

**1**  
S-101  
**FOUNDATION/SLAB PLAN**  
SCALE: 1:50

**FOUNDATION/SLAB PLAN NOTES:**

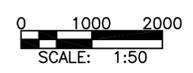
- REFER TO SHEET S-001 FOR STRUCTURAL NOTES AND DESIGN CRITERIA.
- FINISH FIRST FLOOR ELEVATION SHALL BE (DATUM 0.00) ALL PLUS OR MINUS DIMENSIONS INDICATED ON PLAN OR REFERRED TO IN NOTES RELATE TO FINISH FIRST FLOOR ELEVATION.
- SLAB-ON-GRADE (COLUMN LINES 1 THRU 2) IS 150 WITH #13 @ 300 OC EW LOCATED 38 FROM T/SLAB. SLAB-ON-GRADE (COLUMN LINES 2 THRU 3) IS 200 WITH #16 @ 300 OC EW LOCATED 65 FROM T/SLAB.
- TOP OF EXTERIOR FOOTINGS SHALL BE -950 UNLESS OTHERWISE INDICATED.
- TOP OF INTERIOR FOOTINGS WITH GRADE BEAM ABOVE SHALL BE -950.
- COLUMN FOOTINGS INDICATED BY F# ON PLAN. REFER TO COLUMN FOOTING SCHEDULE ON SHEET S-601.
- REFER TO COLUMN SCHEDULE ON SHEET S-601.
- GRADE BEAM INDICATED BY GB# ON PLAN, REFER TO BEAM SCHEDULE ON SHEET S-601.
- SHEARWALL INDICATED BY SW# ON PLAN, REFER TO SHEARWALL SCHEDULE ON SHEET S-601.
- SEE TYP EXTERIOR AND INTERIOR CMU WALL REINF DETAILS ON SHEET S-701.
- SEE MECHANICAL AND ELECTRICAL SHEETS FOR CONCRETE PAD LOCATIONS, SIZES, AND THICKNESS NOT SHOWN. SEE SHEET S-701 FOR DETAILS.
- THICKENED SLAB UNDER CMU PERIMETER/PARTITION WALLS NOT SHOWN FOR CLARITY.

**FOUNDATION/SLAB PLAN KEY NOTES:** (X)

- CONC PAD (ENTRANCE)-SEE ARCH DWGS FOR INFORMATION
- REINF CONC COLUMN
- REINF CONC SLAB-ON-GRADE
- (2)-#13 @ RE-ENTRANT CORNERS - SEE S-701 FOR INFORMATION
- BOLLARD- SEE SECTION 8/S-502
- WALL STIFFENER EACH SIDE OF PEDESTRIAN DOOR WHERE NO BOTTOM OF SLAB EXIST AT ELEVATION 3000.

**FOUNDATION/SLAB PLAN LEGEND:**

- REINF CONC SHEAR WALL
- REINF CMU WALL
- CONTROL JOINT



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

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



Rev.	Date	Description	Mark	Appr.	Date

Designed by: KMP/AMMY	Checked by: RCG	Reviewed by: LHM	Submitted by: BAKER
Date: 2/08/10	Design file no.:	Drawing code: ANAWMS-101FNP	File name: ANAWMS-101FNP
U.S. ARMY CORPS OF ENGINEERS AFGHANISTAN ENGINEER DISTRICT APO AE 96338	Michael Baker Jr., Inc. A unit of Michael Baker Corporation 100 Ardsley Drive, PA, 15108 www.mbakercorp.com	Plot date: 2/22/2010	Plot scale: XX

AFGHAN NATIONAL ARMY  
REGIONAL MILITARY TRAINING CENTER  
STANDARD DESIGN  
VEHICLE MAINTENANCE FACILITY  
FOUNDATION/SLAB PLAN

Sheet reference number:  
**S-101**





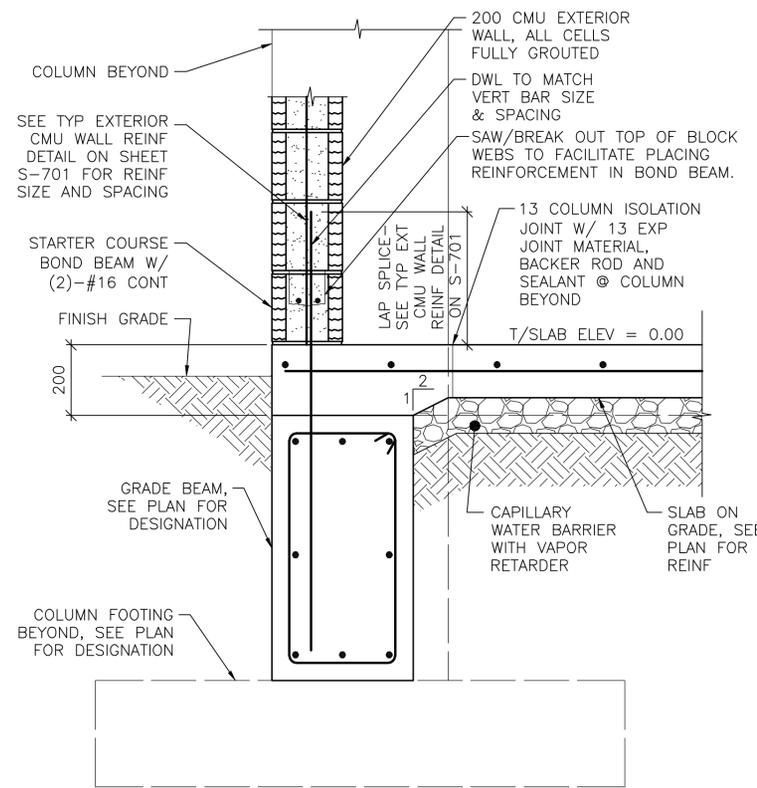


Rev.	Date	Description
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Designed by:	KCP/MMY
Dwn by:	RCG
Reviewed by:	LHM
Submitted by:	BAKER
Date:	2/08/10
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File name:	ANAFWS-501SC
Plot date:	2/22/2010
Plot scale:	1:10

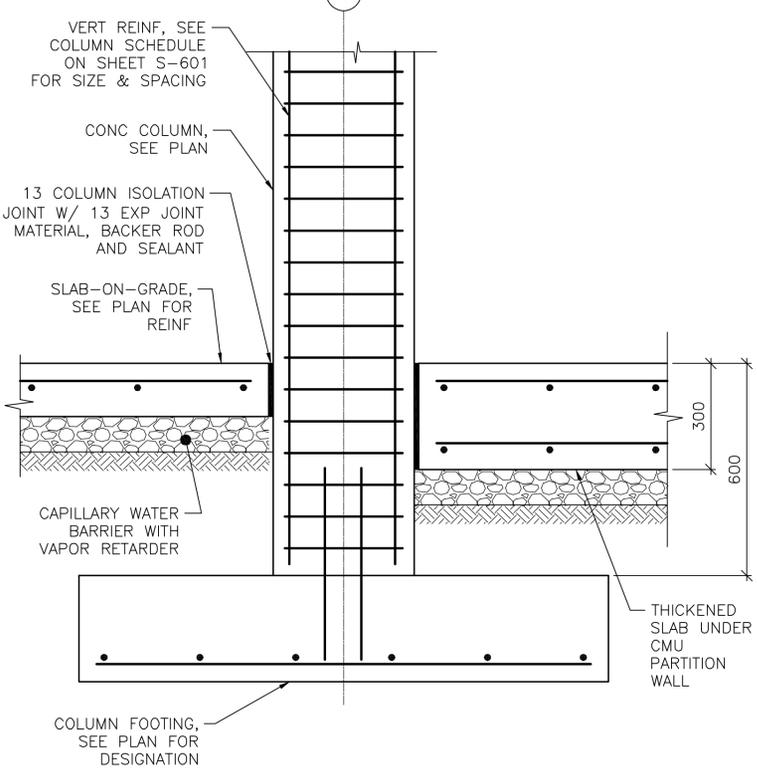
AFGHAN NATIONAL ARMY REGIONAL MILITARY TRAINING CENTER STANDARD DESIGN	VEHICLE MAINTENANCE FACILITY	FOUNDATION SECTIONS
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Sheet reference number:  
**S-501**

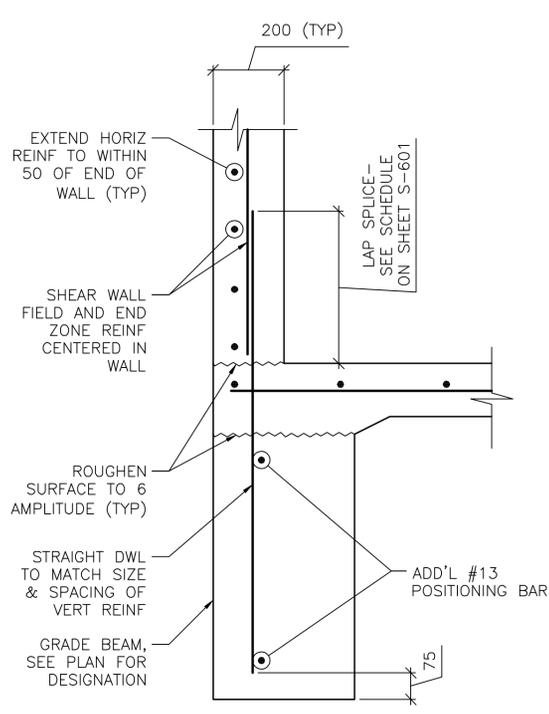


NOTE:  
1. SECTION IS SIMILAR FOR INTERIOR CMU PARTITIONS OVER GRADE BEAMS SHOWING THICKENED 200 CONC SLAB AREA.

**1 SECTION**  
SCALE: 1:10

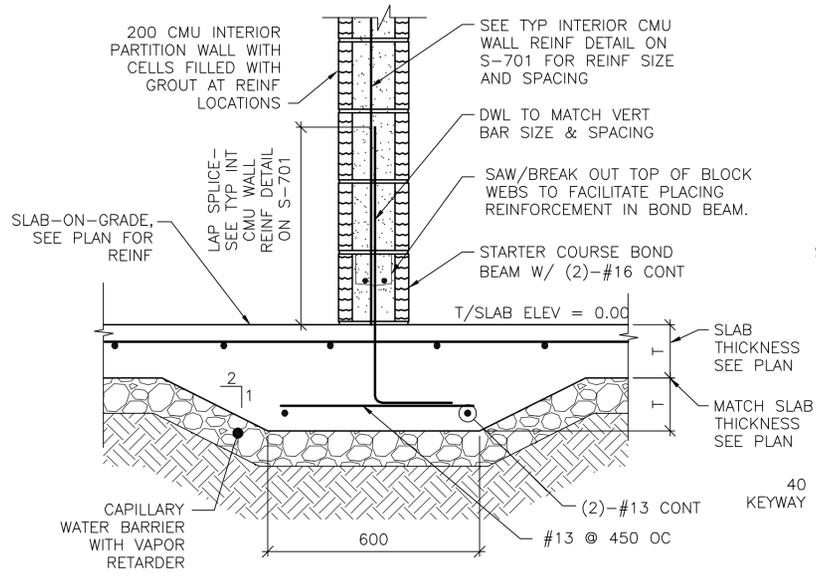


**2 SECTION**  
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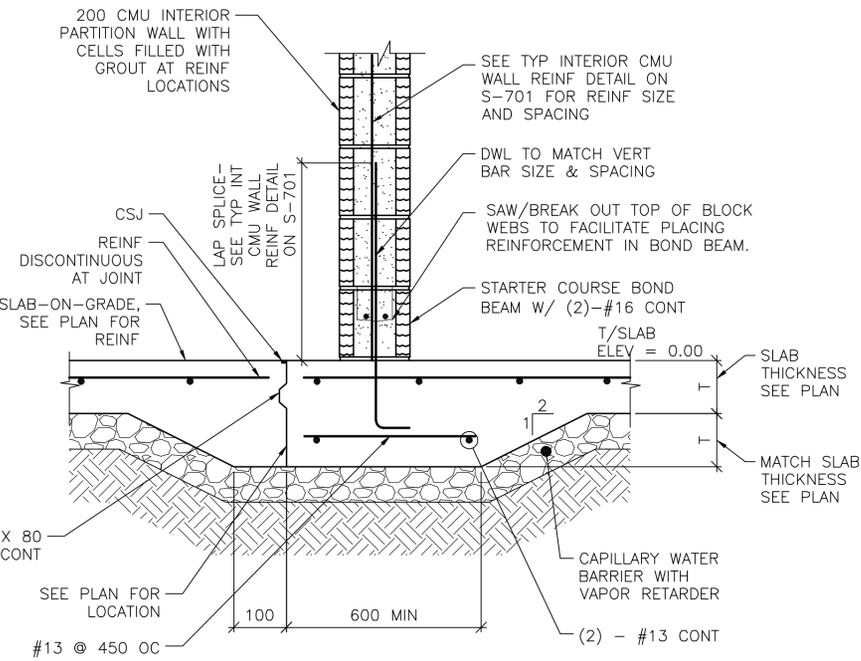


**3 SECTION**  
SCALE: 1:10

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.

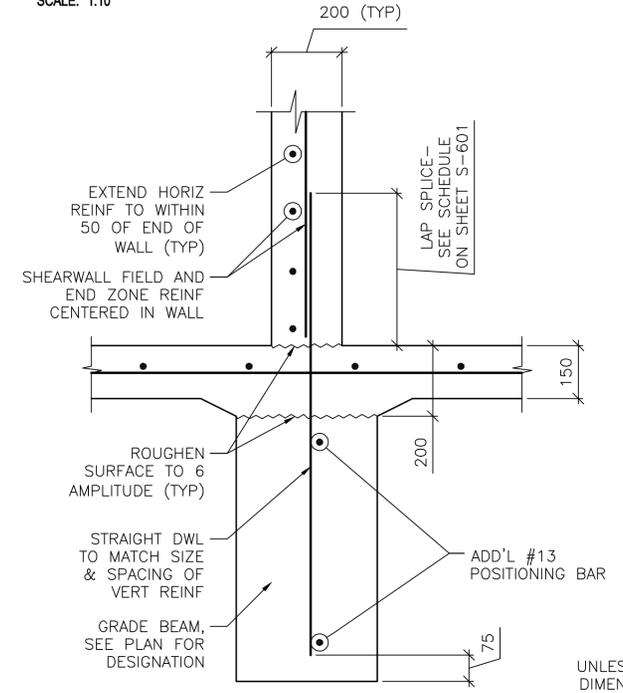


**4 SECTION**  
SCALE: 1:10



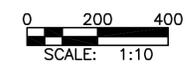
**5 SECTION**  
SCALE: 1:10

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



**6 SECTION**  
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.



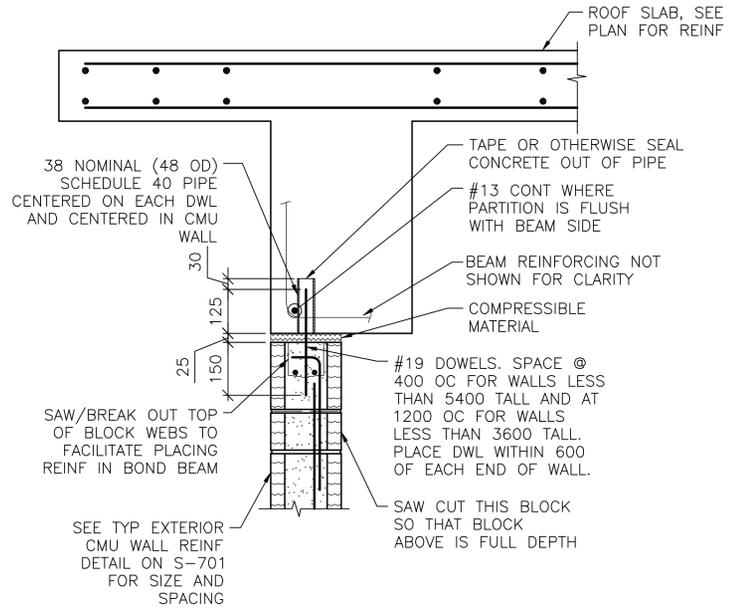
UNLESS OTHERWISE NOTED, LINEAR DIMENSIONS SHOWN ON DRAWINGS ARE IN MILLIMETERS (mm)

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



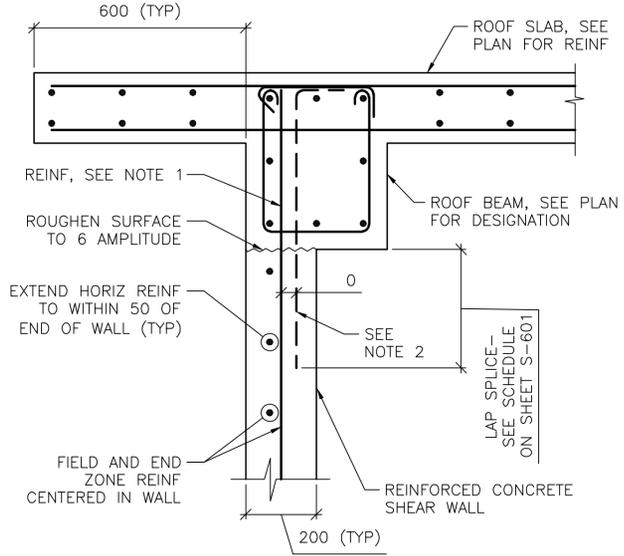
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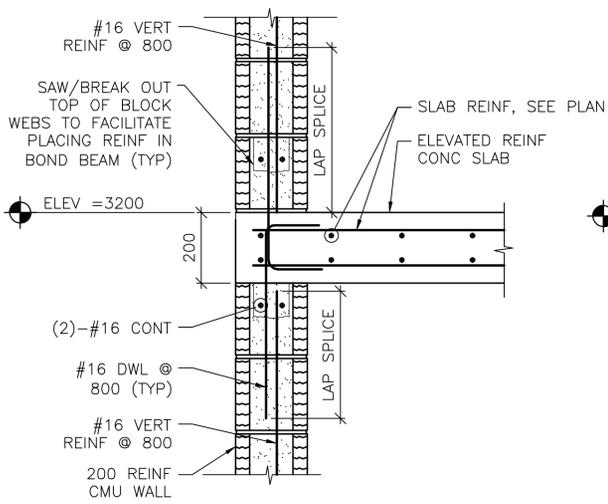
NOTES:  
 1. EXTEND DOWEL REINF TO 25 CLEAR FROM TOP OF CMU WALL.

**1 SECTION**  
 S-102 SCALE: 1:10

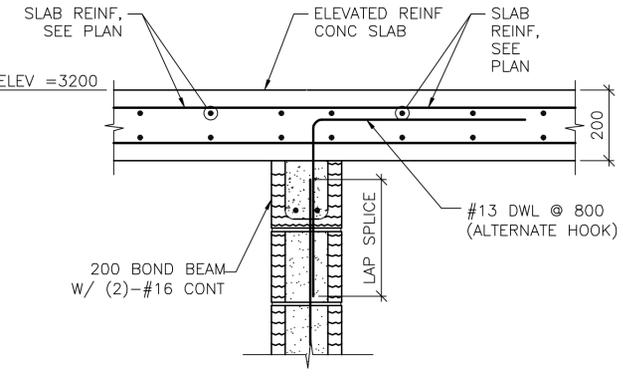


NOTES:  
 1. TERMINATE "FIELD" VERT REINF & END ZONE REINF @ 50 CLEAR FROM TOP OF ROOF SLAB.  
 2. WHERE END ZONE REINFORCING CANNOT BE DEVELOPED IN BEAM DEPTH, PROVIDE HOOKED DWLS SAME SIZE & SPACING. PROVIDE TENSION LAP BELOW ROOF BEAM.  
 3. SEE SHEET S-601 AND SHEET S-702 FOR SCHEDULED FIELD AND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

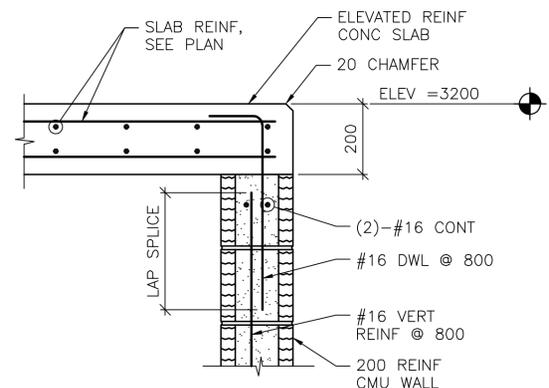
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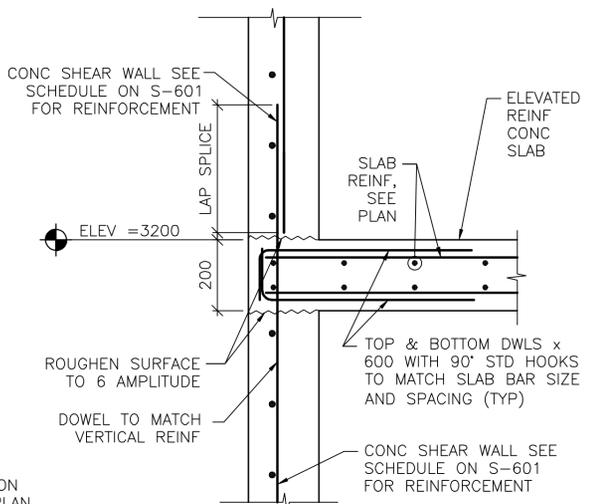
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 S-102 SCALE: 1:10



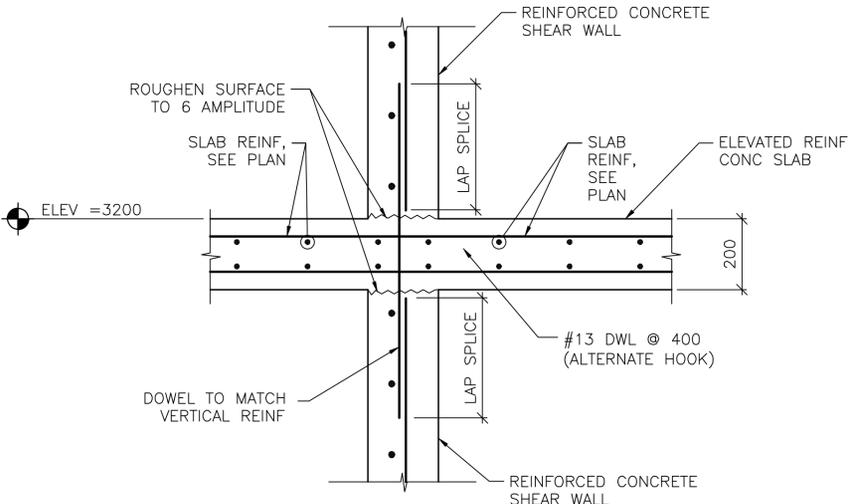
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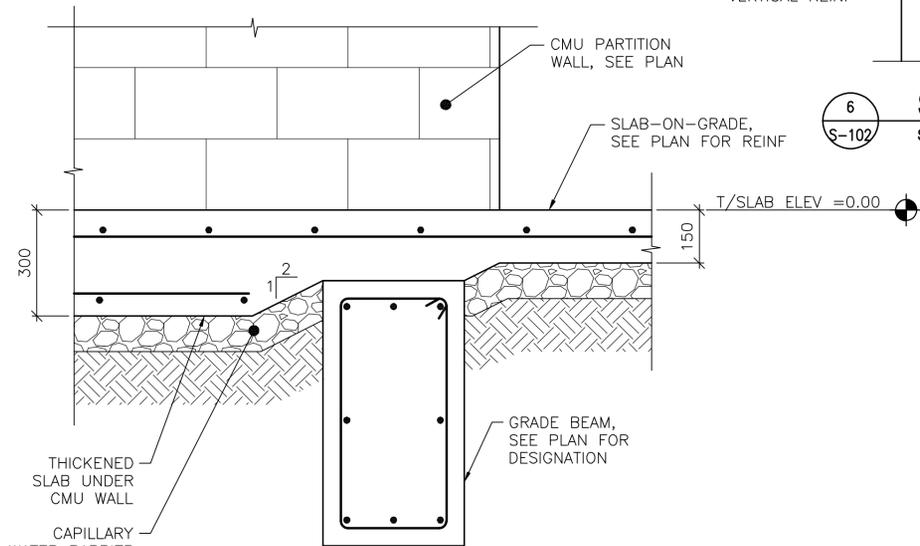
**5 SECTION**  
 S-102 SCALE: 1:10



**6 SECTION**  
 S-102 SCALE: 1:10



**7 SECTION**  
 S-102 SCALE: 1:10



**8 SECTION**  
 S-101 SCALE: 1:10



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

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



Sheet reference number:  
**S-503**



Rev.	Date	Description

Designed by: KMP/MMY	Reviewed by: LHM	Submitted by: BAKER
Dwn by: RCG	Reviewed by: LHM	
Design file no. 2/08/10	Drawing code: ANAFWS-503SC	File name: ANAFWS-503SC
		Plot date: 2/22/2010
		Plot scale: 1:1

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 REGIONAL MILITARY TRAINING CENTER  
 STANDARD DESIGN  
 VEHICLE MAINTENANCE FACILITY  
 FRAMING SECTIONS



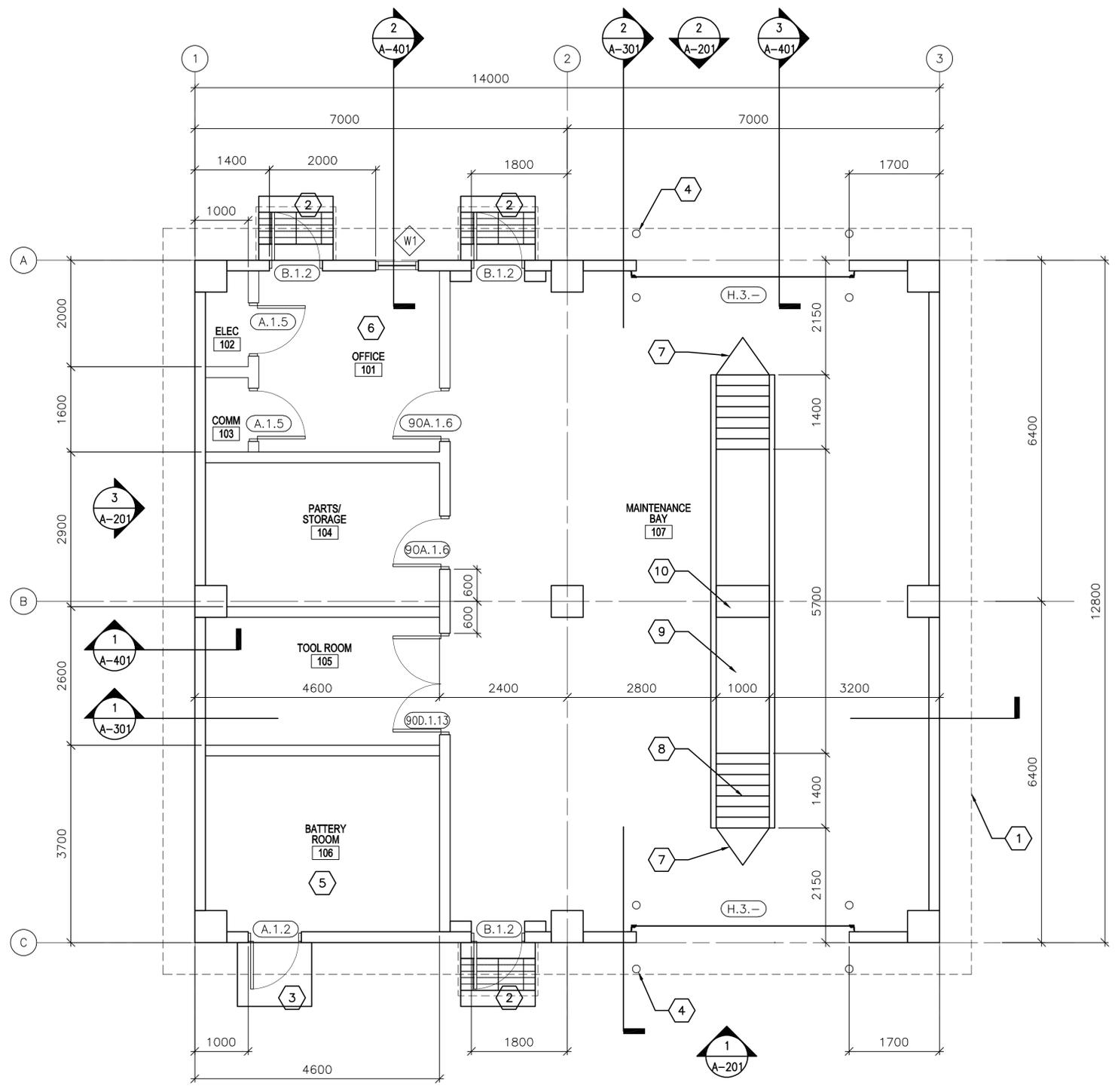












**1**  
A-101  
**FLOOR PLAN**  
SCALE: 1:50

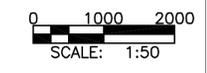
**ABBREVIATIONS:**

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

**LEGEND:**

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

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



**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. SEE STRUCTURAL DRAWINGS FOR LOCATION OF CONCRETE SHEAR WALLS.
- D. COSMETIC REPAIR OF MINOR DEFECTS: REPAIR OR FILL MORTAR JOINTS AND MINOR DEFECTS, INCLUDING BUT NOT LIMITED TO SPALLS, IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND PRIOR TO COATING APPLICATION. SURFACES TO BE PAINTED SHALL BE CLEAN AND FREE OF FOREIGN MATTER BEFORE APPLICATION OF PAINT. CLEANING SHALL BE SCHEDULED SO THAT DUST AND OTHER CONTAMINANTS WILL NOT FALL ON NEWLY PAINTED SURFACES.
- E. 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 STRUCTURE, UNLESS OTHERWISE NOTED.
- L. ALL WALL FINISHES SHALL BE PAINTED STRUCTURE, UNLESS OTHERWISE NOTED.
- M. ALL FLOOR FINISHES SHALL BE SEALED CONCRETE, UNLESS OTHERWISE NOTED.

**KEY NOTES:**

1. LINE OF ROOF OVERHANG ABOVE.
2. CONCRETE STOOP WITH GRATE - SEE DETAIL 1/A-503.
3. CONCRETE STOOP - SEE DETAIL 3/A-503
4. BOLLARD - SEE STRUCTURAL DRAWINGS FOR TYPICAL DETAIL.
5. FLOOR & WALL FINISH IN BATTERY ROOM SHALL BE ACID RESISTANT COATING.
6. OFFICE FINISHES SHALL BE EPOXY SEALED CONCRETE FLOOR AND PAINTED PLASTER ON CEILING & WALLS.
7. CONCRETE CURB - SEE STRUCTURAL.
8. CONCRETE STAIRS - SEE STRUCTURAL.
9. MAINTENANCE PIT - SEE STRUCTURAL.
10. DRAINAGE PIT - SEE STRUCTURAL.



Rev.	Date	Description	Mark	Appr.	Date

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

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 Design file no.:  
 Drawing code: ANAWFA-WFP  
 File name: ANAWFA-WFP  
 Plot date: 2/22/2010  
 Plot scale: x/x

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 AFGHANISTAN ENGINEER DISTRICT  
 APO AE 96338  
 Michael Baker, Jr., Inc.  
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 100 Ardsley Drive, PA 15108  
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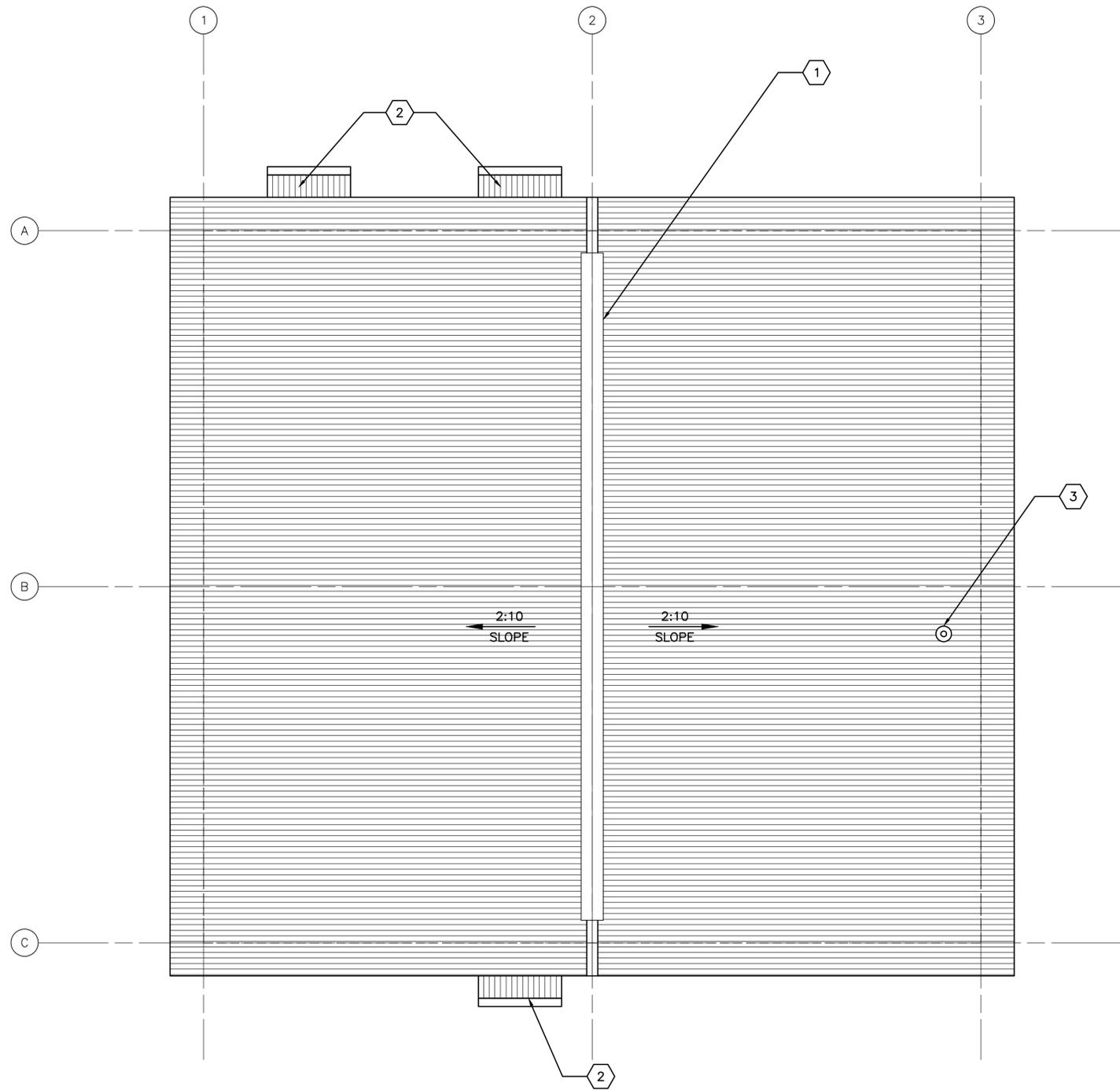
VEHICLE MAINTENANCE FACILITY

FLOOR PLAN

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



Sheet reference number:  
**A-101**



1  
A-102  
**ROOF PLAN**  
SCALE: 1:50

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

0 1000 2000  
SCALE: 1:50

**GENERAL NOTES:**

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

**KEY NOTES:**

- 1. CONTINUOUS METAL RIDGE VENT SEE DETAIL 4/A-501.
- 2. CANOPY - SEE DETAIL 2/A-504.
- 3. PLUMBING VENT - SEE DETAIL 5/A-501.



Rev.	Date	Description	Appr.	Date
0	2/23/10			

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Dwn by:	KJG	Reviewed by:	LHM
Submitted by:	BAKER	Drawing code:	ANAWFA-102RP
File name:	ANAWFA-102RP	Plot date:	2/23/2010
Plot scale:	x:1		

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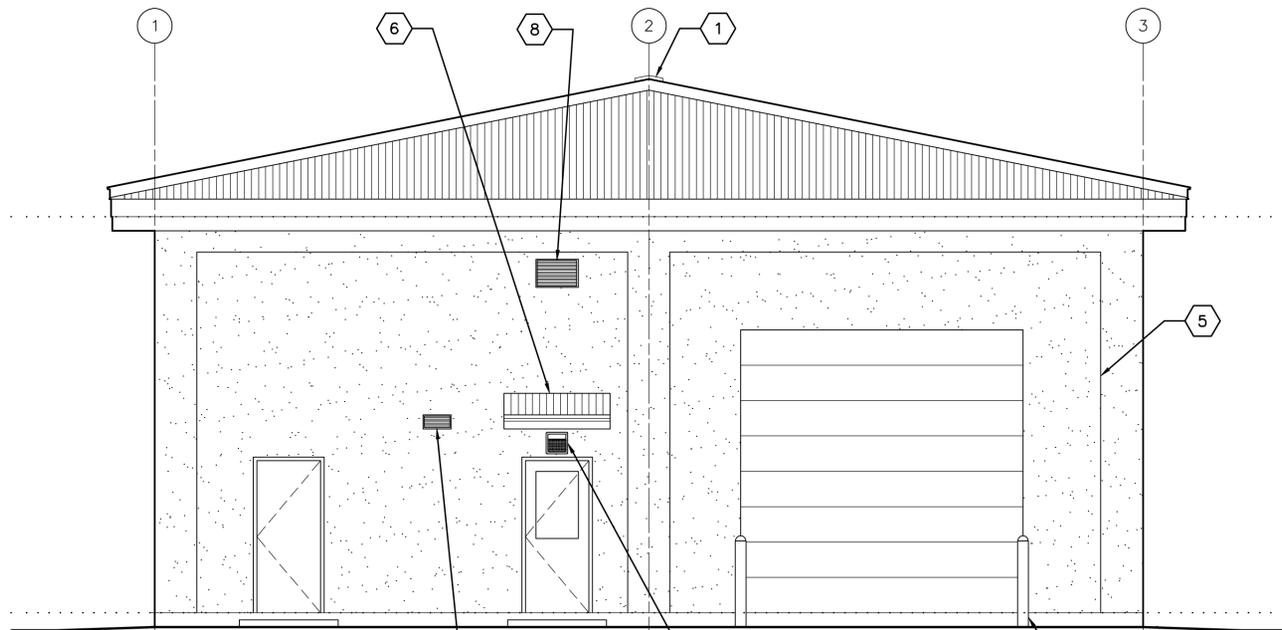
VEHICLE MAINTENANCE FACILITY

ROOF PLAN

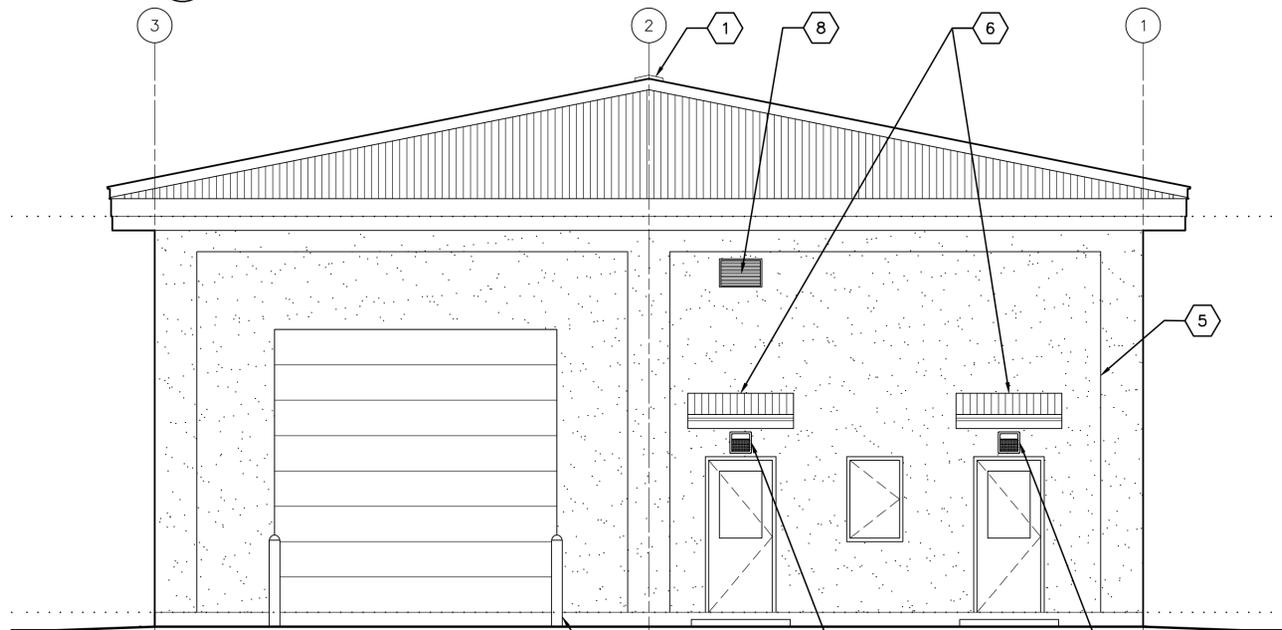
APPROVED:  
*K. R. Cl...*  
A/E DESIGNER OF RECORD



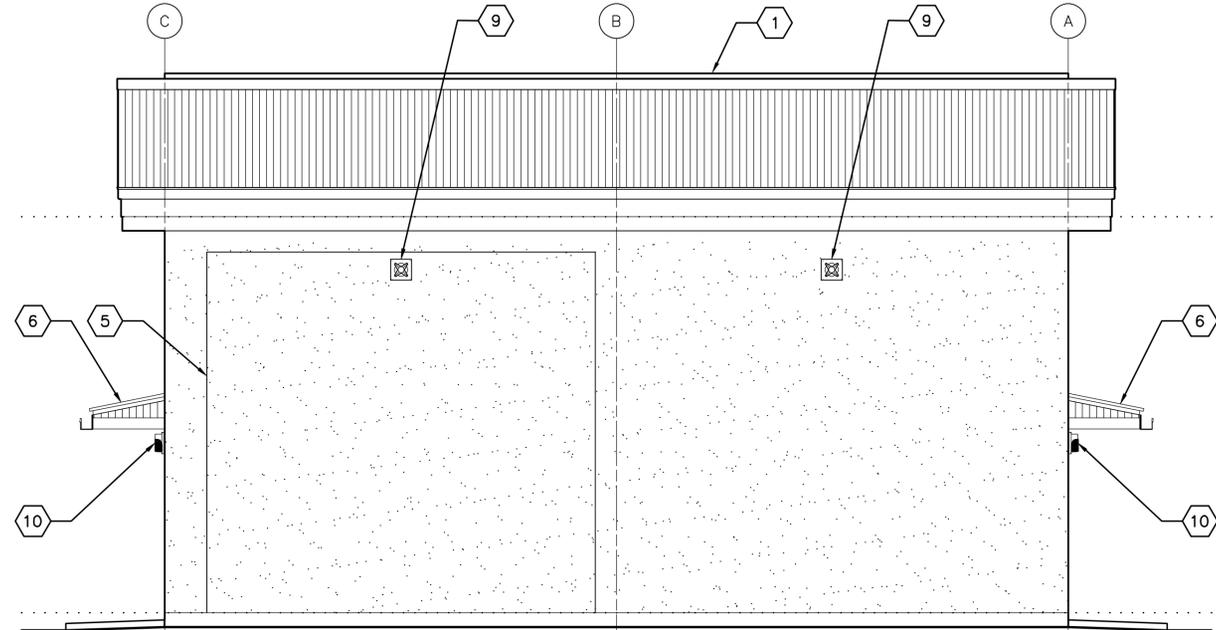
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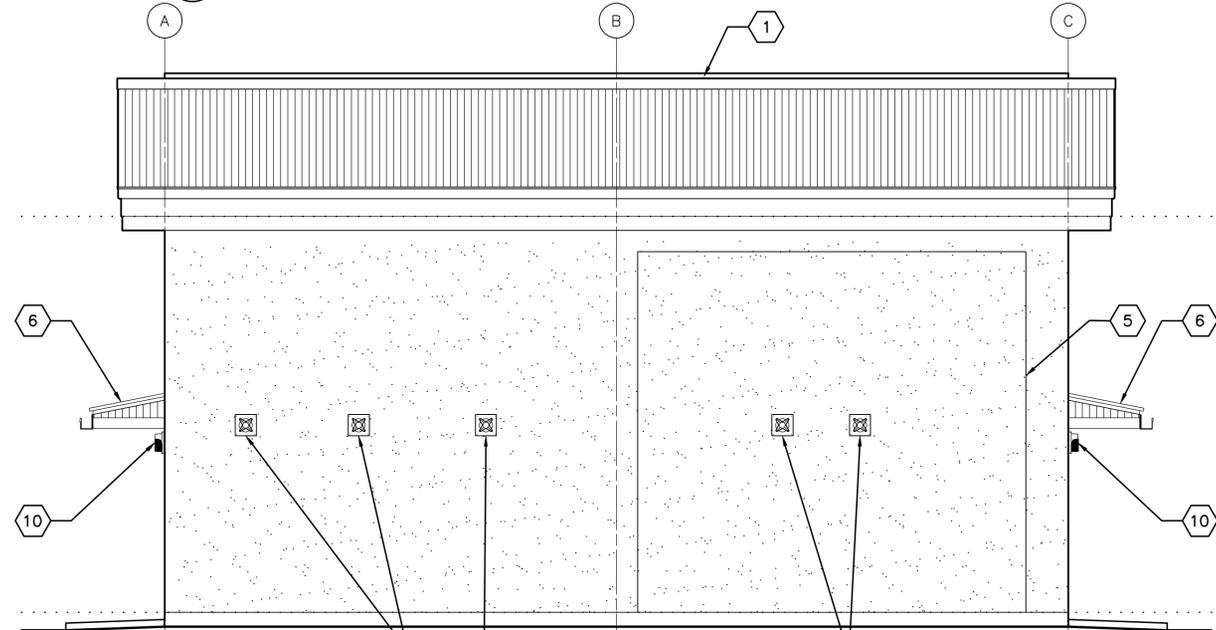
1  
A-201  
**ELEVATION**  
SCALE: 1:50



2  
A-201  
**ELEVATION**  
SCALE: 1:50



4  
A-201  
**ELEVATION**  
SCALE: 1:50



3  
A-201  
**ELEVATION**  
SCALE: 1:50

**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. NOT USED.
- 5. STUCCO CONTROL JOINT - SEE DETAIL 2A/A-501.
- 6. CANOPY - SEE DETAIL 1/A-504.
- 7. BOLLARD - SEE STRUCTURAL DRAWINGS FOR TYPICAL DETAIL
- 8. LOUVER, LOCATE TOP OF WALL PENETRATION 5000 MM ABOVE FINISHED FLOOR - SEE MECHANICAL DRAWINGS.
- 9. EXHAUST FAN, LOCATE TOP OF WALL PENETRATION 5000 MM ABOVE FINISHED FLOOR - SEE MECHANICAL DRAWINGS.
- 10. EXTERIOR LIGHT FIXTURE - SEE ELECTRICAL.



US ARMY CORPS OF ENGINEERS  
AFGHANISTAN ENGINEER DISTRICT

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0	2/08/10	

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Dwn by:	KJG	Reviewed by:	LHM
Submitted by:	BAKER	Drawing code:	ANAWFA-201ELEV
		File name:	ANAWFA-201ELEV
		Plot date:	2/22/2010
		Plot scale:	1:50

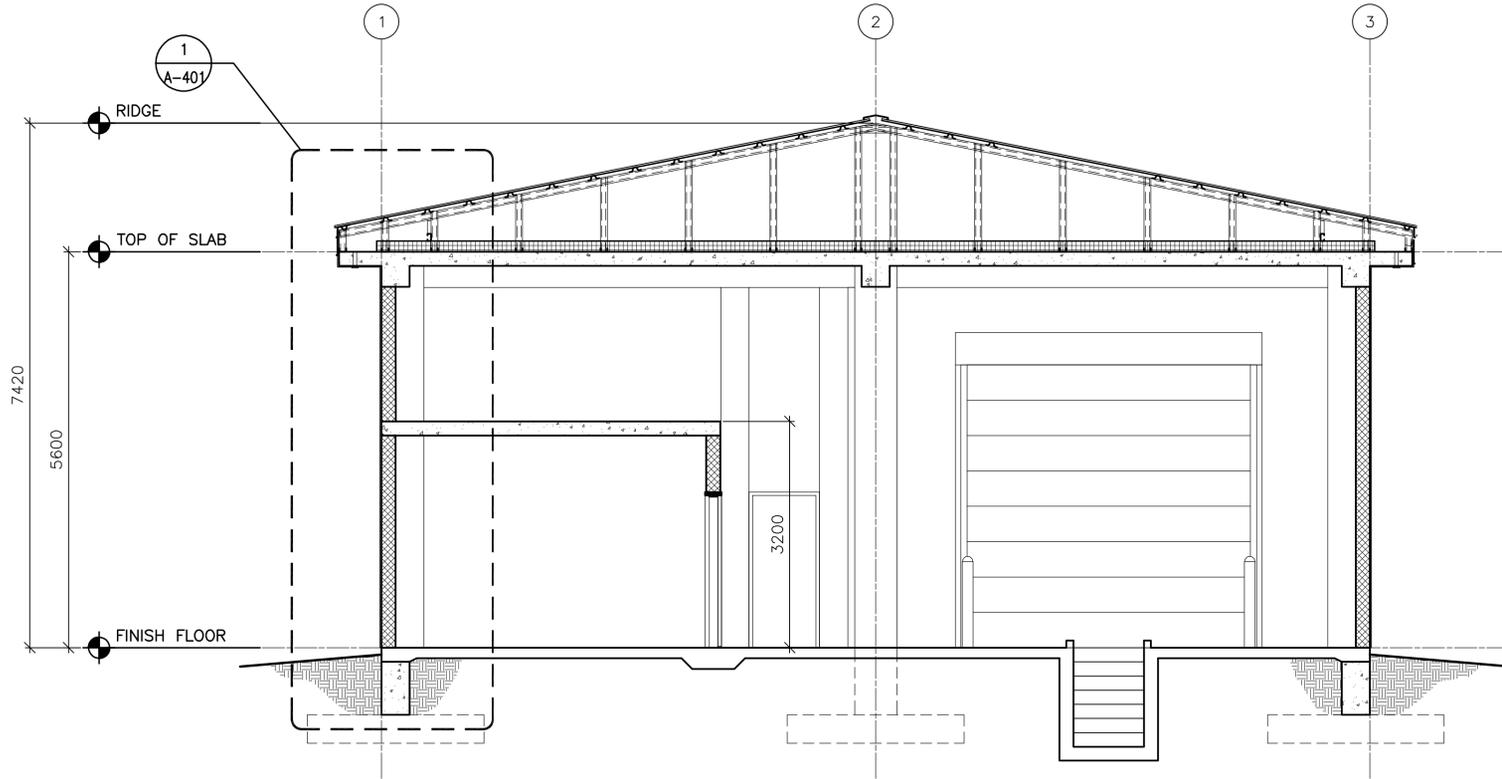
AFGHAN NATIONAL ARMY  
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STANDARD DESIGN  
VEHICLE MAINTENANCE FACILITY  
ELEVATIONS

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

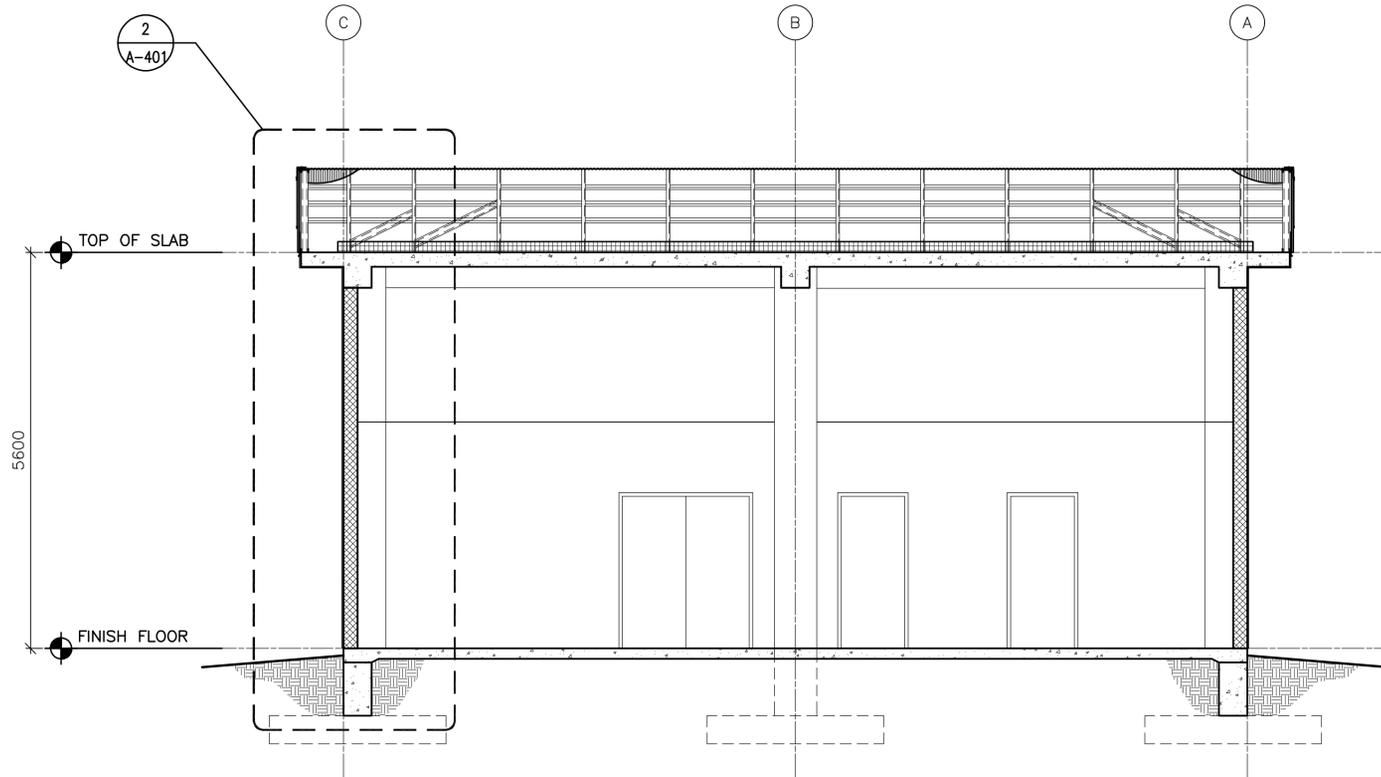


LINEAR DIMENSIONS SHOWN ARE IN MILLIMETERS (MM), UNLESS OTHERWISE NOTED  
SCALE: 1:50

Sheet reference number:  
A-201

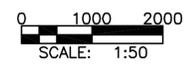


1 BUILDING SECTION  
 A-301 SCALE: 1:50



2 BUILDING SECTION  
 A-301 SCALE: 1:50

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



US ARMY CORPS  
 OF ENGINEERS  
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 ENGINEER DISTRICT

Date	Rev.	Appr.	Mark	Description

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Dwn by:	KJG	Reviewed by:	LHM
Submitted by:	BAKER	Drawing code:	ANAWFA-301BS
Date:	2/08/10	Design file no.:	
File name:	ANAWFA-301BS	Plot date:	2/22/2010
Plot scale:	1:50		

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 Michael Baker, Jr., Inc.  
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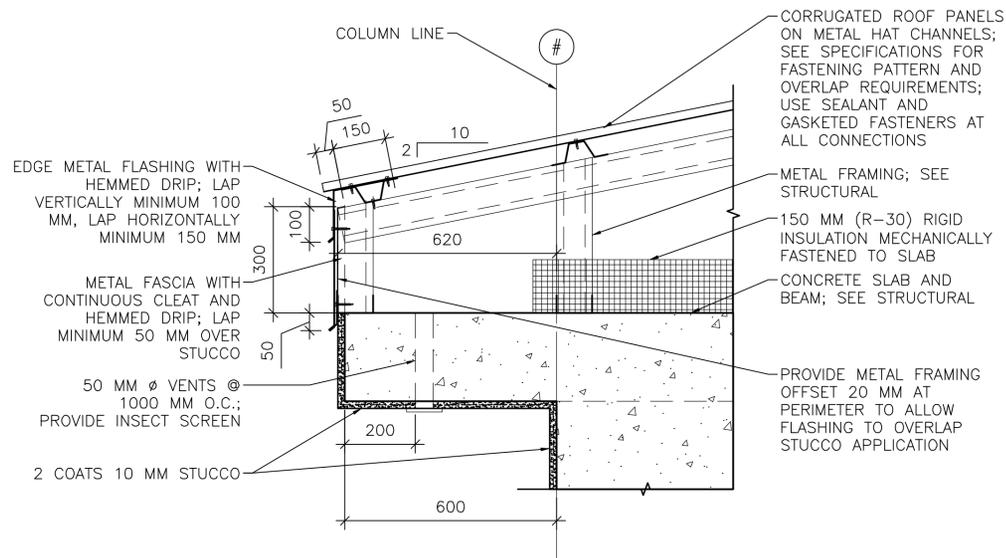
AFGHAN NATIONAL ARMY  
 REGIONAL MILITARY TRAINING CENTER  
 STANDARD DESIGN  
 VEHICLE MAINTENANCE FACILITY  
 BUILDING SECTIONS

APPROVED:  
*Kevin R. Chafin*  
 A/E DESIGNER OF RECORD

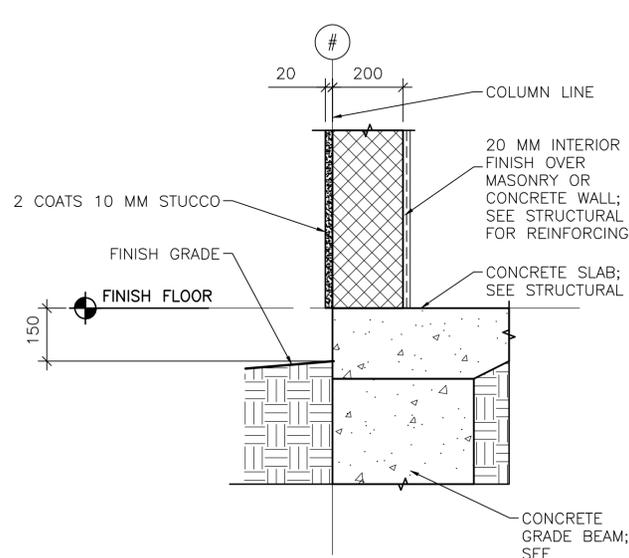


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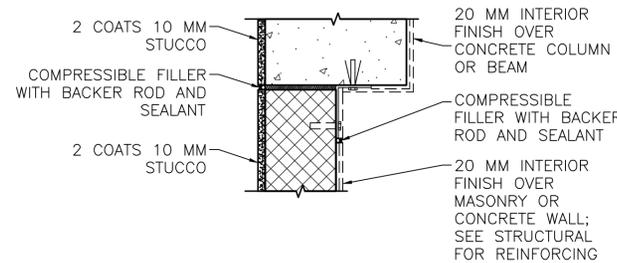




1 EAVE DETAIL  
A-501 SCALE: 1:10

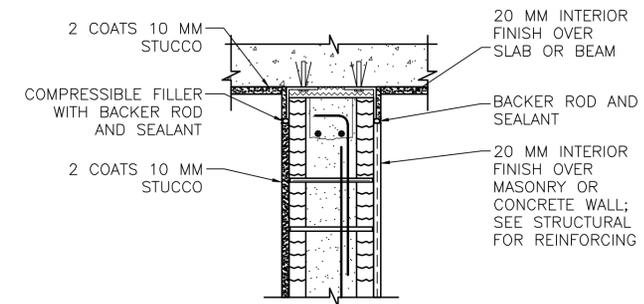


2 STUCCO BASE DETAIL  
A-501 SCALE: 1:10



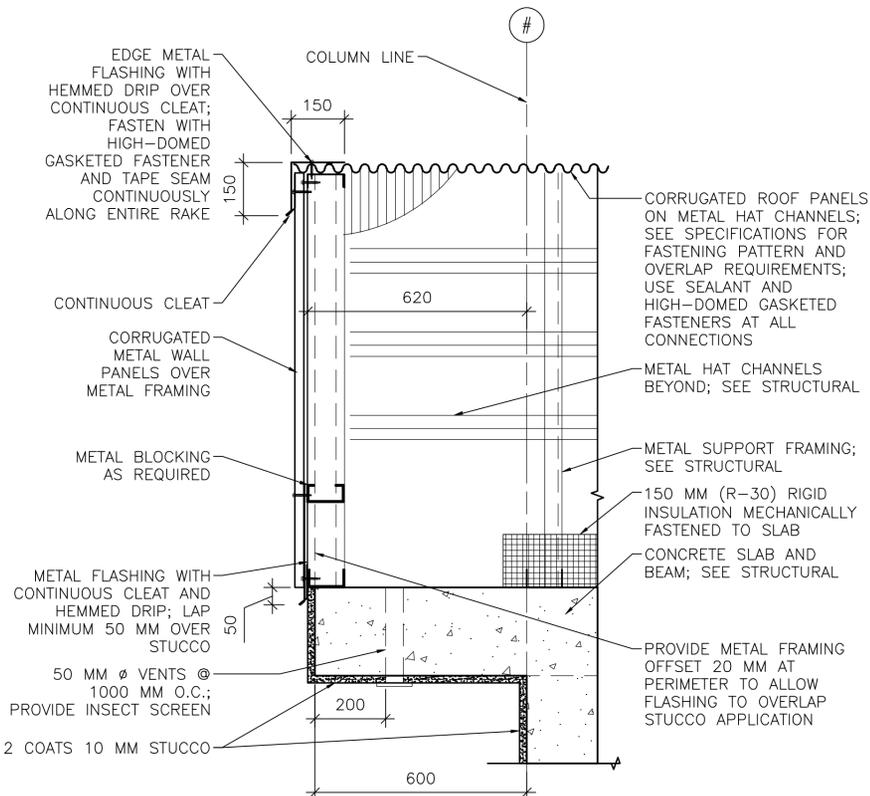
NOTE: DETAIL TYPICAL AT ALL WALL/COLUMN AND WALL/BEAM LOCATIONS, SEE ALTERNATE BRACING DETAIL BELOW 2B/A-501.

2A STUCCO JOINT DETAIL  
A-501 SCALE: 1:10

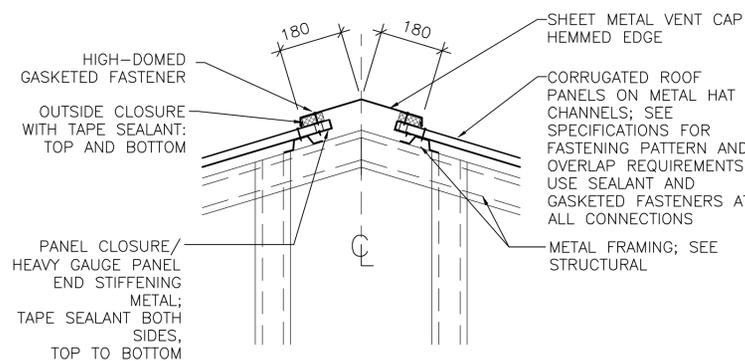


INTERIOR WALL/BEAM

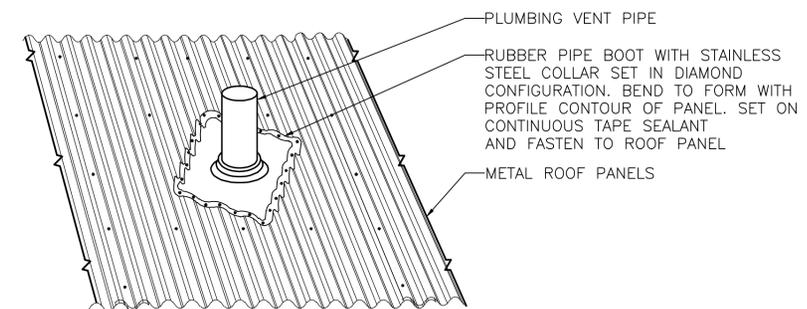
2B ALTERNATE BRACING DETAIL  
A-501 SCALE: 1:10



3 RAKE/EAVE DETAIL  
A-501 SCALE: 1:10



4 RIDGE VENT DETAIL  
A-501 SCALE: 1:10



5 PLUMBING VENT DETAIL  
A-501 SCALE: NTS

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

0 200 400  
SCALE: 1:10

APPROVED:  
*[Signature]*  
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SEAL:



Rev.	Date	Description	Mark	Date	Appr.
0	2/08/10	Design file no.			
		Drawn by: KJG			
		Checked by: NLJ			
		Reviewed by: LHM			
		Submitted by: BAKER			
		Drawing code: ANAWFA-SDT			
		File name: ANAWFA-SDT			
		Plot date: 2/22/2010			
		Plot scale: x:1			

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EXTERIOR DETAILS

Sheet reference number:  
A-501





1

2

3

4

5



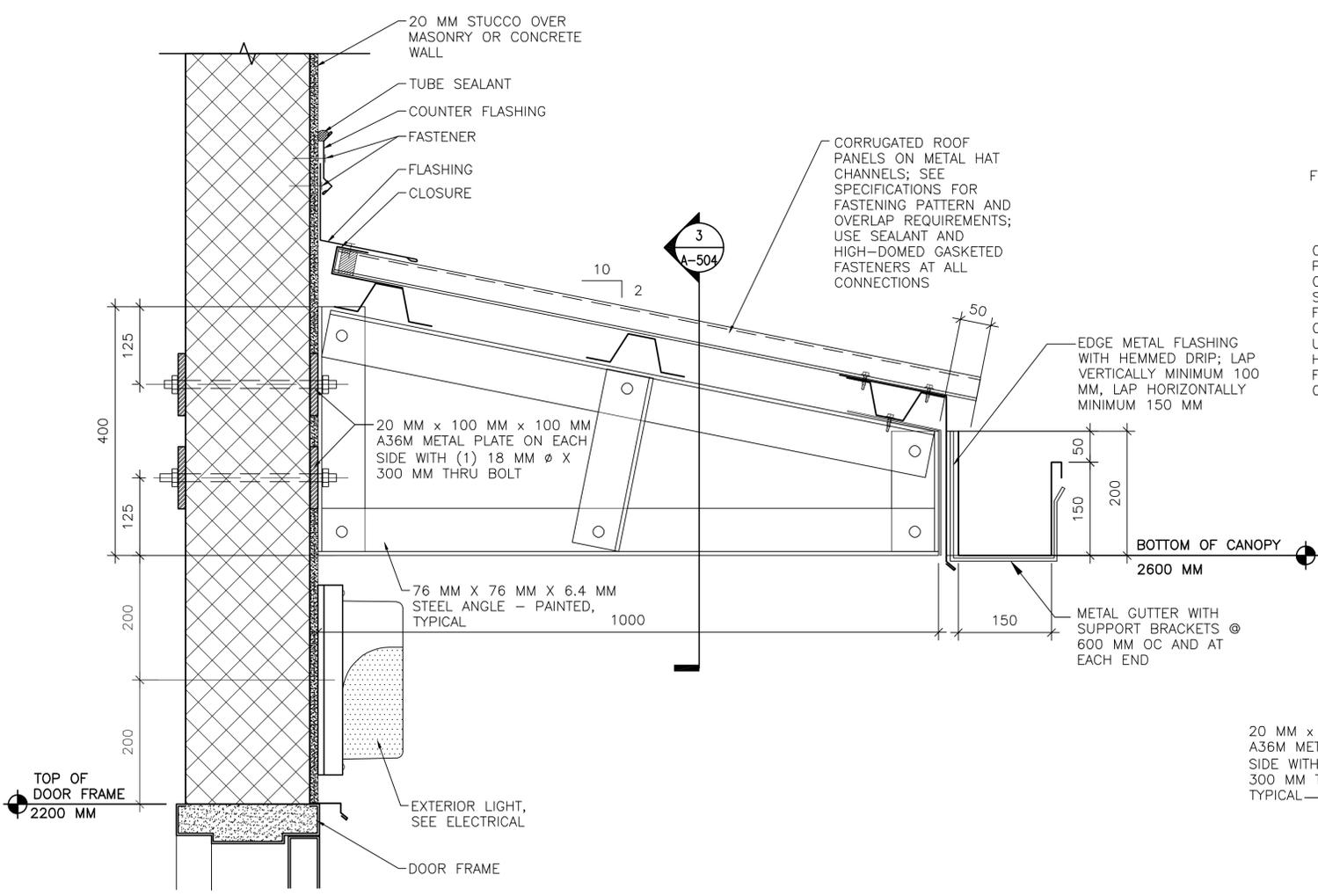
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Rev.	Date	Description
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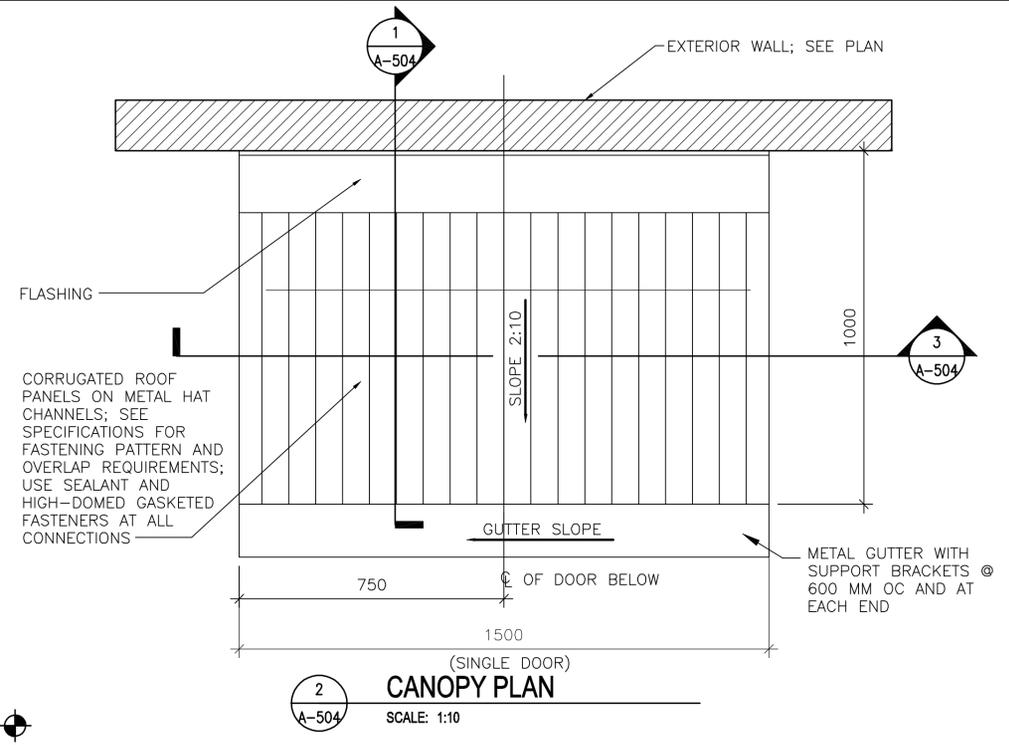
Designed by:	KRC	Checked by:	NLJ
Dwn by:	KJG	Reviewed by:	LHM
Submitted by:	BAKER	Drawing code:	ANAWFA-SMDT
		File name:	ANAWFA-SMDT
		Plot date:	22/2010
		Plot scale:	1:5

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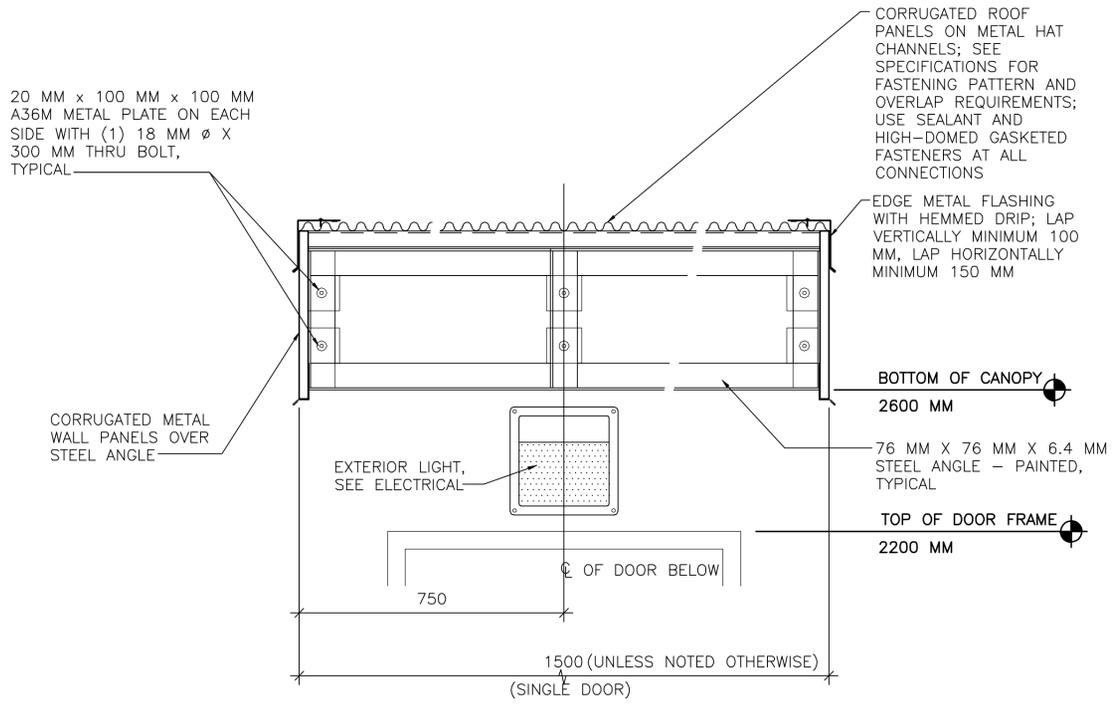
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**A-504**



**1 CANOPY CONNECTION DETAILS**  
SCALE: 1:5



**2 CANOPY PLAN**  
SCALE: 1:10



**3 CANOPY CONNECTION DETAILS**  
SCALE: 1:10

**SHEET NOTES:**

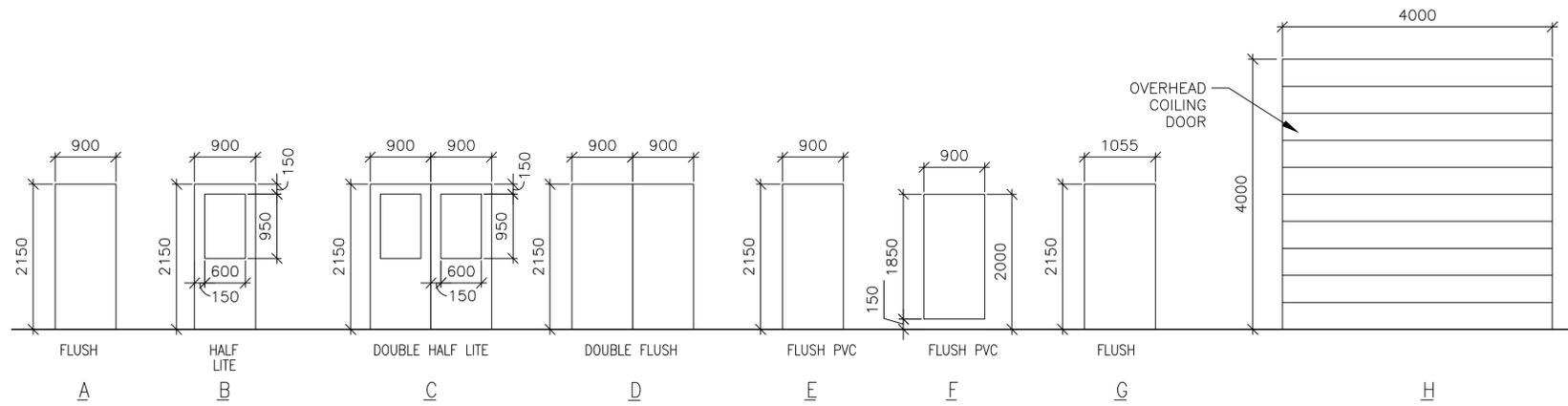
- SEE A-101 FOR FLOOR PLANS AND CANOPY LOCATIONS.

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*[Signature]*  
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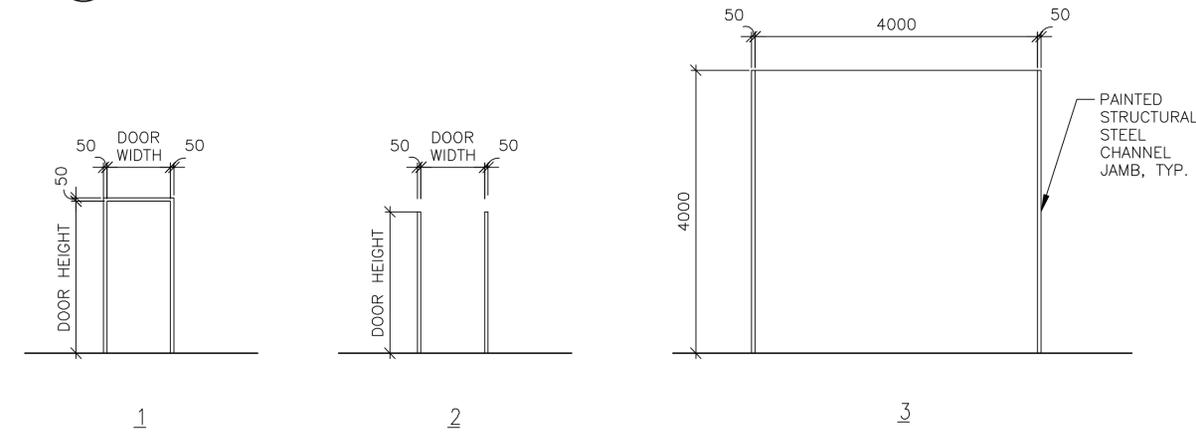


LINEAR DIMENSIONS SHOWN ARE IN MILLIMETERS (MM), UNLESS OTHERWISE NOTED  
SCALE: 1:5

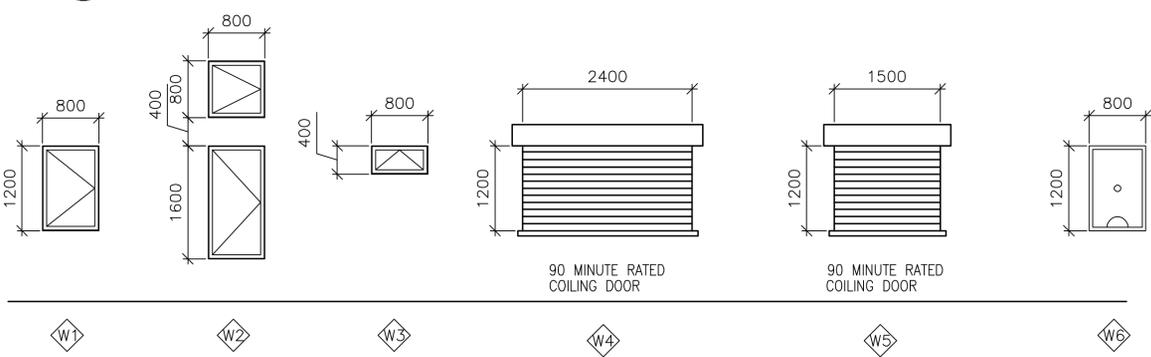
D  
C  
B  
A



1 DOOR TYPES  
A-601 SCALE: 1:50



2 FRAME TYPES  
A-601 SCALE: 1:50



3 WINDOW TYPES  
A-601 SCALE: 1:50

**WINDOW TYPE NOTES:**

1. ALL EXTERIOR WINDOWS SHALL BE ALUMINUM WITH INSECT SCREENS. WINDOWS SHALL BE COMMERCIAL GRADE.
2. ALL EXTERIOR WINDOWS SHALL BE OPERABLE.

**DOOR TAG NOTES:**

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

4 DOOR TAG  
A-601 SCALE: NTS

5 RATED DOOR TAG  
A-601 SCALE: NTS

**EXTERIOR DOOR HARDWARE TYPES:**

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

**DOOR AND HARDWARE NOTES:**

1. INTERIOR AND EXTERIOR METAL DOORS AND FRAME COLORS SHALL MATCH ADJACENT WALL COLORS AS SELECTED BY THE CONTRACTING OFFICER.
2. FRAMES, EXCEPT FIRE-RATED FRAMES, SHALL BE MOUNTED AND ADJUSTED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. FRAMES SHALL BE FASTENED WITH MINIMUM OF THREE ANCHORS PER JAMB AT EQUAL INTERVALS.
3. DIMENSIONS SHOWN ON DOOR TYPES DETAIL ARE BASED UPON MODULAR MASONRY (OR ROUGH OPENING), HEIGHT OF 2200 MM FOR STANDARD PERSONNEL DOORS. CONTRACTOR SHALL COORDINATE WITH DOOR SUPPLIER TO ENSURE THAT DIMENSIONS OF DOORS AND FRAMES PROVIDED ARE COMPATIBLE WITH DOOR OPENING DIMENSIONS.
4. HARDWARE SHALL BE HEAVY DUTY, COMMERCIAL GRADE, STAINLESS STEEL WITH A SATIN OR BRUSHED FINISH.
5. HARDWARE TYPES INCLUDE BUILDERS HARDWARE MANUFACTURERS ASSOCIATION (BMHA) NUMBER.
6. DOORS IN 2 HOUR RATED PARTITIONS SHALL BE 1.5 HOUR (90 MINUTE) RATED DOORS IN ACCORDANCE WITH NFPA 101, TABLE 8.3.4.2.
7. DOORS AT STAIR ENCLOSURES SHALL BE 1 HOUR (60 MINUTE) RATED AT 1 HOUR WALL IN ACCORDANCE WITH NFPA 101, TABLE 8.3.4.2.
8. DOORS IN 1 HOUR RATED WALLS SHALL BE 3/4 HOUR (45 MINUTE) RATED DOORS IN ACCORDANCE WITH NFPA 101, TABLE 8.3.4.2.
9. DOORS IN 1 HOUR RATED CORRIDOR WALLS SHALL BE 1/3 HOUR (20 MINUTE) IN ACCORDANCE WITH NFPA 101, TABLE 8.3.4.2.
10. PROVIDE DOOR STOPS TO PROTECT WALLS ON LOCATIONS WHERE DOOR SWING WILL STRIKE WALL.

**INTERIOR DOOR HARDWARE TYPES:**

- HW-5 1-1/2 PR HINGES, A8133 114 X 114  
1 EA LOCKSET W/LEVER HANDLES, F08, GRADE 1  
1 EA WALL STOP, L02101 OR L02161  
3 EA DOOR SILENCERS, L03011
- HW-6 1-1/2 PR HINGES, A8112 114 X 114  
1 EA LOCKSET W/LEVER HANDLES, F08, GRADE 1  
1 EA WALL STOP, L02101 OR L02161  
1 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE  
3 EA DOOR SILENCERS, L03011
- HW-7 1-1/2 PR HINGES, A8133  
1 EA LOCKSET W/LEVER HANDLES, F13 GRADE 1  
1 EA WALL STOP, L02101 OR L02161  
2 EA MOP PLATE, J103  
3 EA DOOR SILENCERS, L03011
- HW-8 1-1/2 PR HINGES, A8112  
1 EA LOCKSET W/LEVER HANDLES, F13 GRADE 1  
1 EA WALL STOP, L02101 OR L02161  
2 EA MOP PLATE, J103  
1 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE  
3 EA DOOR SILENCERS, L03011
- HW-9 1-1/2 PR HINGES, A5112 114 X 114  
1 EA RIM EXIT DEVICE, TYPE 1  
1 EA CYLINDER, E09221A, GRADE 1  
1 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE  
3 EA DOOR SILENCERS, L03011
- HW-10 3 PR HINGES, A5112 114 X 114  
1 EA LOCKSET W/LEVER HANDLES, GRADE 1, F13  
2 EA LEVER EXTENSION FLUSH BOLTS, L04081  
1 EA ASTRAGAL  
2 EA DOOR SILENCERS, L03011
- HW-11 1-1/2 PR HINGES, A8112 114 X 114  
1 EA LOCKSET W/LEVER HANDLES, F13, GRADE 1  
1 EA WALL STOP, L02101 OR L02161  
1 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE  
3 EA DOOR SILENCERS, L03011  
1 EA ROBE HOOK
- HW-12 1-1/2 PR HINGES, A8133  
1 EA LATCHSET W/LEVER HANDLES, F76 GRADE 1  
1 EA WALL STOP, L02101 OR L02161  
2 EA MOP PLATE, J103  
3 EA DOOR SILENCERS, L03011  
1 EA ROBE HOOK
- HW-13 3 PR HINGES, A5112 114 X 114  
1 EA LOCKSET W/LEVER HANDLES, GRADE 1, F13  
1 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE  
2 EA LEVER EXTENSION FLUSH BOLTS, L04081  
1 EA ASTRAGAL  
2 EA DOOR SILENCERS, L03011
- HW-14 3 PR HINGES, A5112 114 X 114  
2 EA RIM EXIT DEVICE, TYPE 1  
2 EA CYLINDER, GRADE 1  
2 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE  
1 EA DOOR COORDINATOR, TYPE 21  
1 EA ASTRAGAL  
2 EA DOOR SILENCERS, L03011

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



Rev.	Date	Description	Mark	Appr.

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

Date: 2/08/10  
Design file no.:  
Drawing code: ANAWFA-001SCH  
File name: ANAWFA-001SCH  
Plot date: 2/22/2010  
Plot scale: xx

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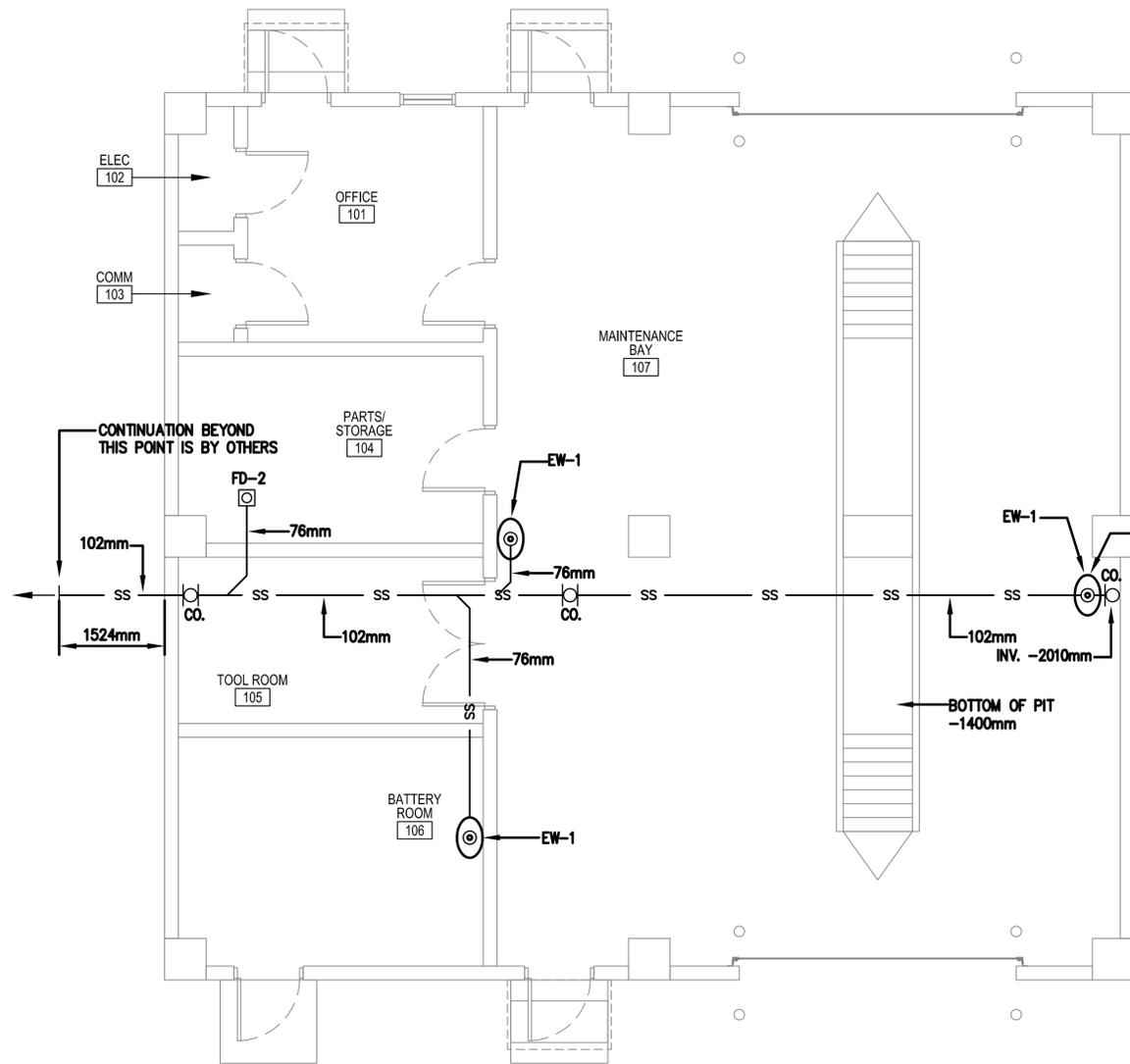
VEHICLE MAINTENANCE FACILITY

WINDOW AND DOOR SCHEDULES

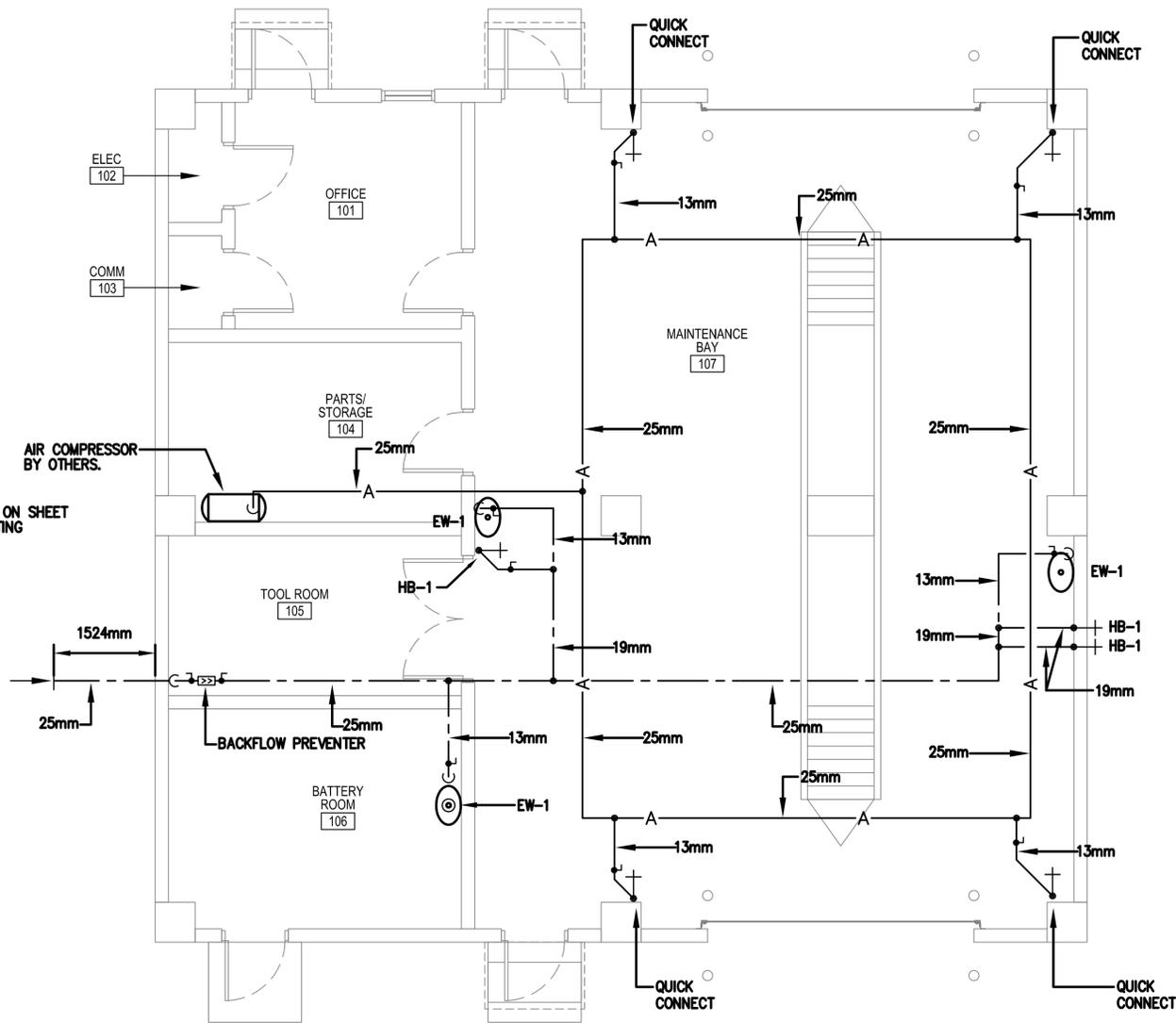
APPROVED: *[Signature]*  
A/E DESIGNER OF RECORD

SEAL:  
STATE OF SOUTH CAROLINA  
KEVIN R. CHAFIN  
N. Charleston, SC  
6374  
REGISTERED ARCHITECT

Sheet reference number:  
A-601



**1**  
P-101  
VEHICLE MAINTENANCE FACILITY  
FLOOR PLAN - PLUMBING (SANITARY/VENTING)  
SCALE: 1:50



**2**  
P-101  
VEHICLE MAINTENANCE FACILITY  
FLOOR PLAN - PLUMBING (WATER & AIR)  
SCALE: 1:50

FIXTURE LIST							
TYPE	ITEM	SOIL & WASTE	VENT	COLD WATER	HOT WATER	REMARKS	REMARKS 2
EW-1	EYE WASH	76mm	38mm	13mm	-----	FLOOR MOUNTED FIXTURE	LOW FLOW EFFICIENT TYPE
AC-1	AIR COMPRESSOR	INDIRECT TO FLOOR DRAIN	-----	-----	-----	FLOOR MOUNT	PROVIDED BY OTHERS
HB-1	HOSE BIBB	-----	-----	19mm	-----	FROST FREE	-----

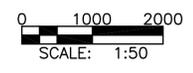
**PLUMBING SYMBOLS**

- SS (solid line) SANITARY SEWER PIPING (BELOW GROUND)
- SS (dashed line) SANITARY SEWER PIPING (ABOVE GROUND)
- V (dashed line) VENT PIPING (V)
- CW (solid line) COLD WATER PIPING (CW)
- HW (dashed line) HOT WATER PIPING (HW)
- A (solid line) COMPRESSED AIR LINE
- (circle) BALL VALVE
- ⊗ (circle with arrow) BACKFLOW PREVENTER
- ⊗ OR ⊕ (circle with cross) CLEANOUT (CO.)
- ⊙ (circle with dot) ROOF PENETRATION

**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.
- REFER TO SHEET P501 FOR DETAILS AND SYMBOLS.
- ALL WATER, SANITARY, COMPRESSED AIR AND VENT LINES TO BE EXPOSED. RUN LINES TIGHT TO CEILING AND WALL.

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



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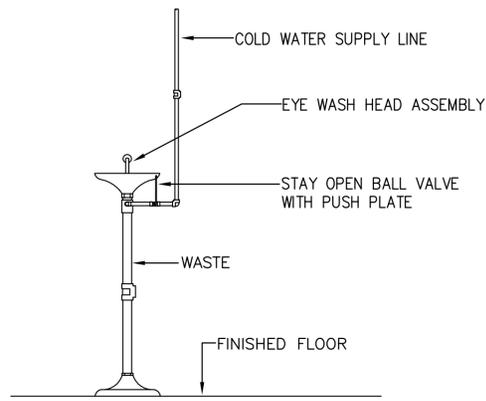
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		Plot date: 02/23/10
		Plot scale: 1:50

Designed by:	RMH
Drawn by:	RMH
Checked by:	CM
Reviewed by:	
Submitted by:	BAKER

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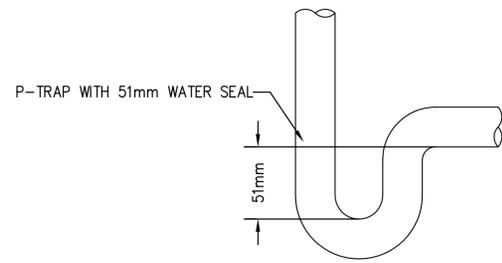
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FLOOR PLAN - PLUMBING

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P-101



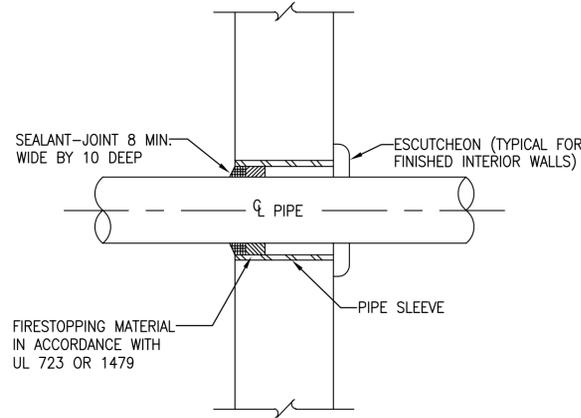
**TYPICAL EMERGENCY EYEWASH**

SCALE: N.T.S.



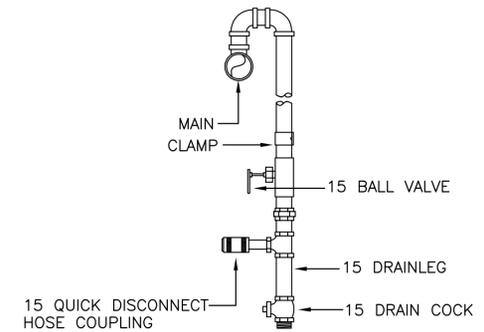
**TYPICAL P-TRAP DETAIL WITH 51mm WATER SEAL**

SCALE: N.T.S.



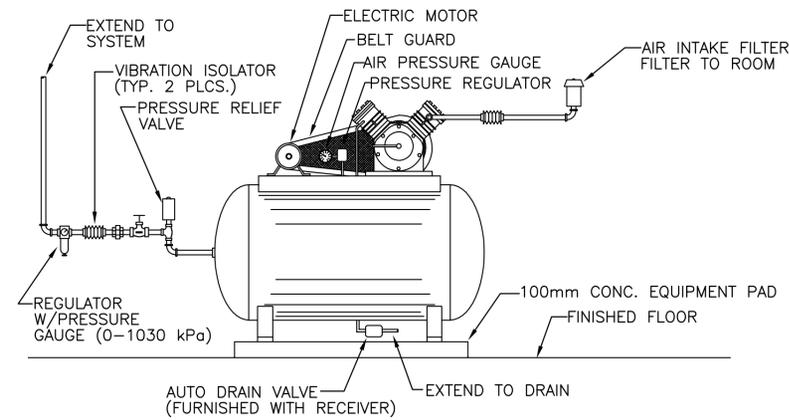
**TYPICAL WALL PENETRATION DETAIL**

SCALE: N.T.S.



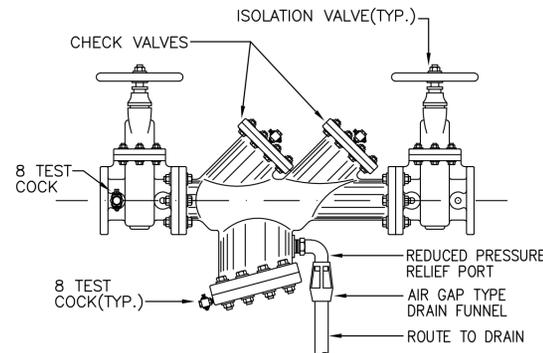
**TYPICAL AIR DROP DETAIL**

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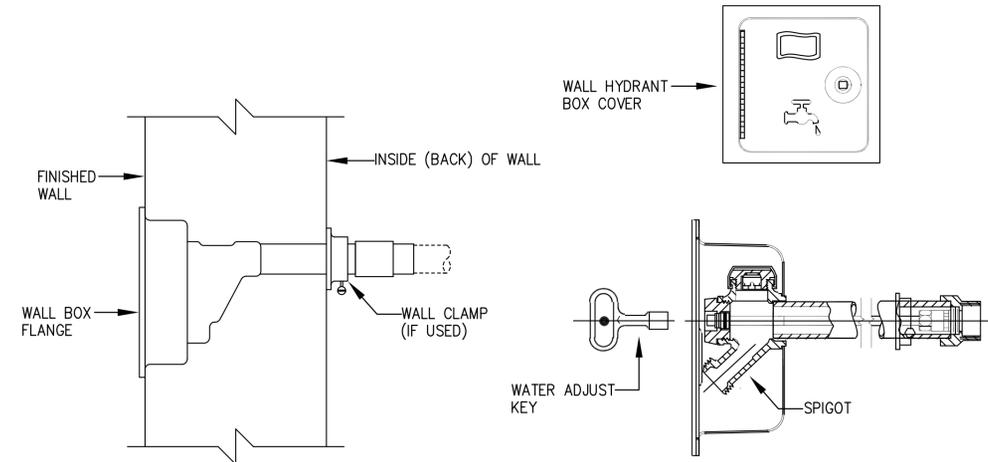
**TYPICAL HORIZONTAL AIR COMPRESSOR DETAIL**

SCALE: N.T.S.



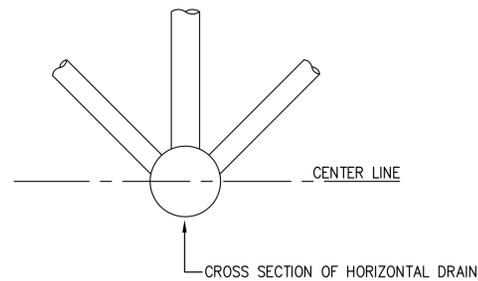
**TYPICAL BACKFLOW PREVENTER DETAIL**

SCALE: N.T.S.



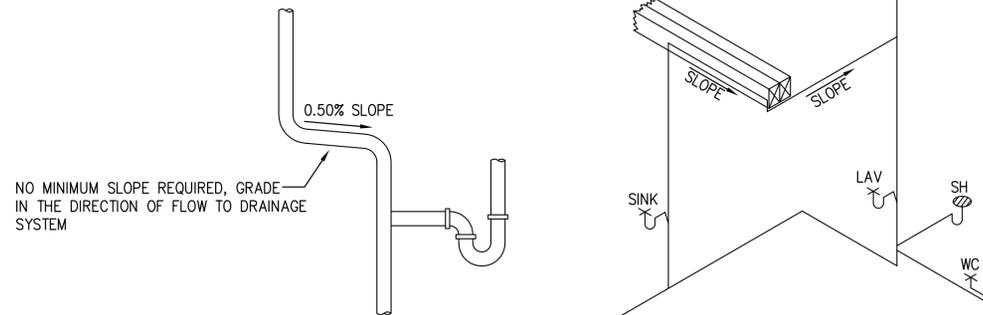
**TYPICAL FREEZEPROOF WALL HYDRANT DETAIL**

SCALE: N.T.S.



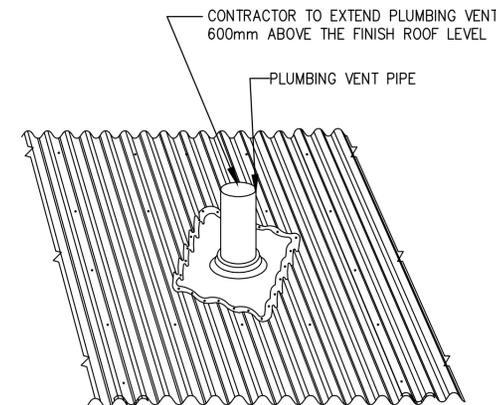
**ACCEPTABLE VENT CONNECTIONS TO HORIZONTAL DRAIN - DETAIL**

SCALE: NTS



**TYPICAL VENT SLOPE DETAILS**

SCALE: NTS



**PLUMBING VENT THRU ROOF DETAIL**

SCALE: NTS

APPROVED:

A/E DESIGNER OF RECORD

SEAL:

*Matthew R. Sotosky*



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AFGHANISTAN ENGINEER DISTRICT

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Checked by:	CUM
Reviewed by:	
Submitted by:	BAKER

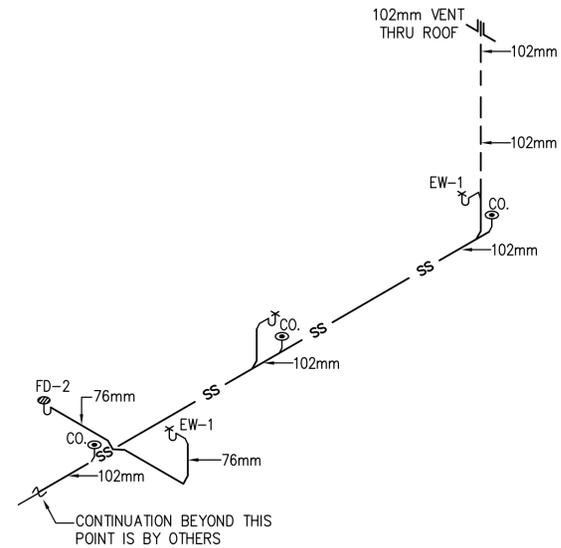
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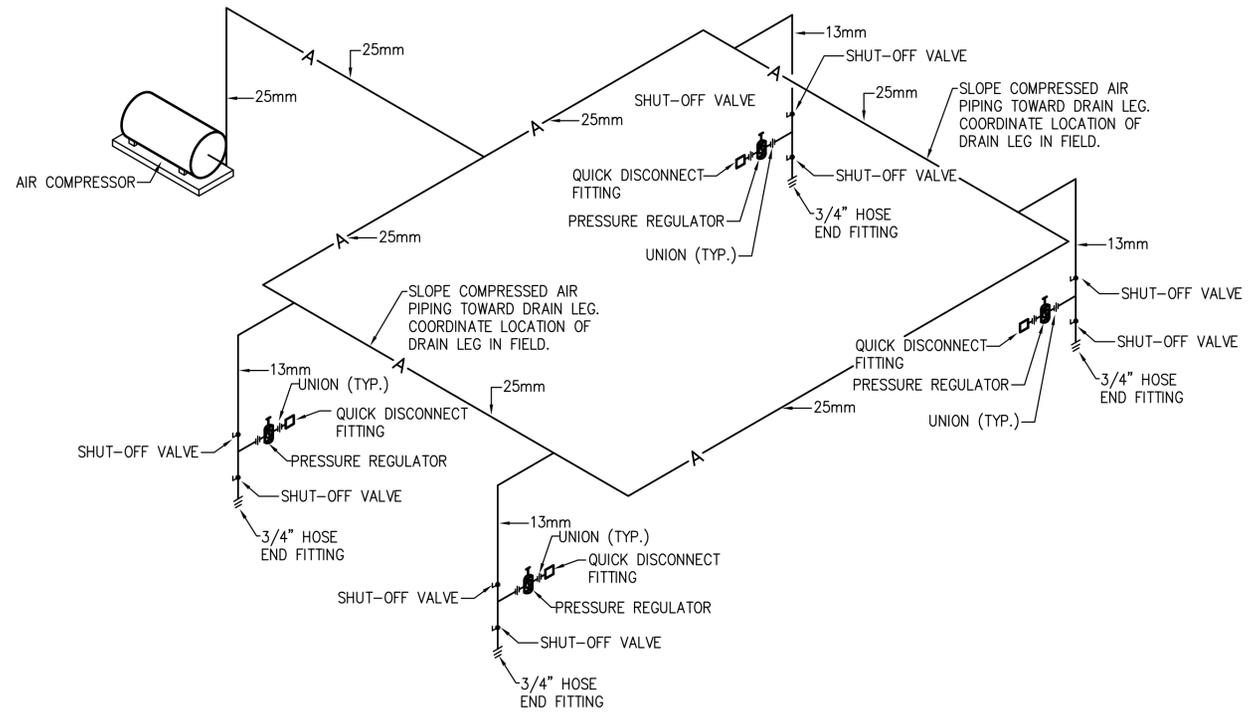
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VEHICLE MAINTENANCE FACILITY  
PLUMBING DETAILS

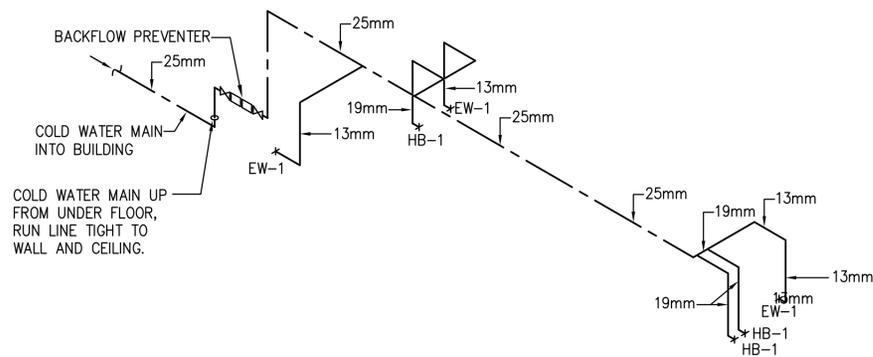
Sheet reference number:  
P-501



**1**  
**VEHICLE MAINTENANCE FACILITY DRAINAGE ISOMETRIC**  
 SCALE: N.T.S.



**3**  
**VEHICLE MAINTENANCE FACILITY COMPRESSED AIR ISOMETRIC**  
 SCALE: N.T.S.



**2**  
**VEHICLE MAINTENANCE FACILITY COLD WATER ISOMETRIC**  
 SCALE: N.T.S.

**PLUMBING NOTES:**

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- 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 WATER, SANITARY, COMPRESSED AIR AND VENT LINES TO BE EXPOSED. RUN LINES TIGHT TO CEILING AND WALL.

**PLUMBING SYMBOLS**

- SANITARY SEWER PIPING (BELOW GROUND)
- SANITARY SEWER PIPING (ABOVE GROUND)
- VENT PIPING (V)
- COMPRESSED AIR LINE
- COLD WATER PIPING (CW)
- HOT WATER PIPING (HW)
- BALL VALVE
- BACKFLOW PREVENTER
- CLEANOUT (CO.)
- ROOF PENETRATION

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Sheet reference number: P-901



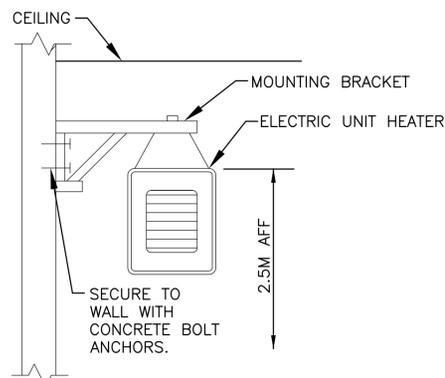
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Rev.	Date	Description
0	02/23/10	Design file no.
		Drawing code:
		File name: ANAM/PL010100X
		Plot date: 02/23/2010
		Plot scale: N.T.S.

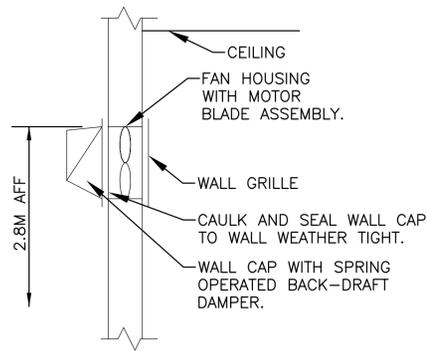
Designed by:	RMH
Drawn by:	RMH
Checked by:	CJM
Reviewed by:	
Submitted by:	BAKER

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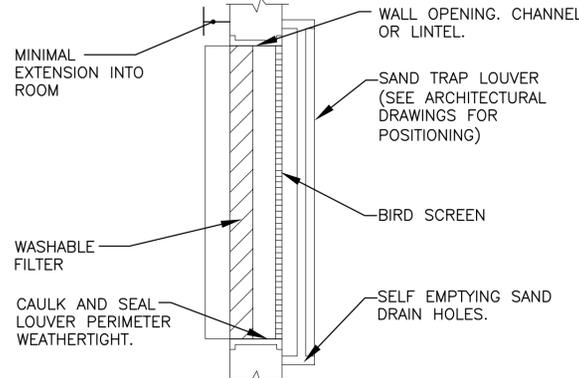
AFGHAN NATIONAL ARMY  
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 STANDARD DESIGN  
 VEHICLE MAINTENANCE FACILITY  
 DRAINAGE, COLD WATER AND  
 COMPRESSED AIR ISOMETRICS



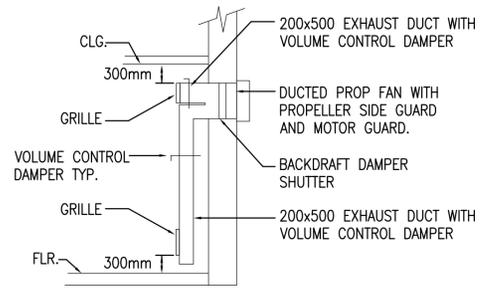
2 ELECTRIC UNIT HEATER MOUNTING DETAIL  
M-101 N.T.S.



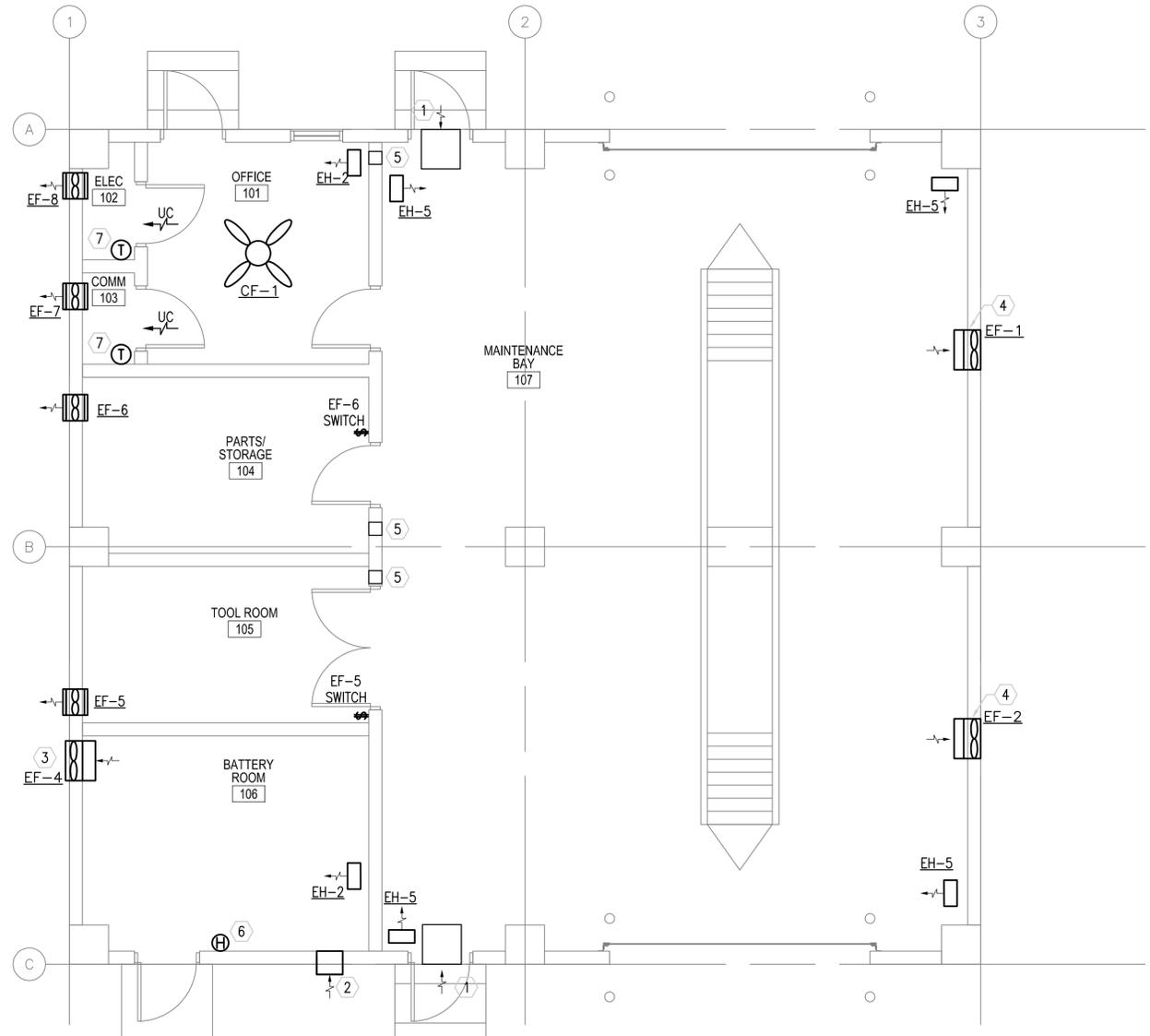
3 WALL EXHAUST FAN DETAIL  
M-101 N.T.S.



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



5 TYPICAL FAN HIGH LOW GRILLE DETAIL  
M-101 N.T.S.



1 FLOOR PLAN - HVAC  
SCALE: 1:50

EXHAUST FAN SCHEDULE							
NO.	TYPE	FAN CMS	DRIVE	HP	SP mmH2O	ELECT. CHAR.	SWITCH
EF-1	WALL	0.500	DIRECT	1/4	20	220/1/50	W/ LIGHTS
EF-2	WALL	0.500	DIRECT	1/4	20	220/1/50	W/ LIGHTS
EF-3	NOT USED						
EF-4	WALL	0.100	DIRECT	1/30	13	220/1/50	⊙ PANEL
EF-5	WALL	0.050	DIRECT	FRACT	9.5	220/1/50	⊙ WALL
EF-6	WALL	0.050	DIRECT	FRACT	9.5	220/1/50	⊙ WALL
EF-7	WALL	0.035	DIRECT	FRACT	9.5	220/1/50	W/ STAT
EF-8	WALL	0.035	DIRECT	FRACT	9.5	220/1/50	W/ STAT

NOTE:  
1. FANS SHALL HAVE SPRING OPERATED BACK-DRAFT DAMPER.  
2. FINAL ELECTRICAL CONNECTIONS BY E.C.

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
EH-5	0.200	5	38	380/1/50	WALL HUNG

NOTES:  
1. UNIT HEATERS SHALL HAVE TAMPER PROOF INTEGRAL STATS.  
2. HEATERS SHALL BE CORROSION RESISTANT.  
3. 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:  
1. FINAL ELECTRICAL CONNECTIONS BY E.C.  
2. INSTALL FANS 2.5M AFF.  
3. PROVIDE WITHOUT LIGHT FIXTURE.  
4. PROVIDE WITH REMOTE MOUNTED ON-OFF SWITCH SHOWN ON ELECTRICAL DRAWINGS.

**GENERAL NOTES:**

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

**SYMBOLS:**

- ⊗ KEY NOTE
- (0.050) AIR VOLUME IN CUBIC METERS PER SECOND (CMS)
- VOLUME DAMPER
- ⊕ HYDROGEN SENSOR
- UC DOOR UNDERCUT
- Ⓢ SINGLE POLE SWITCH - 20A RATED

**ABBREVIATIONS:**

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

**BATTERY ROOM FAN OPERATION:**

THE BATTERY ROOM EXHAUST FAN SHALL BE INTERLOCKED WITH A HYDROGEN SENSOR TO PROVE FAN IS OPERATING. AN ALARM SHALL SOUND WITH INCREASED HYDROGEN LEVELS AND THE CHARGERS SHALL BE SHUT DOWN. THE FAN SHALL BE INTERLOCKED WITH THE BATTERY CHARGER SO THAT THE CHARGER WILL NOT OPERATE WITHOUT VENTILATION. FAN MOTORS SHALL BE INSTALLED OUTSIDE THE BATTERY ROOM AND THE BLOWER SHALL BE NON-SPARKING.

**KEY NOTE:**

- 600X400 (24X16) LOW LEAKAGE GRAVITY WALL LOUVER FOR INTAKE. PROVIDE WEATHER PROOF LOUVER W/ 50mm (2") WASH DOWN FILTER AND SAND TRAP.
- 400X200 (16X8) LOW LEAKAGE GRAVITY WALL LOUVER FOR INTAKE. PROVIDE WEATHER PROOF LOUVER W/ 50mm (2") WASHABLE FILTER AND SAND TRAP.
- WALL EXHAUST FAN MOUNTED AS HIGH AS POSSIBLE, EXTEND DUCT INTO BATTERY ROOM WITH END OPEN. FAN MOTOR SHALL BE OUT OF THE AIR STREAM. FAN TO BE EXPLOSION PROOF.
- WALL EXHAUST FAN MOUNTED AS HIGH AS POSSIBLE, EXTEND DUCT DOWN TO 150mm ABOVE FLOOR. PROVIDE 2 300X300 (12X12) GRILLES ONE LOCATED 300 (12") AFF AND THE OTHER AT 300 (12") BELOW CEILING. SEE DETAIL THIS SHEET. INTERLOCK FANS WITH LIGHTS. SEE DETAIL "5" THIS SHEET.
- 200X200 (8X8) TRANSFER GRILLE.
- HYDROGEN SENSOR INTERLOCKED W/ EF-4 MOUNTED AT CEILING.
- 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).



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0	02/23/10	Design file no.
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		File name: ANAM/AM-101000
		Plot date: 02/23/10
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Designed by: RML  
Dwn by: JUN  
Cld by: CUM  
Reviewed by: MRS  
Submitted by: BAKER

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VEHICLE MAINTENANCE FACILITY  
HVAC - FLOOR PLAN,  
SCHEDULES AND DETAILS

Sheet reference number:  
M-101

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

0 1000 2000  
SCALE: 1:50

APPROVED:

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SEAL:

- POWER**
- DISTRIBUTION PANELBOARD
  - NEW PANELBOARD - SURFACE
  - NEW PANELBOARD - RECESSED
  - GENERATOR
  - TRANSFORMER (DRAWN TO SIZE)
  - JUNCTION BOX
  - JUNCTION BOX - CEILING
  - FUSIBLE SAFETY SWITCH
  - MOTOR
  - MOTOR STARTING SWITCH - 220V, 20A RATED UNLESS OTHERWISE NOTED
  - ELECTRIC WATER HEATER
  - CEILING FAN - REFER TO SPECIFICATION SECTION 26 20 00
- RECEPTACLES**
- DUPLEX 20A TYPE CEE 7/7 "SCHUKO STYLE" UNSWITCHED RECEPTACLE
  - DUPLEX 20A TYPE CEE 7/7 "SCHUKO STYLE" UNSWITCHED RECEPTACLES - 10mA GROUND FAULT INTERRUPTER TYPE
  - DUPLEX 20A TYPE CEE 7/7 "SCHUKO STYLE" UNSWITCHED TYPE WITH WEATHERPROOF COVER - 10mA GROUND FAULT INTERRUPTER TYPE
  - DUPLEX 20A TYPE CEE 7/7 "SCHUKO STYLE" UNSWITCHED RECEPTACLES - EXPLOSION PROOF
- \* INDICATES MOUNT DEVICE ABOVE COUNTERTOP OR AT 1070mm ABOVE FINISHED FLOOR WHERE NO COUNTER IS TO BE INSTALLED.

- LIGHTING**
- LIGHTING FIXTURE - SEE FIXTURE SCHEDULE FOR MORE INFORMATION
  - EMERGENCY LIGHTING FIXTURE - SEE FIXTURE SCHEDULE FOR MORE INFORMATION
  - DOWNLIGHT
  - LIGHTING FIXTURE ON NORMAL/EMERGENCY
  - WALL MOUNTED LIGHT FIXTURE
  - EXIT SIGN - DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS
  - REMOTE HEAD FOR BATTERY PACK
  - SINGLE POLE SWITCH - 20A RATED
  - 3-WAY SWITCH - 20A RATED
  - 4-WAY SWITCH - 20A RATED
  - LIGHTING CONTACTOR
  - POLE MOUNTED SITE LIGHTING FIXTURE- NUMBER OF FIXTURES PER POLE AS INDICATED ON DRAWINGS
  - EXTERIOR DIRECTIONAL LIGHTING FIXTURE
  - SMALL CASE LETTERS REPRESENTS LAMP(S) / SWITCHES.

- TELECOMMUNICATIONS**
- TELEPHONE OUTLET(S) @ 45cm AFF. U.N.O. WITH 20mm RACEWAY TERMINATED TO TELEDATA TERMINAL BOARD.
  - DATA OUTLET(S) @ 45cm AFF. U.N.O. WITH 20mm RACEWAY TERMINATED TO TELEDATA TERMINAL BOARD.

- TELECOMMUNICATIONS (CONTINUED)**
- COMBINATION TELEPHONE/DATA OUTLET(S) @ 45cm AFF. U.N.O. WITH 27mm RACEWAY TERMINATED TO TELEDATA TERMINAL BOARD.
  - WALL MTD. TELEPHONE OUTLET WITH 20mm RACEWAY TO TELEDATA TERMINAL BOARD.
  - INDICATES NUMBER OF TELEPHONE OUTLET(S) AND ASSOCIATED CABLING
  - INDICATES NUMBER OF DATA OUTLET(S) AND ASSOCIATED CABLING
  - INDICATES NUMBER OF TELEPHONE OUTLETS AND ASSOCIATED CABLING WITH 1 OUTLET AND CABLE DEDICATED FOR FAX
- SINGLE LINE SYMBOLS**
- SWITCH
  - BREAKER
  - FUSE
  - TRANSFORMER
  - GROUND
  - CONTACT (NORMALLY OPEN)
  - CONTACT (NORMALLY CLOSED)
  - TRANSFER SWITCH
  - CURRENT TRANSFORMER
  - INDICATES NEW ELECTRICAL EQUIPMENT
  - INDICATES NEW CONTROL WIRING AND CONDUIT
  - EQUIPMENT OUTLINE

- MISCELLANEOUS**
- BRANCH CIRCUIT WIRING, SURFACE MOUNTED ON WALLS
  - BRANCH CIRCUIT WIRING - 6mm<sup>2</sup>
  - BRANCH CIRCUIT WIRING - UNDER FLOOR
  - HOME RUN BACK TO PANEL
  - CONDUIT TURNED DOWN
  - CONDUIT TURNED UP
  - LOW VOLTAGE WIRING AND CONDUIT
  - INDICATES CONTINUATION OF LINE

- FIRE ALARM**
- FIRE ALARM CONTROL PANEL WITH BATTERY BACKUP
  - FIRE ALARM PULL STATION

- FIRE ALARM (CONTINUED)**
- FIRE ALARM STROBE - WALL MOUNTED
  - FIRE ALARM AUDIBLE/STROBE - WALL MOUNTED
  - FIRE ALARM HORN/STROBE - WALL MOUNTED
  - SMOKE DETECTOR
  - HEAT DETECTOR CEILING MOUNTED
  - DUCT DETECTOR - PROVIDED BY EC, INSTALLED BY MC AND CONNECTED BY EC

- DENOTATIONS & ABBREVIATIONS**
- AFF ABOVE FINISHED FLOOR
  - C CEILING MOUNTED
  - E EMERGENCY
  - EC ELECTRICAL CONTRACTOR
  - EPO EMERGENCY POWER OFF
  - EXP EXPLOSION PROOF
  - F FIRE ALARM
  - FF FLUSH FLOOR MOUNTED
  - FL FLUORESCENT
  - FO FIBER OPTIC
  - FSS FUSED SAFETY SWITCH
  - GF GROUND FAULT INTERRUPTER
  - GC GENERAL CONTRACTOR
  - IG ISOLATED GROUND
  - K KEY
  - LV LOW VOLTAGE
  - M MOTOR
  - MC MECHANICAL CONTRACTOR
  - NE NORMAL/EMERGENCY
  - NFSS NON-FUSED SAFETY SWITCH
  - PA PAGING SYSTEM
  - PLC PLUMBING CONTRACTOR
  - SL SINGLE LINE
  - T TELEPHONE

- DENOTATIONS & ABBREVIATIONS (CONT.)**
- TP TAMPER PROOF
  - UE UNDERGROUND ELECTRIC
  - W WALL MOUNTED
  - WP WEATHERPROOF WITH GROUND FAULT INTERRUPTION
  - WT WATER TIGHT
- GENERAL PROJECT NOTES:**
- G1. UNLESS OTHERWISE NOTED, PROVIDE ALL EQUIPMENT SHOWN ON THE PLANS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL SYMBOLS SHOWN ON THE PLANS WITH THE SYMBOL LIST. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE INTENT OF ANY SYMBOL THAT IS SHOWN ON THE PLANS AND NOT INDICATED ON THE SYMBOL LIST WITH THE ENGINEER PRIOR TO BID.
  - G2. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES WITHIN THE CONSTRUCTION AREA THREE (3) WORKING DAYS NOTICE BEFORE COMMENCING DIGGING. NOTIFY THE LOCAL AUTHORITY HAVING JURISDICTION AND WAIT THE REQUIRED TIME BEFORE COMMENCING TO DIG.
  - G3. THE CONTRACTOR SHALL COORDINATE CONDUIT RUNS, LIGHTING FIXTURES AND OTHER EQUIPMENT LOCATIONS WITH THE OTHER TRADE CONTRACTORS TO AVOID CONFLICTS.
  - G4. WHERE VOLTAGES AND FREQUENCIES ON THE DRAWINGS AND IN THE SPECIFICATIONS DIFFER FROM THE LOCAL ONES, ALL WORK SHALL BE PERFORMED USING THE LOCAL VOLTAGES AND FREQUENCIES.
  - G5. THE MINIMUM WIRE SIZE ON THE PROJECT SHALL BE 4mm<sup>2</sup>. THE MINIMUM CONDUIT SIZE SHALL BE 20mm. THE MINIMUM BREAKER SIZE SHALL BE 20 AMPS.
  - G6. THE CONTRACTOR SHALL PUT A MAXIMUM OF 6 DUPLEX RECEPTACLES ON A 20A SINGLE POLE CIRCUIT.
  - G7. WHERE THE 1010 SCOPE REVIEW, 1015 TECHNICAL REVIEW, DRAWINGS, AND SPECIFICATIONS DIFFER FROM AMERICAN CODES OR STANDARDS, THE 1010, 1015, DRAWINGS, AND SPECIFICATIONS SHALL RULE.
  - G8. ALL CONDUIT AND DEVICES SHALL BE SURFACE MOUNTED UNLESS OTHERWISE INDICATED.
  - G9. CONTRACTOR SHALL COORDINATE ALL WORK WITH ALL OTHER TRADES TO ENSURE ALL WORK IS COMPLETED IN A PROFESSIONAL, WORKMAN-LIKE MANNER.



Date	Rev.	Description
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Designed by: <b>KUR</b>	Checked by: <b>BUB</b>	Reviewed by: <b>JRG</b>	Submitted by: <b>BAKER</b>
Date: <b>2/23/10</b>	Design file no.:	Drawing code:	File name: Plot date:

AFGHAN NATIONAL ARMY  
REGIONAL MILITARY TRAINING CENTER  
STANDARD DESIGN

VEHICLE MAINTENANCE FACILITY  
ELECTRICAL SYMBOLS & ABBREVIATIONS

APPROVED:

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A/E DESIGNER OF RECORD

SEAL:

Sheet reference number:  
**E-001**

GENERAL NOTES:

1. REFER TO DRAWING #E-001 FOR THE ELECTRICAL SYMBOLS LIST.
2. REFER TO DRAWING #E-602 FOR PANEL SCHEDULES.
3. EXIT SIGNS SHALL BE WIRED AHEAD OF ANY LOCAL SWITCHING ON CIRCUITS. SEE WIRING DIAGRAM DETAIL 6, ON DRAWING #E-501.
4. REFER TO DRAWING #E-601 FOR THE LIGHTING FIXTURE SCHEDULE.
5. LIGHT FIXTURES INDICATED AS EMERGENCY SHALL BE PROVIDED WITH A BATTERY BACKUP BALLAST. SEE WIRING DIAGRAM DETAIL 7, ON DRAWING #E-501.
6. LIGHT FIXTURES SHALL BE PROVIDED WITH COLD WEATHER BALLAST.



Rev.	Date	Description
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Designed by: KJR	Checked by: BUB	Reviewed by: JRG	Submitted by: BAKER
Date: 2/23/10	Design file no.:	Drawing code:	File name: Plot date: Plot scale:

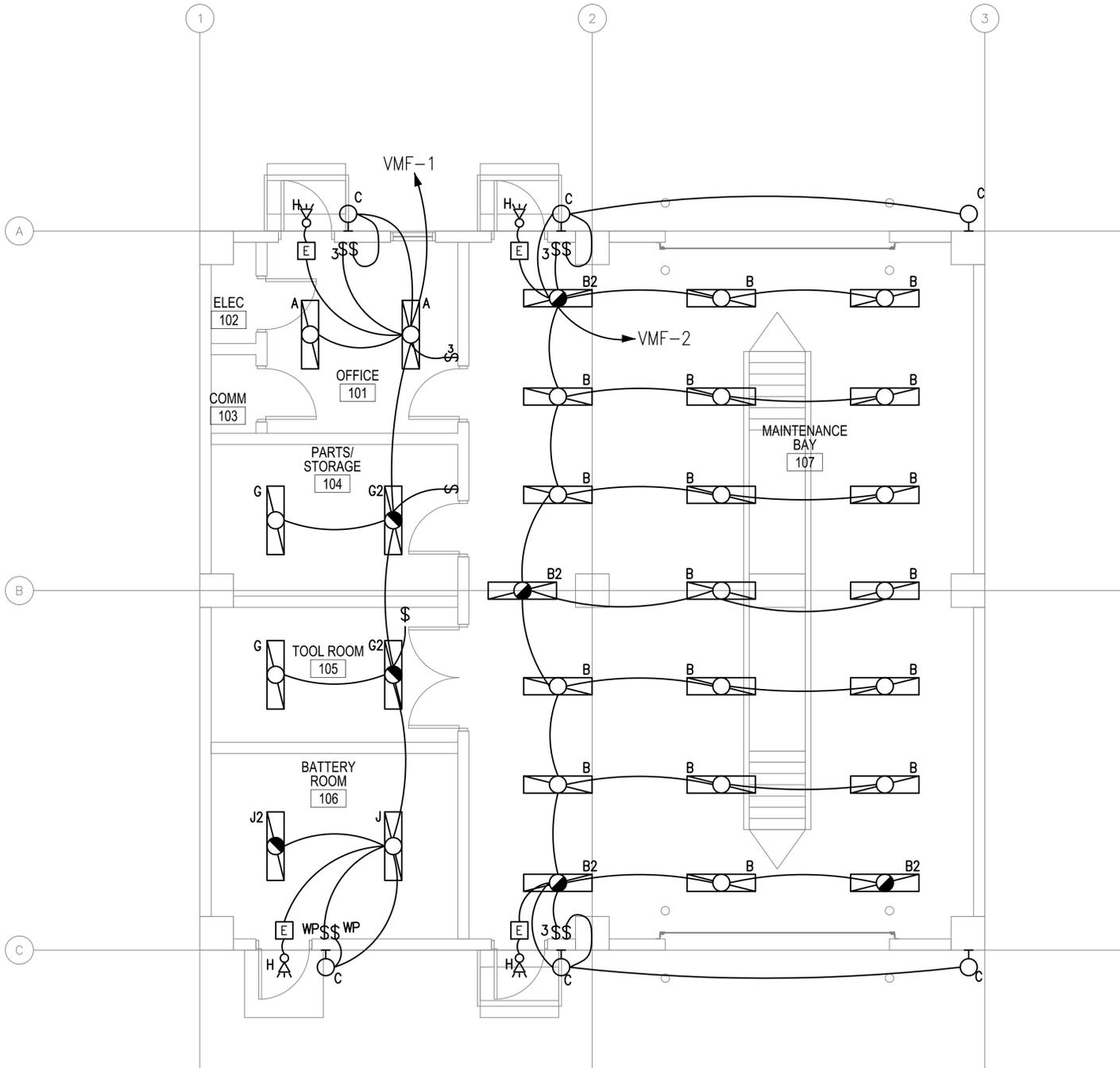
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VEHICLE MAINTENANCE FACILITY  
ELECTRICAL LIGHTING PLAN

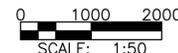
Sheet reference number:  
E-101



VEHICLE MAINTENANCE FACILITY  
FLOOR PLAN - LIGHTING

1  
E-101

SCALE: 1:100



APPROVED:

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SEAL:

GENERAL NOTES:

1. REFER TO DRAWING #E-001 FOR THE ELECTRICAL SYMBOLS LIST.
2. REFER TO DRAWING #E-501 FOR THE POWER RISER.
3. REFER TO DRAWING #E-602 FOR PANEL SCHEDULES.
4. COORDINATE EXACT MOUNTING LOCATION OF DISCONNECTING MEANS FOR MECHANICAL AND PLUMBING EQUIPMENT IN THE FIELD.
5. FUSIBLE SAFETY SWITCHES THAT ARE NOT OTHERWISE IDENTIFIED SHALL BE 380V, 1P, 30A FUSED SAFETY SWITCHES WITH 20A FUSES.

NUMBERED NOTE:

- 1 PANEL VMF.
- 2 PROVIDE ELECTRICAL CONNECTION TO AIR COMPRESSOR (BY OTHERS). COORDINATE ELECTRICAL CONNECTION WITH MODEL PURCHASED PRIOR TO ROUGH IN OF ELECTRICAL EQUIPMENT.
- 3 PROVIDE 1200mm X 2400mm PLYWOOD SHEET PAINTED WITH FIRE RESISTANT PAINT FOR MOUNTING TELECOMMUNICATIONS EQUIPMENT.
- 4 PROVIDE CONDUIT STUB UP IN THE ROOM FOR INCOMING TELECOMMUNICATIONS SERVICES FROM THE CENTRAL COMMUNICATIONS SYSTEM IN THE GARRISON.
- 5 PROVIDE POWER CONNECTION TO ELECTRIC HEATER #2. SEE DRAWINGS #M-101 AND #E-602 FOR MORE INFORMATION.
- 6 PROVIDE POWER CONNECTION TO EXHAUST FANS. SEE DRAWINGS #M-101 AND #E-602 FOR MORE INFORMATION.
- 7 PROVIDE POWER CONNECTION TO ELECTRIC HEATER #5. SEE DRAWINGS #M-101 AND #E-602 FOR MORE INFORMATION.



Rev.	Date	Description
0	2/23/10	Design file no.
		Drawn by: JRG
		Reviewed by: JRG
		Submitted by: BAKER

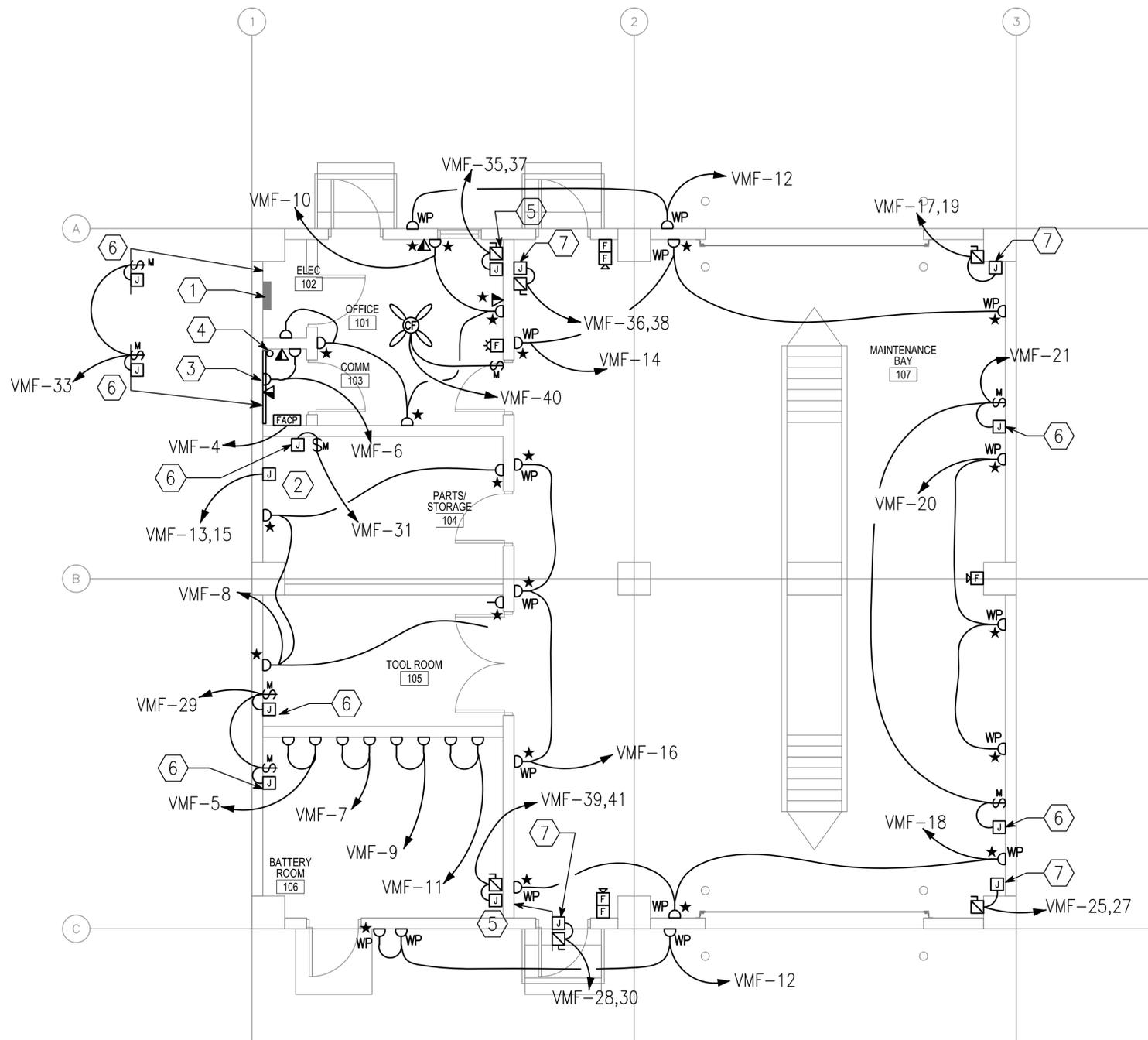
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VEHICLE MAINTENANCE FACILITY  
ELECTRICAL POWER AND SYSTEMS PLAN

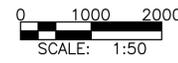
Sheet reference number:  
E-102



VEHICLE MAINTENANCE FACILITY  
FLOOR PLAN - POWER AND SYSTEMS

2  
E-102

SCALE: 1:50

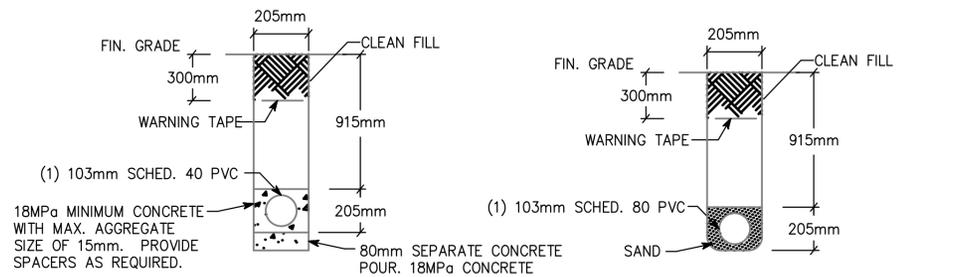


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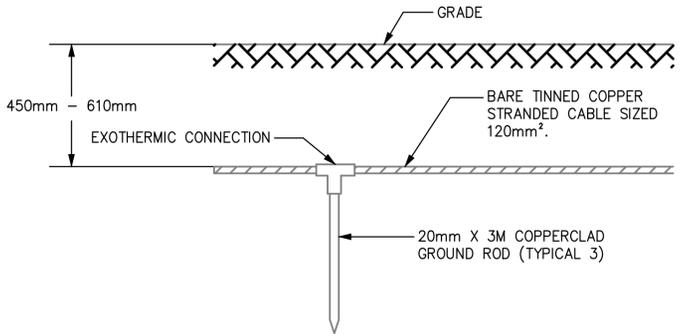
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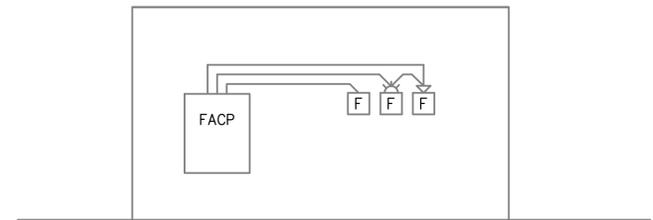


NOTE: PVC CONDUIT SHALL BE DIRECT BURIED SCHEDULE 80 FOR NO TRAFFIC AREAS AND CONCRETE-ENCASED SCHEDULE 40 FOR UNDER ROADWAYS OR TRAFFIC AREAS.

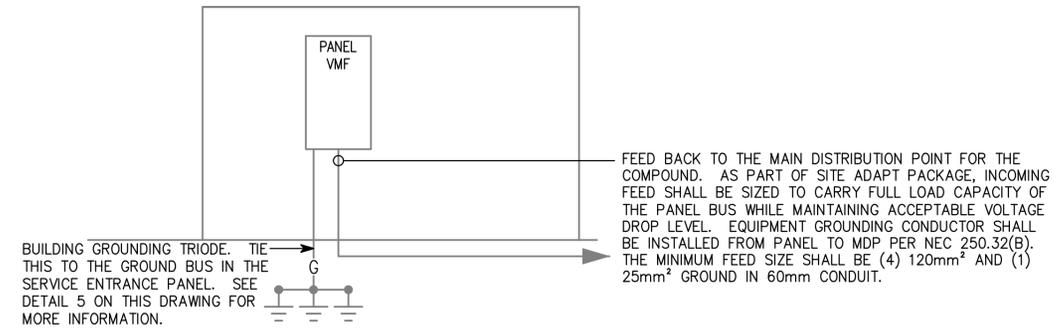
**1 TYPICAL DUCT BANK DETAILS FOR CONDUIT IN SAND OR CONCRETE**  
SCALE: N.T.S.



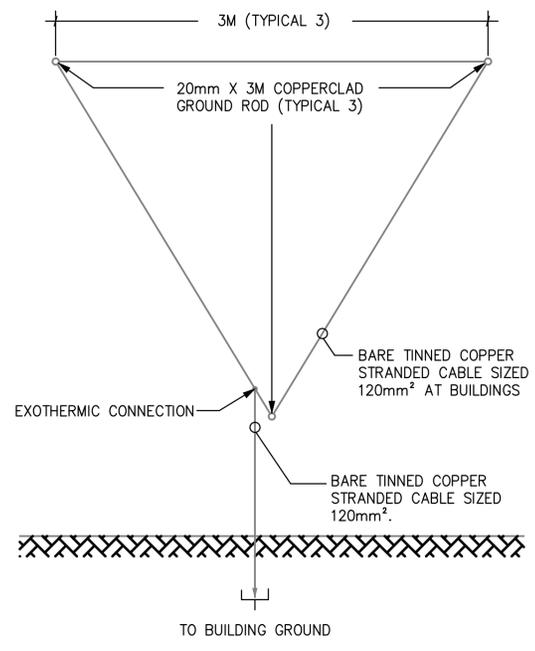
**2 GROUND TRIPOD SYSTEM DETAIL - ELEVATION**  
SCALE: N.T.S.



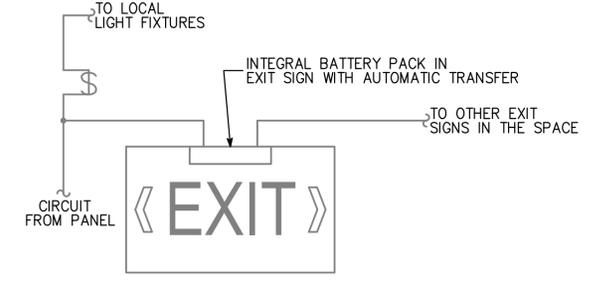
**3 TYPICAL ONE STORY FIRE ALARM RISER**  
SCALE: N.T.S.



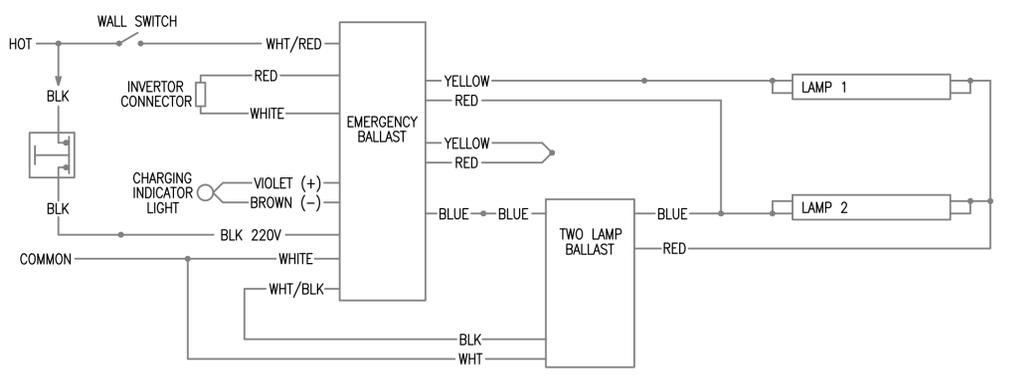
**4 VMF RISER DIAGRAM**  
SCALE: N.T.S.



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



**6 EXIT SIGN WIRING DIAGRAM**  
SCALE: N.T.S.



**7 EMERGENCY FIXTURE WIRING DIAGRAM**  
SCALE: N.T.S.



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Designed by: <b>KUR</b>	Checked by: <b>JRG</b>	Reviewed by: <b>JRG</b>	Submitted by: <b>BAKER</b>
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**E-501**





