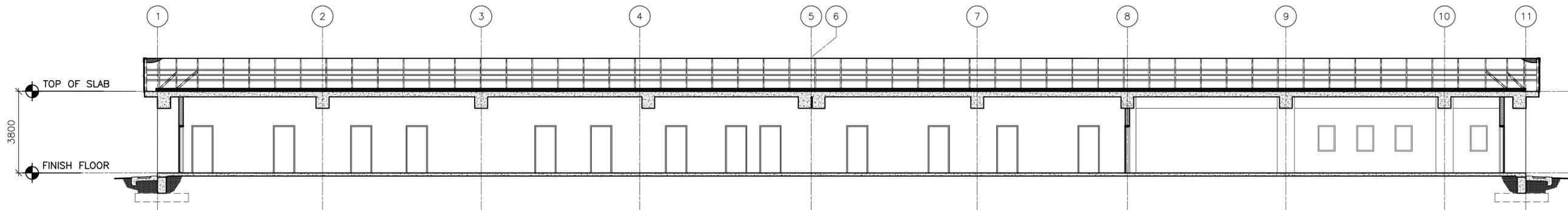
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**1 SECTION**  
SCALE: 1:100



**2 SECTION**  
SCALE: 1:100

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SCALE: 1:100

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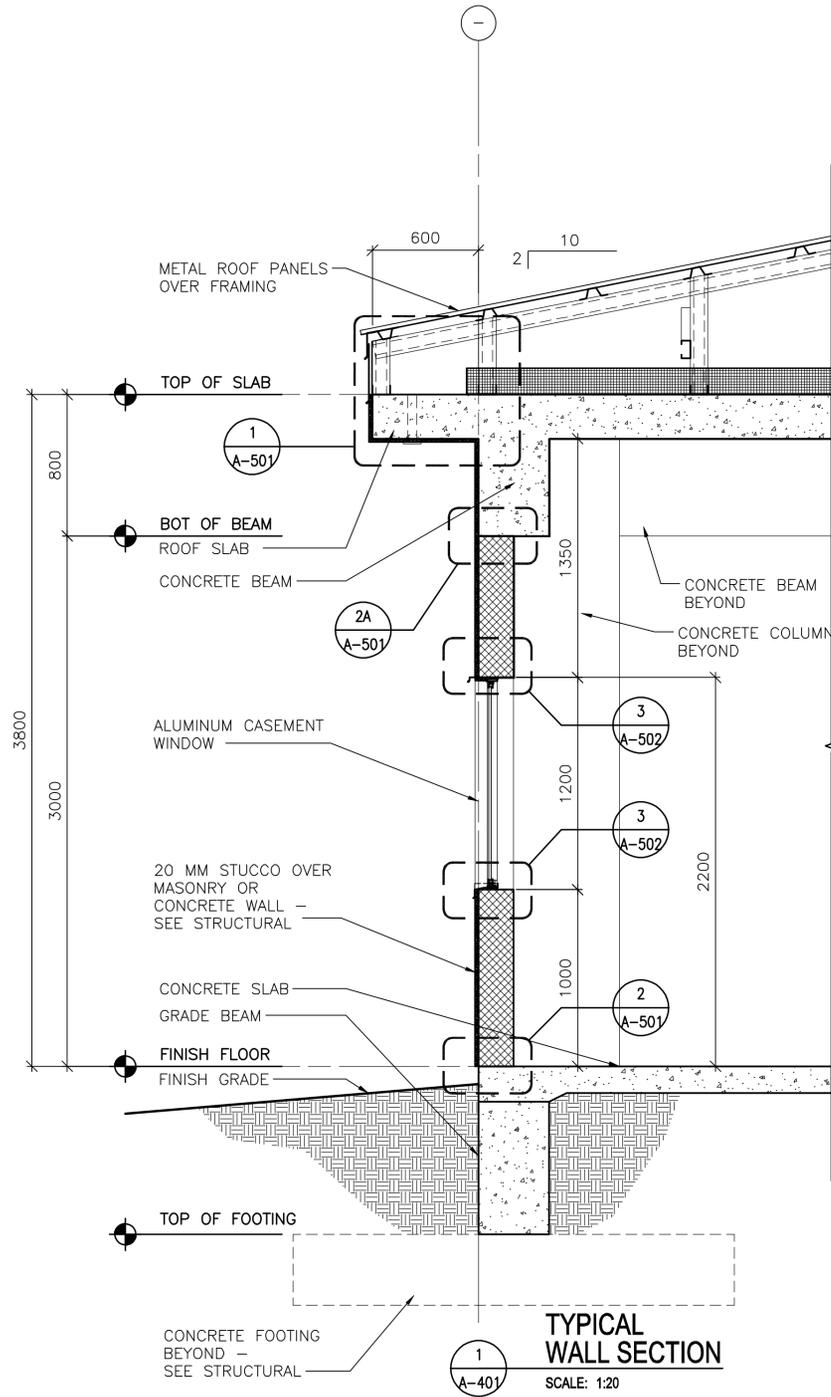


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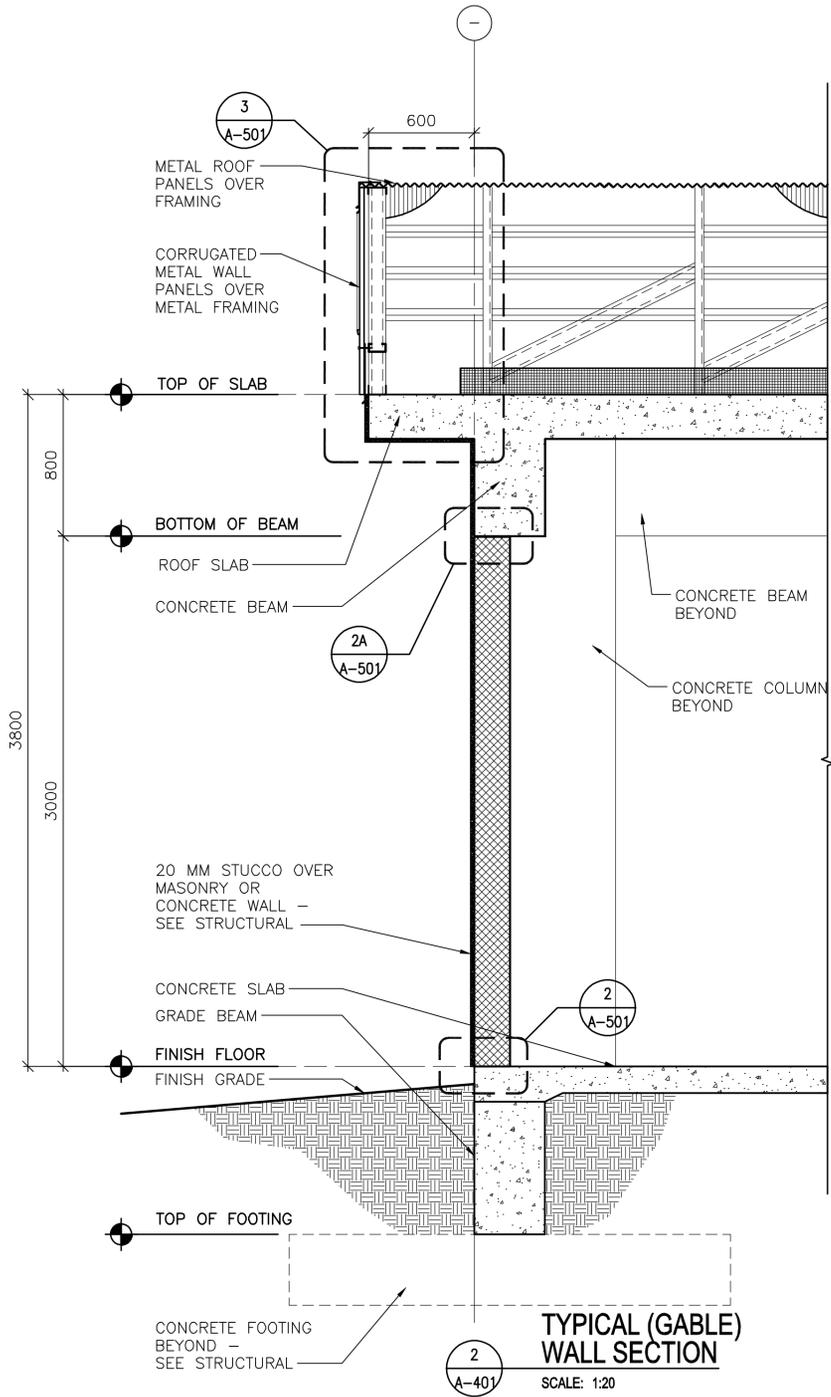
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Submitted by:	BAKER	File name:	ANMBC04-01WS
		Plot date:	222020
		Plot scale:	1:20

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SHEET REFERENCE NUMBER:  
**A-401**



**TYPICAL WALL SECTION**  
 SCALE: 1:20



**TYPICAL (GABLE) WALL SECTION**  
 SCALE: 1:20

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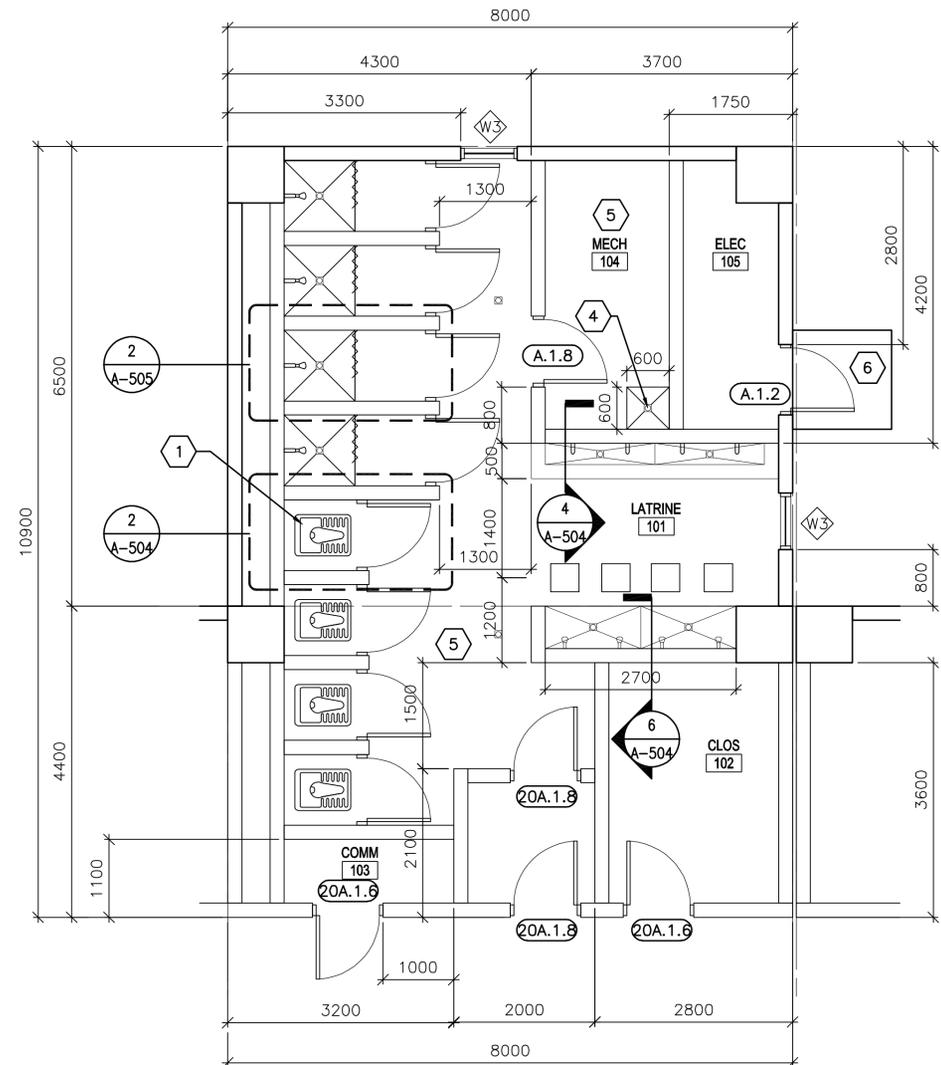
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WALL SECTIONS

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1  
A-402  
**ENLARGED PLAN**  
SCALE: 1:50

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

SCALE: 1:50

**GENERAL NOTES:**

- A. DIMENSIONS ARE SHOWN TO OUTER EDGE OF EXTERIOR STRUCTURAL COLUMNS, STRUCTURAL COLUMN GRID, EDGE OF INTERIOR PARTITIONS, EDGE OF WINDOW OPENINGS, AND TO HINGE 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, UNLESS NOTED OTHERWISE.
- 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. CONCRETE, 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.
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- M. ALL FLOOR FINISHES SHALL BE SEALED CONCRETE, UNLESS NOTED OTHERWISE.
- N. PROVIDE TILE FINISHES AS INDICATED IN Details & KEY NOTES.
- O. ALL DOOR, FRAME AND HARDWARE TYPES SHALL BE 20A.1.11 UNLESS NOTED OTHERWISE.
- P. TOILET STALL DOORS SHALL BE F.2.12
- Q. SHOWER STALL DOOR, FRAME AND HARDWARE TYPE SHALL BE E.1.12
- R. PROVIDE POLISHED STAINLESS MIRROR 600 X 900 ABOVE EVERY LAVATORY FAUCET

**KEY NOTES:**

- 1. TYPICAL TOILET STALL LAYOUT - SEE DETAIL 2/A-504.
- 2. NOT USED
- 3. NOT USED
- 4. RECESSED TROUGH - SEE DETAIL 7/A-504.
- 5. TERRAZZO FLOOR TILE AND CERAMIC WALL TILE TO 2000 MM ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.
- 6. CONCRETE STOOP - SEE DETAIL 3/A-503.

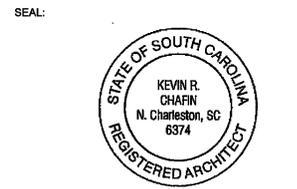
**LEGEND:**

- 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

APPROVED:  
*X. R. Chafin*  
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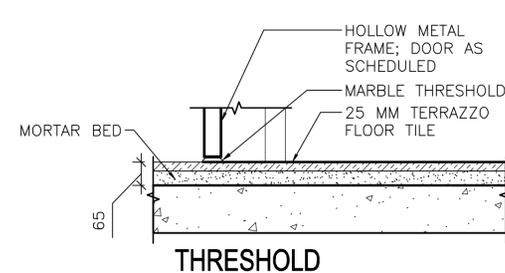
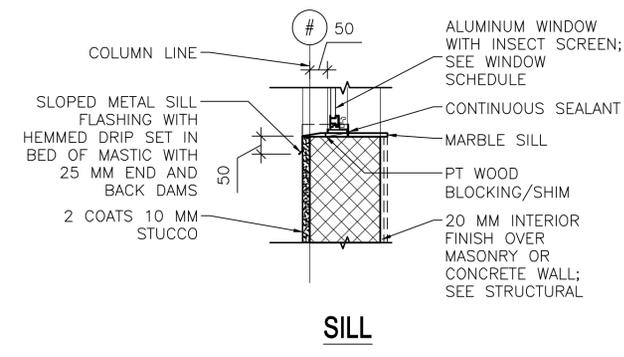
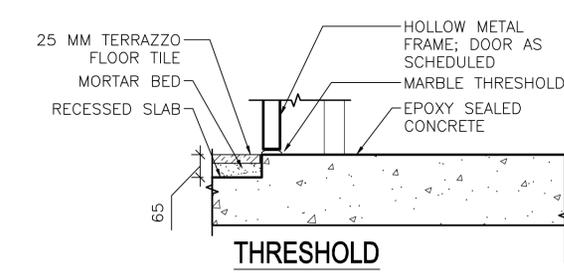
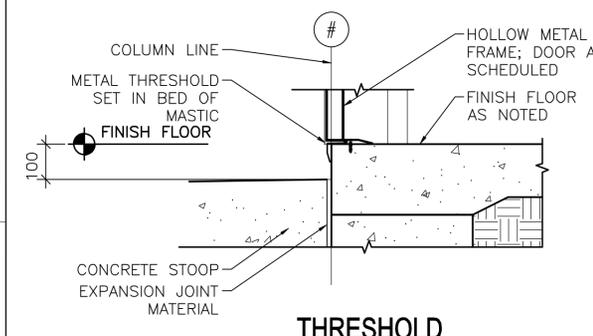
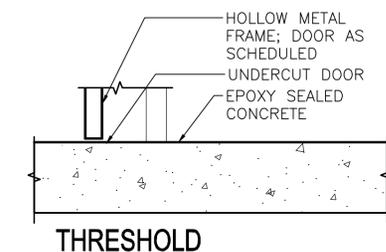
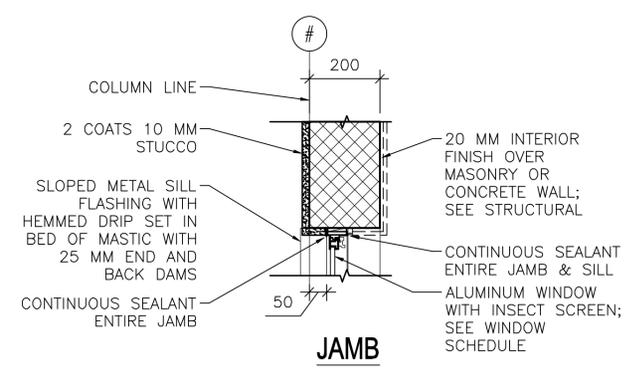
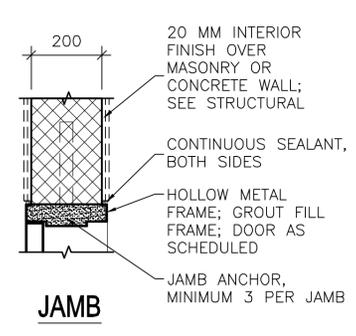
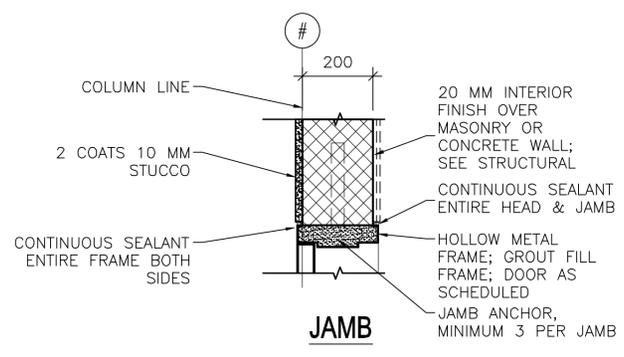
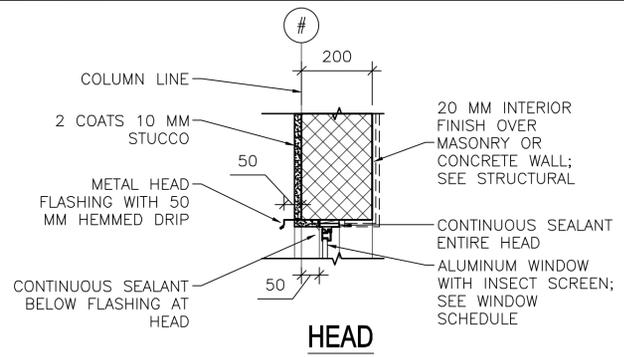
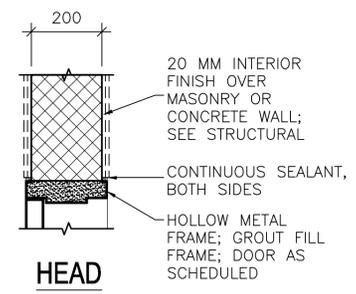
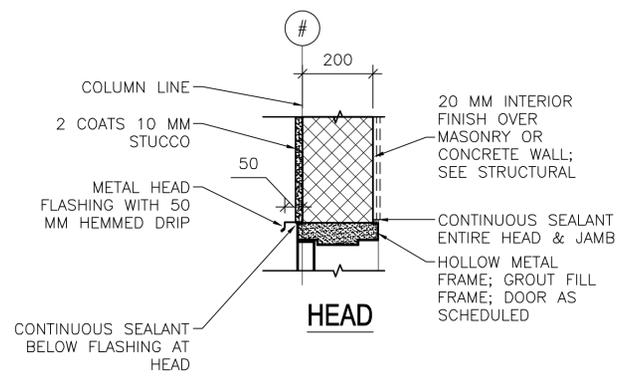
Designed by:	KRC	Checked by:	NLJ
Dwn by:	KJG	Reviewed by:	LHM
Submitted by:	BAKER		

U.S. ARMY CORPS OF ENGINEERS  
AFGHANISTAN ENGINEER DISTRICT  
APO AE 96338  
Michael Baker, Jr., Inc.  
A Unit of Michael Baker Corporation  
Arlside Business Park  
100 Arlside Drive, PA 15108  
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AFGHAN NATIONAL ARMY  
REGIONAL MILITARY TRAINING CENTER  
STANDARD DESIGN  
BOO OFFICER BARRACKS  
ENLARGED PLAN

Sheet reference number:  
**A-402**





1 EXTERIOR DOOR DETAILS SCALE: 1:10

2 INTERIOR DOOR DETAILS SCALE: 1:10

3 EXTERIOR WINDOW DETAILS SCALE: 1:10

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

0 200 400 SCALE: 1:10



Rev.	Date	Description	Mark	Appr.	Date
0	2/23/10	Design file no.			
		Drawing code:			
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		Plot scale: x:1			

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

U.S. ARMY CORPS OF ENGINEERS  
AFGHANISTAN ENGINEER DISTRICT  
APO AE 96338  
Michael Baker Corp., Inc.  
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100 Alside Drive, PA, 15108  
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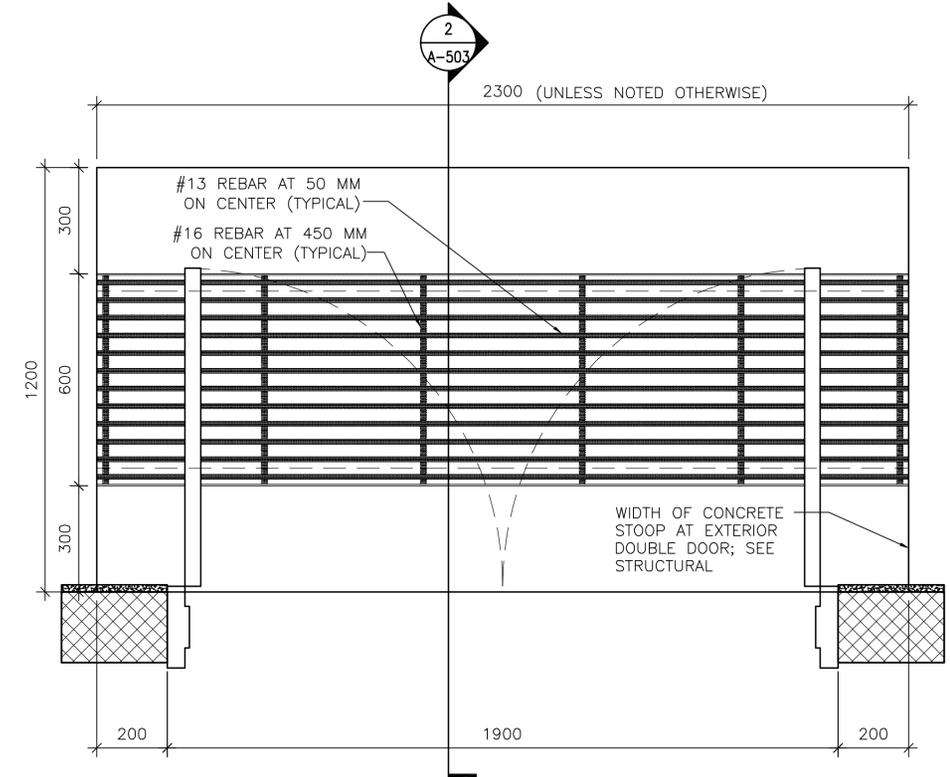
AFGHAN NATIONAL ARMY  
REGIONAL MILITARY TRAINING CENTER  
STANDARD DESIGN

BOQ OFFICER BARRACKS  
HEAD, JAMB & SILL  
DETAILS

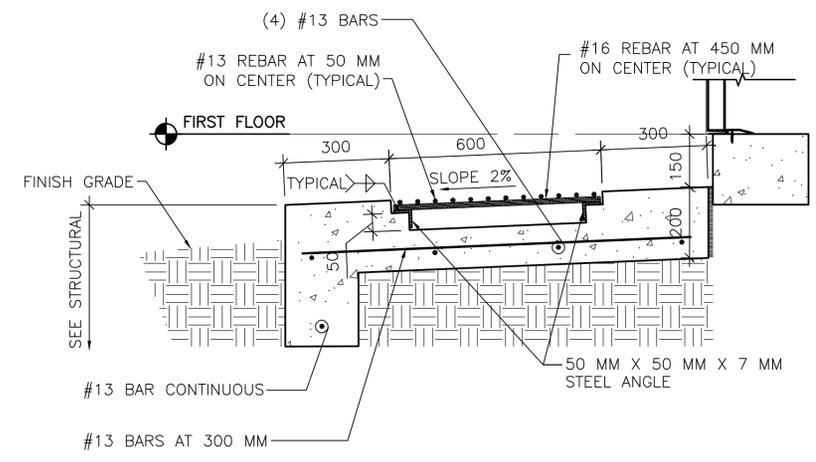
APPROVED: *X. R. Cliff*  
A/E DESIGNER OF RECORD



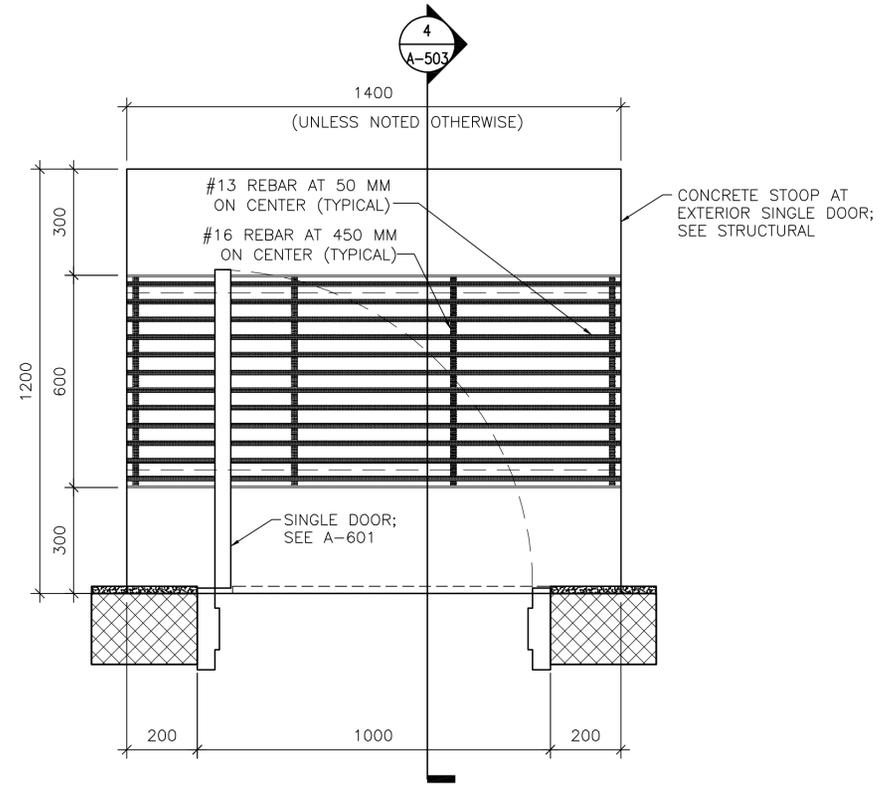
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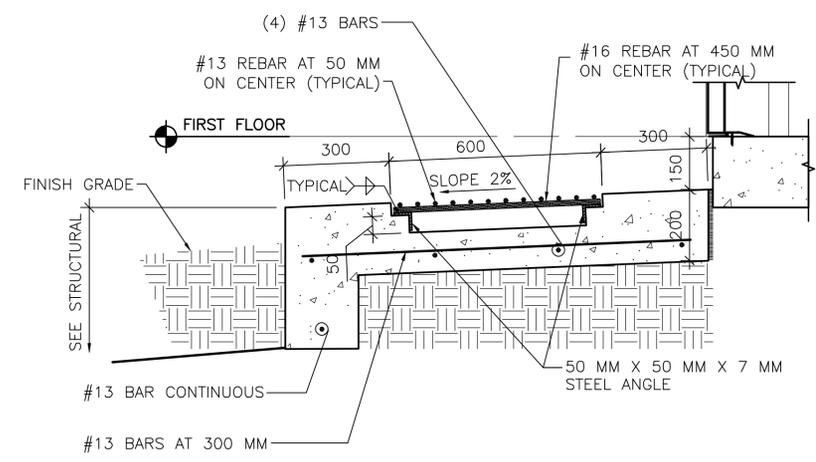
**2**  
A-503  
**DOOR STOOP PLAN (WITH GRATE)**  
SCALE: 1:10



**2**  
A-503  
**DOOR STOOP DETAIL**  
SCALE: 1:10



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



**4**  
A-503  
**DOOR STOOP DETAIL**  
SCALE: 1:10

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

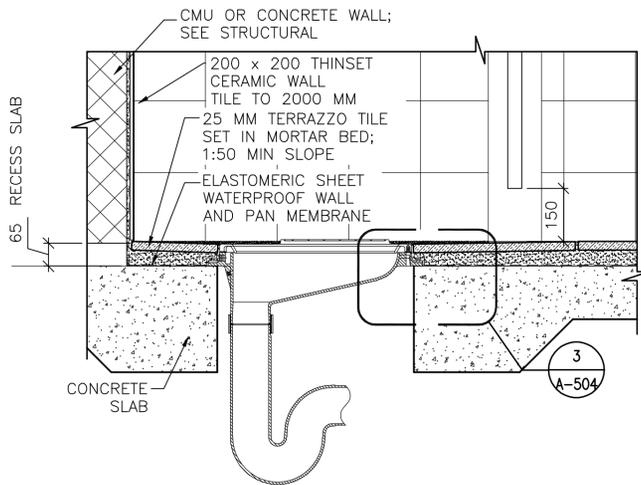


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		Date

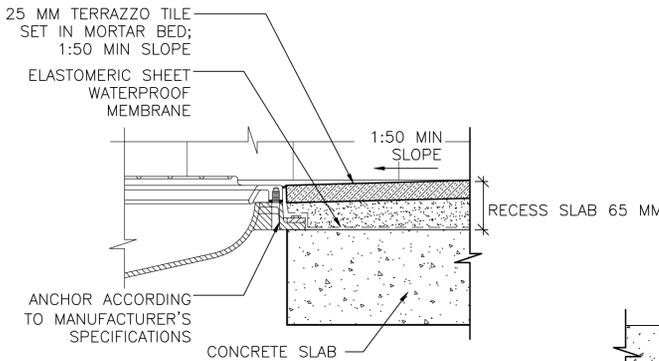
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Dwn by:	KJG	Reviewed by:	LHM
Submitted by:	BAKER	Drawing code:	ANAB00A-000T
		File name:	ANAB00A-000T
		Plot date:	2/23/2010
		Plot scale:	XX

AFGHAN NATIONAL ARMY  
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STANDARD DESIGN  
BOO OFFICER BARRACKS  
STOOP  
DETAILS

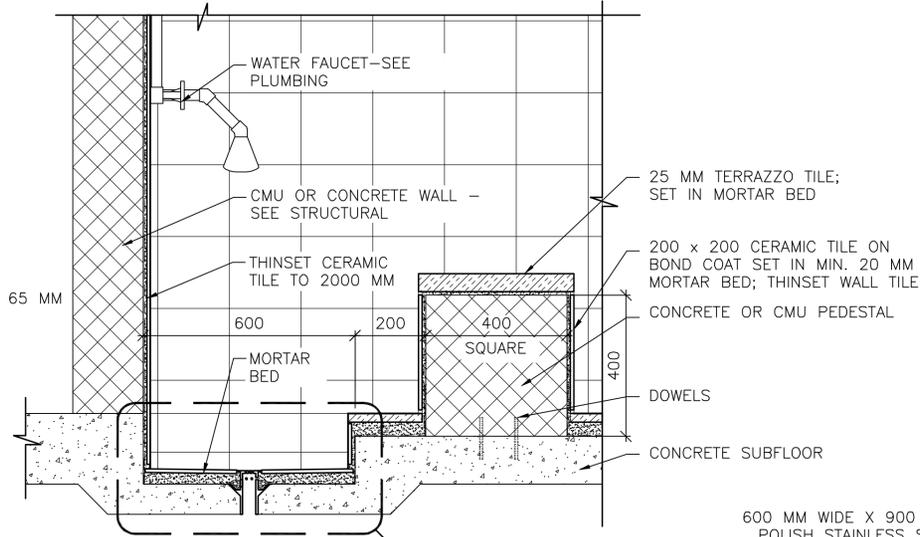
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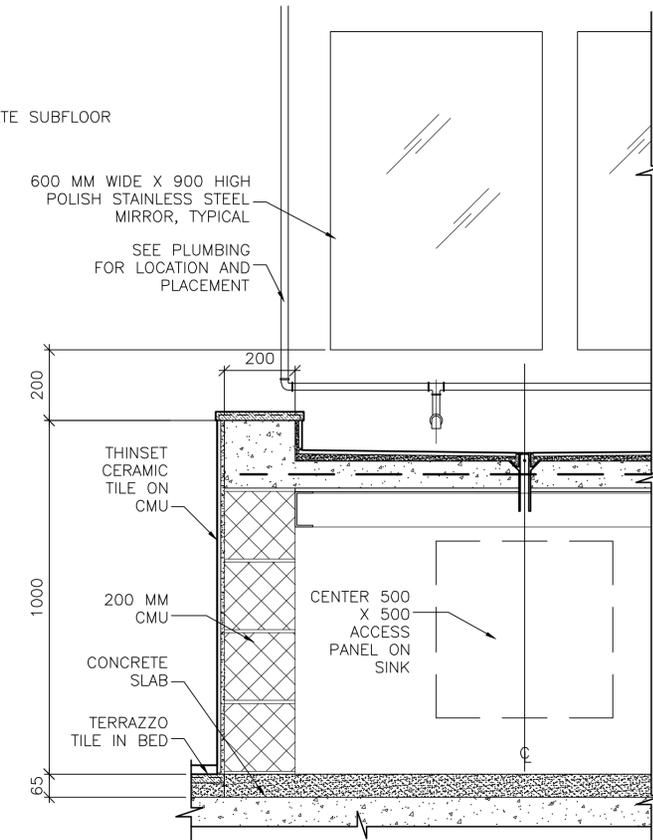
**1 LATRINE DETAIL**  
A-504 SCALE: 1:10



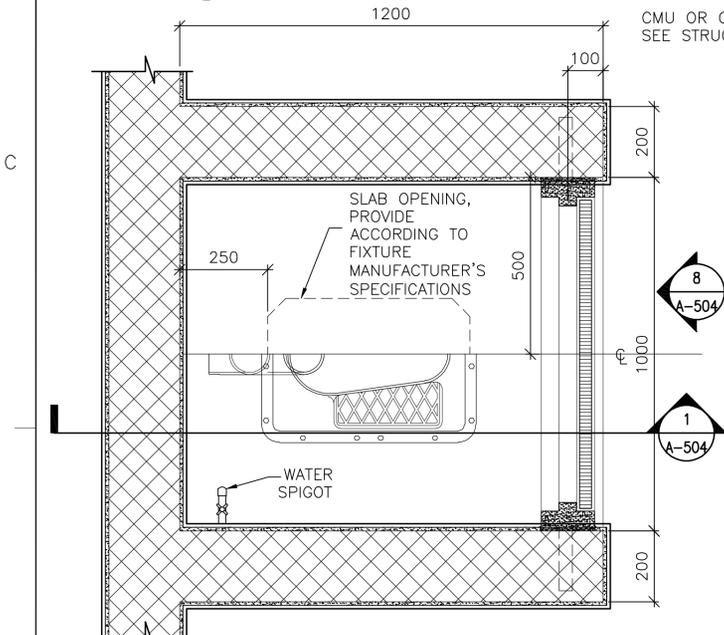
**3 MOUNTING DETAIL**  
A-504 SCALE: 1:5



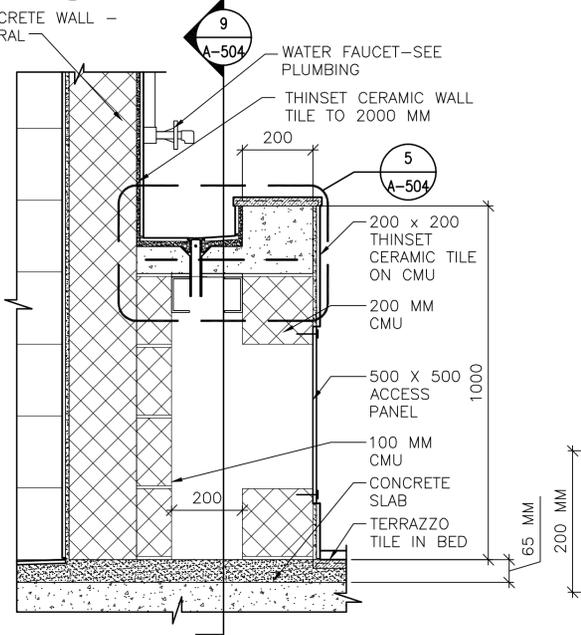
**7 ABLUTION DETAIL**  
A-504 SCALE: 1:10



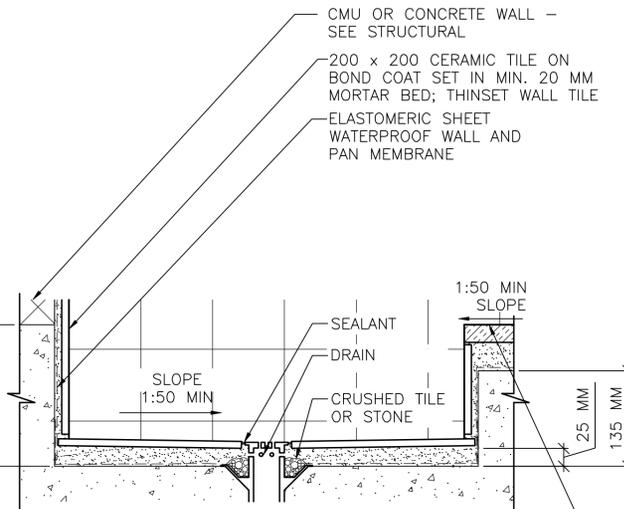
**9 LAVATORY SECTION**  
A-504 SCALE: 1:10



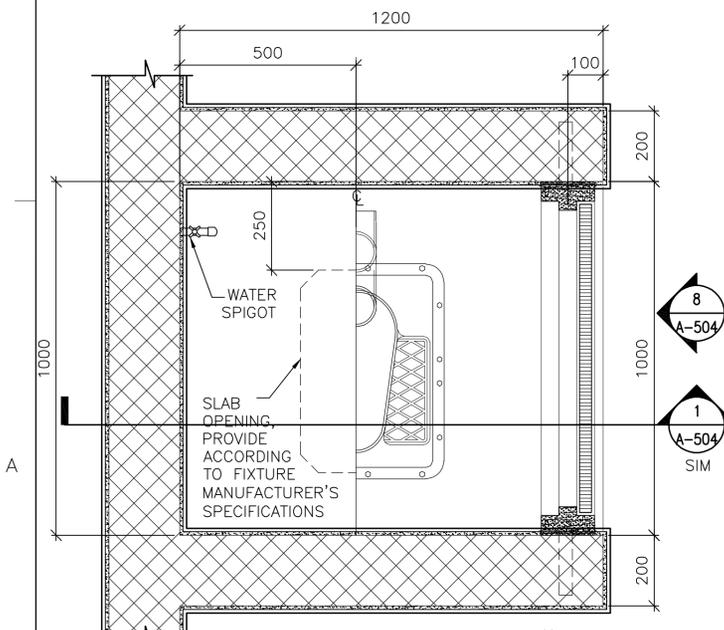
**2 TOILET DETAIL**  
A-504 SCALE: 1:10



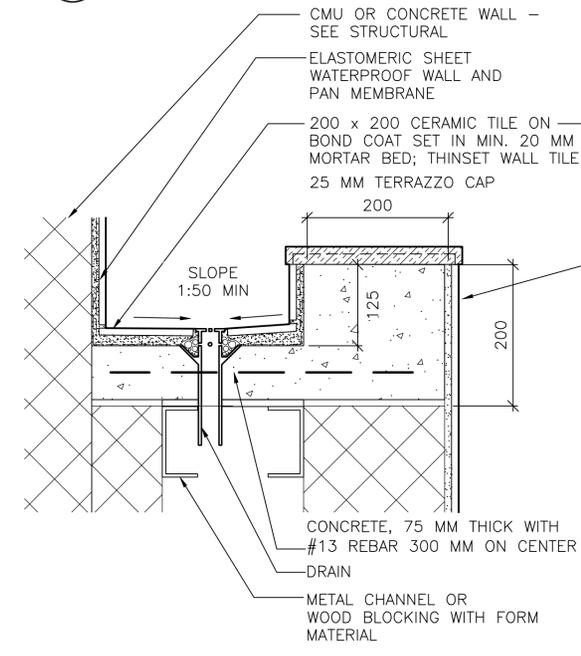
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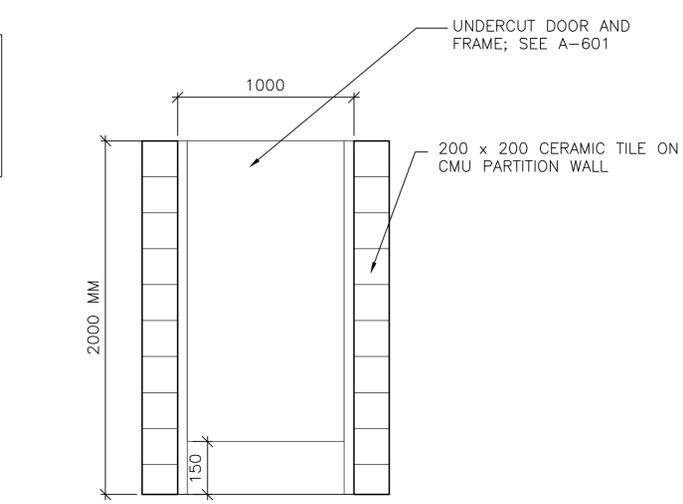
**6 RECESSED TROUGH**  
A-504 SCALE: 1:5



**2A TOILET DETAIL**  
A-504 SCALE: 1:10

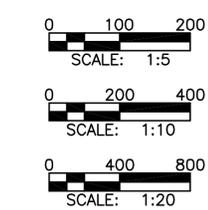


**5 LAVATORY DETAIL**  
A-504 SCALE: 1:5



**8 TOILET PARTITION DOOR ELEVATION**  
A-504 SCALE: 1:20

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



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

SEAL:   
KEVIN R. CHAFIN  
N. Charleston, SC 29574

US ARMY CORPS OF ENGINEERS  
AFGHANISTAN ENGINEER DISTRICT

Date	Rev.	Description

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

Date: 2/23/10  
Design file no.:  
Drawing code: ANMBOA-040T  
File name: ANMBOA-040T  
Plot date: 2/22/2010  
Plot scale: 1:1

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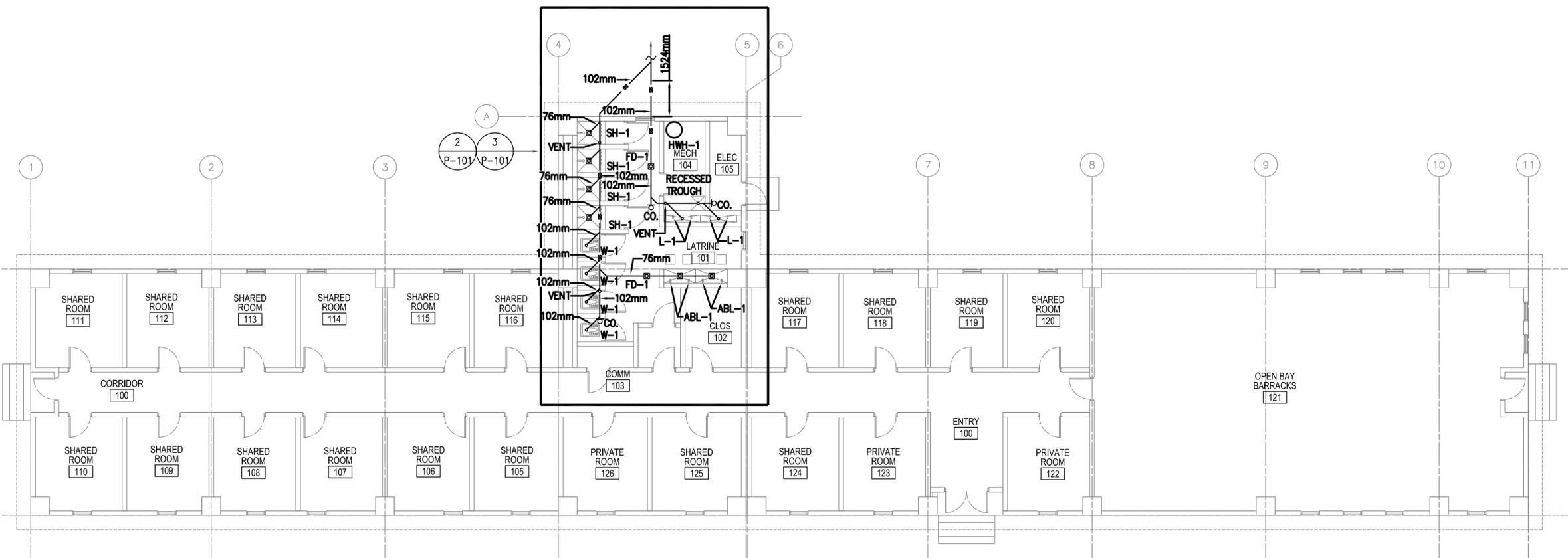
BOQ OFFICER BARRACKS  
TOILET, LAVATORY & ABLUTION  
DETAILS

Sheet reference number:  
**A-504**



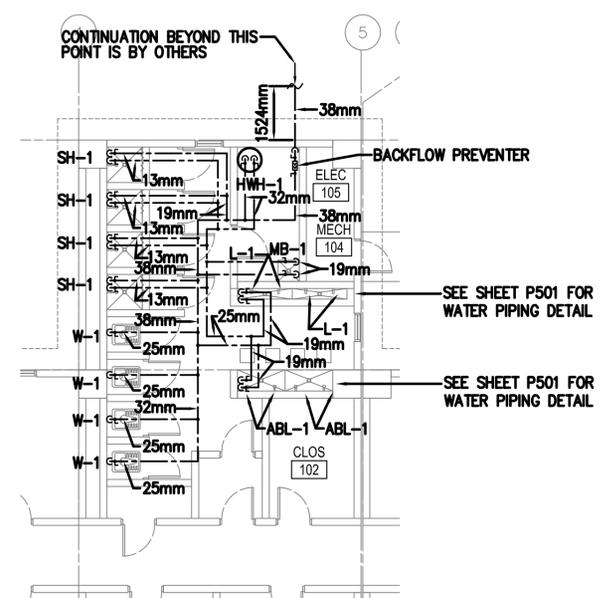




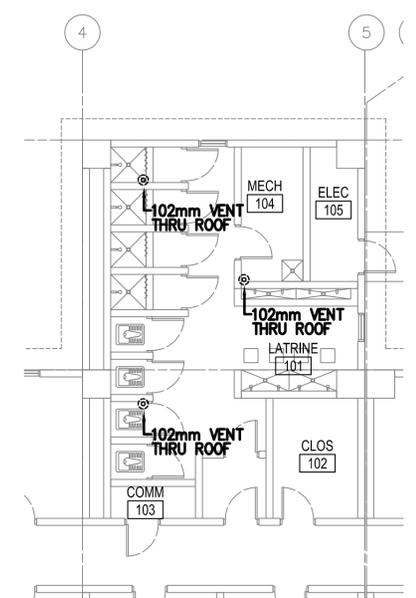


1  
P-101  
BOQ BARRACKS  
FLOOR PLAN - PLUMBING (SANITARY)  
SCALE: 1:100

- FLOOR PLAN 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.
  - 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 (1 INCH) COLD WATER LINE EXTENDED TO IT AND THEN BE REDUCED TO 13mm (1/2 INCH) FOR A FINAL CONNECTION TO THE FLUSH TANK AND A 102mm (4) INCH SANITARY CONNECTION.
  - ALL LAV FIXTURES IN THIS FACILITY ARE TO HAVE THE FIXTURE DESIGNATION OF L-1. EACH FIXTURE SHALL HAVE A 13mm (1/2 INCH) COLD WATER, 13mm (1/2 INCH) HOT WATER CONNECTION AND A 76mm (3 INCH) SANITARY CONNECTION.
  - ALL ABLUTION FIXTURES IN THIS FACILITY ARE TO HAVE THE FIXTURE DESIGNATION OF ABL-1. EACH FIXTURE SHALL HAVE A 13mm (1/2 INCH) COLD WATER, 13mm (1/2 INCH) HOT WATER CONNECTION AND A 76mm (3 INCH) SANITARY CONNECTION.
  - REFER TO SHEET P501, P502, AND P503 FOR DETAILS AND SYMBOLS.
  - ALL WATER, SANITARY AND VENT LINES TO BE EXPOSED. RUN LINES TIGHT TO CEILING AND WALL.



2  
P-101  
PARTIAL BOQ BARRACKS  
FLOOR PLAN - PLUMBING (HOT AND COLD WATER)  
SCALE: 1:100



3  
P-101  
PARTIAL BOQ BARRACKS  
FLOOR PLAN - PLUMBING (VENT PIPING)  
SCALE: 1:100

- PLUMBING SYMBOLS**
- SANITARY SEWER PIPING (BELOW GROUND)
  - SANITARY SEWER PIPING (ABOVE GROUND)
  - VENT PIPING (V)
  - COLD WATER PIPING (CW)
  - HOT WATER PIPING (HW)
  - BALL VALVE
  - BACKFLOW PREVENTER
  - OR --- CLEANOUT (CO.)
  - ROOF PENETRATION

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

APPROVED:

A/E DESIGNER OF RECORD

SEAL:

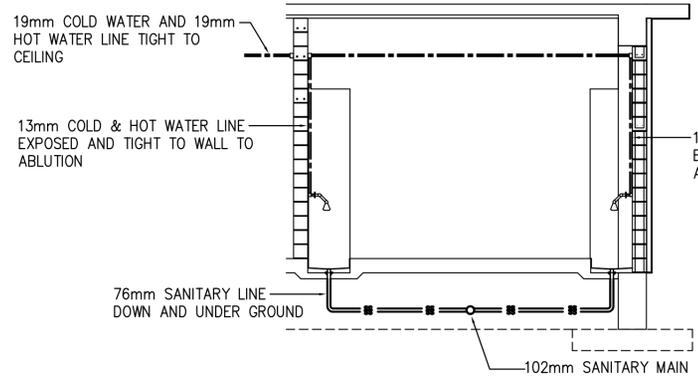
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		Drawing code:			
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		Plot date: 02/23/2010			
		Plot scale: 1:50			

Designed by: RMH	Checked by: CUM	Submitted by: BAKER
Dwn by: RMH	Reviewed by:	
U.S. ARMY CORPS OF ENGINEERS AFGHANISTAN ENGINEER DISTRICT APO AE 96338 Michael Baker Corp., Inc. A Unit of Michael Baker Corporation Arlide Business Park Moon Township, PA 15108 www.mbakercorp.com		

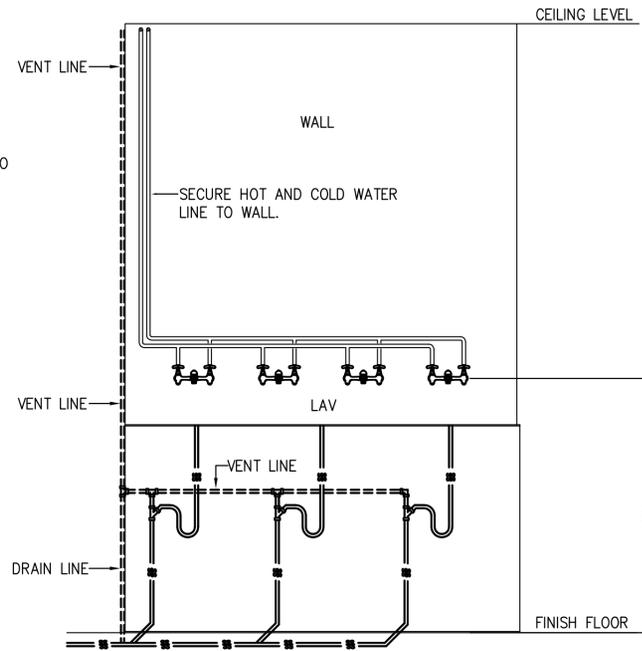
AFGHAN NATIONAL ARMY  
REGIONAL MILITARY TRAINING CENTER  
STANDARD DESIGN

BOQ OFFICER BARRACKS  
FLOOR PLAN - PLUMBING

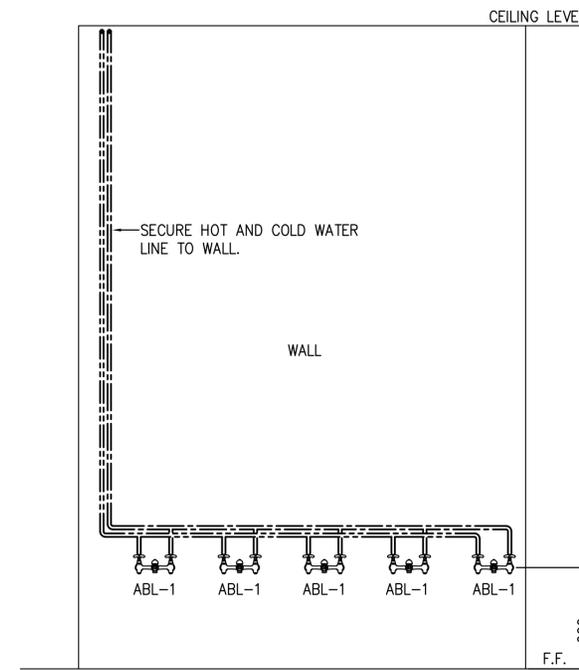
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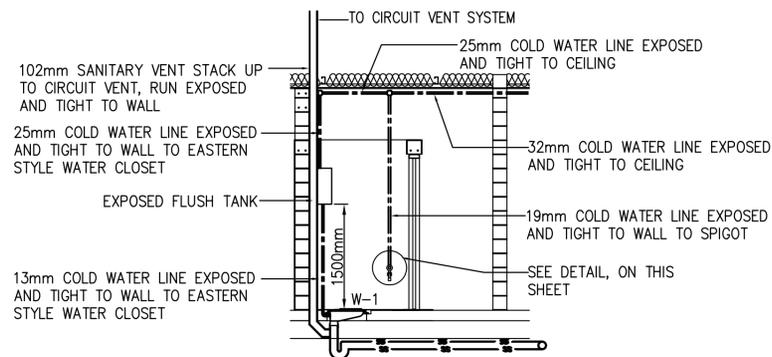
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SCALE: N.T.S.



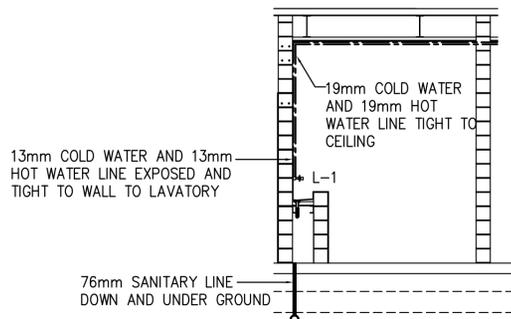
**LAVATORY ELEVATION PLAN - PLUMBING**  
SCALE: N.T.S.



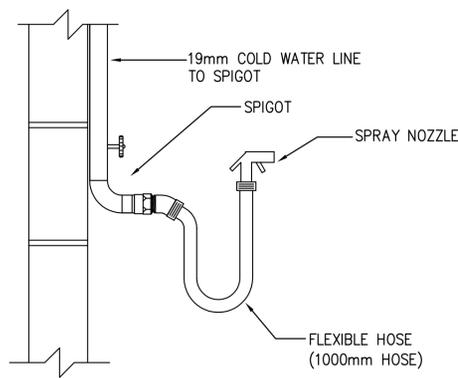
**TYPICAL ABLUTION ELEVATION PLUMBING PLAN - WATER INSTALLATION SCHEMATIC**  
SCALE: N.T.S.



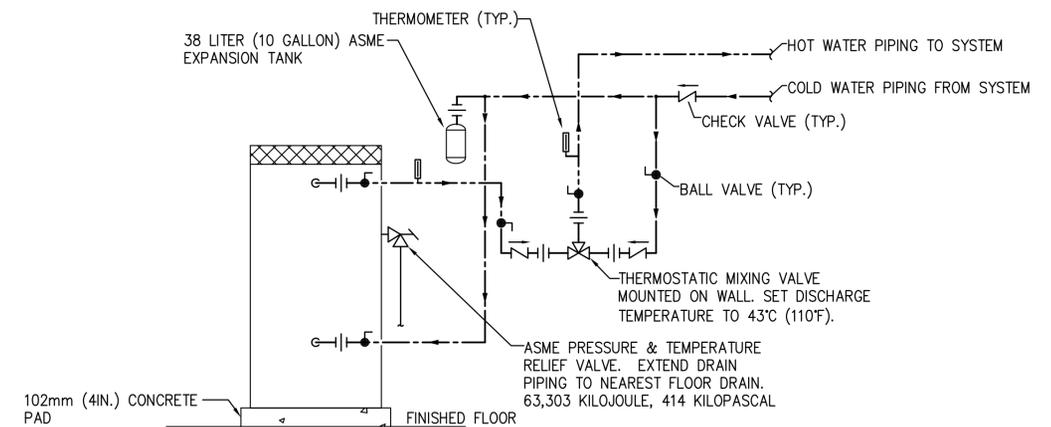
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SCALE: N.T.S.



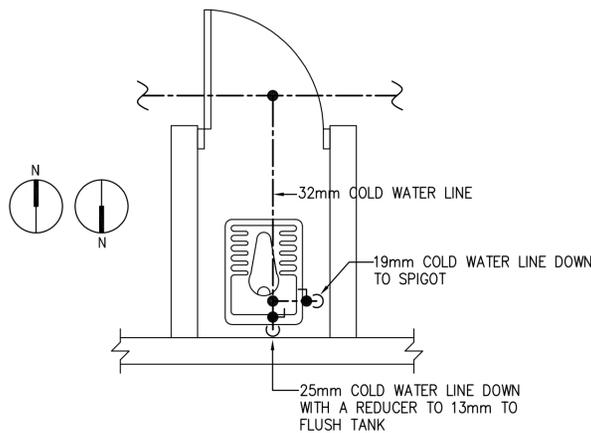
**TYPICAL LAVATORY SANITARY & WATER INSTALLATION SCHEMATIC**  
SCALE: N.T.S.



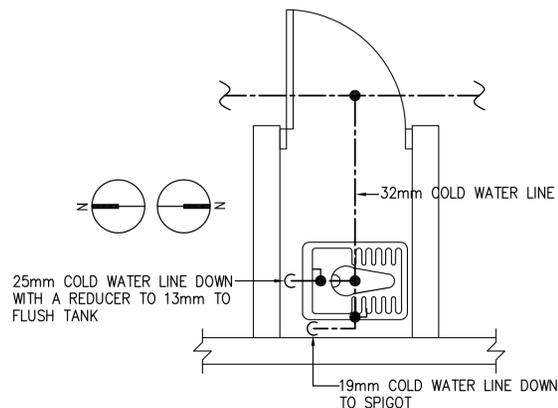
**TYPICAL DETAIL - SPIGOT, FLEXIBLE HOSE, AND SPRAY NOZZLE**  
SCALE: N.T.S.



**ELECTRIC WATER HEATER PIPING SCHEMATIC**  
SCALE: N.T.S.



**TYPICAL EASTERN STYLE WATER CLOSET WITH SPIGOT WATER PIPING DETAIL**  
SCALE: N.T.S.



**TYPICAL EASTERN STYLE WATER CLOSET WITH SPIGOT WATER PIPING DETAIL**  
SCALE: N.T.S.

**GENERAL PLUMBING NOTES:**

1. ALL SANITARY PIPING SHALL BE BELOW FLOOR, AND ALL WATER, AND VENT PIPING SHALL BE TIGHT TO CEILING, UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL COORDINATE PLUMBING WORK WITH THE WORK OF ALL OTHER TRADES. VERIFY THE LOCATIONS OF ALL UTILITIES AT THE SITE PRIOR TO THE START OF ANY PLUMBING WORK.
3. COORDINATE ALL ACCESS PANEL LOCATIONS WITH THE ARCHITECT AND GENERAL CONTRACTOR.
4. ALL SANITARY PIPING BELOW SLAB SHALL BE A MINIMUM OF 51mm, UNLESS OTHERWISE NOTED OR AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
5. ALL SANITARY BRANCH LINES SHALL BE SLOPED AT 6mm PER 305mm, AND ALL MAIN LINES SHALL BE SLOPED AT 3mm PER 305mm, UNLESS OTHERWISE NOTED OR AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH ALL UTILITY AUTHORITIES FOR INSTALLATION REQUIREMENTS, REGULATIONS, FEES, PERMITS, AND APPROVALS BEFORE THE START OF CONSTRUCTION.
7. THE CONTRACTOR SHALL ROUGH-IN AND CONNECT ALL EQUIPMENT REQUIRING WATER, WASTE, AND/OR VENT WHETHER OR NOT FURNISHED UNDER THIS CONTRACT. THE CONTRACTOR SHALL ALSO FURNISH AND INSTALL ALL NECESSARY PIPE, FITTINGS, VALVES, TRAPS, ETC., REQUIRED FOR A COMPLETE INSTALLATION, LEAVING SAME READY FOR SERVICE.

APPROVED:

A/E DESIGNER OF RECORD

SEAL:

US ARMY CORPS OF ENGINEERS  
AFGHANISTAN ENGINEER DISTRICT

Rev.	Date	Description	Mark	Date	Appr.
0	02/23/10	Design file no.			
		Drawing code:			
		File name: ANAB00R_0100X			
		Plot date: 02/20/10			
		Plot scale: 1:100			

Designed by: RMH  
Dwn by: RMH  
CJM

Col by: RMH  
Rev by: RMH  
Submitted by: MRS

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BOO OFFICER BARRACKS  
PLUMBING DETAILS

Sheet reference number:  
P-501

### FIXTURE LIST

TYPE	ITEM	SOIL & WASTE	VENT	COLD WATER	HOT WATER	REMARKS	REMARKS 2
W-1	EASTERN STYLE WATER CLOSET	102mm	51mm	13mm	-----	FLUSH TANK	LOW FLOW EFFICIENT TYPE
L-1	TROUGH FIXTURE	38mm	38mm	13mm	13mm	FABRICATED IN FIELD	LOW FLOW EFFICIENT TYPE
ABL-1	ABLUTION	FLOOR DRAIN	-----	13mm	13mm	FABRICATED IN FIELD	-----
HWH-1	WATER HEATER	---	---	SEE DWG.	SEE DWG.	151 LITER ELECTRIC WATER HEATER, 380/3Ø, 9KW	-----
SH-1	SHOWER	76mm	---	13mm	13mm	DRAIN AND SHOWER CONTROLS	-----

### GENERAL PLUMBING NOTES:

- ALL SANITARY PIPING SHALL BE BELOW FLOOR, AND ALL WATER, AND VENT PIPING SHALL BE TIGHT TO CEILING, UNLESS OTHERWISE NOTED.
- PLUMBING CONTRACTOR SHALL COORDINATE PLUMBING WORK WITH THE WORK OF ALL OTHER TRADES. VERIFY THE LOCATIONS OF ALL UTILITIES AT THE SITE PRIOR TO THE START OF ANY PLUMBING WORK.
- ALL SANITARY PIPING BELOW SLAB SHALL BE A MINIMUM OF 51mm, UNLESS OTHERWISE NOTED OR AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- ALL SANITARY BRANCH LINES SHALL BE SLOPED AT 6mm PER 305mm, AND ALL MAIN LINES SHALL BE SLOPED AT 3mm PER 305mm, UNLESS OTHERWISE NOTED OR AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH ALL UTILITY AUTHORITIES FOR INSTALLATION REQUIREMENTS, REGULATIONS, FEES, PERMITS, AND APPROVALS BEFORE THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL ROUGH-IN AND CONNECT ALL EQUIPMENT REQUIRING WATER, WASTE, AND/OR VENT WHETHER OR NOT FURNISHED UNDER THIS CONTRACT. THE CONTRACTOR SHALL ALSO FURNISH AND INSTALL ALL NECESSARY PIPE, FITTINGS, VALVES, TRAPS, ETC., REQUIRED FOR A COMPLETE INSTALLATION, LEAVING SAME READY FOR SERVICE.



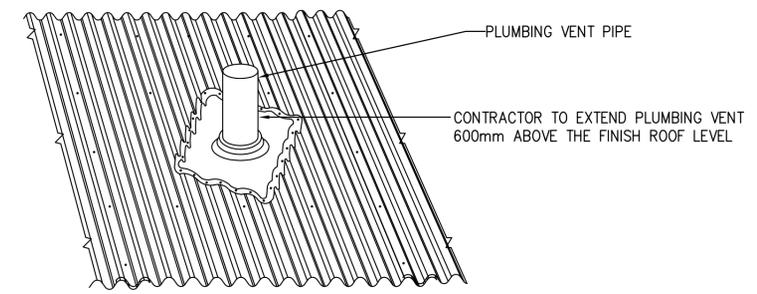
Rev.	Date	Description	Mark	Appr.
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Designed by: RMH	Checked by: CJM	Reviewed by: MRS	Submitted by: MRS
Date: 02/23/10	Design file no.:	Drawing code:	File name: ANAB00PL-020000 Plot date: 02/23/10 Plot scale: 1:100

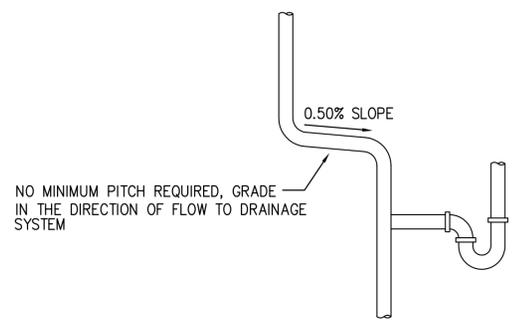
U.S. ARMY CORPS OF ENGINEERS  
AFGHANISTAN ENGINEER DISTRICT  
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PLUMBING DETAILS

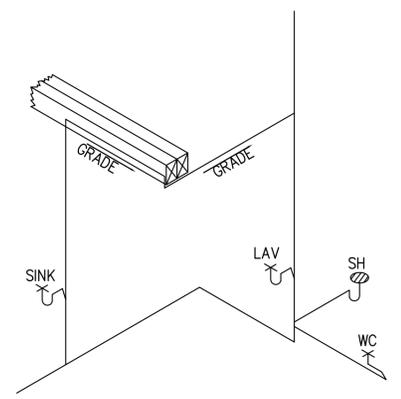
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P-502



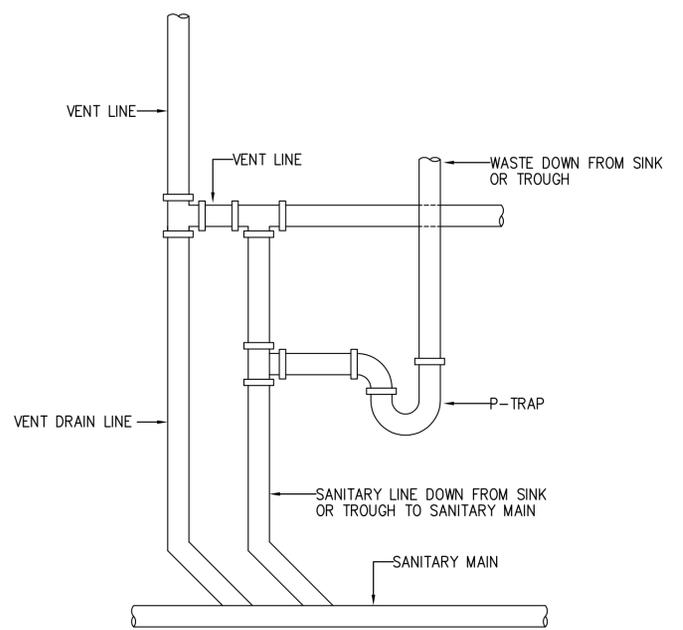
**PLUMBING VENT THRU ROOF DETAIL**  
SCALE: NTS



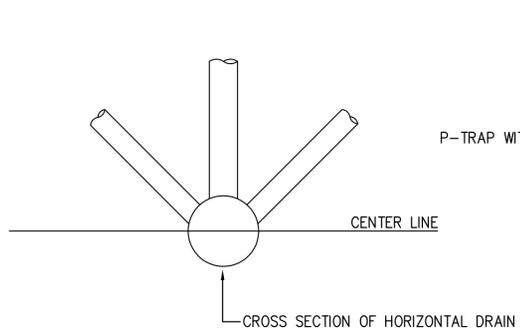
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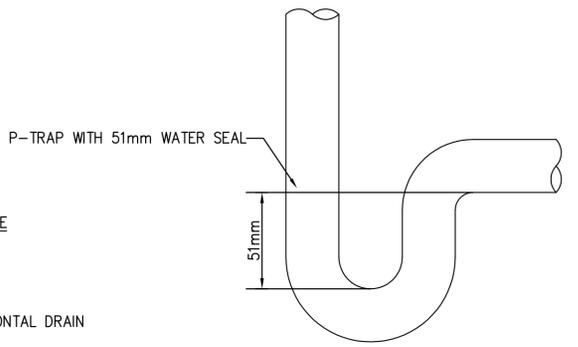
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SCALE: N.T.S.



**TYPICAL LAVATORY/LAUNDRY VENT DETAIL**  
SCALE: N.T.S.



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



**P-TRAP WITH 51mm WATER SEAL DETAIL**  
SCALE: N.T.S.

APPROVED:

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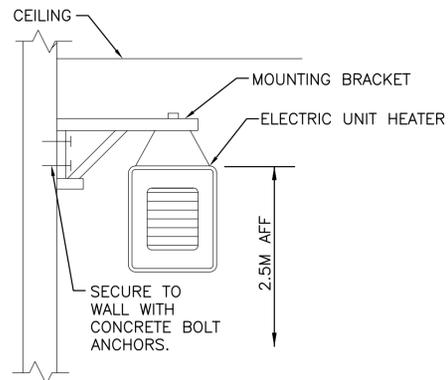
A/E DESIGNER OF RECORD

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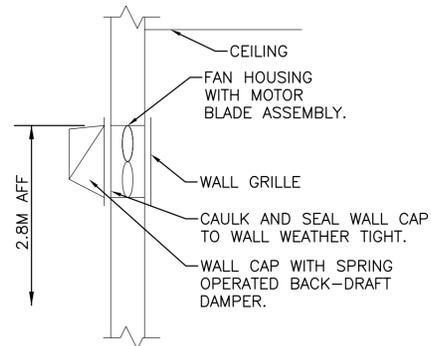
*Matthew R. Sotosky*



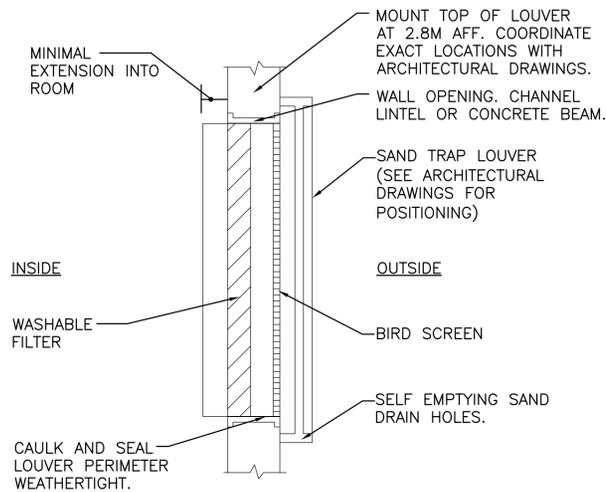




2 ELECTRIC UNIT HEATER MOUNTING DETAIL  
M-101 N.T.S.



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



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

**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)
- UC DOOR UNDERCUT
- TG 200x400 (8x16) TRANSFER GRILLE
- \$ SINGLE POLE SWITCH - 20A RATED

**ABBREVIATIONS:**

- AFF ABOVE FINISH FLOOR
- CF CEILING FANS
- CMS CUBIC METERS PER SECOND
- STATS THERMOSTATS

**KEY NOTE:**

- INLINE EXHAUST FAN DUCTED TO WALL CAP. SECURE FAN TO STRUCTURE ABOVE AND INTERLOCK WITH MAKE UP AIR HEATER.
- ELECTRIC MAKE UP AIR HEATER SECURED TO STRUCTURE ABOVE. BLOWER SHALL BE SET TO ENERGIZE WITH EXHAUST FAN EF-1 & WITH STAT, HEAT SHALL BE CONTROLLED BY THERMOSTAT.
- WALL EXHAUST FAN WITH LOW SPRING OPERATED BACK-DRAFT DAMPER. SEE DETAIL 3 THIS SHEET.
- 600X600 (24X24) INTAKE LOUVER FOR MAKE UP AIR UNIT. PROVIDE WEATHER PROOF LOUVER WITH 50mm (2") WASHABLE FILTER AND SAND TRAP.
- 200x150 (8x6) ALUMINUM DUCT MOUNTED SUPPLY GRILLE WITH ADJUSTABLE OPPOSED BLADE DAMPERS. BALANCE EACH GRILLE TO 0.070 CMS.
- 150x150 (6x6) ALUMINUM DUCT MOUNTED EXHAUST GRILLE WITH ADJUSTABLE OPPOSED BLADE DAMPERS. BALANCE EACH GRILLE TO 0.075 CMS.
- 150x150 (6x6) ALUMINUM WALL MOUNTED EXHAUST GRILLE WITH ADJUSTABLE OPPOSED BLADE DAMPERS. BALANCE GRILLE TO 0.030 CMS.
- 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).

**EXHAUST FAN SCHEDULE**

NO.	TYPE	FAN CMS	DRIVE	HP	SP mmH2O	ELECTRICAL DATA	SWITCH
EF-1	WALL	0.330	DIRECT	1/6	13	220/1/50	@ WALL
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	W/ STAT

**NOTES:**

- FANS SHALL HAVE LOW LEAKAGE GRAVITY LOUVER.

**MAKE UP AIR HEATERS**

NO.	BLOWER CMS	FUSE	KW	MIN. TEMP RISE °C	SP mmH2O	ELECTRICAL DATA	CONTROL
MUA-1	0.280	60	10	20	13	220/1/50	REMOTE

**NOTES:**

- PROVIDE REMOTE MOUNTED THERMOSTAT WITH LOCKING COVER.
- INTERLOCK BLOWER OPERATION WITH EXHAUST FANS EF-1 & STAT.
- PROVIDE AIR SENSING SWITCH FOR HEATING OPERATION.

**ELECTRIC UNIT HEATER SCHEDULE**

NO.	CMS	KW	F.A.T. °C	ELECT. CHAR.	MOUNTING
EH-2	0.200	2.6	38	380/1/50	WALL HUNG

**NOTES:**

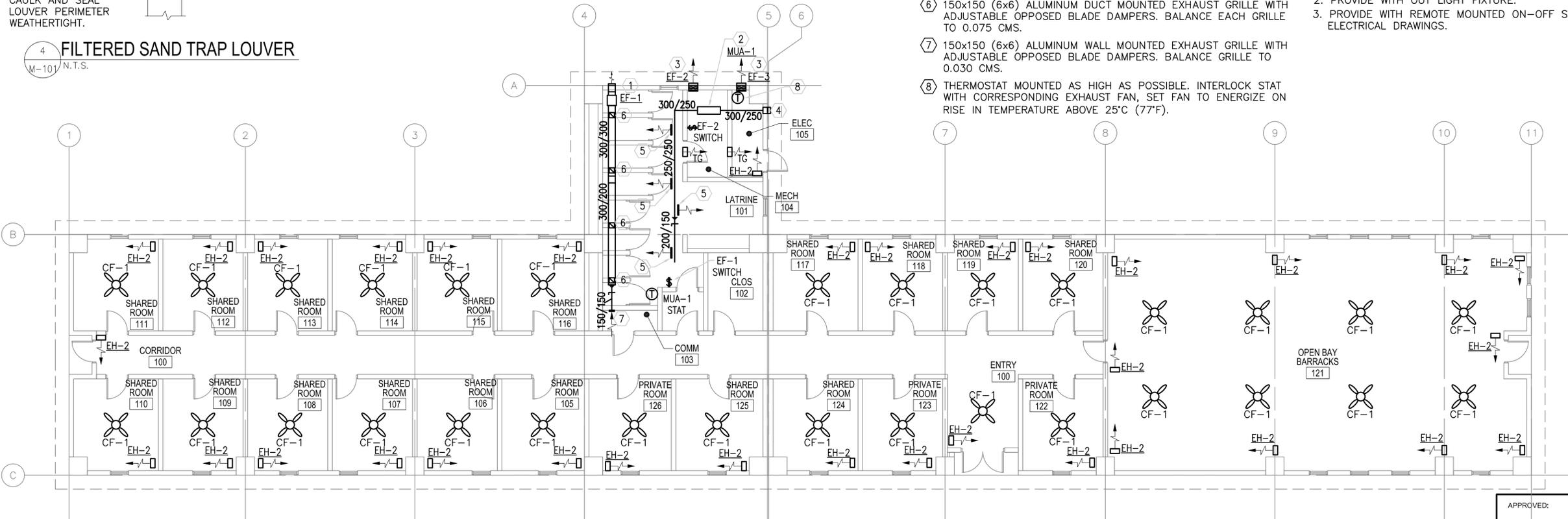
- UNIT HEATERS SHALL HAVE TAMPER PROOF INTEGRAL STATS.
- COORDINATE LOCATION AND ORIENTATION IN FIELD.

**CEILING FAN**

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

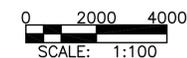
**NOTES:**

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



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

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



APPROVED:

A/E DESIGNER OF RECORD

SEAL:

*Matthew R. Sotosky*



Rev.	Date	Description	Mark
10	02/23/10	Design file no.	
		Drawing code:	
		File name: ANAB00M-101000	
		Plot date: 02/23/10	
		Plot scale: 1:100	

Designed by: RML  
Dwn by: JJJ  
Reviewed by: MRS  
Submitted by: BAKER

U.S. ARMY CORPS OF ENGINEERS  
AFGHANISTAN ENGINEER DISTRICT  
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A unit of Michael Baker Corporation  
Arliside Business Park  
Moon Township PA 15108  
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AFGHAN NATIONAL ARMY  
REGIONAL MILITARY TRAINING CENTER  
STANDARD DESIGN

BOO OFFICER BARRACKS  
HVAC - FLOOR PLAN,  
SCHEDULES AND DETAILS

Sheet reference number:  
M-101

















US ARMY CORPS OF ENGINEERS  
AFGHANISTAN ENGINEER DISTRICT

PANELBOARD		BOQ1		SURFACE		MOUNTED		400 AMP. MAIN LUGS (OR)		400 AMP. MAIN BREAKER W/		400 AMP. TRIP		CIRCUIT BREAKER TYPE		380/220 VOLTS		3 PHASE		4 WIRE		50 HZ		400 AMP. BUS			
Ckt. No.	TRIP AMPS	NO. OF POLES	WIRE MM <sup>2</sup>	GND MM <sup>2</sup>	CONDUIT MM	LOAD SERVED	LOAD-KVA			CONDUIT MM	GND MM <sup>2</sup>	WIRE MM <sup>2</sup>	NO. OF POLES	TRIP AMPS	Ckt. No.	LOAD SERVED	LOAD-KVA			CONDUIT MM	GND MM <sup>2</sup>	WIRE MM <sup>2</sup>	NO. OF POLES	TRIP AMPS	Ckt. No.		
							A0	B0	C0								A0	B0	C0								
1	20	1	4.0	4.0	20	LIGHTING - RM 100,122	1.1		1.6					20	2	LIGHTING - RM 105-116	20	4.0	4.0	1	20	2					
3	20	1	4.0	4.0	20	LIGHTING - RM 101, 104, 105		0.9		1.2				20	4	LTNG - RM 102,117-120,123-126	20	4.0	4.0	1	20	4					
5	20	1	4.0	4.0	20	LIGHTING - RM 121				1.0				20	6	RECEPTACLES - RM 100, 126	20	4.0	4.0	1	20	6					
7	20	2	4.0	4.0	20	ELECTRIC HEAT #2 - RM 121	1.3		1.0					20	8	RECEPTACLES - EXT., RM 121,122	20	4.0	4.0	1	20	8					
9							1.3		1.3					20	10	ELECTRIC HEAT #2 - RM 121	20	4.0	4.0	2	20	10					
11								1.3		1.3				20	12	ELECTRIC HEAT #2 - RM 121	20	4.0	4.0	2	20	12					
13	20	2	4.0	4.0	20	ELECTRIC HEAT #2 - RM 121	1.3							20	14	SPARE				1	20	14					
15							1.3							20	16	SPARE				1	20	16					
17	20	2	4.0	4.0	20	ELECTRIC HEAT #2 - RM 121			1.3					20	18	SPARE				1	20	18					
19							1.3							20	20	SPARE				1	20	20					
21	20	2	4.0	4.0	20	ELECTRIC HEAT #2 - RM 121			1.3					20	22	SPARE				1	20	22					
23									1.3					20	24	SPARE				1	20	24					
25							1.3							20	26	SPARE				1	20	26					
27	20	2	4.0	4.0	20	ELECTRIC HEAT #2 - RM 121			1.3					20	28	SPARE				1	20	28					
29									1.3					20	30	SPARE				1	20	30					
31	20	2	4.0	4.0	20	ELECTRIC HEAT #2 - RM 121	1.3		30.1					20	32									20	32		
33								1.3		20.7				20	34	PANEL 'BOQ3'	50	16.0	70.0	3	175	34			20	34	
35	20	1	4.0	4.0	20	FACP - RM 103			0.5		20.7			20	36										20	36	
37	20	1	4.0	4.0	20	RECEPTACLES - 100,102,104,EXT	1.0		18.1					20	38											20	38
39	20	1				SPARE				16.4				20	40	PANEL 'BOQ2'	40	16.0	50.0	3	125	40			20	40	
41	20	1				SPARE				15.5				20	42											20	42
							8.6	7.4	6.9	50.8	39.6	38.5															
TOTAL CONN. LOAD PER PHASE (KVA):							A0	59.4	B0	47.0	C0	45.4															
TOTAL CONN. LOAD							151.8	KVA.	70	% DEMAND = ESTIMATED DEMAND LOAD	106.26																

\* MAIN BREAKER SHALL BE 3P EARTH GROUND TYPE

PANELBOARD		BOQ2		SURFACE		MOUNTED		400 AMP. MAIN LUGS (OR)		400 AMP. MAIN BREAKER W/		400 AMP. TRIP		CIRCUIT BREAKER TYPE		380/220 VOLTS		3 PHASE		4 WIRE		50 HZ		400 AMP. BUS		
Ckt. No.	TRIP AMPS	NO. OF POLES	WIRE MM <sup>2</sup>	GND MM <sup>2</sup>	CONDUIT MM	LOAD SERVED	LOAD-KVA			CONDUIT MM	GND MM <sup>2</sup>	WIRE MM <sup>2</sup>	NO. OF POLES	TRIP AMPS	Ckt. No.	LOAD SERVED	LOAD-KVA			CONDUIT MM	GND MM <sup>2</sup>	WIRE MM <sup>2</sup>	NO. OF POLES	TRIP AMPS	Ckt. No.	
							A0	B0	C0								A0	B0	C0							
1	20	2	4.0	4.0	20	ELECTRIC HEAT #2 - RM 110	1.3		1.3					20	2	ELECTRIC HEAT #2 - RM 111	20	4.0	4.0	2	20	2				
3								1.3						20	4	ELECTRIC HEAT #2 - RM 112	20	4.0	4.0	2	20	4				
5	20	2	4.0	4.0	20	ELECTRIC HEAT #2 - RM 109			1.3					20	6	ELECTRIC HEAT #2 - RM 113	20	4.0	4.0	2	20	6				
7							1.3			1.3				20	8	ELECTRIC HEAT #2 - RM 114	20	4.0	4.0	2	20	8				
9	20	2	4.0	4.0	20	ELECTRIC HEAT #2 - RM 108			1.3					20	10	ELECTRIC HEAT #2 - RM 115	20	4.0	4.0	2	20	10				
11								1.3						20	12	ELECTRIC HEAT #2 - RM 116	20	4.0	4.0	2	20	12				
13	20	2	4.0	4.0	20	ELECTRIC HEAT #2 - RM 107	1.3		1.3					20	14	ELECTRIC HEAT #2 - RM 117	20	4.0	4.0	2	20	14				
15								1.3						20	16	ELECTRIC HEAT #2 - RM 118	20	4.0	4.0	2	20	16				
17	20	2	4.0	4.0	20	ELECTRIC HEAT #2 - RM 106			1.3					20	18	ELECTRIC HEAT #2 - RM 119	20	4.0	4.0	2	20	18				
19							1.3			1.3				20	20	ELECTRIC HEAT #2 - RM 120	20	4.0	4.0	2	20	20				
21	20	2	4.0	4.0	20	ELECTRIC HEAT #2 - RM 105			1.3					20	22	ELECTRIC HEAT #2 - RM 121	20	4.0	4.0	2	20	22				
23									1.3					20	24	ELECTRIC HEAT #2 - RM 122	20	4.0	4.0	2	20	24				
25	20	2	4.0	4.0	20	ELECTRIC HEAT #2 - RM 126	1.3		1.3					20	26	ELECTRIC HEAT #2 - RM 100	20	4.0	4.0	2	20	26				
27								1.3						20	28	ELECTRIC HEAT #2 - RM 100	20	4.0	4.0	2	20	28				
29	20	1	4.0	4.0	20	RECEPTACLES - RM 109,110			1.2		1.2			20	30	RECEPTACLES - RM 111,112	20	4.0	4.0	1	20	30				
31	20	1	4.0	4.0	20	RECEPTACLES - RM 108	1.2		1.2		1.2			20	32	RECEPTACLES - RM 112,113	20	4.0	4.0	1	20	32				
33	20	1	4.0	4.0	20	RECEPTACLES - RM 106,107			1.2		1.0			20	34	RECEPTACLES - RM 100, EXT.	20	4.0	4.0	1	20	34				
35	20	1	4.0	4.0	20	CEILING FANS - RM 105-110			1.5		1.2			20	36	RECEPTACLES - RM 114,115	20	4.0	4.0	1	20	36				
37	20	1	4.0	4.0	20	RECEPTACLES - RM 105,106	1.2		1.5		1.2			20	38	CEILING FANS - RM 111-116	20	4.0	4.0	1	20	38				
39	20	1				SPARE				1.2				20	40	RECEPTACLES - RM 115,116	20	4.0	4.0	1	20	40				
41	20	1				SPARE								20	42	SPARE	20	4.0	4.0	1	20	42				
							8.9	7.7	7.9	9.2	8.7	7.6														
TOTAL CONN. LOAD PER PHASE (KVA):							A0	18.1	B0	16.4	C0	15.5														
TOTAL CONN. LOAD							50	KVA.	70	% DEMAND = ESTIMATED DEMAND LOAD	35															

\* MAIN BREAKER SHALL BE 3P EARTH GROUND TYPE

PANELBOARD		BOQ3		SURFACE		MOUNTED		400 AMP. MAIN LUGS (OR)		175 AMP. MAIN BREAKER W/		175 AMP. TRIP		CIRCUIT BREAKER TYPE		380/220 VOLTS		3 PHASE		4 WIRE		50 HZ		225 AMP. BUS	
Ckt. No.	TRIP AMPS	NO. OF POLES	WIRE MM <sup>2</sup>	GND MM <sup>2</sup>	CONDUIT MM	LOAD SERVED	LOAD-KVA			CONDUIT MM	GND MM <sup>2</sup>	WIRE MM <sup>2</sup>	NO. OF POLES	TRIP AMPS	Ckt. No.	LOAD SERVED	LOAD-KVA			CONDUIT MM	GND MM <sup>2</sup>	WIRE MM <sup>2</sup>	NO. OF POLES	TRIP AMPS	Ckt. No.
							A0	B0	C0								A0	B0	C0						
1	60	1	25.0	6.0	25	MAKE UP AIR #1 - RM 105	10.0		1.3					20	2	ELECTRIC HEAT #2 - RM 125	20	4.0	4.0	2	20	2			
3	20	1	4.0	4.0	20	EXHAUST FAN #1 - RM 101		0.5		1.3				20	4	ELECTRIC HEAT #2 - RM 126	20	4.0	4.0	2	20	4			
5	20	1	4.0	4.0	20	EXHAUST FAN #3 - RM 105			0.5		1.3			20	6	ELECTRIC HEAT #2 - RM 127	20	4.0	4.0	2	20	6			
7	20	1	4.0	4.0	20	EXHAUST FAN #2 - RM 104	0.5		1.3					20	8	ELECTRIC HEAT #2 - RM 128	20	4.0	4.0	2	20	8			
9								5.0		1.3				20	10	ELECTRIC HEAT #2 - RM 129	20	4.0	4.0	2	20	10			
11	30	3	6.0	6.0	20	WATER HEATER - RM 104			5.0		1.3			20	12	ELECTRIC HEAT #2 - RM 130	20	4.0	4.0	2	20	12			
13							5.0		1.3					20	14	ELECTRIC HEAT #2 - RM 131	20	4.0	4.0	2	20	14			
15								1.3		1.3				20	16	ELECTRIC HEAT #2 - RM 132	20	4.0	4.0	2	20	16			
17	20	2	4.0	4.0	20	ELECTRIC HEAT #2 - RM 105			1.3		1.3			20	18	ELECTRIC HEAT #2 - RM 133	20	4.0	4.0	2	20	18			
19							1.3			1.3				20	20	ELECTRIC HEAT #2 - RM 134	20	4.0	4.0	2	20	20			
21	20	2	4.0	4.0	20	ELECTRIC HEAT #2 - RM 117			1.3		1.3			20	22	ELECTRIC HEAT #2 - RM 135	20	4.0	4.0	2	20	22			
23									1.3		1.3			20	24	ELECTRIC HEAT #2 - RM 136	20	4.0	4.0	2	20	24			
25	20	2	4.0	4.0	20	ELECTRIC HEAT #2 - RM 118	1.3		1.5		1.3			20	26	CEILING FANS - RM 122-125, 117-120	20	4.0	4.0	1	20	26			
27								1.3		1.2				20	28	RECEPTACLES - RM 125, 125	20	4.0	4.0	1	20	28			
29	20	2	4.0	4.0	20	ELECTRIC HEAT #2 - RM 119			1.3		1.2			20	30	RECEPTACLES - RM 123, 124	20	4.0	4.0	1	20	30			
31							1.3		1.2		1.2			20	32	RECEPTACLES - RM 100, 122	20	4.0	4.0	1	20	32			
33	20	2	4.0	4.0	20	ELECTRIC HEAT #2 - RM 120			1.3		1.2			20	34	RECEPTACLES - RM 121	20	4.0	4.0	1	20	34			
35									1.3		1.2			20	36	RECEPTACLES - RM 121	20	4.0	4.0	1	20	36			
37	20	2	4.0	4.0	20	ELECTRIC HEAT #2 - RM 121	1.3		1.5		1.2			20	38	CEILING FANS - RM 121	20	4.0	4.0	1	20	38			
39	20	1	4.0	4.0																					