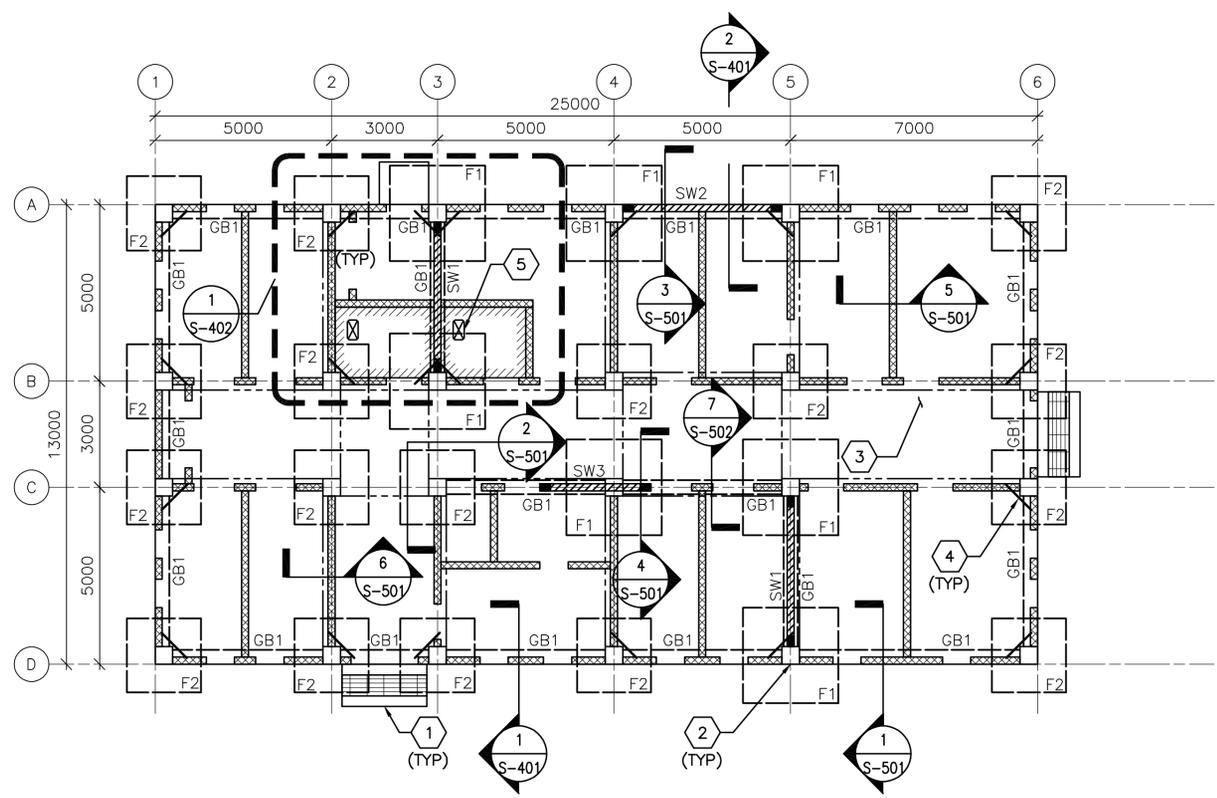
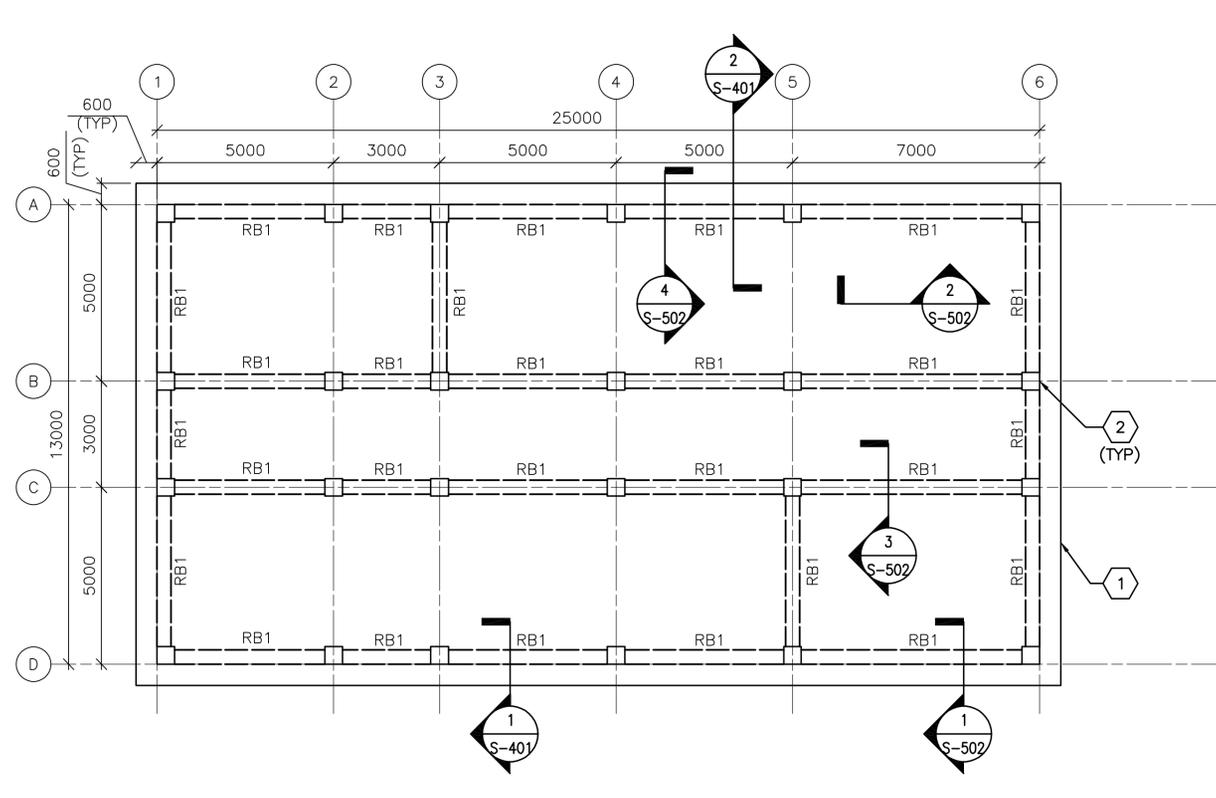




US ARMY CORPS OF ENGINEERS
AFGHANISTAN
ENGINEER DISTRICT



1 FOUNDATION/SLAB PLAN
SCALE: 1:100



2 ROOF FRAMING PLAN
SCALE: 1:100

FOUNDATION/SLAB PLAN NOTES:

- REFER TO SHEET S-001 FOR STRUCTURAL NOTES AND DESIGN CRITERIA.
- FINISH FIRST FLOOR ELEVATION SHALL BE (DATUM 0.00MM) ALL PLUS OR MINUS DIMENSIONS INDICATED ON PLAN OR REFERRED TO IN NOTES RELATE TO FINISH FIRST FLOOR ELEVATION.
- SLAB-ON-GRADE IS 150 WITH #13 @ 300 OC EW LOCATED 38 FROM T/SLAB UON.
- TOP OF EXTERIOR FOOTINGS SHALL BE -950 UNLESS OTHERWISE INDICATED.
- TOP OF INTERIOR FOOTINGS WITHOUT GRADE BEAM ABOVE SHALL BE -600.
- 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.
- FOR CMU REINFORCEMENT, SEE TYP EXTERIOR & INTERIOR CMU WALL REINF DETAILS ON 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 SLAB (ENTRANCE)-SEE ARCH DWGS FOR INFORMATION
- REINF CONC COLUMN
- REINF CONC SLAB-ON-GRADE
- (2)-#13 @ RE-ENTRANT CORNERS - SEE S-701 FOR INFORMATION
- SLAB OPENING - COORDINATE W/ ARCH AND PLUMBING DWGS
- NOT USED

FOUNDATION/SLAB PLAN LEGEND:

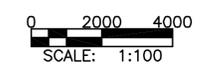
- REINF CONC SHEAR WALL
- REINF CMU WALL
- CONTROL JOINT
- INDICATES DROP SLAB 65 BELOW FIN FLR
- SLAB OPENING

ROOF FRAMING PLAN NOTES:

- REFER TO SHEETS S-001 FOR STRUCTURAL NOTES AND DESIGN CRITERIA.
- TOP OF SLAB ELEVATION = 3600 UNLESS NOTED OTHERWISE.
- ROOF SLAB IS 200 WITH #13 @ 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.

ROOF FRAMING PLAN KEY NOTES: (X)

- CONC ROOF SLAB (BELOW ROOF OVERBUILD)
- REINF CONC COLUMN (BELOW CONC ROOF SLAB)



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

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



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

Designed by:	KMP/MMY	Checked by:	CWW
Dwn by:	RCG	Reviewed by:	LHM
Submitted by:	BAKER	Drawing code:	ANAMES-10FFP
File name:	ANAMES-10FFP	Plot date:	2/23/2010
Plot scale:	xx		

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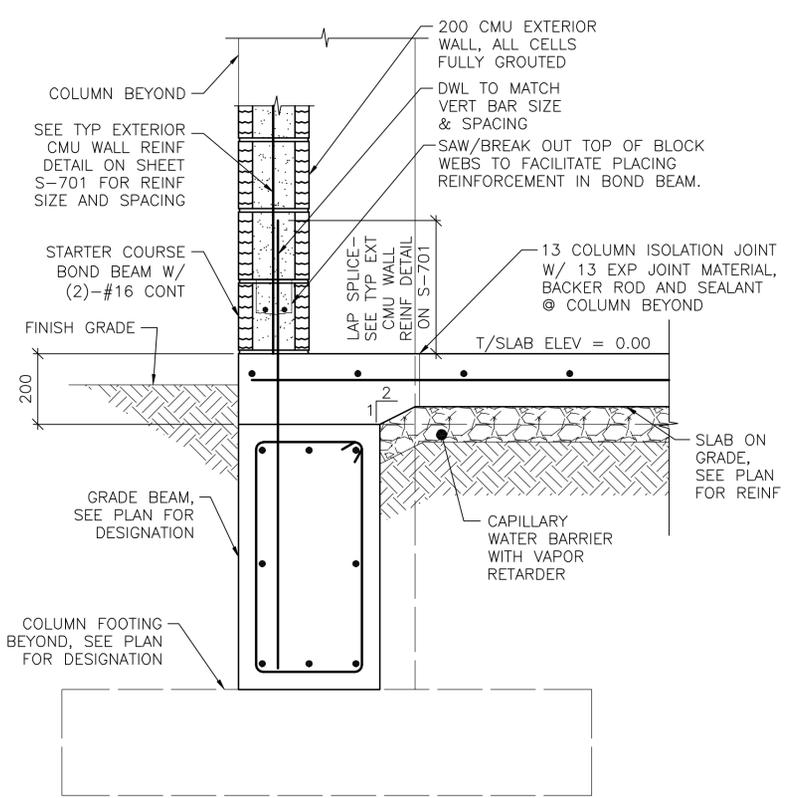
AFGHAN NATIONAL ARMY
REGIONAL MILITARY TRAINING CENTER
STANDARD DESIGN

MEDICAL CLINIC
FOUNDATION/SLAB &
ROOF FRAMING PLANS

Sheet reference number:
S-101

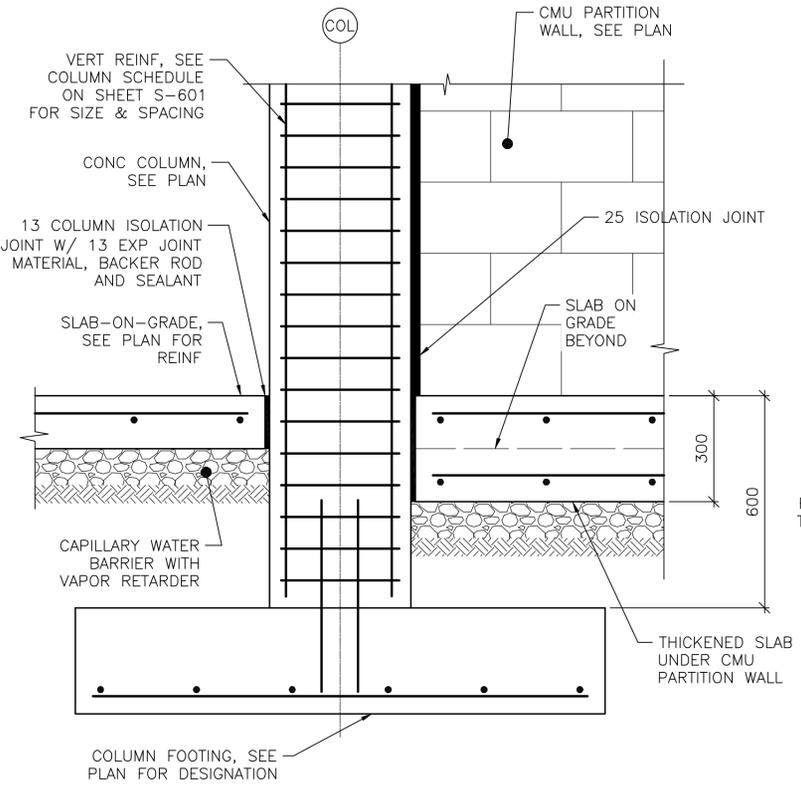


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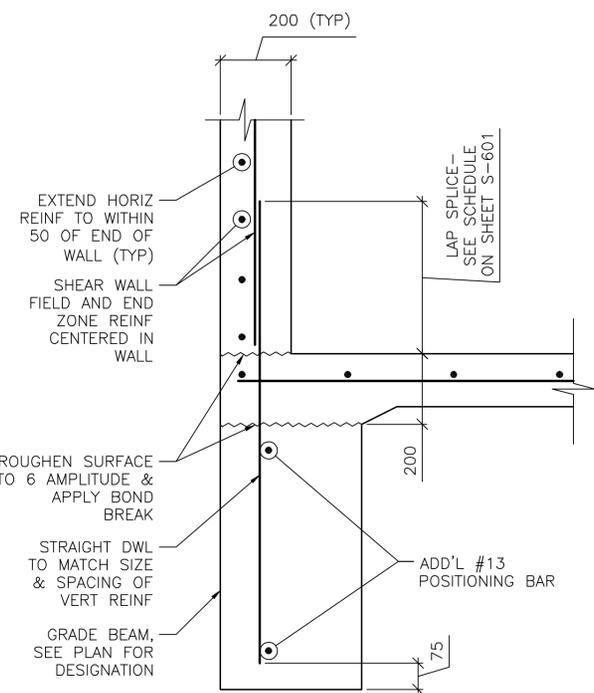


1 SECTION SCALE: 1:10

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

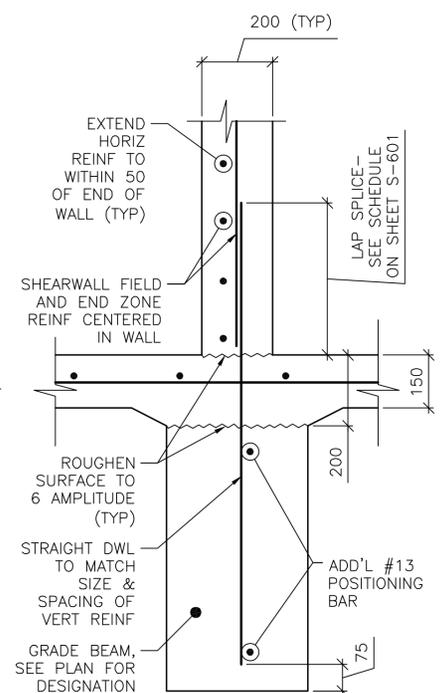


2 SECTION SCALE: 1:10



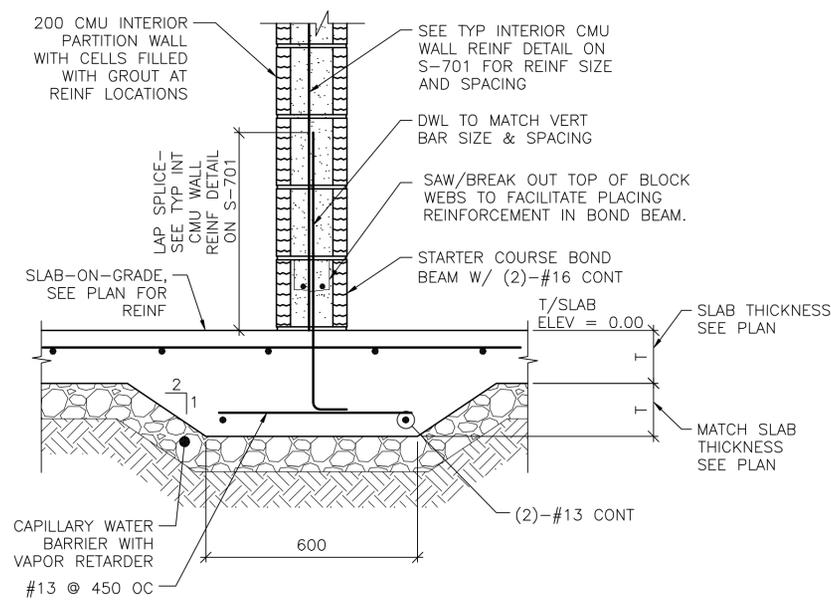
3 SECTION SCALE: 1:10

NOTES: 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.

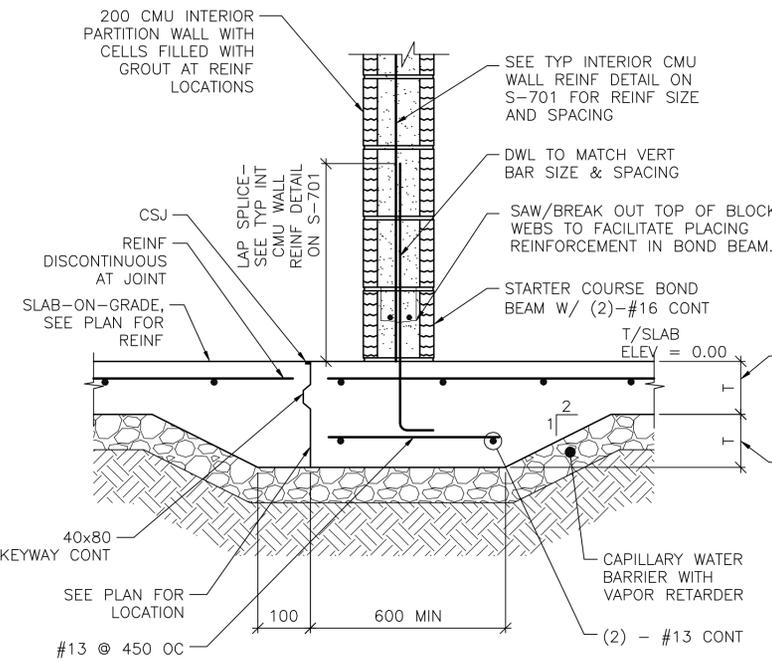


4 SECTION SCALE: 1:10

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.

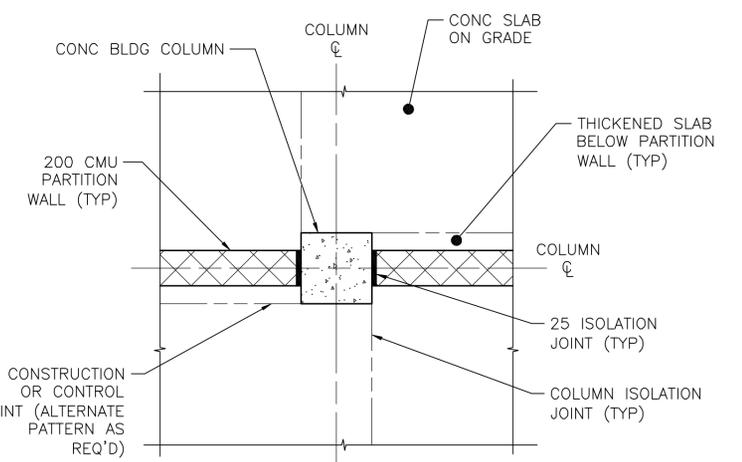


5 SECTION SCALE: 1:10

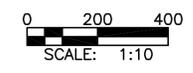


6 SECTION SCALE: 1:10

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



A COLUMN ISOLATION JOINT DETAIL SCALE: NTS



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

APPROVED: [Signature] A/E DESIGNER OF RECORD



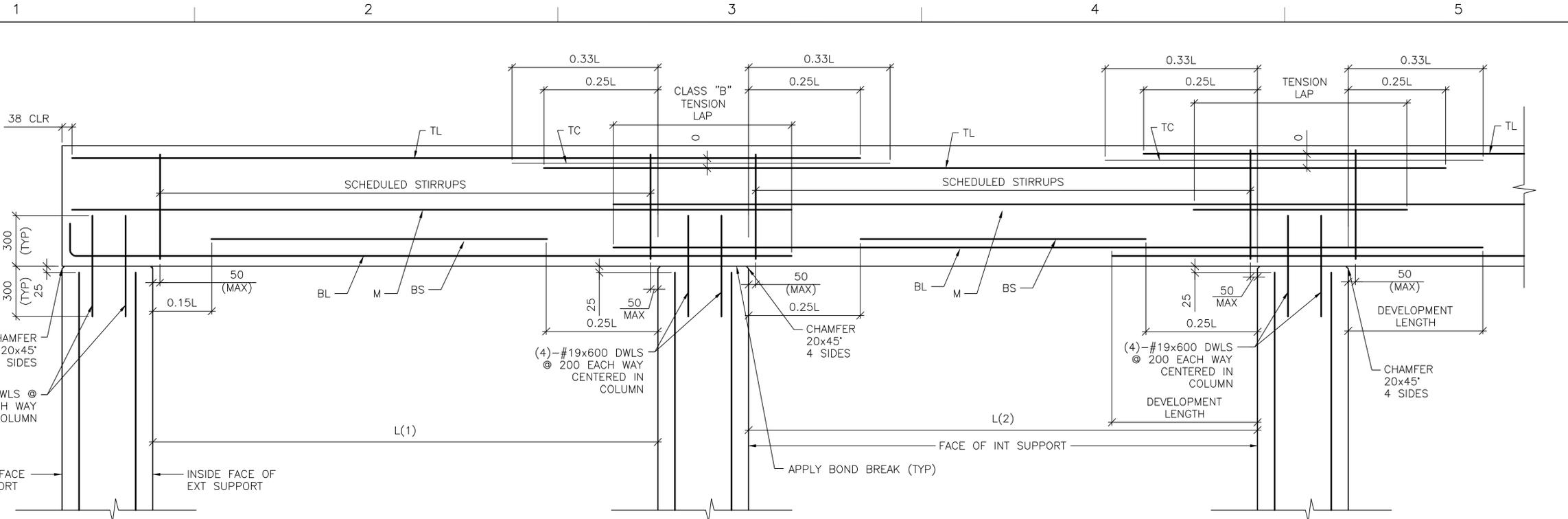
Designed by: KMP/AMMY
 Dwn by: RCG
 Cld by: CWV
 Reviewed by: LHM
 Submitted by: BAKER

Date: 2/23/10
 Design file no.:
 Drawing code: ANAMES-501SC
 File name: ANAMES-501SC
 Plot date: 2/23/10
 Plot scale: 1:1

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 STANDARD DESIGN

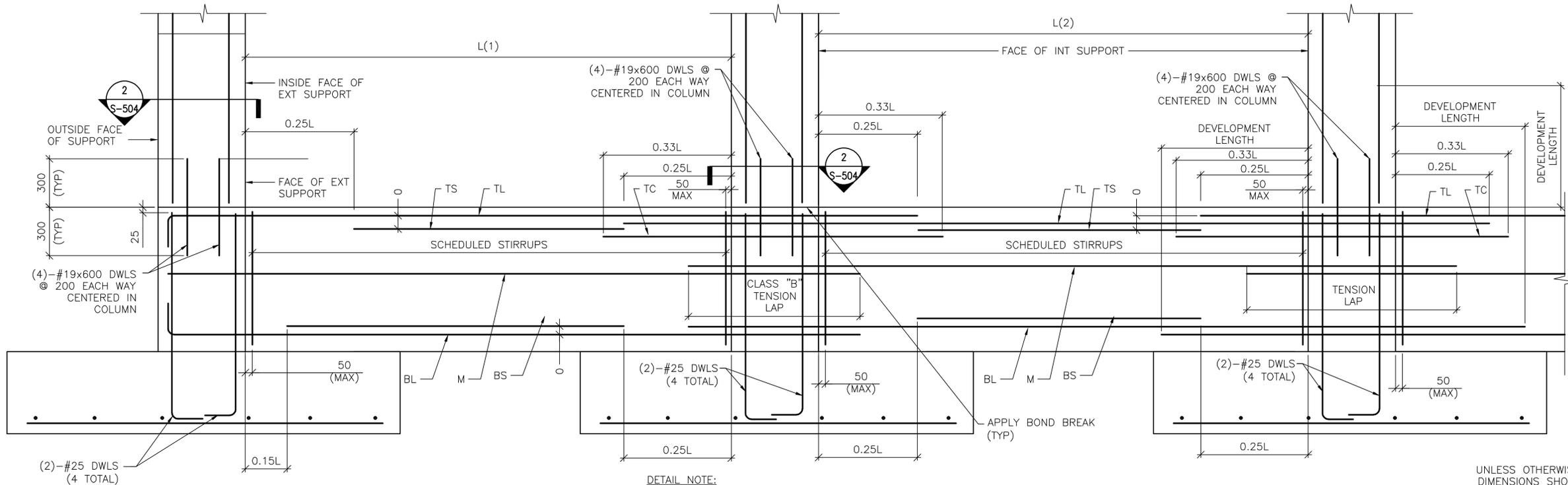
MEDICAL CLINIC
 FOUNDATION SECTIONS

Sheet reference number: S-501



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:
Chin Muto
 A/E DESIGNER OF RECORD
 SEAL:

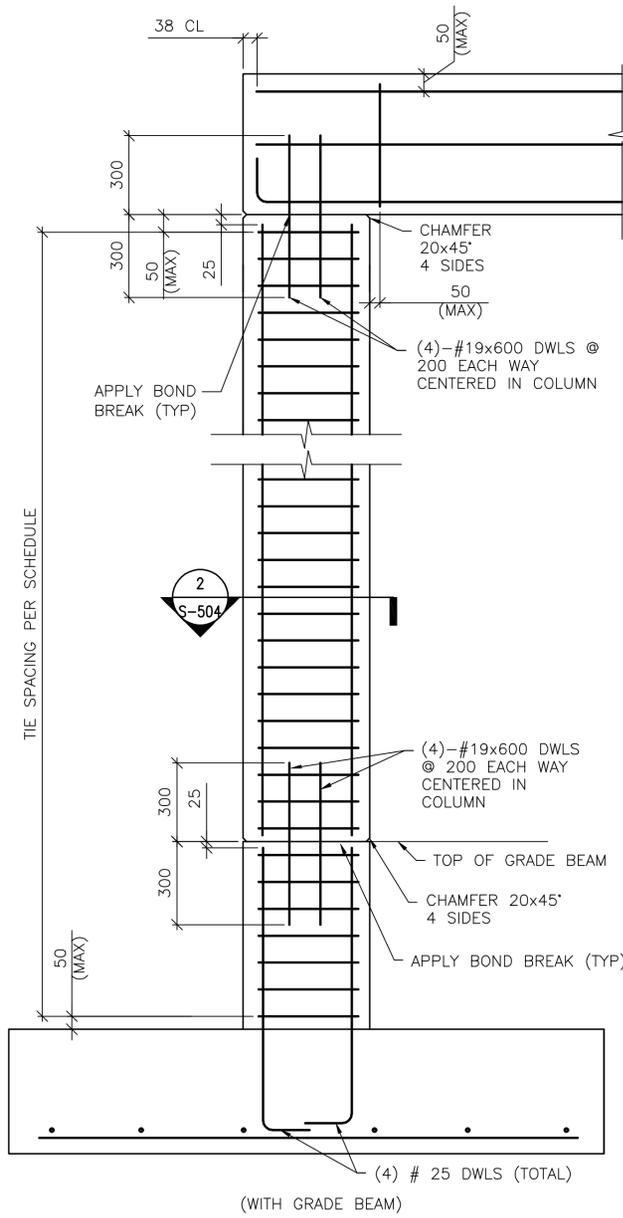


Rev.	Date	Description
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		Mark
		Date
		Appr.

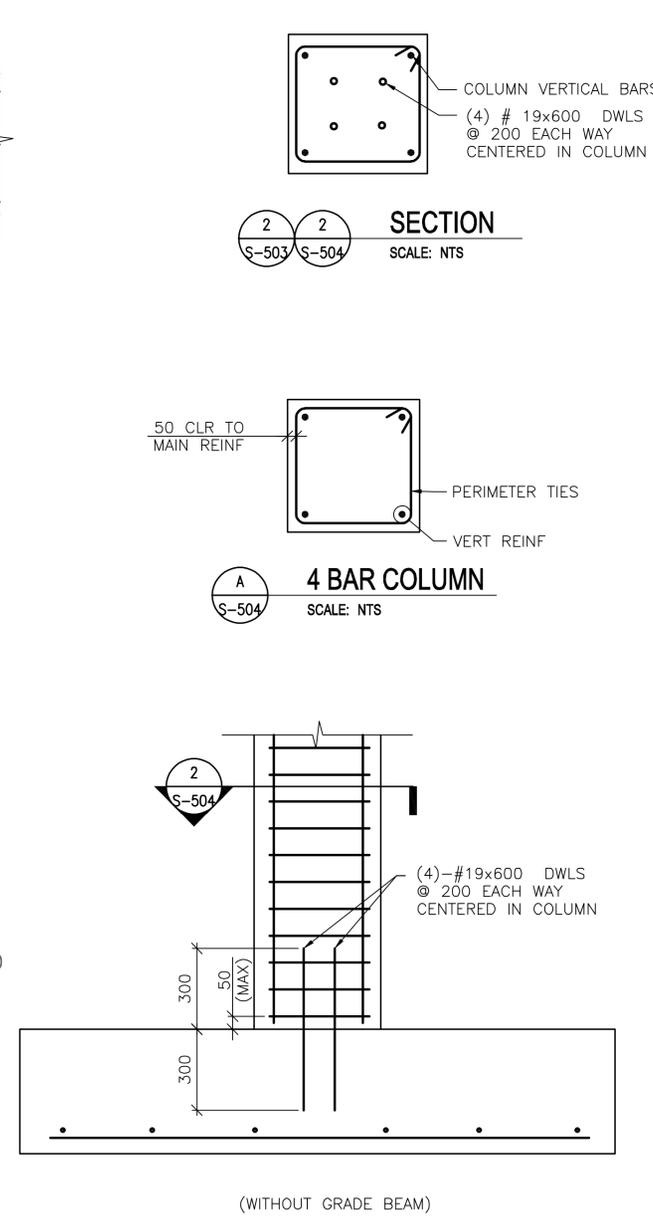
Designed by:	KMP/MMY	Checked by:	RCG/CWW
Dwn by:	RCG	Reviewed by:	LHM
Submitted by:	BAKER	File name:	ANAMEIS-500T
		Plot date:	2/23/2010
		Plot scale:	XX

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 STANDARD DESIGN
 MEDICAL CLINIC
 BEAM & COLUMN DETAILS

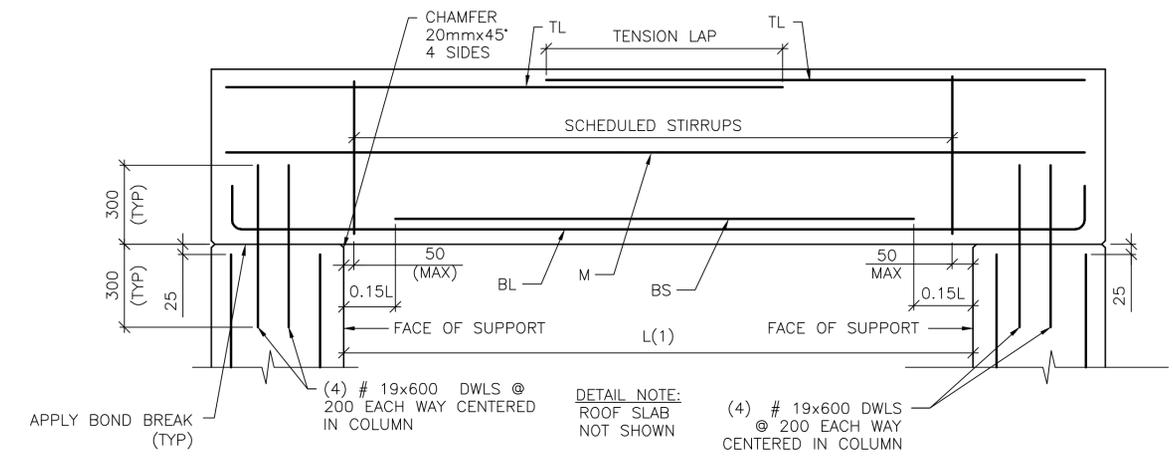
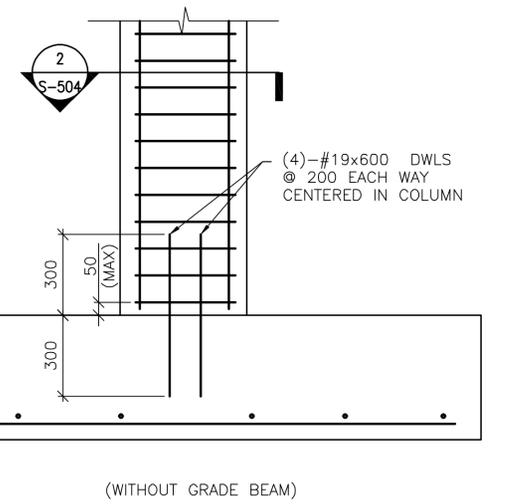
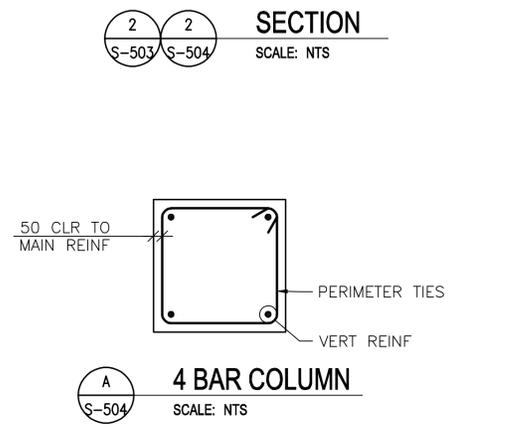
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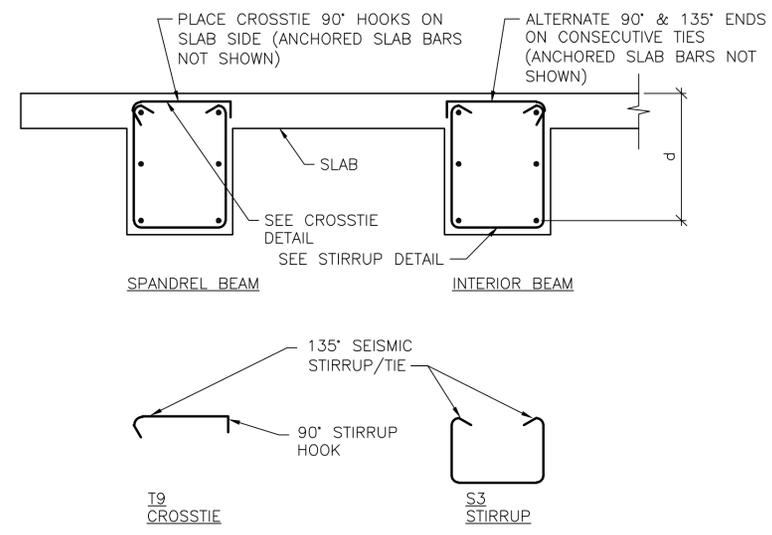
1 1-STORY COLUMN REINF DETAILS
SCALE: NTS



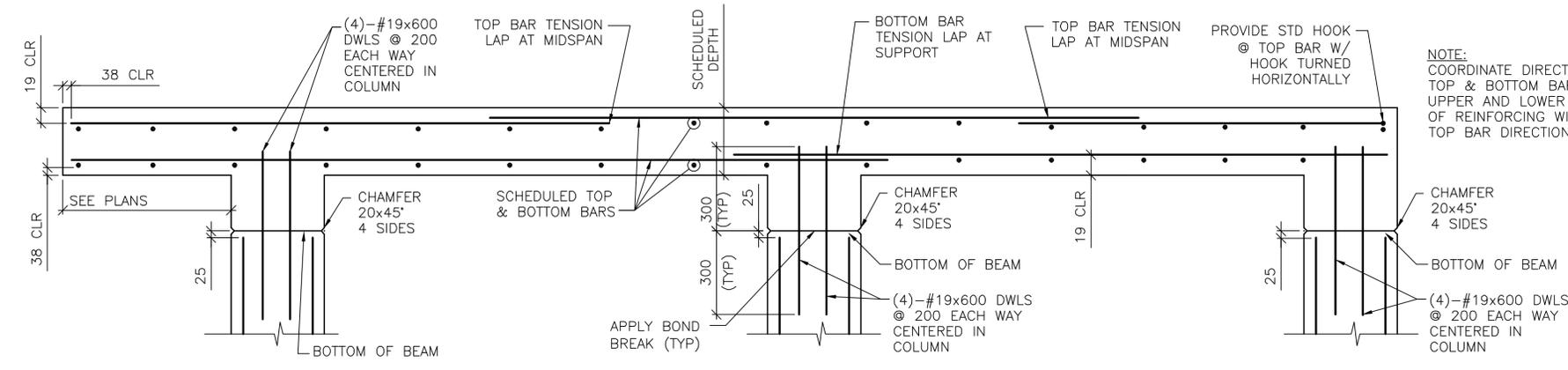
1 1-STORY COLUMN REINF DETAILS
SCALE: NTS



3 SINGLE SPAN ROOF BEAM REINFORCING DETAIL
SCALE: NTS



B BEAM REINFORCEMENT DETAILS
SCALE: NTS



4 FRAMED SLAB REINFORCING DETAIL
SCALE: NTS

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

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



Rev.	Date	Description	Mark	Appr.	Date

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

Date: 2/23/10
Design file no.:
Drawing code: ANAMES-SMGT
File name: ANAMES-SMGT
Plot date: 2/23/2010
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STANDARD DESIGN

MEDICAL CLINIC

BEAM & COLUMN DETAILS

Sheet reference number:
S-504

CONCRETE REINFORCEMENT TENSION DEVELOPMENT/LAP SPLICE SCHEDULE

f'c = 28 MPa					
BAR SIZES	LAP CLASS	UNCOATED BARS			
		TOP BARS		OTHER BARS	
		CASE 1	CASE 2	CASE 1	CASE 2
#10 TO #19	A	50 BAR DIA	74 BAR DIA	38 BAR DIA	57 BAR DIA
	B	64 BAR DIA	96 BAR DIA	50 BAR DIA	74 BAR DIA
#22 TO #57	A	62 BAR DIA	93 BAR DIA	48 BAR DIA	71 BAR DIA
	B	80 BAR DIA	121 BAR DIA	62 BAR DIA	93 BAR DIA

- NOTES:**
- TABULATED TENSION DEVELOPMENT LENGTH VALUES ARE TAKEN FROM CRSI DESIGN HANDBOOK 2008 10TH ED.
 - TENSION DEVELOPMENT & TENSION LAP SPLICE LENGTHS ARE EXPRESSED AS MULTIPLES OF BAR DIAMETERS.
 - TABULATED VALUES ARE BASED ON MINIMUM YIELD STRENGTH OF REINFORCEMENT, fy, OF 420MPa.
 - CONCRETE IS NORMAL WEIGHT (2400Kg/m³) AND 28 DAY COMPRESSIVE STRENGTH = 28MPa.
 - TABULATED VALUES FOR BEAMS & COLUMNS ARE BASED ON TRANSVERSE REINFORCEMENT AND CONCRETE COVER MEETING MINIMUM CODE REQUIREMENTS.
 - CASES 1 & 2, WHICH DEPEND ON THE TYPE OF STRUCTURAL MEMBER, CONCRETE COVER, AND CENTER-TO-CENTER SPACING OF THE BARS ARE DEFINED IN THE TABLE BELOW.
 - LAP SPLICE LENGTHS (MINIMUM 300mm) ARE MULTIPLES OF TENSION DEVELOPMENT LENGTHS: CLASS A = 1.0(TENSION DEVELOPMENT LENGTH) & CLASS B = 1.3(TENSION DEVELOPMENT LENGTH)
 - TOP BARS ARE HORIZONTAL REINFORCEMENT WITH MORE THAN 300mm OF CONCRETE CAST BELOW THE BARS.
 - IT SHALL BE PERMISSIBLE TO CALCULATE WALL AND SLAB REINFORCEMENT TENSION DEVELOPMENT/SPLICE LENGTHS IN ACCORDANCE WITH ACI 12.2.3 OR TABLE 5.3(b) OF CRSI 2008 IN LIEU OF VALUES TABULATED ABOVE.

BEAMS, COLUMNS	CASE 1	CONCRETE COVER AT LEAST 1 BAR DIA AND CENTER-TO-CENTER SPACING AT LEAST 2 BAR DIA
	CASE 2	CONCRETE COVER LESS THAN 1 BAR DIA OR CENTER-TO-CENTER SPACING LESS THAN 2 BAR DIA
ALL OTHERS	CASE 1	CONCRETE COVER AT LEAST 1 BAR DIA AND CENTER-TO-CENTER SPACING AT LEAST 3 BAR DIA
	CASE 2	CONCRETE COVER LESS THAN 1 BAR DIA OR CENTER-TO-CENTER SPACING LESS THAN 3 BAR DIA

CONCRETE COVER SCHEDULE

MINIMUM CONCRETE COVER PROTECTION FOR REINFORCEMENT BARS SHALL BE AS LISTED BELOW: (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. PROVIDE STANDARD BAR CHAIRS AND SUPPORT BARS @1200mm MAXIMUM AS REQUIRED TO MAINTAIN CONCRETE PROTECTION SPECIFIED.

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)	#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	
NOT EXPOSED TO WEATHER (FROM TOP)	20
EXPOSED 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

COLUMN FOOTING SCHEDULE

MARK	FOOTING SIZE (mm)			FOOTING REINFORCING	REMARKS
	LENGTH	WIDTH	THICKNESS		
F1	2700	2700	300	(8)-#19 EW BOTT	-----
F2	2100	2100	300	(5)-#19 EW BOTT	-----

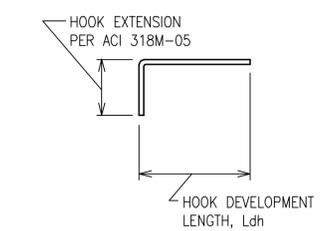
CONCRETE SHEAR WALL SCHEDULE

MARK	TYPE	WALL LENGTH (L) (mm)	WALL REINFORCEMENT		REMARKS
			END ZONE	FIELD	
SW1	C	4250	(5)-#19 @ 225mm OC	#13 @ 300 mm OC	-----
SW2	C	4500	(8)-#22 @ 300mm OC	#13 @ 300mm OC	-----
SW3	D	3145	(5)-#22 @ 300mm OC	#13 @ 300mm OC	-----

- NOTES:**
- WORK THIS SCHEDULE WITH SHEAR WALL DETAILS ON SHEETS S-702
 - SEE PLAN FOR LOCATION OF SHEAR WALL(S).
 - WALL "FIELD" REINFORCEMENT LISTED APPLIES TO VERTICAL & HORIZONTAL BARS.
 - WALL "FIELD" REINFORCEMENT SHOULD BE CENTERED IN WALL.
 - VERTICAL "FIELD" BARS MAY BE OMITTED IN LOCATION OF "END ZONE" REINFORCEMENT.

STANDARD HOOKS IN TENSION PER (ACI 318M-05)

HOOK DEVELOPMENT LENGTH (mm)	
BAR SIZE	f'c 28 MPa
#10	180
#13	250
#16	300
#19	380
#22	430
#25	480
#29	560
#32	610
#36	690

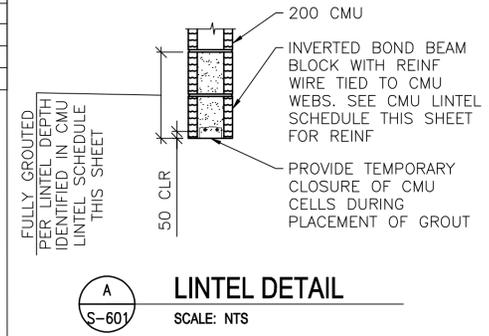


- NOTES:**
- CONCRETE IS NORMAL WEIGHT CONCRETE.
 - BAR YIELD STRENGTH, fy = 420 MPa
 - SIDE COVER REQUIREMENTS OF ACI SECT. 12.5.3 ARE ASSUMED TO NOT BE MET.
 - TIE OR STIRRUP REQUIREMENTS OF ACI SECT. 12.5.3 ARE ASSUMED TO NOT BE MET.
 - REDUCTION FOR EXCESS REINFORCEMENT IS NOT TAKEN.
 - HOOK DEVELOPMENT LENGTH IS VALID FOR 180° HOOKS ALSO.

CMU OR CAST IN PLACE CONC LINTEL SCHEDULE (TYP)

OPENING TYPE OR SIZE, BEAM LOCATION OR TYPE	MAX SPAN (mm)	LINTEL DEPTH (mm)	REINFORCING BOTTOM
WALL OPENING	4000	600	(2)-#16 T&B
WALL OPENING	1900	400	(2)-#16 T&B
WALL OPENING	1000	400	(2)-#13 B

- STRUCTURAL SHEETS 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 HEAD DETAILS REFER TO ARCHITECTURAL SHEETS.
- REINFORCING SHALL BE ASTM A615M, GRADE 420. GROUT FOR CMU LINTELS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 14 MPa AT 28 DAYS.
- CONTRACTOR SHALL SUBMIT FOR APPROVAL SHOP DRAWINGS AND SCHEDULES SHOWING SIZE, SPAN, REINFORCEMENT, DETAILS, LOCATIONS, ETC.



LINTEL DETAIL
SCALE: NTS

BEAM SCHEDULE

MARK	BEAM SIZE (mm)		BEAM REINFORCING						STIRRUPS			REMARKS
	DEPTH	WIDTH	BL	BS	TL	TS	TC	M	SIZE	TYPE	SPACING	
GRADE BEAMS												
GB1	750/585	400	(2)-#19	(1)-#19	(2)-#19	---	---	---	#13	S3+T9	d/2	LOWER TOP @ LATRINES BETWEEN A3-B3
ROOF BEAMS												
RB1	600	400	(2)-#19	(1)-#19	(2)-#16	---	---	---	#13	S3+T9	d/2	-----

- NOTES:**
- WORK THIS SCHEDULE WITH BEAM REINFORCING DETAILS ON SHEETS S-503 AND S-504.
 - HOOKS SHOWN ON SECTIONS AND DETAILS SHALL BE 90° STD UON.
 - USE ONLY (1) TC AT BEAM COLUMN INTERSECTION WHERE REQ'D.

COLUMN SCHEDULE

COLUMN MARK	TYP UON	---	---	---
DESCRIPTION				
TYPE	4-BAR	---	---	---
DIMENSION	500mm SQ.	---	---	---
VERTICAL REINFORCEMENT	(4)-#29	---	---	---
TIES	#13 @ d/2	---	---	---
TOP OF ROOF ELEVATION	3600mm	---	---	---
TOP OF GRADE BEAM ELEVATION	-200mm	---	---	---
TOP OF FOOTING ELEVATION	-950mm	---	---	---

- NOTES:**
- WORK THIS SCHEDULE WITH COLUMN DETAILS ON SHEET S-504.
 - SEE FOOTING SCHEDULE ON THIS SHEET FOR FOOTING INFORMATION.
 - COLUMN TIES: INTERIOR TIES TO MATCH SIZE & SPACING OF PERIMETER TIES.
 - HOOKS SHOWN ON SECTIONS & DETAILS SHALL BE 90° STD UON.



Rev:	0
Date:	2/23/10
Design file no.:	
Designed by:	KMP/MMY
Drawn by:	RCG
Reviewed by:	LHM
Submitted by:	BAKER
Drawing code:	
File name:	ANAMES-601SCH
Plot date:	2/23/2010
Plot scale:	KX

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AFGHAN NATIONAL ARMY
REGIONAL MILITARY TRAINING CENTER
MEDICAL CLINIC
SCHEDULES

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

APPROVED:
Chris White
A/E DESIGNER OF RECORD



Sheet reference number:
S-601

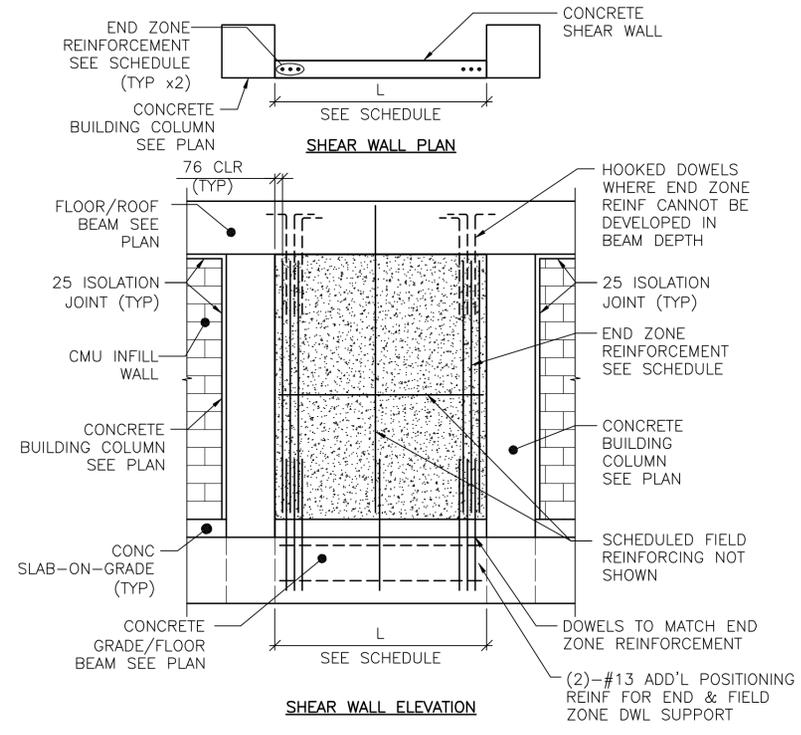


Date	Description	Appr.	Mark

Rev: 10	Date: 2/23/10	Design file no.:	Drawing code: ANAMES-1027D	File name: ANAMES-1027D	Plot date: 2/23/10	Plot scale: 1:1
Designed by: KMP/AMMY	Checked by: RCG	Drawn by: RCG	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 Altoona Business Park 100 Altoona Drive, PA, 15108 www.mbakercorp.com					

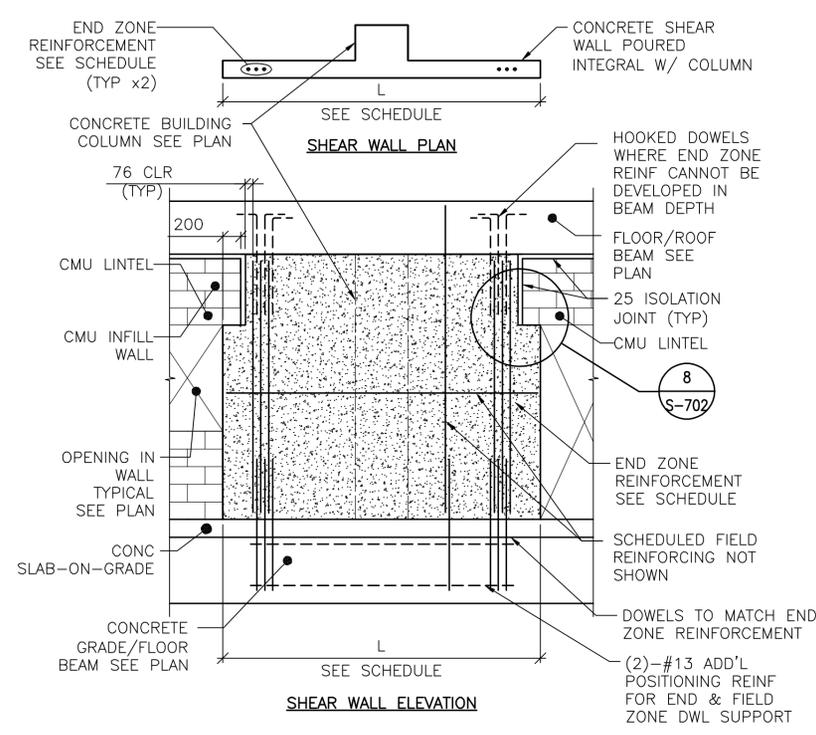
AFGHAN NATIONAL ARMY REGIONAL MILITARY TRAINING CENTER STANDARD DESIGN	MEDICAL CLINIC	TYPICAL DETAILS
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Sheet reference number:
S-702



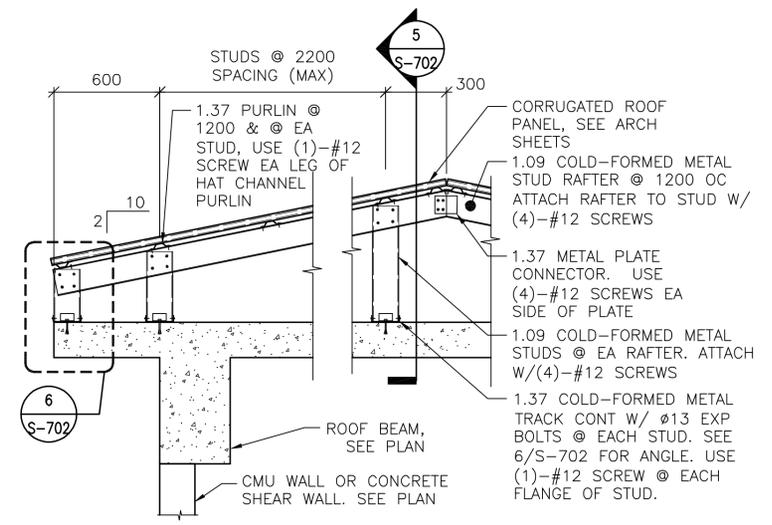
- DETAIL NOTES:**
1. FIELD REINFORCEMENT IN SHEAR WALL NOT COMPLETELY SHOWN FOR CLARITY.
 2. FIELD REINFORCEMENT CENTERED IN WALL.
 3. MINIMUM CONC CLEAR DISTANCE FOR END ZONE REINF = 76
 4. SEE CONC SHEAR WALL SCHEDULE ON SHEET S-601
 5. SEE ARCH DWGS FOR ISOLATION JOINT INFORMATION

TYPE "C" SHEAR WALL DETAIL
SCALE: NTS



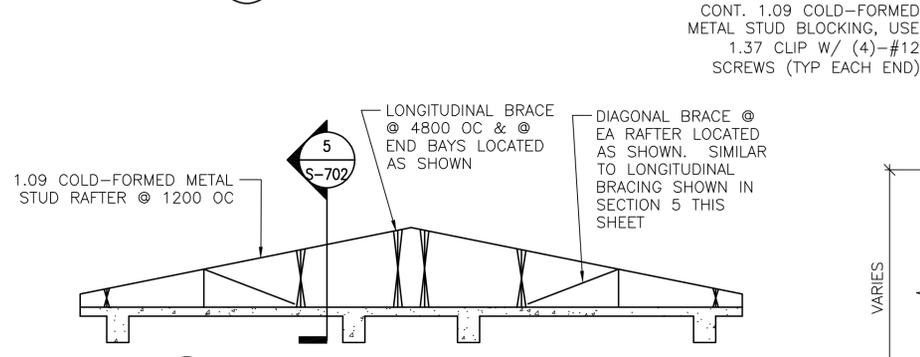
- DETAIL NOTES:**
1. FIELD REINFORCEMENT IN SHEAR WALL NOT COMPLETELY SHOWN FOR CLARITY.
 2. FIELD REINFORCEMENT CENTERED IN WALL.
 3. MINIMUM CONC CLEAR DISTANCE FOR END ZONE REINF = 76
 4. SEE CONC SHEAR WALL SCHEDULE ON SHEET S-601
 5. SEE ARCH DWGS FOR ISOLATION JOINT INFORMATION

TYPE "D" SHEAR WALL DETAIL
SCALE: NTS

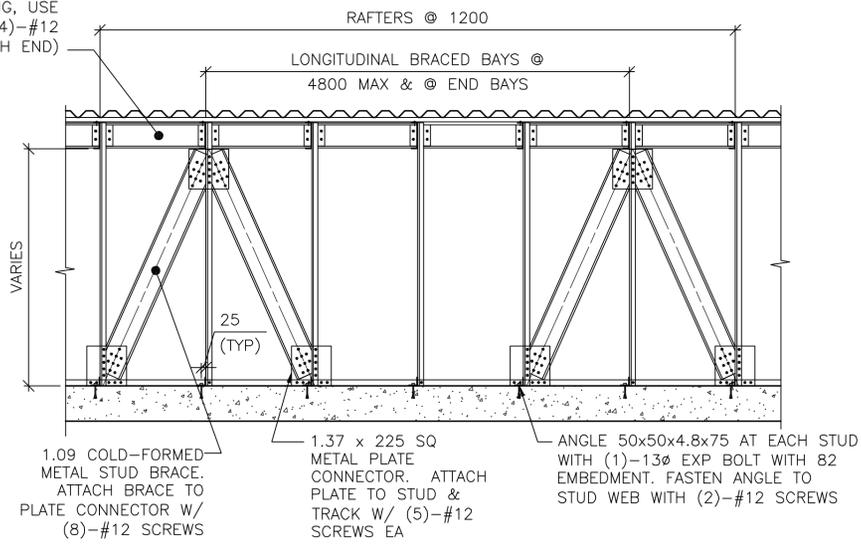


- DETAIL NOTES:**
1. ALL GABLE END VERTICAL STUDS SHALL BE ORIENTED 90° TO INTERIOR STUDS & SPACED @ 600 OC. GABLE END RAFTER SHALL BE 1.37 METAL TRACK SPANNING CONTINUOUSLY OVER GABLE END STUDS. INSET GIRTS AT GABLE END SHALL BE 1.09 COLD-FORMED METAL STUDS @ 1200 OC ATTACHED VIA 1.37 THICKNESS CLIP ANGLE W/ (2) #12 SCREWS EA LEG.
 2. ALL INTERIOR, NON-GABLE END VERTICAL STUDS GREATER THAN 2400 IN LENGTH SHALL BE BACK-TO-BACK W/ #12 SCREWS @ 200 OC STAGGERED.

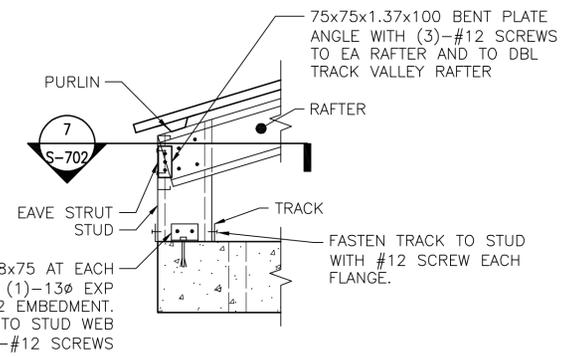
TYPICAL OVERBUILT ROOF FRAMING DETAIL
SCALE: NTS



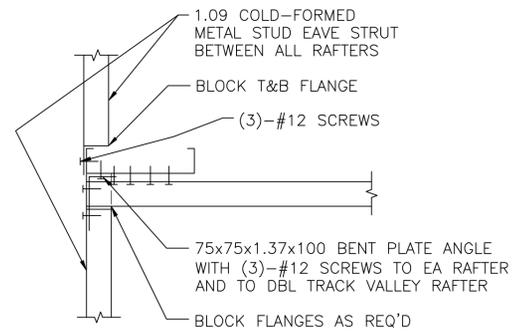
TYPICAL ROOF BRACE LAYOUT
SCALE: NTS



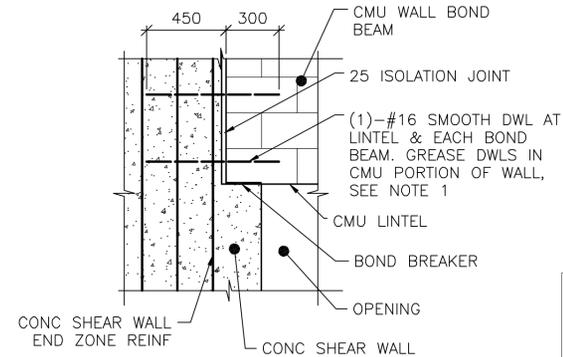
SECTION
SCALE: NTS



DETAIL
SCALE: NTS



SECTION
SCALE: NTS



SECTION
SCALE: NTS

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

APPROVED:
Chin Minto
A/E DESIGNER OF RECORD

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- NOTE:**
1. TIE SMOOTH DOWEL ROD TO SHEAR WALL END ZONE REINF FOR EACH BOND BEAM AND LINTEL.

CODE ANALYSIS:

- REFERENCES:**
2006 INTERNATIONAL BUILDING CODE (2006 IBC)
2006 LIFE SAFETY CODE (2006 NFPA 101)
- IBC OCCUPANCY CLASSIFICATION:**
GROUP B (AMBULATORY HEALTH CARE NFPA 101 6.1.11 AND CHAPTER 20)
(AND BUSINESS CHAPTER 38 BY REFERENCE)
- TYPE OF CONSTRUCTION (IBC):** TYPE II-B (UNPROTECTED/NONSPRINKLERED)
- IBC TABLE 503: ALLOWABLE HEIGHT AND BUILDING AREAS:**
GROUP B
ALLOWABLE AREA: 2,137 SM
ALLOWABLE HEIGHT: 3 STORIES (18 M)

GROUP B
PROPOSED AREA: 325 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 B OCCUPANCY/NONSPRINKLERED**

GROUP	EXIT ENCLOSURES AND EXIT PASSAGEWAY	CORRIDORS	ROOMS AND ENCLOSED SPACES
B	A	B	C

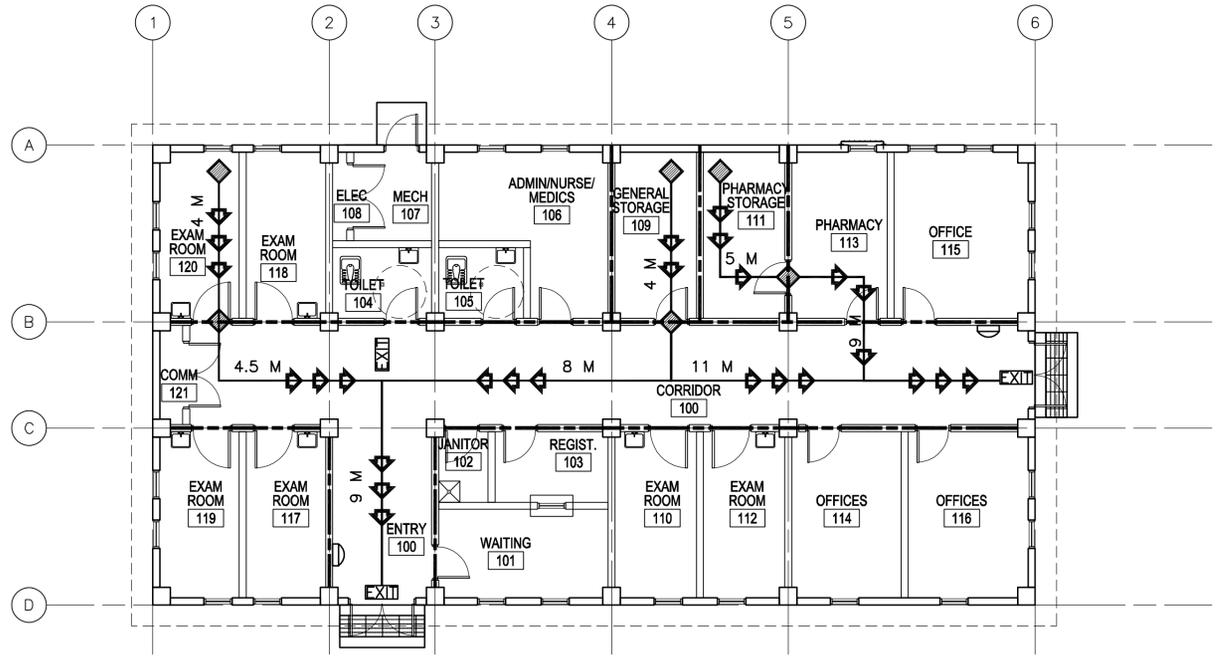
- NFPA 101 TABLE 7.3.1.2 - OCCUPANT LOAD**
BUSINESS = 9.3 SM/PERSON BUSINESS PROPOSED = 35 OCCUPANTS
- NFPA 101 TABLE 7.3.3.1 - EGRESS CAPACITY**
BUSINESS = 5 MM PER OCCUPANT

REQUIRED: 175 MM (35 OCCUPANTS x 5 MM PER OCCUPANT)
PROPOSED EGRESS CAPACITY: 3600 MM: (2) 900 MM DOUBLE DOORS
- NFPA 101 PARAGRAPH 20.2.6.2 - EXIT ACCESS TRAVEL DISTANCE (NONSPRINKLERED)**
REQUIRED: 30 METERS
PROPOSED: 17 METERS
- NFPA 101 PARAGRAPH 20.3.6 - CORRIDORS -SEE PARAGRAPH 38.3.6:**
REQUIRED RATING: 1 HOUR
PROVIDED RATING: 1 HOUR
DOORS SHALL BE 20 MINUTE IN ACCORDANCE WITH TABLE 8.3.4.2.
- NFPA 101 PARAGRAPH 20.2.3.2 - CORRIDOR WIDTH NOT LESS THAN 1120"**
PROVIDED: (2900) MM
- NFPA 101 PARAGRAPH 20.2.5 - ARRANGEMENT OF MEANS OF EGRESS - 38.2.5**
DEAD END CORRIDORS: 38.2.5.2
BUSINESS: PERMITTED: 6 METERS
PROPOSED: 4.5 M DEAD END CORRIDOR
- NFPA 101 PARAGRAPH 20.2.4.1 - NUMBER OF EXITS**
BUSINESS REQUIRED: 2 MINIMUM
BUSINESS PROPOSED: 2 EXITS
- NFPA 101 PARAGRAPH 20.3.2 - PROTECTION FROM HAZARDS - SEE 38.3.2**
38.3.2.1 & 8.7.1.1 (1):
REQUIRED SEPARATION AT GENERAL STORAGE: 1 HOUR WALL AND 45 MINUTE DOOR
PROVIDED: 1 HOUR WALL AND 45 MINUTE DOOR

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
SCALE: 1:100



1 LIFE SAFETY PLAN
SCALE: 1:100

APPROVED:

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AFGHANISTAN ENGINEER DISTRICT
APO AE 96338

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Dwn by: KJG
Crd by: NLJ
Reviewed by: LHM
Submitted by: BAKER

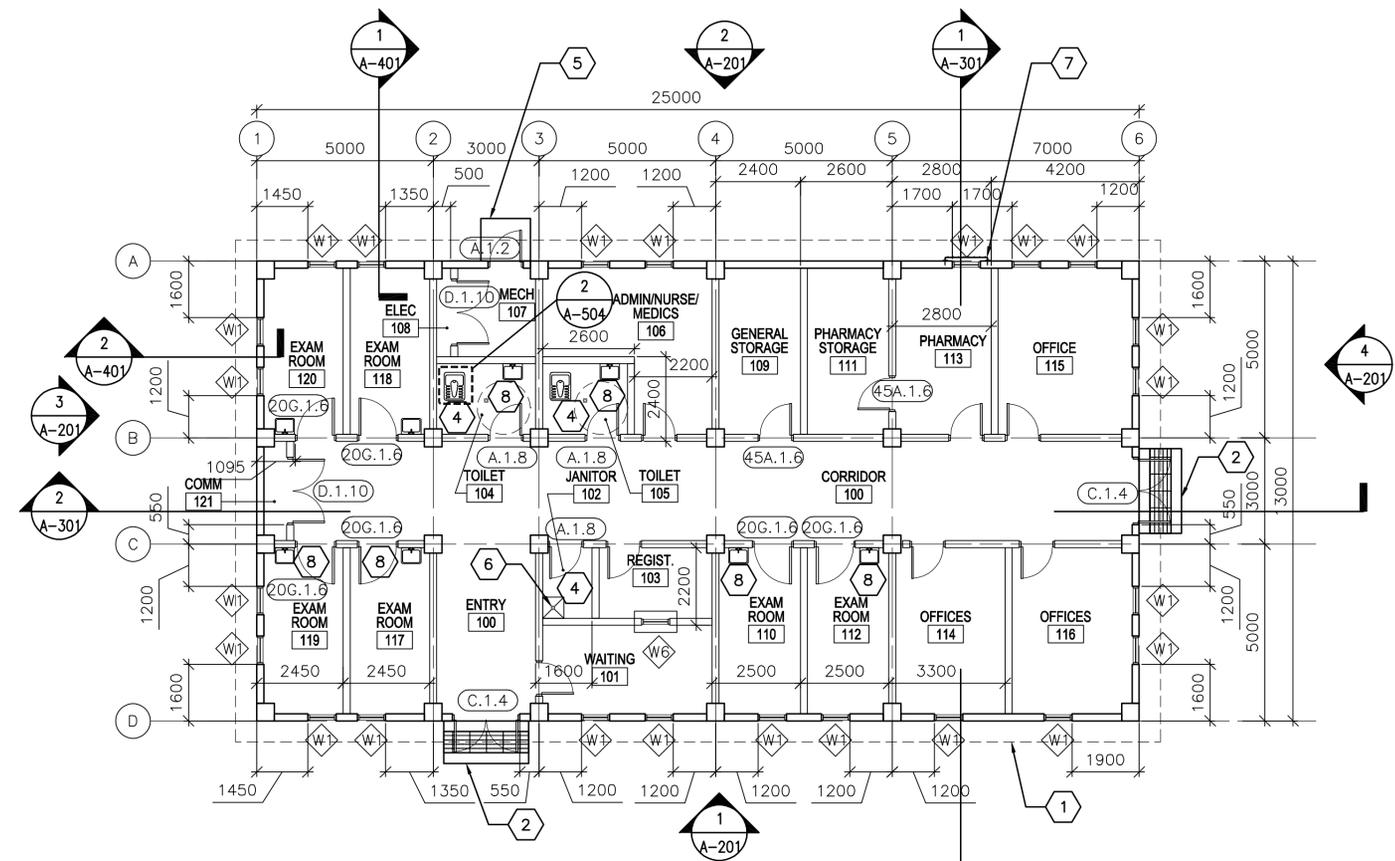
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Plot date: 2/23/2010
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LIFE SAFETY PLAN

Sheet reference number:
A-001



1 FLOOR PLAN
SCALE: 1:100

GENERAL NOTES:

- A. DIMENSIONS ARE SHOWN TO OUTER EDGE OF EXTERIOR STRUCTURAL COLUMNS, STRUCTURAL COLUMN GRID, EDGE OF INTERIOR PARTITIONS, EDGE OF WINDOW OPENINGS, AND TO HINGE SIDE OF DOOR FRAME OPENINGS.
- B. HINGED SIDE OF OPENINGS FOR DOORS AND FRAMES SHALL BE LOCATED 200 MM FROM 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 PLASTER APPLIED TO STRUCTURE.
- L. ALL WALL FINISHES SHALL BE PAINTED PLASTER APPLIED TO STRUCTURE, UNLESS NOTED OTHERWISE.
- M. ALL FLOOR FINISHES SHALL BE TERRAZZO, UNLESS NOTED OTHERWISE.
- N. ALL DOOR FRAME & HARDWARE TYPES SHALL BE 20A.1.6 UNLESS NOTED OTHERWISE.

KEY NOTES:

- 1. LINE OF ROOF OVERHANG ABOVE.
- 2. CONCRETE STOOP WITH GRATE - SEE DETAIL 1/A-503.
- 3. NOT USED
- 4. TERRAZZO FLOOR TILE AND CERAMIC WALL TILE TO 2000 MM ABOVE FINISHED FLOOR
- 5. CONCRETE STOOP - SEE DETAIL 3/A-503.
- 6. 600 MM X 600 MM RECESSED TROUGH - SEE DETAIL 5/A-504.
- 7. SECURITY BARS - SEE DETAIL 5/A-502
- 8. PROVIDE POLISHED STAINLESS STEEL MIRROR 600 x 900 ABOVE LAVATORY.

LEGEND:

- XXX DOOR FRAME AND HARDWARE TYPE 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

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



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FLOOR PLAN

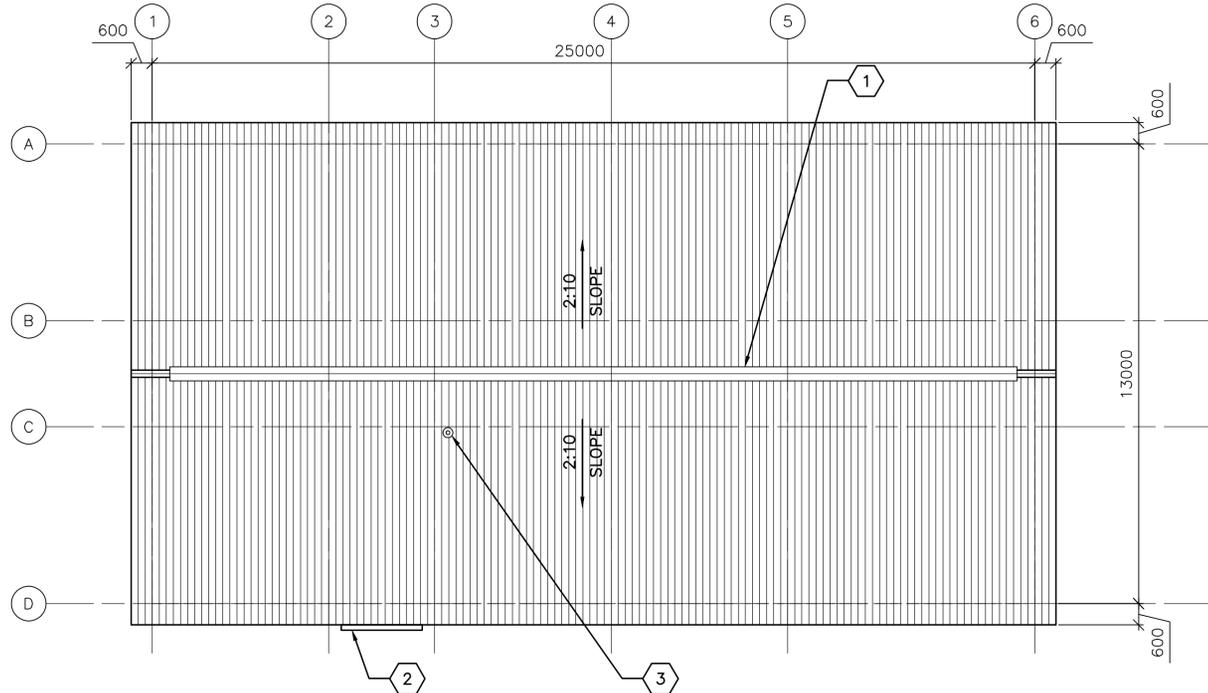
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A-101

D

C

B

A



1
A-102
ROOF PLAN
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.

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Date	Appr.	Date	Appr.
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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.

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Drawing code:	File name: ANAMEDA-102RP Plot date: 2/23/2010 Plot scale: x/x
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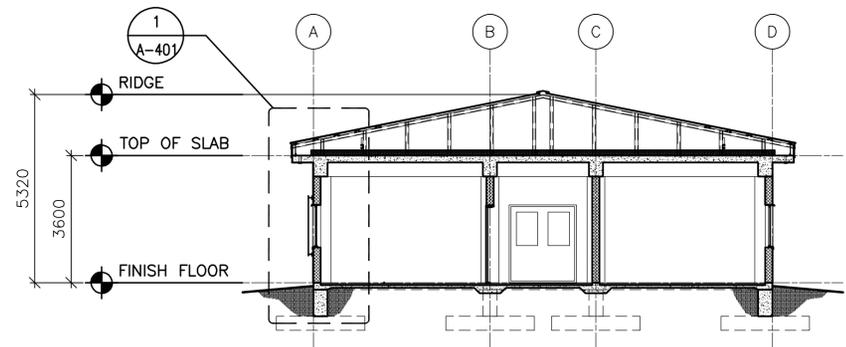
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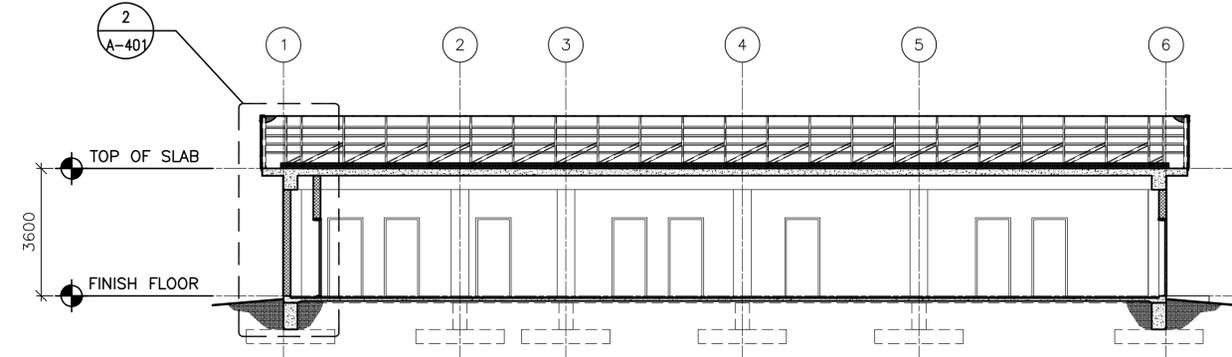
MEDICAL CLINIC

ROOF PLAN

Sheet reference number:
A-102



1 BUILDING SECTION
A-301 SCALE: 1:50



2 BUILDING SECTION
A-301 SCALE: 1:50

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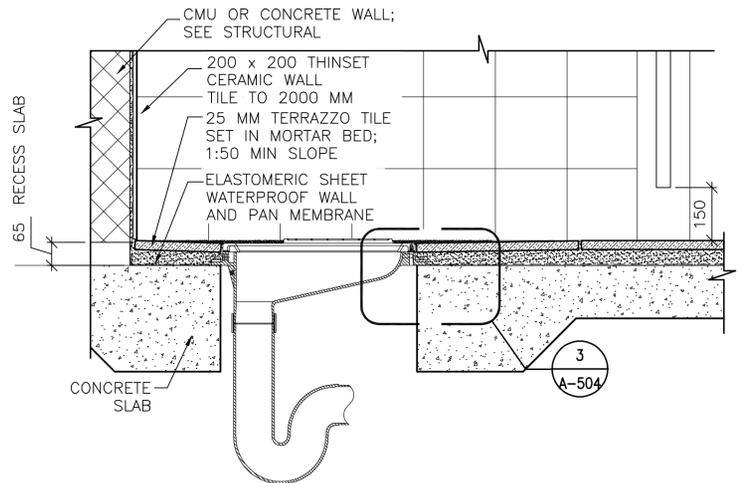
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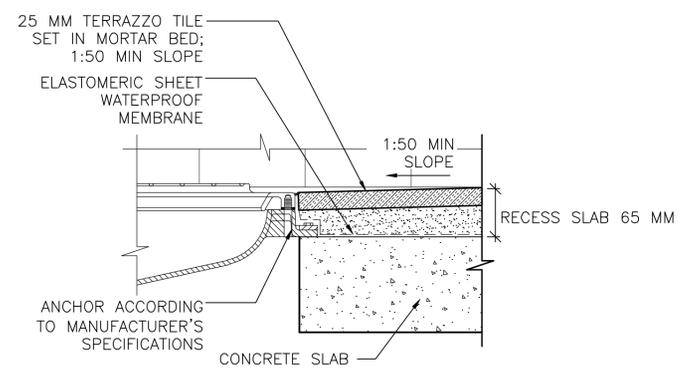
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BUILDING SECTIONS

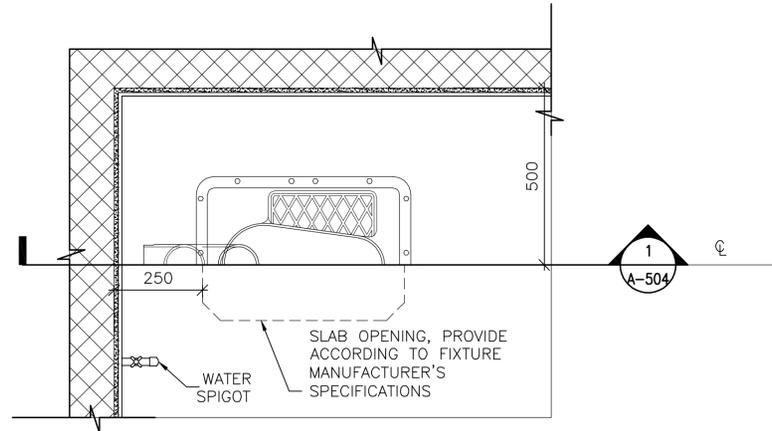
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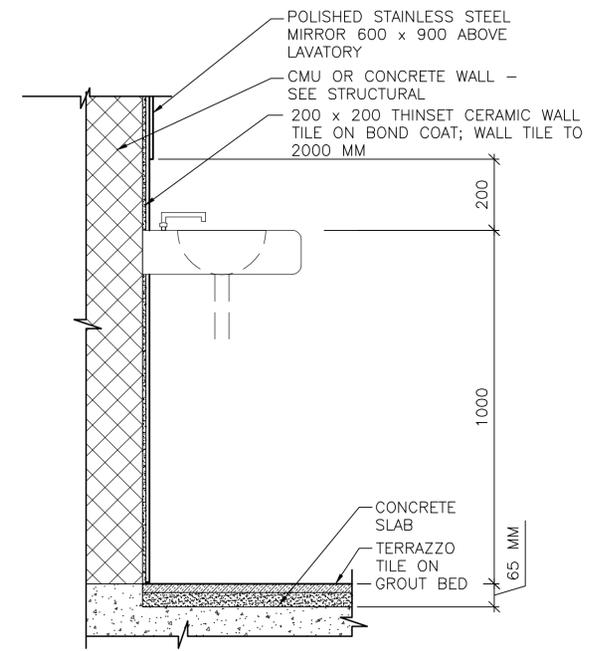
1 LATRINE DETAIL
 A-504 SCALE: 1:10



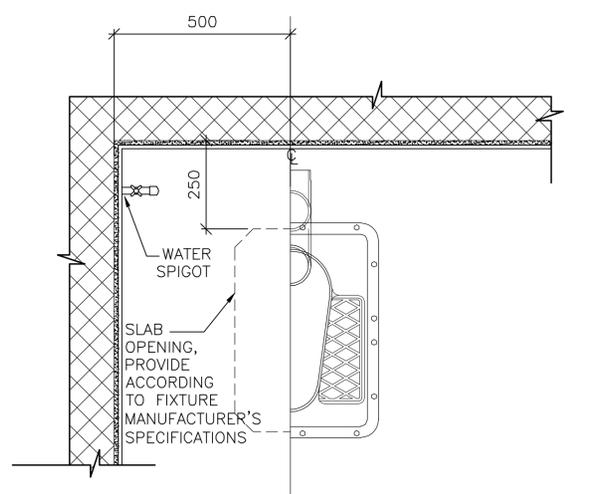
3 MOUNTING DETAIL
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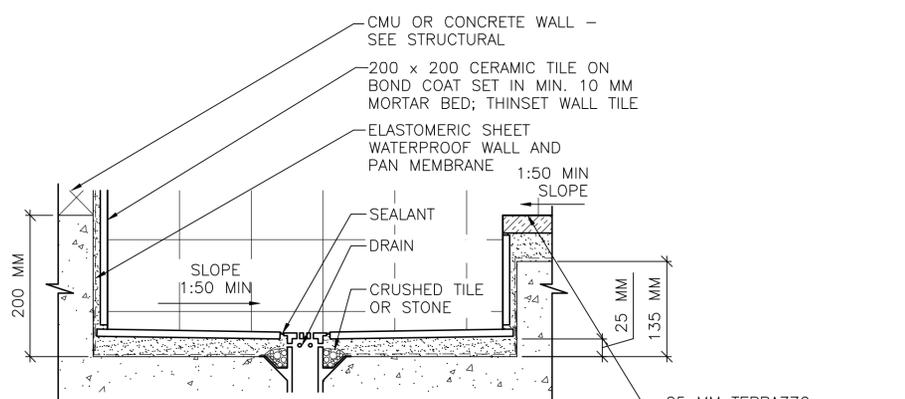
2 TOILET DETAIL
 A-504 SCALE: 1:10



4 WALL MOUNTED LAVATORY
 A-504 SCALE: 1:10



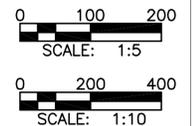
2A TOILET DETAIL
 A-504 SCALE: 1:10



5 RECESSED TROUGH
 A-504 SCALE: 1:5

25 MM TERRAZZO FLOOR TILE IN MORTAR BED; SEE STRUCTURAL FOR DEPRESSED SLAB

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



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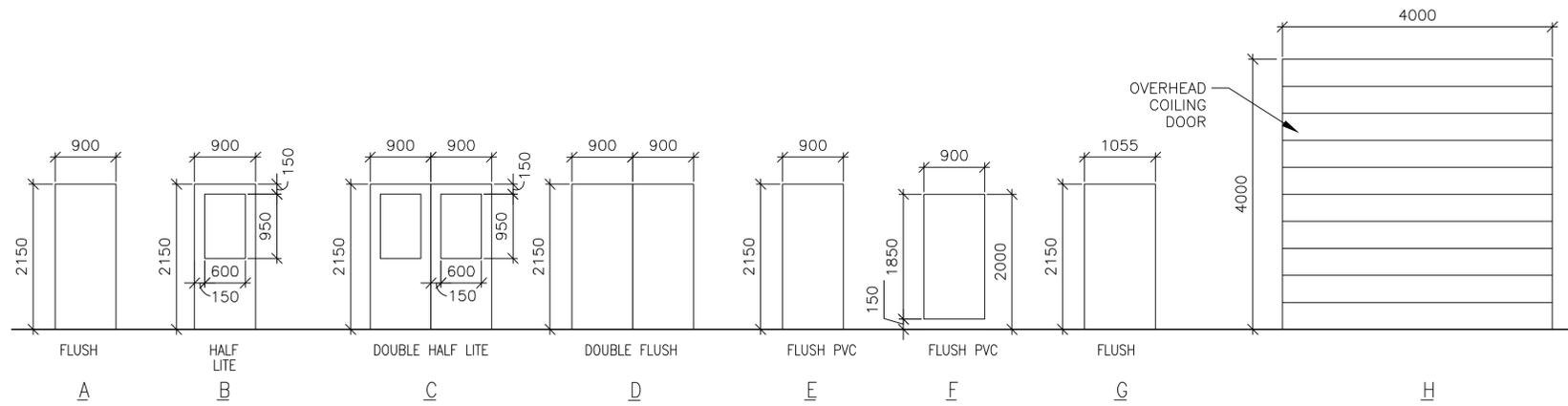
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 STANDARD DESIGN
 MEDICAL CLINIC
 TOILET & LAVATORY DETAILS

Sheet reference number:
A-504



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.



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

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.

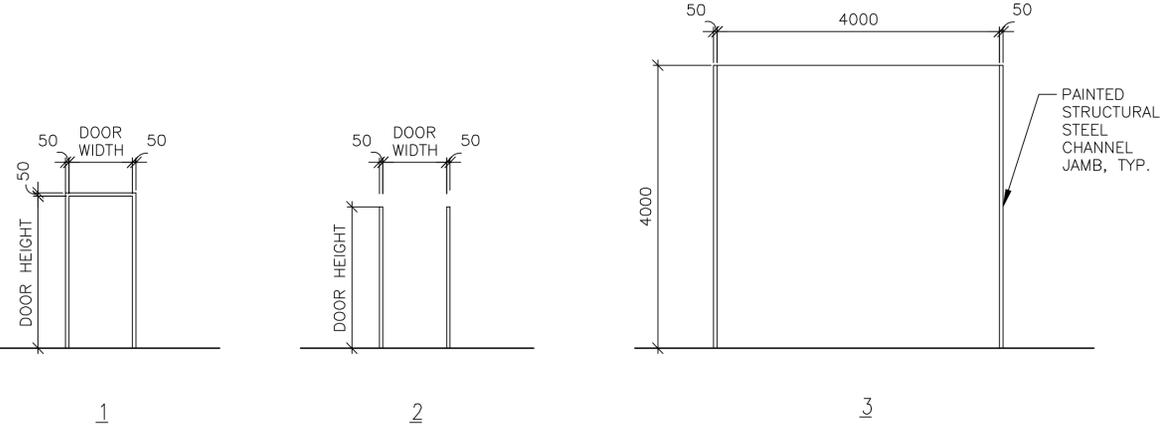
WINDOW TYPE NOTES:

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

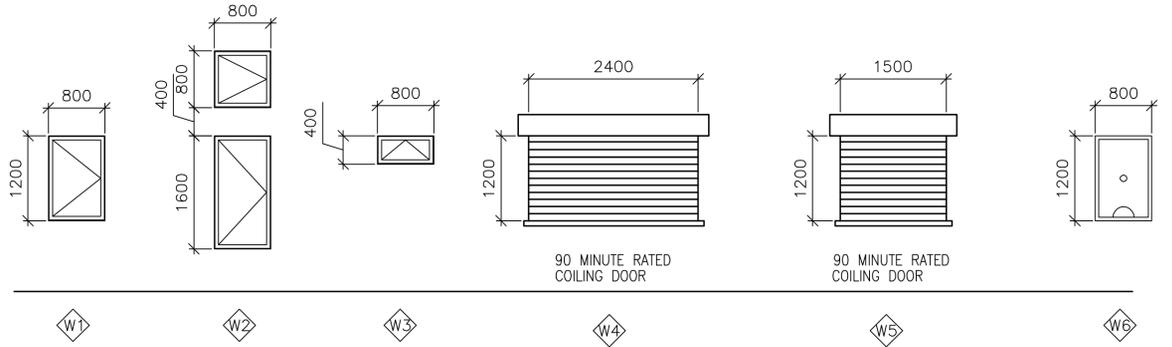
DOOR TAG NOTES:

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.

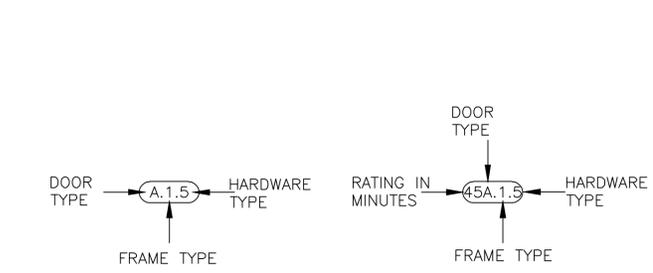
1 DOOR TYPES
SCALE: 1:50



2 FRAME TYPES
SCALE: 1:50



3 WINDOW TYPES
SCALE: 1:50



4 DOOR TAG
SCALE: NTS

5 RATED DOOR TAG
SCALE: NTS

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



Rev.	Description	Date	Mark

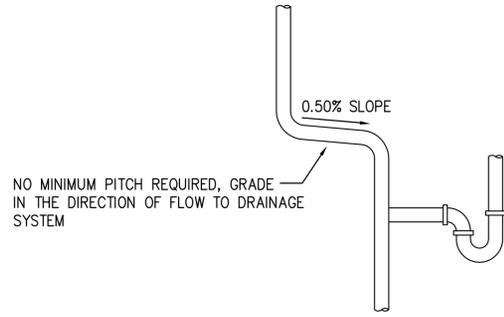
Designed by: KRC
Dwn by: KJG
Ctd by: NLJ
Reviewed by: LHM
Submitted by: BAKER

Date: 2/23/10
Design file no.:
Drawing code: ANAMEA-601SCH
File name: ANAMEA-601SCH
Plot date: 2/23/2010
Plot scale: xx

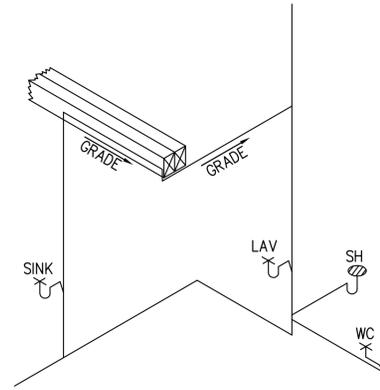
U.S. ARMY CORPS OF ENGINEERS
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MEDICAL CLINIC
WINDOW AND DOOR SCHEDULES

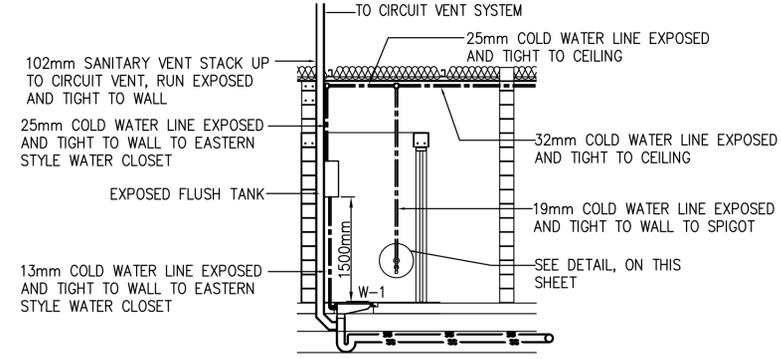
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A-601



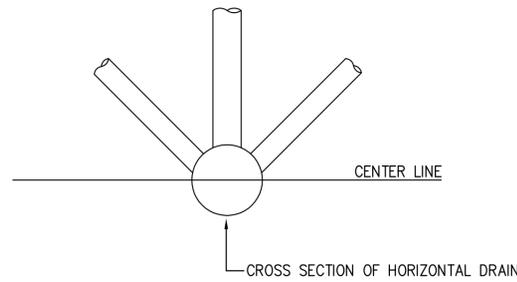
TYPICAL VENT GRADE DETAILS
SCALE: N.T.S.



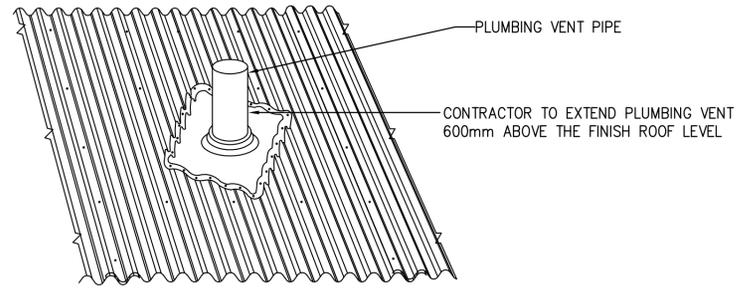
TYPICAL VENT GRADE DETAILS
SCALE: N.T.S.



TYPICAL EASTERN STYLE WATER CLOSET SANITARY & WATER INSTALLATION SCHEMATIC
SCALE: N.T.S.



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



PLUMBING VENT THRU ROOF DETAIL
SCALE: N.T.S.

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-2	WALL HUNG LAV FIXTURE	38mm	38mm	13mm	13mm	-----	LOW FLOW EFFICIENT TYPE
S-1	WALL HUNG SINK	38mm	38mm	13mm	13mm	-----	LOW FLOW EFFICIENT TYPE



Rev.	Date	Description	Mark	Appr.	Date
0					

Designed by: RMH	Checked by: CJM	Date: 02/23/10	Rev: 0
Dwn by: RMH	Reviewed by: BAKER	Design file no.	Plot date: 02/02/10
Submitted by: BAKER		Drawing code:	Plot scale: N.T.S.
		File name: ANAMEERL0200XX	

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MEDICAL CLINIC
PLUMBING DETAILS

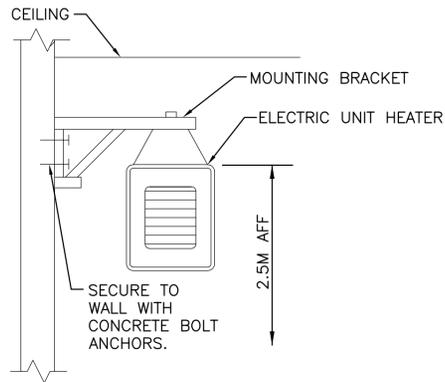
APPROVED:

A/E DESIGNER OF RECORD

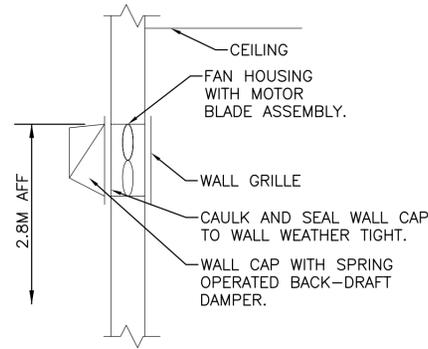
SEAL:

Matthew R. Sotosky

Sheet reference number:
P-502



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



2 WALL EXHAUST FAN DETAIL
M-101/N.T.S.

EXHAUST FAN SCHEDULE							
NO.	TYPE	FAN CMS	DRIVE	HP	SP mmH2O	ELECTRICAL DATA	SWITCH
EF-1	INLINE	0.050	DIRECT	FRACT	13	220/1/50	⊙ WALL
EF-2	INLINE	0.050	DIRECT	FRACT	13	220/1/50	⊙ WALL
EF-3	WALL	0.035	DIRECT	FRACT	9.5	220/1/50	W/ STAT
EF-4	INLINE	0.035	DIRECT	FRACT	13	220/1/50	⊙ WALL
EF-5	INLINE	0.035	DIRECT	FRACT	13	220/1/50	⊙ WALL
EF-6	WALL	0.035	DIRECT	FRACT	9.5	220/1/50	W/ STAT
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

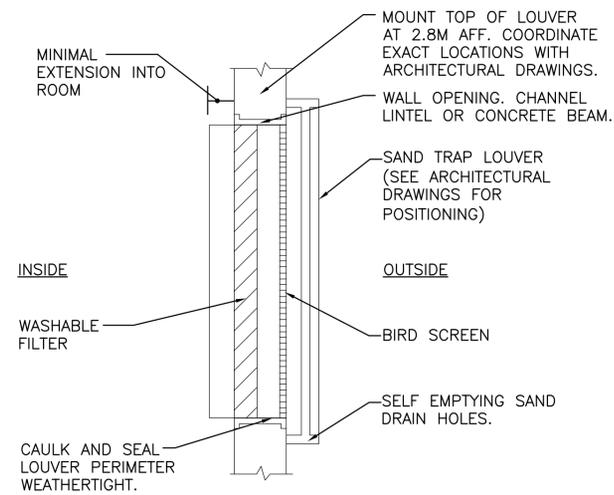
NOTES:
1. FANS SHALL HAVE LOW LEAKAGE GRAVITY LOUVER.

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-4	0.200	4	38	380/1/50	WALL HUNG

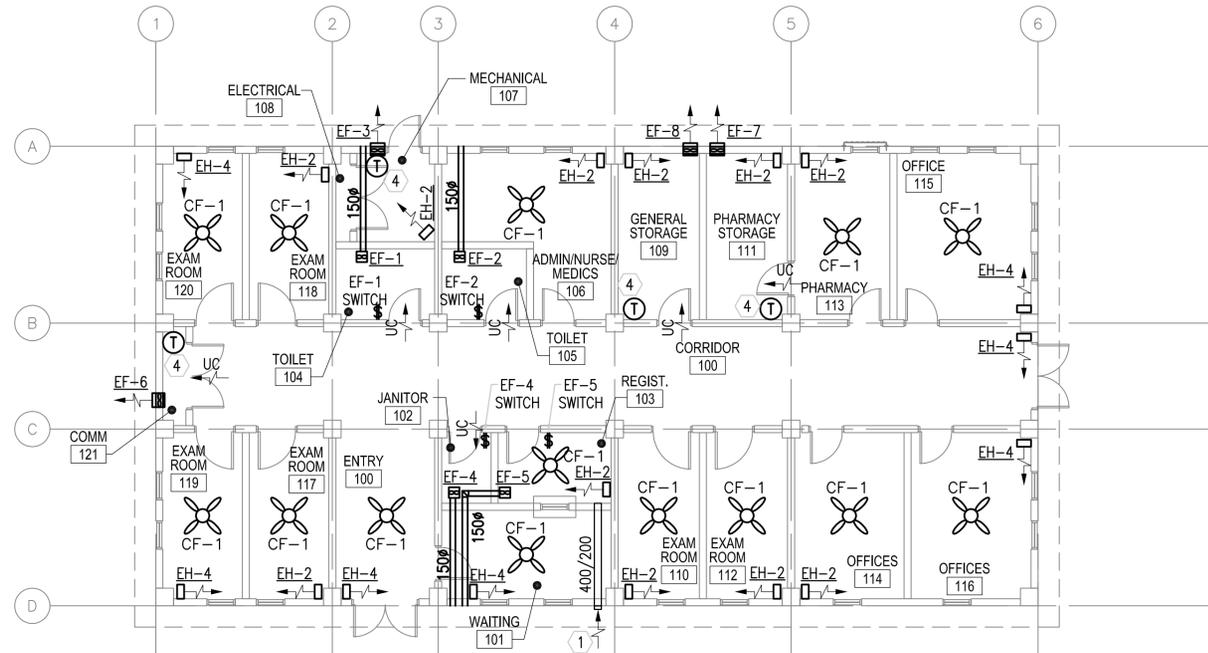
NOTES:
1. UNIT HEATERS SHALL HAVE TAMPER PROOF INTEGRAL STATS.
2. COORDINATE LOCATION AND ORIENTATION IN FIELD.

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

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



3 FILTERED SAND TRAP LOUVER
M-101/N.T.S.



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

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)
- UC DOOR UNDERCUT
- 400x200 (16x8) TRANSFER GRILLE
- ⊙ SINGLE POLE SWITCH - 20A RATED
- ⊙ 3 WAY SWITCH - 20A RATED

ABBREVIATIONS:

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

KEY NOTE:

- 400x200 (16x8) INTAKE LOUVER WITH BACK-DRAFT DAMPER PROVIDE WEATHER PROOF LOUVER W/0.05mm (2") WASHABLE FILTER AND SAND TRAP. SEE DETAIL 4 THIS SHEET.
- ELECTRIC UNIT HEATER SECURED TO WALL. SEE DETAIL 2 THIS SHEET.
- WALL EXHAUST FAN WITH LOW SPRING OPERATED BACK-DRAFT DAMPER. SEE DETAIL 3 THIS SHEET.
- 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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Rev.	Date	Description
0	02/23/10	Design file no.

Designed by: RML	Checked by: CJM	Drawing code: ANAMEM-101XXX
Dwn by: JUN	Reviewed by: MRS	File name: 02020210
Submitted by: BAKER		Plot date: 1:100

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STANDARD DESIGN

MEDICAL CLINIC
HVAC - FLOOR PLAN,
SCHEDULES AND DETAILS

APPROVED:

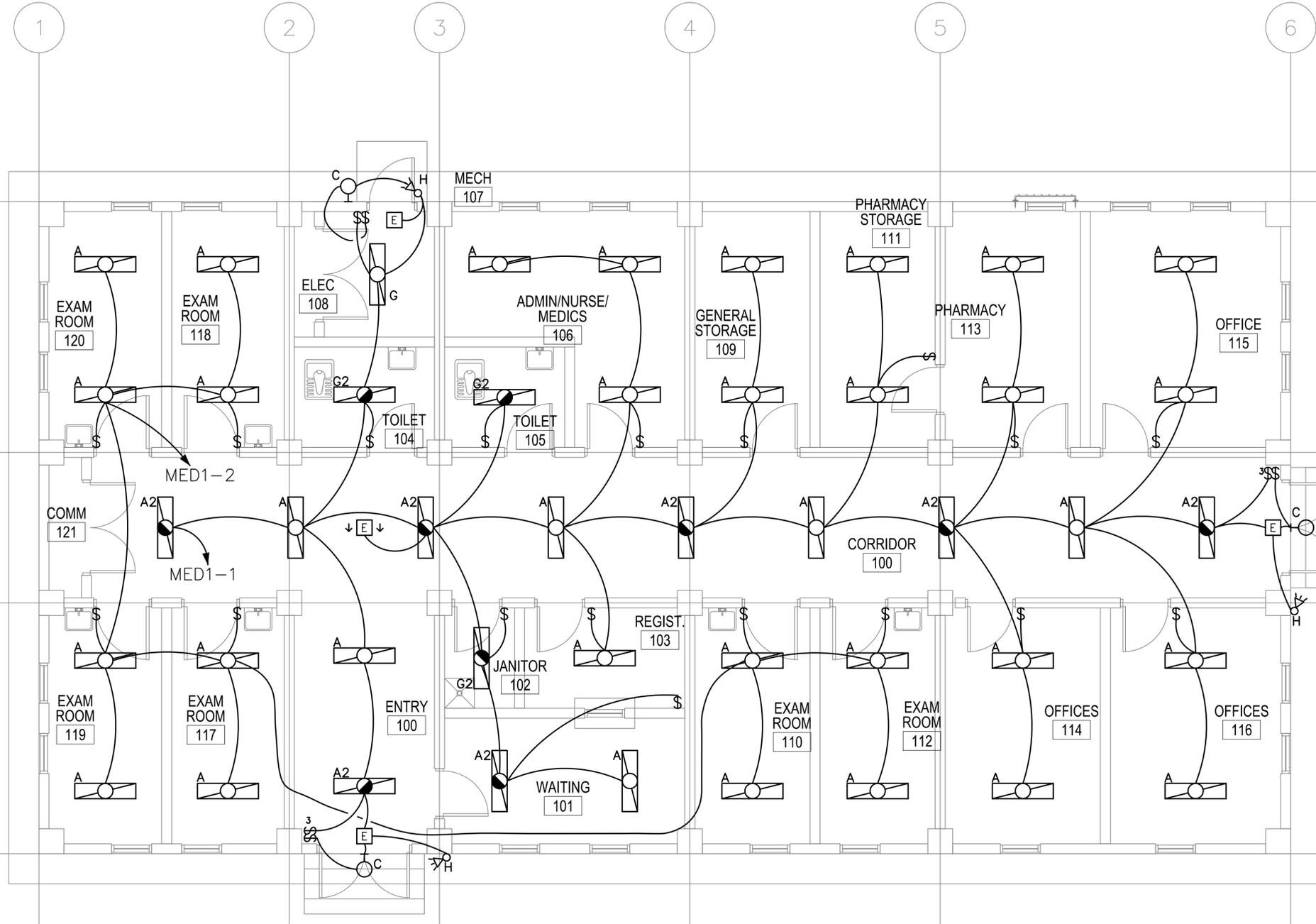
A/E DESIGNER OF RECORD

SEAL:

Sheet reference number:
M-101

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

0 2000 4000
SCALE: 1:100



GENERAL NOTES:

1. REFER TO DRAWING #E-001 FOR THE ELECTRICAL SYMBOLS LIST.
2. EXIT SIGNS SHALL BE WIRED AHEAD OF ANY LOCAL SWITCHING ON CIRCUITS.
3. REFER TO DRAWING #E-601 FOR THE LIGHTING FIXTURE SCHEDULE.
4. REFER TO DRAWING #E-501 FOR THE POWER RISER.
5. REFER TO DRAWING #E-602 FOR PANEL SCHEDULES.
6. LIGHT FIXTURES INDICATED AS EMERGENCY SHALL BE PROVIDED WITH A BATTERY BACKUP BALLAST. SEE WIRING DIAGRAM 8, DRAWING #E-501.

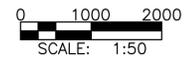


Rev.	Date	Description
0	2/23/10	Design file no.
		Drawn by: JRG
		Checked by: BUB
		Reviewed by: JRG
		Submitted by: BAKER

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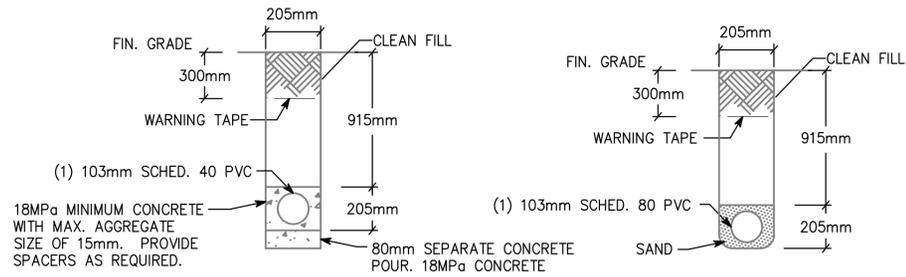
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 STANDARD DESIGN
 MEDICAL CLINIC
 ELECTRICAL LIGHTING PLAN

1 MEDICAL CLINIC-LIGHTING PLAN
 E-101 SCALE: 1:50

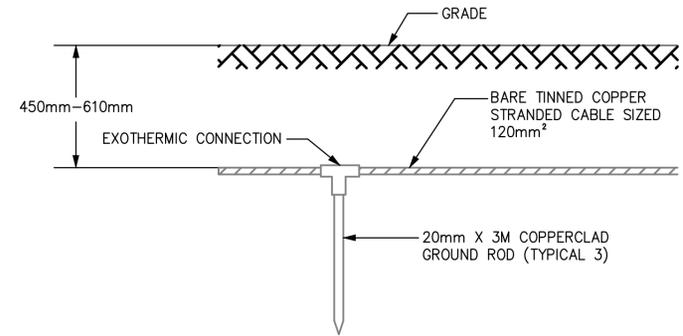


APPROVED: _____
 A/E DESIGNER OF RECORD
 SEAL:

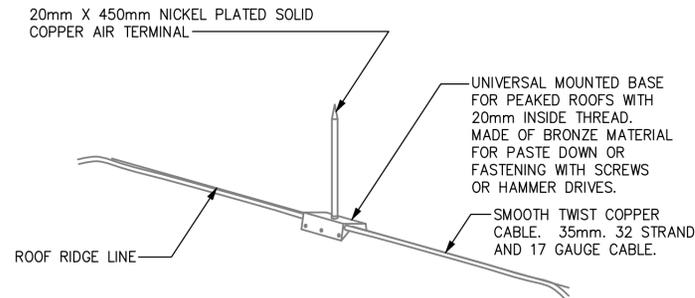

Sheet reference number:
 E-101



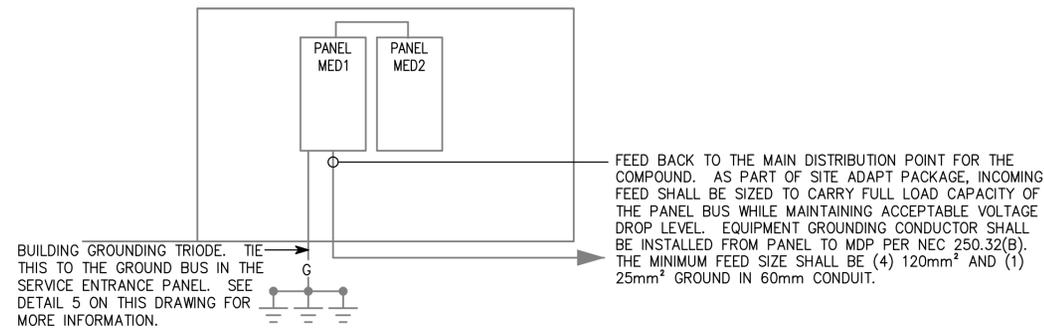
1 TYPICAL DUCT BANK DETAILS FOR CONDUIT IN SAND OR CONCRETE
SCALE: N.T.S.



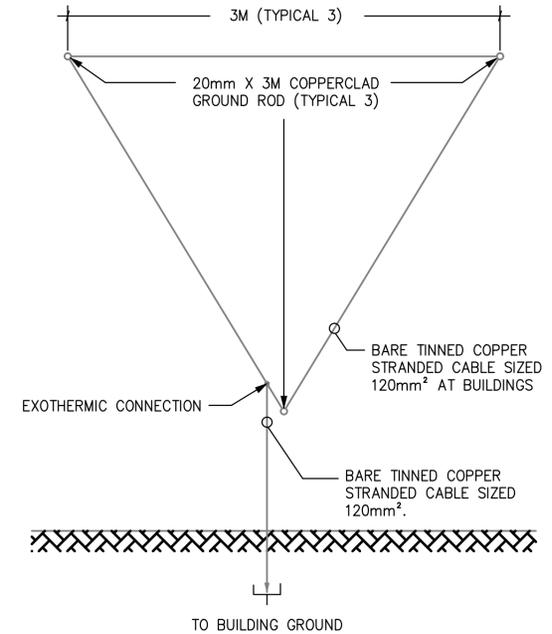
2 GROUND TRIPOD SYSTEM DETAIL - ELEVATION
SCALE: N.T.S.



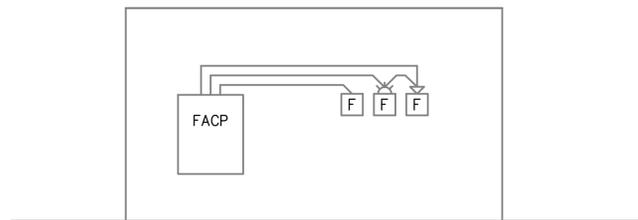
3 LIGHTNING PROTECTION AIR TERMINAL DETAIL
SCALE: N.T.S.



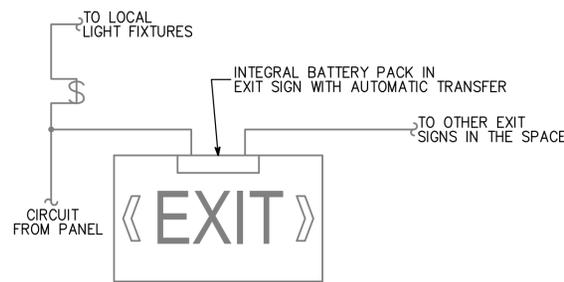
4 MED RISER DIAGRAM
SCALE: N.T.S.



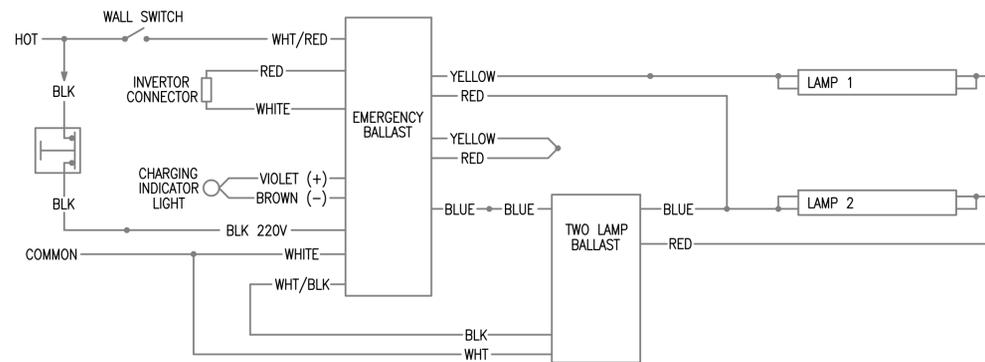
5 GROUND TRIPOD SYSTEM DETAIL - PLAN
SCALE: N.T.S.



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



7 EXIT SIGN WIRING DIAGRAM
SCALE: N.T.S.



8 EMERGENCY FIXTURE WIRING DIAGRAM
SCALE: N.T.S.



Rev.	Date	Description
0	2/23/10	Design file no.
		Drawing code:
		File name:
		Plot date:
		Plot scale:

Designed by:	Checked by:	Reviewed by:	Submitted by:
JRG	JRG	JRG	BAKER

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SEAL:

Sheet reference number:
E-501

FIXTURE MARK 'A'



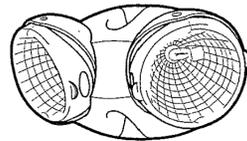
FIXTURE MARK 'C'



FIXTURE MARK 'G'



FIXTURE MARK 'H'



FIXTURE MARK 'E'



LIGHT FIXTURE SCHEDULE

FIXTURE MARK	STYLE NUMBER AND TYPE	NUMBER AND TYPE OF LAMPS	VOLTAGE	MOUNTING	NOTES
A	PARABOLIC SURFACE/PENDANT MOUNTED 300MM X 1200MM FLUORESCENT FIXTURE WITH ELECTRONIC BALLAST	(2) 32W 3500K	220V - 1Ø 50HZ	SURFACE MOUNTED	FURNISHED WITH ELECTRONIC BALLAST. PARABOLIC LOUVER SHALL BE SPECULAR LENS IRADESCENCE TYPE.
A2	SAME AS FIXTURE 'A' WITH EMERGENCY BALLAST	(2) 32W 3500K	220V - 1Ø 50HZ	SURFACE MOUNTED	FURNISHED WITH ELECTRONIC BALLAST. PARABOLIC LOUVER SHALL BE SPECULAR LENS IRADESCENCE TYPE. EMERGENCY BALLAST SELF TEST.
C	INCANDESCENT ONE PIECE W/ APPROVED LENS STABILIZED HIGH IMPACT POLY CARBONATE.	(1) A19 - 100W INCANDESCENT	220V - 1Ø 50HZ	WALL MOUNTED ABOVE EXTERIOR DOORS	
G	WRAP AROUND SURFACE/PENDANT MOUNTED FLUORESCENT FIXTURE WITH PRISMATIC ACRYLIC LENS AND ELECTRONIC BALLAST	(2) 32W 3500K	220V - 1Ø 50HZ	SURFACE MOUNTED	FURNISHED WITH ELECTRONIC BALLAST, VIRGIN ACRYLIC WRAP AROUND LENS.
G2	SAME AS FIXTURE 'G' WITH EMERGENCY BALLAST	(2) 32W 3500K	220V - 1Ø 50HZ	SURFACE MOUNTED	FURNISHED WITH ELECTRONIC BALLAST, VIRGIN ACRYLIC WRAP AROUND LENS. EMERGENCY BALLAST WITH SELF TEST SWITCH.
H	REMOTE HEAD EXTERIOR LIGHT HEAD POWERED FROM EXIT SIGN BATTERY- 12V DOUBLE HEAD CORROSION RESISTANT WITH UL34 WEATHERPROOF CONSTRUCTION	(2) 12W/12V HALOGEN LAMP	12V - 1Ø 50HZ	EXTERIOR WALL MOUNTED AT TOP OF DOOR HEIGHT	
E	UNIVERSAL MOUNT ENGINEER GRADE THERMOPLASTIC HOUSING EXIT SIGN WITH LED LAMPS, RED LETTERS 6" IN HEIGHT WITH ARROWS AS INDICATED, WITH 12V CADMIUM BATTERY WITH REMOTE HEAD CAPABILITY	LED LAMPS	220V - 1Ø 50HZ	UNIVERSAL MOUNTING	



Date	Rev.	Description
	0	

Designed by: JRG	Checked by: JRG	Date: 2/23/10	Rev: 0
Drawn by: BJB	Reviewed by: JRG	Design file no.	
Submitted by: BAKER		Drawing code:	
		File name:	
		Plot date:	
		Plot scale:	

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MEDICAL CLINIC
ELECTRICAL LIGHT FIXTURE SCHEDULE

Sheet reference number:
E-601

APPROVED:

A/E DESIGNER OF RECORD

SEAL:

D

C

B

A



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AFGHANISTAN ENGINEER DISTRICT

PANELBOARD MED1 SURFACE MOUNTED																
AMP. MAIN LUGS (OR) 225 AMP. MAIN BREAKER W/ 225 AMP. TRIP																
CIRCUIT BREAKER TYPE 380/220 VOLTS 3 PHASE 4 WIRE 50 HZ 225 AMP. BUS																
Ckt. No.	TRIP AMPS	WIRE NO.	WIRE MM ²	CONDUIT MM	LOAD-KVA			LOAD-KVA			LOAD SERVED	CONDUIT MM	GND MM ²	WIRE MM ²	TRIP AMPS	Ckt. No.
					A0	B0	C0	A0	B0	C0						
1	20	1	4.0	20						LTNG - RM 100-107, 109, 111-116	2.6			0.8	2	
3	20	1	4.0	20						RECEPTACLES - RM 118,120				0.8	4	
5	20	1	4.0	20						RECEPTACLES - RM 120				0.6	6	
7	20	1	4.0	20						RECEPTACLES - RM 118	0.6			0.6	8	
9	20	1	4.0	20						FACP - RM 121				0.5	10	
11	20	1	4.0	20						RECEPTACLES - RM 107				0.4	12	
13	20	1	4.0	20						RECEPTACLES - RM 107	0.4			0.4	14	
15	20	1	4.0	20						RECEPTACLES - RM 106				0.6	16	
17	20	1	4.0	20						RECEPTACLES - RM 106				0.6	18	
19	20	1								SPARE				0.6	20	
21	20	1	4.0	20						RECEPTACLES - RM 109,111	0.8			0.8	22	
23	20	1	4.0	20						RECEPTACLES - RM 109				0.6	24	
25	20	1	4.0	20						RECEPTACLES - RM 111	0.6			0.6	26	
27	20	1	4.0	20						RECEPTACLES - RM 113,115	0.8			0.6	28	
29	20	1	4.0	20						RECEPTACLES - RM 113				0.4	30	
31	20	1	4.0	20						RECEPTACLES - RM 115	0.6			1.0	32	
33	20	1	4.0	20						RECEPTACLES - RM 100				0.8	34	
35	20	1	4.0	20						RECEPTACLES - RM 100				0.8	36	
37	20	1	4.0	20						CEILING FANS - RM 117-120	0.8			21.6	38	
39	20	1	4.0	20						CEILING FANS - RM 113,115				0.8	40	
41	20	1	4.0	20						CLNG FANS - RM 110-116,100,103,106				0.8	42	
					5.6	5.1	4.2	25.6	26.8	26.6						
TOTAL CONN. LOAD PER PHASE (KVA): A0 31.2 B0 31.9 C0 30.8																
TOTAL CONN. LOAD 93.9 KVA. 70 % DEMAND = ESTIMATED DEMAND LOAD 65.73																

* MAIN BREAKER SHALL BE 3P EARTH GROUND TYPE

PANELBOARD MED2 SURFACE MOUNTED																
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	WIRE NO.	WIRE MM ²	CONDUIT MM	LOAD-KVA			LOAD-KVA			LOAD SERVED	CONDUIT MM	GND MM ²	WIRE MM ²	TRIP AMPS	Ckt. No.
					A0	B0	C0	A0	B0	C0						
1	20	1	4.0	20						EXHAUST FAN #6 - RM 121	0.5			1.3	2	
3	20	1	4.0	20						ELECTRIC HEAT #2 - RM 110				2.0	4	
5	20	1	4.0	20						ELECTRIC HEAT #4 - RM 119				2.0	6	
7	20	1	4.0	20						EXHAUST FANS #4,#5 - RM 102,103	1.0			2.0	8	
9	20	1	4.0	20						ELECTRIC HEAT #2 - RM 112,114				2.6	10	
11	20	1	4.0	20						ELECTRIC HEAT #4 - RM 101				2.0	12	
13	20	1	4.0	20						ELECTRIC HEAT #4 - RM 116	2.0			2.6	14	
15	20	1	4.0	20						ELECTRIC HEAT #2 - RM 111,113				2.0	16	
17	20	1	4.0	20						ELECTRIC HEAT #4 - RM 100				2.0	18	
19	20	1	4.0	20						ELECTRIC HEAT #2 - RM 106,109	2.0			2.6	20	
21	20	1	4.0	20						ELECTRIC HEAT #4 - RM 115				2.0	22	
23	20	1	4.0	20						ELECTRIC HEAT #2 - RM 108,118				2.6	24	
25	20	1	4.0	20						EXHAUST FANS #1,#2 - RM 104,105	1.0			2.0	26	
27	20	1	4.0	20						EXHAUST FAN #3 - RM 107				0.5	28	
29	20	1								SPARE				1.3	30	
31	20	1								ELECTRIC HEAT #2 - RM 103	2.0			1.3	32	
33	20	3	4.0	20						EXHAUST FANS #7,#8 - RM 109,111				2.0	34	
35	20	1								ELECTRIC HEAT #2 - RM 117				2.0	36	
37	20	1								SPARE				1.3	38	
39	20	1								SPARE					40	
41	20	1								SPARE					42	
					8.5	11.1	10.6	13.1	11.5	11.8						
TOTAL CONN. LOAD PER PHASE (KVA): A0 21.6 B0 22.6 C0 22.4																
TOTAL CONN. LOAD 66.6 KVA. 70 % DEMAND = ESTIMATED DEMAND LOAD 46.62																

Rev.	Date	Design file no.	Drawing code:	File name:	Plot date:	Plot scale:
0	2/23/10					

Designed by:	Drawn by:	Checked by:	Reviewed by:	Submitted by:
JRG	BUB	JRG	JRG	BAKER

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AFGHAN NATIONAL ARMY
REGIONAL MILITARY TRAINING CENTER
STANDARD DESIGN

MEDICAL CLINIC
ELECTRICAL PANEL SCHEDULES

Sheet reference number:
E-602

APPROVED:

A/E DESIGNER OF RECORD

SEAL:

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C

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