





**STRUCTURAL DESIGN CRITERIA**

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

**1.0 DESIGN LOADS**

**1.1 DEAD LOADS**

**1.1.1 ROOF DEAD LOADS**

|      | MAXIMUM GRAVITY LOAD | MINIMUM GRAVITY LOAD |
|------|----------------------|----------------------|
| MISC | 0.05 KPa             | 0.00 KPa             |
|      | 0.05 KPa             | 0.00 KPa             |

**1.1.2 ROOF DEAD LOADS - CONCRETE FRAMING**

|                | MAXIMUM GRAVITY LOAD |
|----------------|----------------------|
| CONC FLAT SLAB | 6.00 KPa             |
| MISC           | 0.05 KPa             |
|                | 6.05 KPa             |

**1.2 LIVE LOADS (PER IBC 2006)**

**1.2.1 ROOF LIVE LOADS: ALL BUILDINGS**

GREATER OF 1.0 KPa MINIMUM OR SNOW LOAD

**1.2.2 SLAB-ON-GRADE LIVE LOADS**

LIVE LOAD 12.0 KPa

**1.3 SNOW LOADS (PER IBC 2006)**

**1.3.1 DESIGN PARAMETERS**

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

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

**1.4.1 SEISMIC PARAMETERS - LOAD BEARING MASONRY**

SEISMIC OCCUPANCY CATEGORY II  
 SEISMIC IMPORTANCE FACTOR (I) 1.0  
 SEISMIC SITE CLASS D  
 Ss 1.280  
 S1 0.510  
 Sds 0.853  
 Sd1 0.510  
 SEISMIC DESIGN CATEGORY D  
 SEISMIC RESISTING SYSTEM BEARING WALL SYSTEM  
 SPECIAL REINF SHEAR WALLS  
 RESPONSE MODIFICATION FACTOR (R) 5.0  
 RESPONSE COEFFICIENT (Cs) 0.170  
 SEISMIC ANALYTICAL PROCEDURE EQUIV LATERAL FORCE  
 SEISMIC BASE SHEAR 284.7kN

**1.5 WIND LOADS (PER IBC 2006)**

**1.5.1 DESIGN PARAMETERS**

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

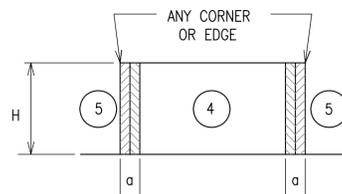
**1.5.2 DESIGN WIND PRESSURE - MAIN WINDFORCE RESISTING SYSTEM**

| LOCATION    | CORNER ZONE WIDTH "a" | MEAN ROOF HEIGHT "h" | WINDWARD WALL (@ MEAN ROOF HEIGHT) | LEEWARD WALL (@ MEAN ROOF HEIGHT) | ROOF                   |
|-------------|-----------------------|----------------------|------------------------------------|-----------------------------------|------------------------|
| FIELD ZONE  | N/A                   | 3790mm               | 508 N/m <sup>2</sup>               | 286 N/m <sup>2</sup>              | 867 N/m <sup>2</sup>   |
| CORNER ZONE | 900mm                 | 3790mm               | 776 N/m <sup>2</sup>               | 421 N/m <sup>2</sup>              | -1340 N/m <sup>2</sup> |

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

**1.5.3 DESIGN WIND PRESSURE - WALL COMPONENTS AND CLADDING**

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



| LOCATION                 | WINDWARD PRESSURE N/m <sup>2</sup> (inward) |     | LEEWARD PRESSURE N/m <sup>2</sup> (outward) |         | a    |
|--------------------------|---|-----|---|---------|------|
|                          | ④   | ⑤   | ④   | ⑤       |      |
| MAIN BUILDING            |   |     |   |         | (mm) |
| AREA = 1 m <sup>2</sup>  | 909   | 909 | -986  | -1216   | 900  |
| AREA = 2 m <sup>2</sup>  | 867   | 867 | -948  | -1134.8 | 900  |
| AREA = 5 m <sup>2</sup>  | 804   | 804 | -885  | -1010   | 900  |
| AREA = 10 m <sup>2</sup> | 804   | 804 | -885  | -1010   | 900  |

**NOTES:**

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

**CMU LINTEL SCHEDULE**

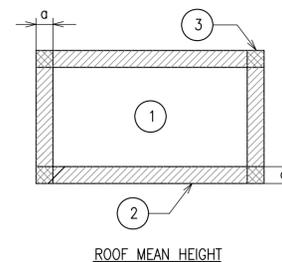
| OPENING TYPE OR SIZE, BEAM LOCATION OR TYPE | MAX SPAN (mm) | BEAM DEPTH (mm) | MAIN REINFORCING |        |       | SHEAR REINF STIRRUPS |
|---|---------------|-----------------|------------------|--------|-------|----------------------|
|   |               |                 | TOP              | BOTTOM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

- STRUCTURAL DRAWINGS DO NOT INDICATE ALL OPENINGS IN MASONRY WALLS. VERIFY NUMBER, SIZE AND LOCATION OF ALL OPENINGS IN MASONRY WALLS FROM ARCHITECTURAL SHEETS AND APPROVED PLUMBING, MECHANICAL, AND ELECTRICAL SHOP DRAWINGS.
- PROVIDE 200mm BEARING EA END FOR 200mm DEEP CMU LINTEL PROVIDE 400mm BEARING EA END FOR 400mm DEEP CMU LINTEL.
- FOR HEAD DETAILS REFER TO ARCHITECTURAL SHEETS.
- REINFORCING SHALL BE ASTM A615M, GRADE 420. CONCRETE FOR CAST-IN-PLACE BEAMS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 28 MPa AT 28 DAYS.
- CONTRACTOR SHALL SUBMIT FOR APPROVAL SHOP DRAWINGS AND SCHEDULES SHOWING SIZE, DETAILS, LOCATIONS, ETC FOR ALL CAST-IN-PLACE BEAMS IN CMU WALLS.

**1.5 WIND LOADS (CON'T)**

**1.5.4 DESIGN WIND PRESSURE - ROOF COMPONENTS AND CLADDING**

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



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

**NOTES:**

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

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

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

**2.1.1 SOIL DESIGN PARAMETERS**

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

**CONCRETE COVER SCHEDULE**

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

|  |                   |
|--|-------------------|
| FOOTINGS (EARTH FORMED)  | 70                |
| COLUMNS / PIERS (TO TIES)  | 40                |
| GRADE BEAMS OR SLAB TURNED DOWN EDGES:   |                   |
| TOP  | 40                |
| BOTTOM (EARTH FORMED)  | 70                |
| SIDES (EARTH FORMED)   | 70                |
| SIDES (BOARD FORMED)   | 40                |
|  | #16 BAR & SMALLER |
|  | #19 THRU #36 BAR  |
| ELEVATED BEAMS & SLABS:  |                   |
| BEAM TIES & STIRRUPS (NOT EXPOSED TO WEATHER)  | 40                |
| BEAM TIES & STIRRUPS (EXPOSED TO WEATHER)  | 50                |
| FLOOR SLABS (NOT EXPOSED TO WEATHER)   | 20                |
| FLOOR SLABS (EXPOSED TO WEATHER)   |                   |
| #19 & LARGER   | 50                |
| #13 & SMALLER  | 40                |
| ROOF SLAB BARS   | 25                |
| SLABS-ON-GRADE (NO EXPOSURE TO WEATHER) FROM TOP   | 20                |
| SLABS-ON-GRADE (EXPOSURE TO WEATHER) FROM TOP  | 40                |
| UTILITY TUNNEL WALLS, RETAINING WALLS AND SHEAR WALLS, (NO SURFACES SHALL BE EARTH FORMED)     |                   |
| EARTH SIDE AND FRONT SIDE (EXPOSED TO WEATHER):  |                   |
| #16 BAR AND SMALLER  | 40                |
| #19 THRU #36 BAR   | 50                |
| PROVIDE STANDARD BAR CHAIRS AND SPACERS AS REQUIRED TO MAINTAIN CONCRETE PROTECTION SPECIFIED. |                   |

US Army Corps of Engineers  
 Afghanistan Engineer District

| SYMBOL | DESCRIPTION | DATE |
|--------|-------------|------|
|        |             |      |

DESIGNED BY: DATE: 09-30-09  
 GDH  
 SUBMITTED BY: BAKER  
 MDB  
 FILE NO: ANPSUS-002XXX  
 CWV  
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 1000 Business Park  
 Moon Township, PA 15108  
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AFGHAN NATIONAL POLICE  
 STANDARD DESIGN  
 SECURE STORAGE  
 DESIGN CRITERIA

SHEET REFERENCE NUMBER:  
**S2**





| DATE | DESCRIPTION |
|------|-------------|
| APR  |             |

|              |               |          |
|--------------|---------------|----------|
| DESIGNED BY: | DATE:         | 09-30-09 |
| GDH          | SUBMITTED BY: | BAKER    |
| MDB          | CHK BY:       | CWW      |
| FILE NO.:    | ANFSDS-305XXX |          |

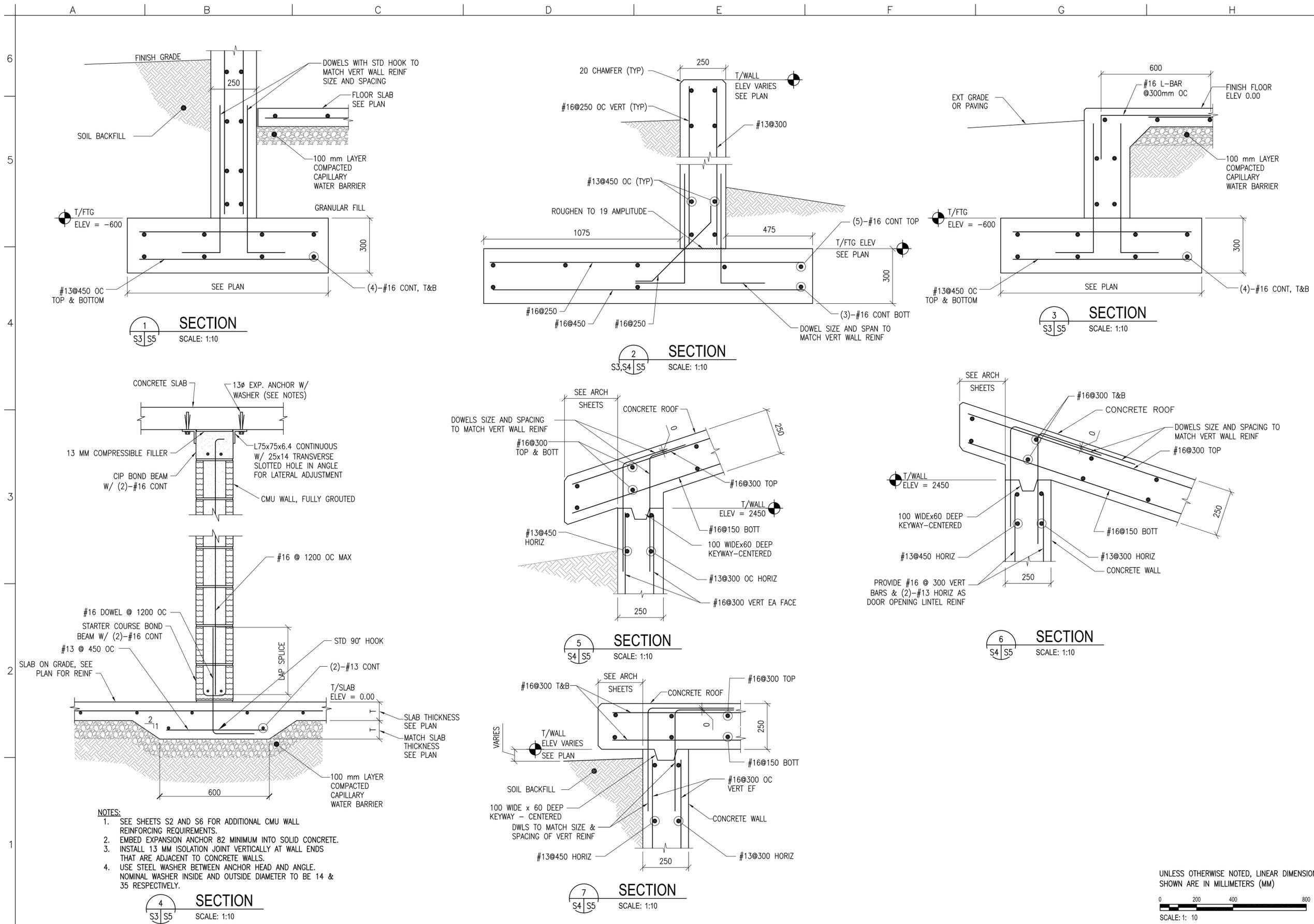
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STANDARD DESIGN  
SECURE STORAGE

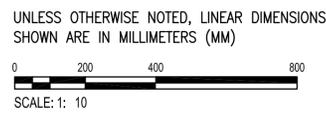
SECTIONS  
GENERAL NOTES

SHEET REFERENCE NUMBER:  
**S5**

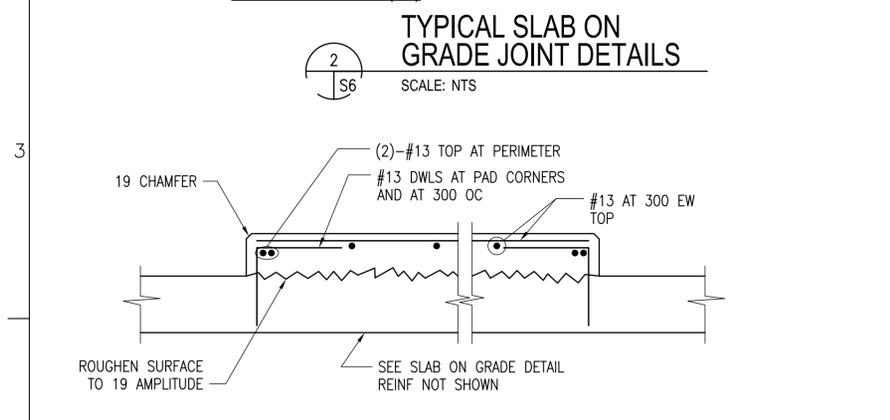
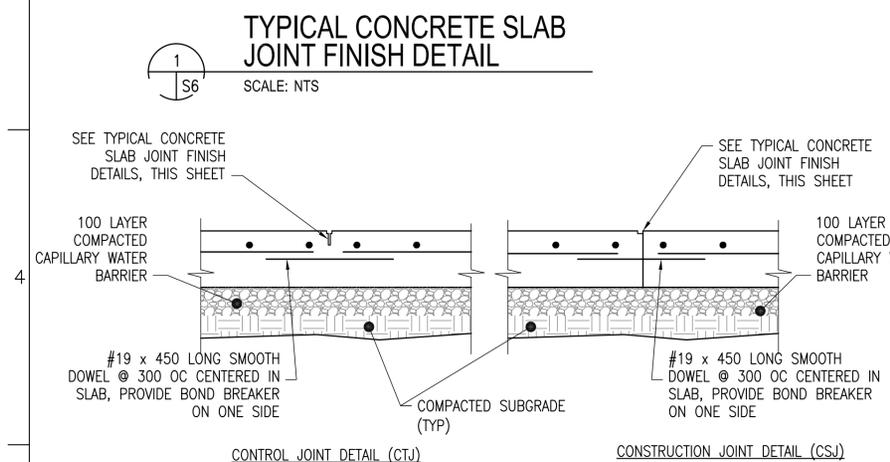
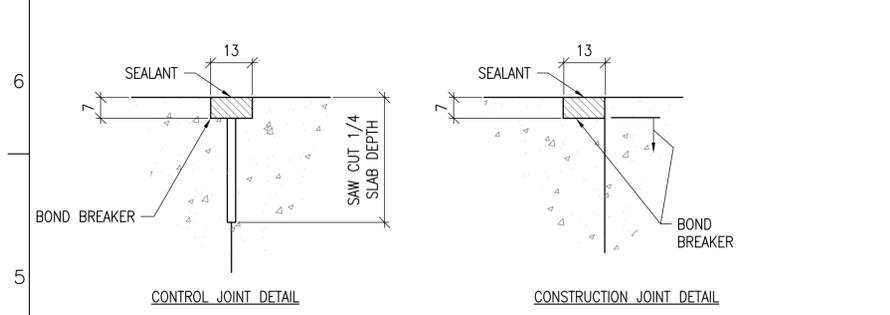
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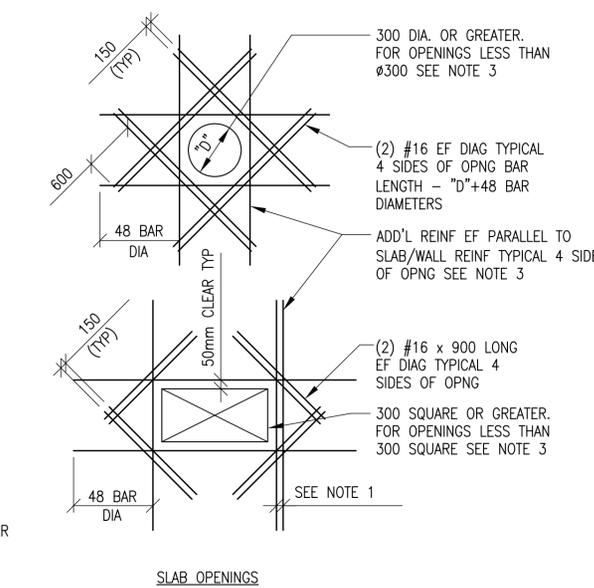
- NOTES:**
- SEE SHEETS S2 AND S6 FOR ADDITIONAL CMU WALL REINFORCING REQUIREMENTS.
  - EMBED EXPANSION ANCHOR 82 MINIMUM INTO SOLID CONCRETE.
  - INSTALL 13 MM ISOLATION JOINT VERTICALLY AT WALL ENDS THAT ARE ADJACENT TO CONCRETE WALLS.
  - USE STEEL WASHER BETWEEN ANCHOR HEAD AND ANGLE. NOMINAL WASHER INSIDE AND OUTSIDE DIAMETER TO BE 14 & 35 RESPECTIVELY.



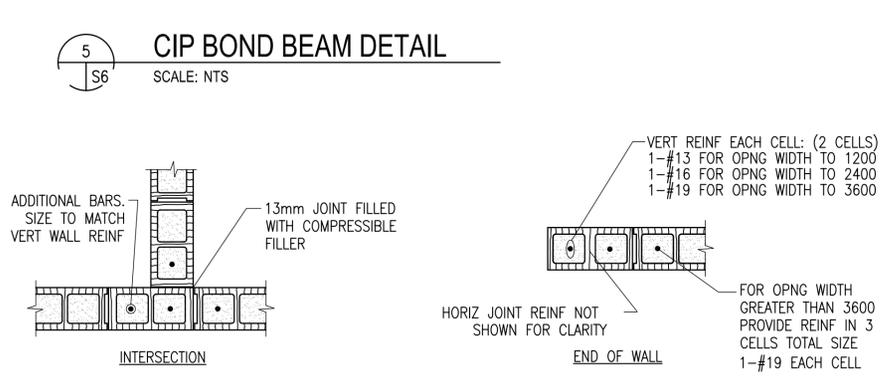
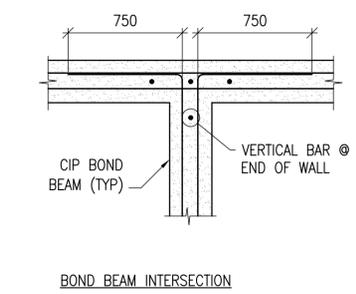
A B C D E F G H



**DETAIL NOTE:**  
1. COORDINATE EQUIPMENT PAD SIZE AND LOCATIONS W/ ELECTRICAL/MECHANICAL SHEETS AND EQUIPMENT MANUFACTURER.



**DETAIL NOTES:**  
1. 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.  
2. ADDITIONAL REINFORCING PARALLEL TO THE SLAB/WALL REINFORCING SHALL BE #15 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.  
3. FOR OPENINGS WITH SIDES OR DIAMETERS LESS THAN 300 SPREAD THE SLAB/WALL REINFORCING TO CLEAR THE OPENING.

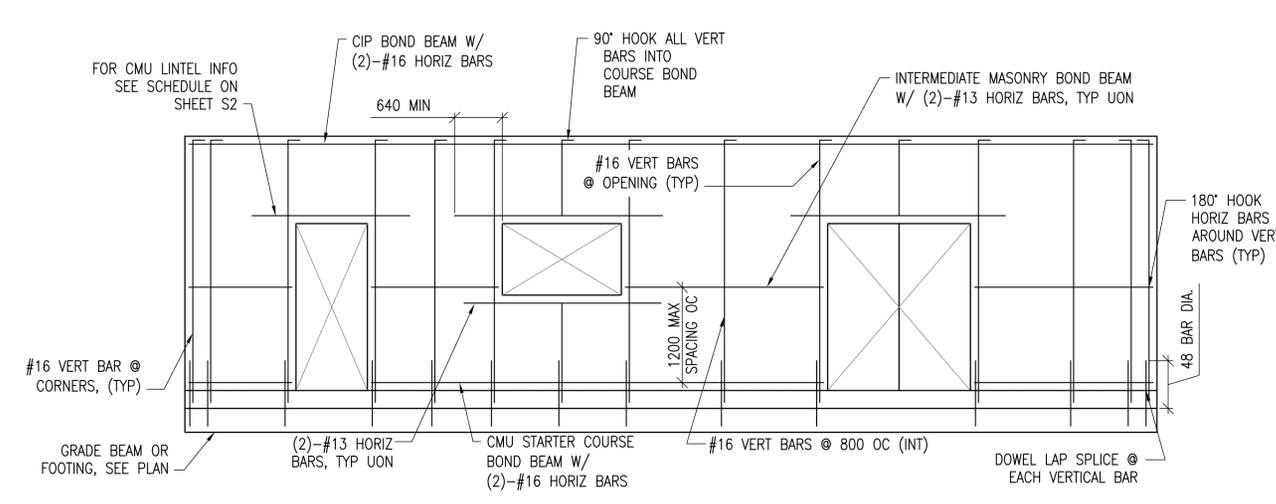


**NOTES:**  
1. OPENING WIDTH SHALL NOT EXCEED 3600 FOR THIS TYPE OF JAMB  
2. ALL CMU CELLS FULLY GROUTED

VERT REIN EACH CELL: (2 CELLS)  
1-#13 FOR OPNG WIDTH TO 1200  
1-#16 FOR OPNG WIDTH TO 2400  
1-#19 FOR OPNG WIDTH TO 3600

HORIZ JOINT REIN NOT SHOWN FOR CLARITY

FOR OPNG WIDTH GREATER THAN 3600 PROVIDE REIN IN 3 CELLS TOTAL SIZE 1-#19 EACH CELL



**LINTEL NOTES:**  
CMU LINTEL REINFORCEMENT AS PER SCHEDULE ON SHEET S2

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

US Army Corps of Engineers  
Afghanistan Engineer District

| DATE | DESCRIPTION | SYMBOL |
|------|-------------|--------|
| APR  |             |        |

DESIGNED BY: DATE: 09-30-09  
GDH  
DWN BY: RCG  
SUBMITTED BY: BAKER  
CHK BY: CWV  
FILE NO: ANPSDS-506XXX

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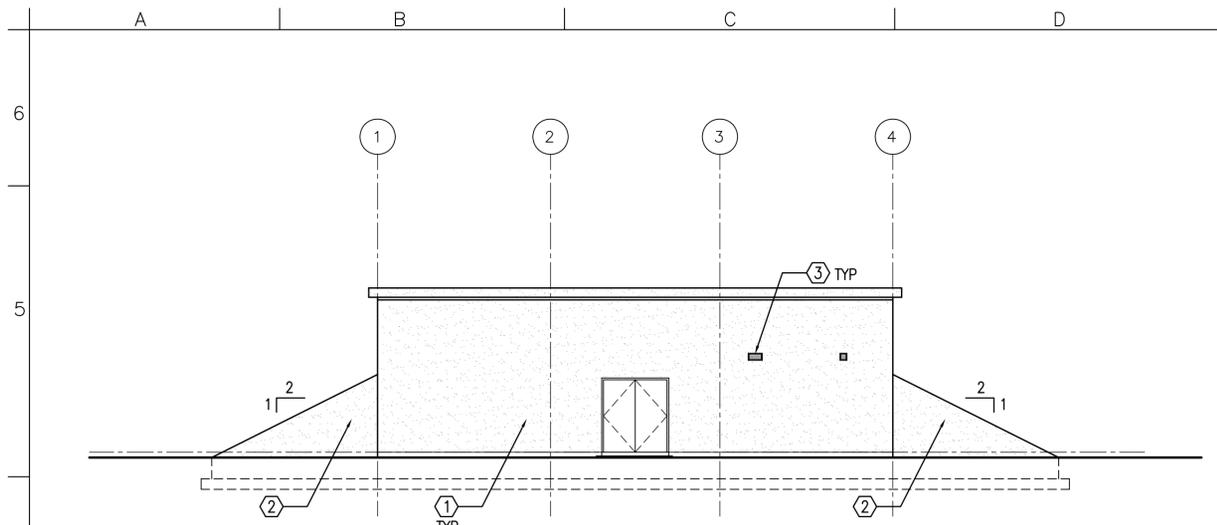
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SECURE STORAGE

TYPICAL DETAILS

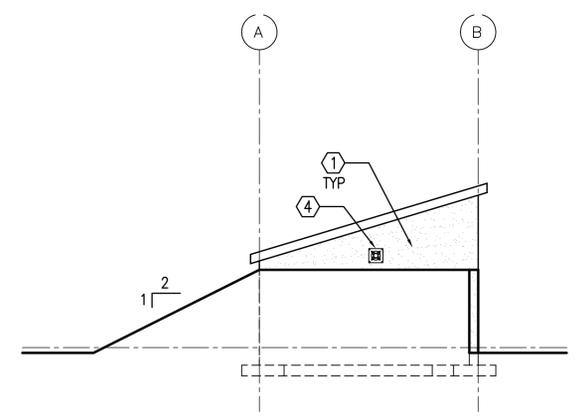
SHEET REFERENCE NUMBER:  
**S6**

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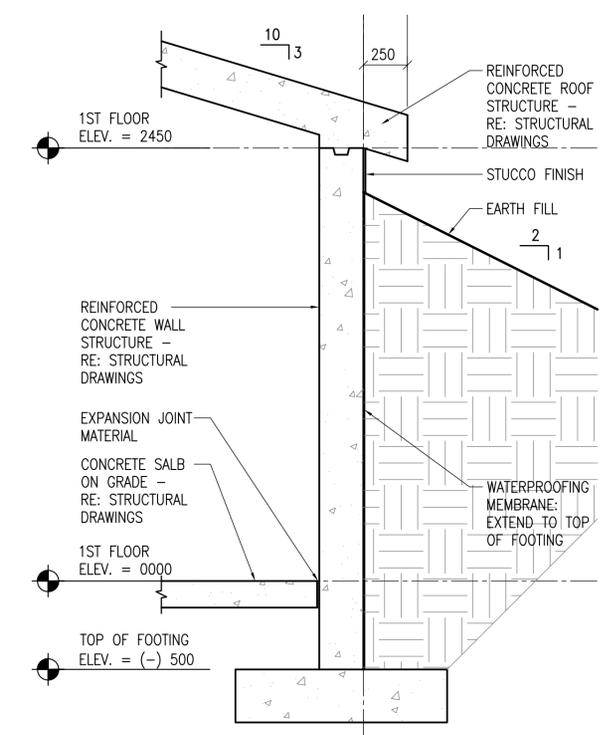




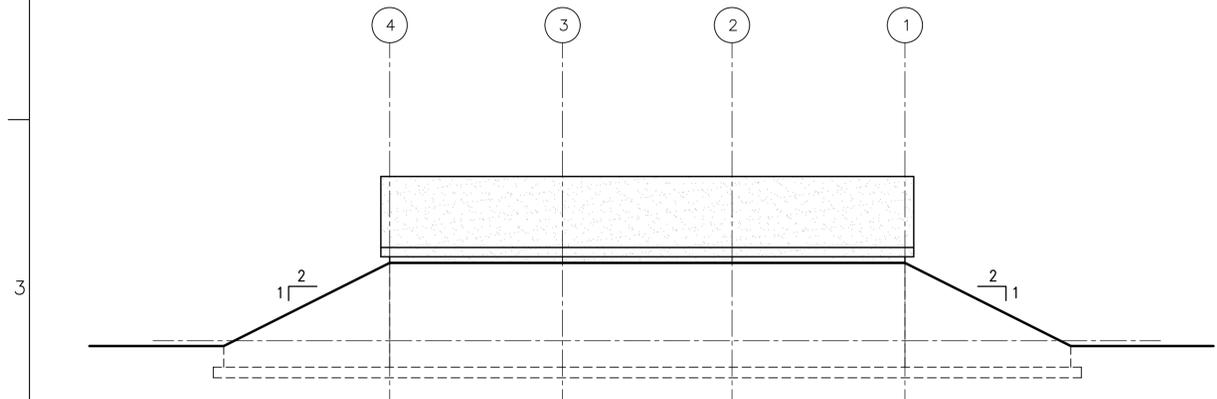
**1 EAST ELEVATION**  
SCALE: 1:100



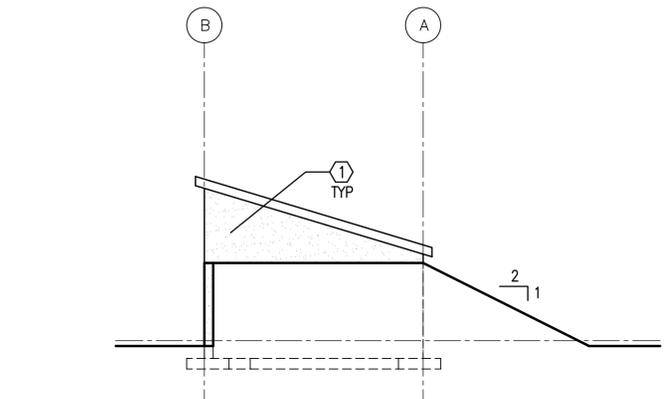
**2 SOUTH ELEVATION**  
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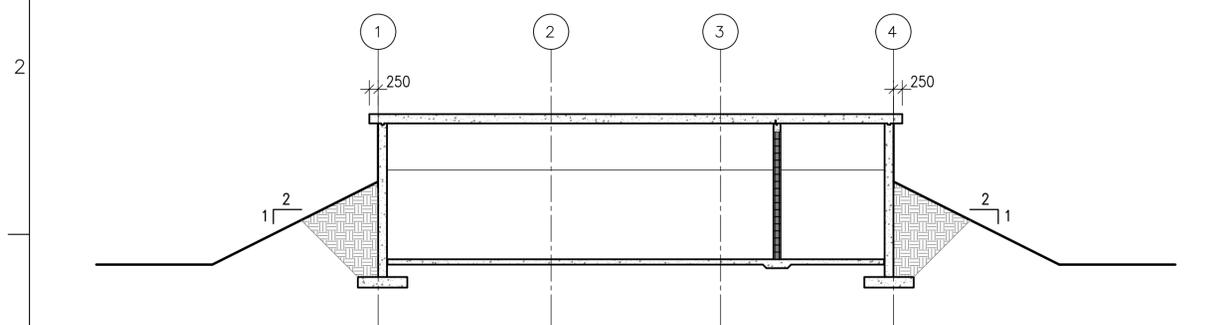
**7 WALL SECTION**  
SCALE: 1:20



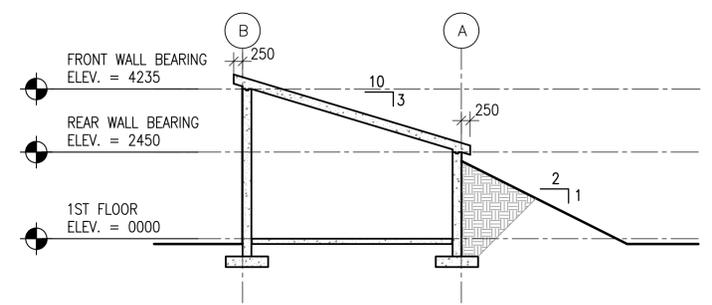
**3 WEST ELEVATION**  
SCALE: 1:100



**4 NORTH ELEVATION**  
SCALE: 1:100



**5 LONGITUDINAL BUILDING SECTION**  
SCALE: 1:100

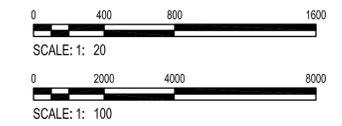


**6 TRANSVERSE BUILDING SECTION**  
SCALE: 1:100

**KEY NOTES:**

1. STUCCO ON CONCRETE WALLS
2. STUCCO ON CONCRETE WING WALLS
3. LOUVER - RE: MECHANICAL
4. EXHAUST FAN - RE: MECHANICAL

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



| DATE | DESCRIPTION | SYMBOL |
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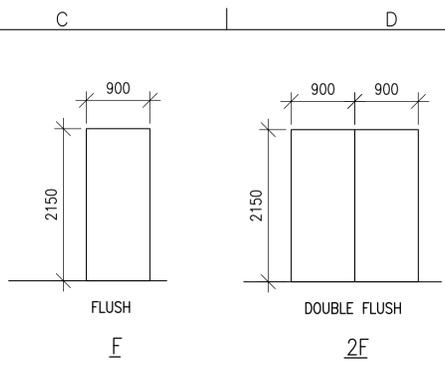
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| DESIGNED BY: BAKER | DATE: 09-30-09         |
| DWN BY: JEB        | SUBMITTED BY: BAKER    |
| CHK BY: NLJ        | FILE NO: ANPSDA-102XXX |

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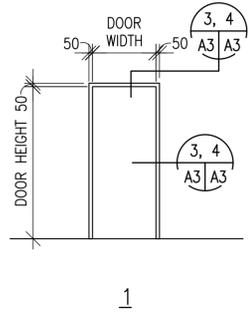
AFGHAN NATIONAL POLICE  
STANDARD DESIGN  
SECURE STORAGE  
EXTERIOR ELEVATIONS,  
BUILDING SECTIONS & WALL SECTION

SHEET REFERENCE NUMBER:  
**A2**

100% SUBMISSION



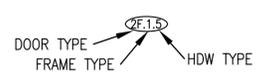
1 DOOR TYPES  
SCALE: 1:50



2 FRAME TYPES  
SCALE: 1:50

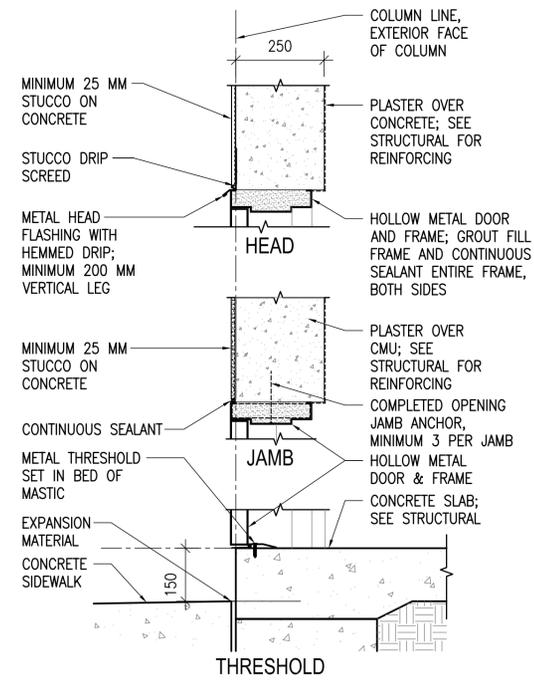
**DOOR TYPES NOTES:**

1. INTERIOR AND EXTERIOR METAL DOORS AND FRAME COLORS SHALL MATCH ADJACENT WALL COLORS AS SELECTED BY THE CONTRACTING OFFICER.
2. HARDWARE SHALL BE HEAVY DUTY, COMMERCIAL GRADE, STAINLESS STEEL WITH A MATTE FINISH.
3. FRAMES, EXCEPT FIRE-RATED FRAMES, SHALL BE MOUNTED AND ADJUSTED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. FRAMES SHALL BE FASTENED WITH MINIMUM OF THREE FASTENING POINTS PER SIDE AT REGULAR INTERVALS.
4. DIMENSIONS SHOWN ON DOOR SCHEDULE ARE BASED UPON MODULAR MASONRY (OR ROUGH OPENING), HEIGHT OF 2200mm 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.

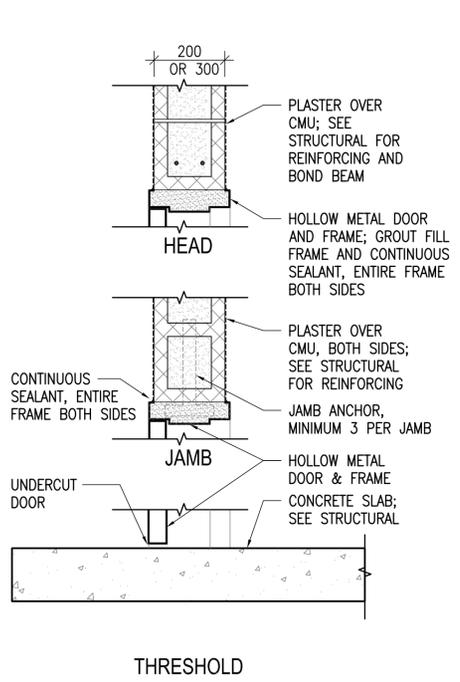


**HARDWARE TYPES:**

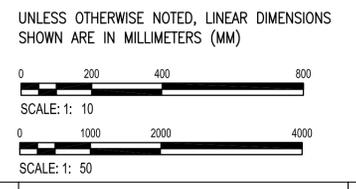
- HW-1 1-1/2 PR HINGES  
 1 EA LOCKSET W/LEVERS. GRADE 1, F93  
 1 EA CYLINDER, GRADE 1  
 1 EA HEAVY DUTY HASP, WELDED TO EXTERIOR FACE  
 1 EA THRESHOLD J32130
- HW-2 3 PR HINGES  
 1 EA LOCKSET W/LEVERS. GRADE 1, F93  
 1 EA CYLINDER, GRADE 1  
 1 EA HEAVY DUTY HASP WELDED TO EXTERIOR FACE  
 2 EA FLSUH BOLTS  
 1 EA REMOVEABLE ASTRAGAL  
 1 EA THRESHOLD J32130



3 EXTERIOR DOOR DETAILS  
SCALE: 1:10



4 INTERIOR DOOR DETAILS  
SCALE: 1:10



US Army Corps of Engineers  
Afghanistan Engineer District

| SYMBOL | DESCRIPTION | DATE |
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|                    |                        |
|--------------------|------------------------|
| DESIGNED BY: BAKER | DATE: 09-30-09         |
| DWN BY: AR         | SUBMITTED BY: BAKER    |
| CHK BY: KRC        | FILE NO: ANPSDA-303XXX |

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AFGHAN NATIONAL POLICE  
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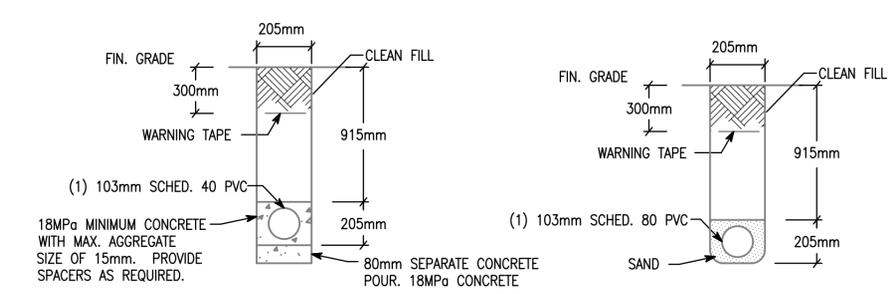
DOOR & WINDOW TYPES & DETAILS

SHEET REFERENCE NUMBER:  
**A3**

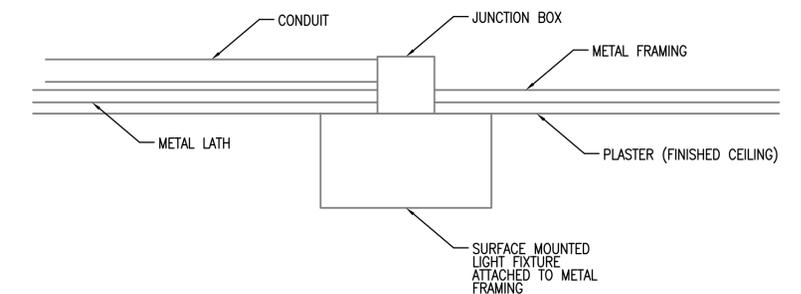




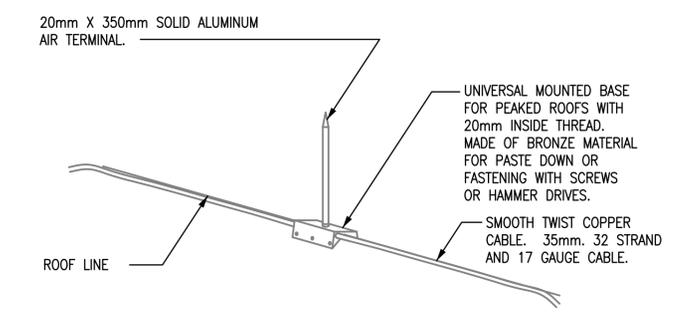




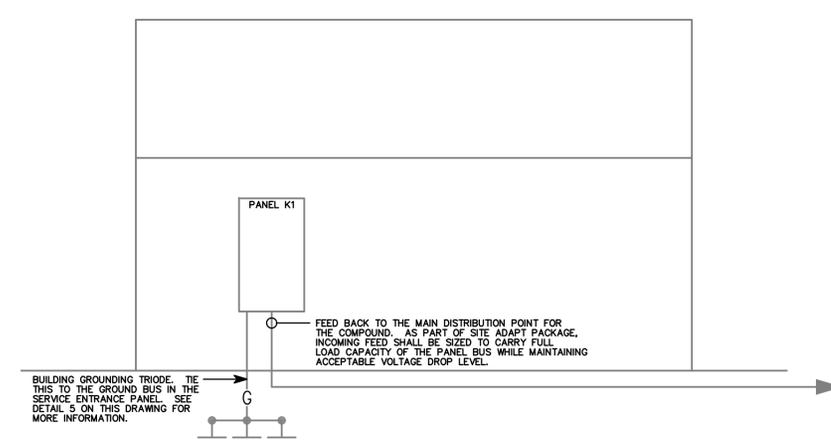
**1**  
E2 E2  
**TYPICAL DUCT BANK DETAILS FOR CONDUIT IN SAND OR CONCRETE**  
SCALE: N.T.S.



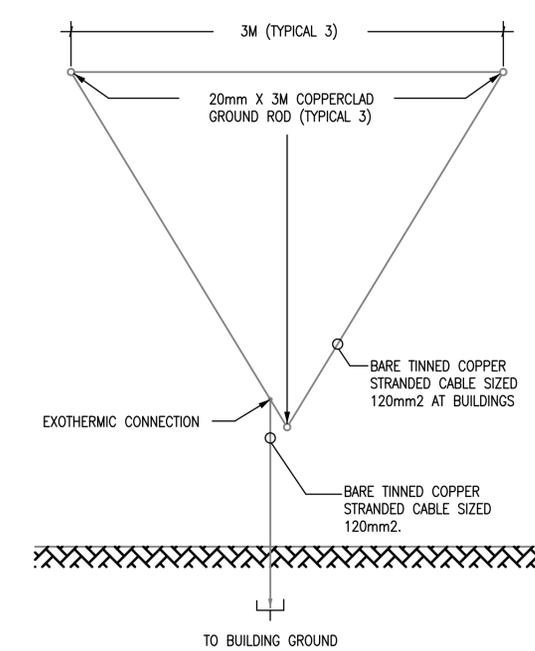
**2**  
E2 E2  
**TYPICAL DETAIL FOR SURFACE MOUNTED LIGHT FIXTURES**  
SCALE: N.T.S.



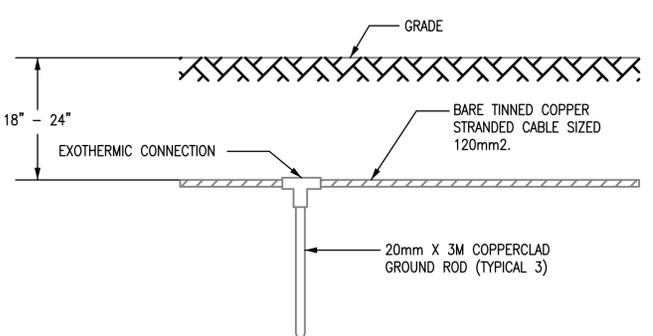
**3**  
E2 E2  
**LIGHTNING PROTECTION AIR TERMINAL DETAIL**  
SCALE: N.T.S.



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



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



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

US Army Corps of Engineers  
Afghanistan Engineer District

| NO. | DATE | DESCRIPTION | SYMBOL |
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| DESIGNED BY: | JRG | DATE:         | 09-30-09      |
| DWN BY:      | JRG | SUBMITTED BY: | BAKER         |
| CHK BY:      | JRG | FILE NO.:     | ANPSDE-502XXX |

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