

AFGHAN NATIONAL ARMY

STANDARD BUILDING DESIGN

200 STUDENT CLASSROOM BUILDING

(8) 25 STUDENT CLASSROOMS

100% FINAL DESIGN SUBMITTAL

SHEET INDEX

G-001 COVER SHEET

STRUCTURAL

S-001 GENERAL NOTES & DESIGN CRITERIA
 S-101 FOUNDATION/SLAB & ROOF FRAMING PLANS
 S-401 BUILDING SECTIONS
 S-501 FOUNDATION SECTIONS
 S-502 FRAMING SECTIONS
 S-503 BEAM & COLUMN DETAILS
 S-504 BEAM & COLUMN DETAILS
 S-601 SCHEDULES
 S-701 TYPICAL DETAILS
 S-702 TYPICAL DETAILS

ARCHITECTURAL

A-001 LIFE SAFETY PLAN
 A-101 FLOOR PLAN
 A-102 ROOF PLAN
 A-201 ELEVATIONS
 A-301 BUILDING SECTIONS
 A-401 WALL SECTIONS
 A-501 EXTERIOR DETAILS
 A-502 HEAD, JAMB, & SILL DETAILS
 A-503 STOOP DETAILS
 A-601 WINDOW & DOOR SCHEDULES

MECHANICAL

M-101 HVAC FLOOR PLAN, SCHEDULES, & DETAILS

ELECTRICAL

E-001 ELECTRICAL SYMBOLS & ABBREVIATIONS
 E-101 ELECTRICAL LIGHTING PLAN
 E-102 ELECTRICAL POWER & SYSTEMS PLAN
 E-501 ELECTRICAL DETAILS
 E-502 ELECTRICAL DETAILS
 E-601 ELECTRICAL LIGHT FIXTURE SCHEDULE
 E-602 ELECTRICAL PANEL SCHEDULES



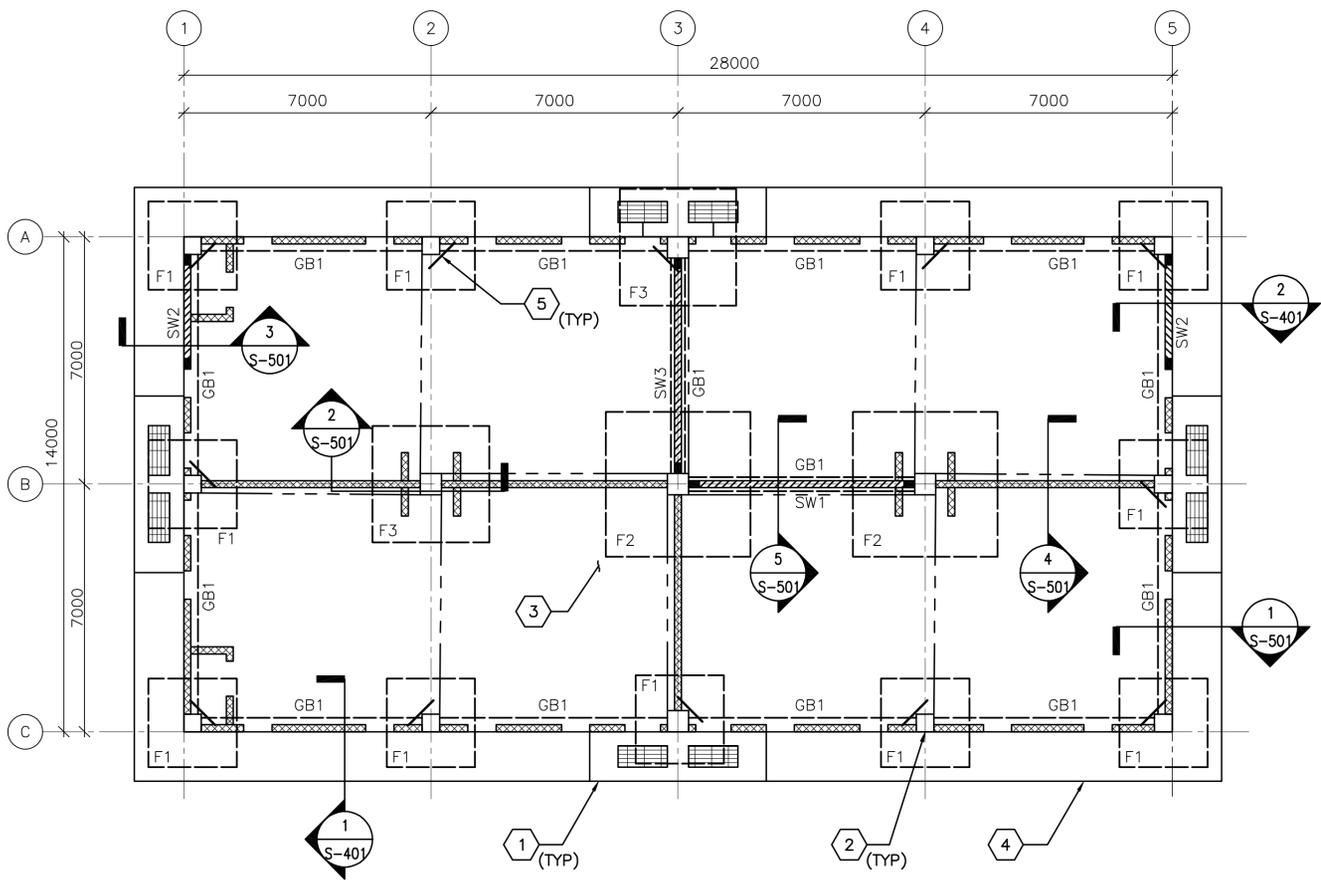
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 OF ENGINEERS
 AFGHANISTAN
 ENGINEER DISTRICT

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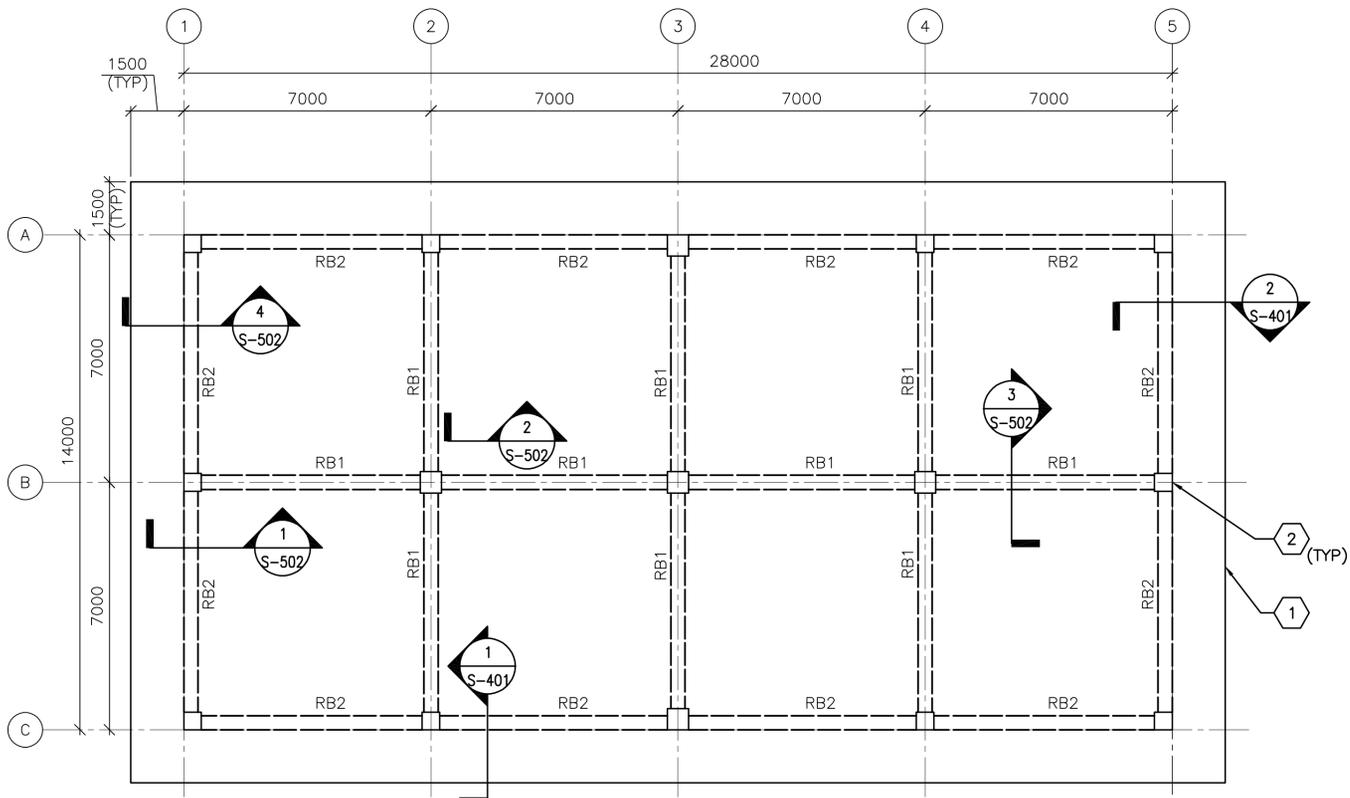
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AFGHAN NATIONAL ARMY
 REGIONAL MILITARY TRAINING CENTER
 STANDARD DESIGN
 200 STUDENT CLASSROOM BUILDING
 (8) 25 STUDENT CLASSROOMS
 COVER SHEET

Sheet
 reference
 number:
G-001



1 FOUNDATION/SLAB PLAN
S101 SCALE: 1:100



2 ROOF FRAMING PLAN
S101 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 0.00) ALL PLUS OR MINUS DIMENSIONS INDICATED ON PLAN OR REFERRED TO IN NOTES RELATE TO FINISH FLOOR ELEVATION.
- SLAB-ON-GRADE IS 150 WITH #13 @ 300 OC EW LOCATED 38 FROM T/SLAB.
- 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.
- 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 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
- CONC SIDEWALK
- (2)-#13 RE-ENTRANT CORNER BARS - SEE S-701 FOR INFORMATION

FOUNDATION/SLAB PLAN LEGEND:

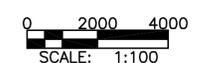
- REINF CONC SHEAR WALL
- REINF CMU WALL
- CONTROL JOINT

ROOF FRAMING PLAN NOTES:

- REFER TO SHEETS S-001 FOR STRUCTURAL NOTES AND DESIGN CRITERIA.
- TOP OF SLAB ELEVATION = 3500 UNLESS NOTED OTHERWISE.
- ROOF SLAB IS 200 WITH #16 @ 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.
- CONCRETE/CMU PERIMETER AND 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:
Chris White
A/E DESIGNER OF RECORD



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		Mark
		Date
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Dwn by: RCG
Crd by: CWV
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
Arlide Business Park
100 Arlide Drive, PA 15108
www.mbakercorp.com

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AFGHAN NATIONAL ARMY
REGIONAL MILITARY TRAINING CENTER
STANDARD DESIGN

200 STUDENT CLASSROOM BUILDING
(8) 25 STUDENT CLASSROOMS
FOUNDATION/SLAB &
ROOF FRAMING PLANS

Sheet reference number:
S-101



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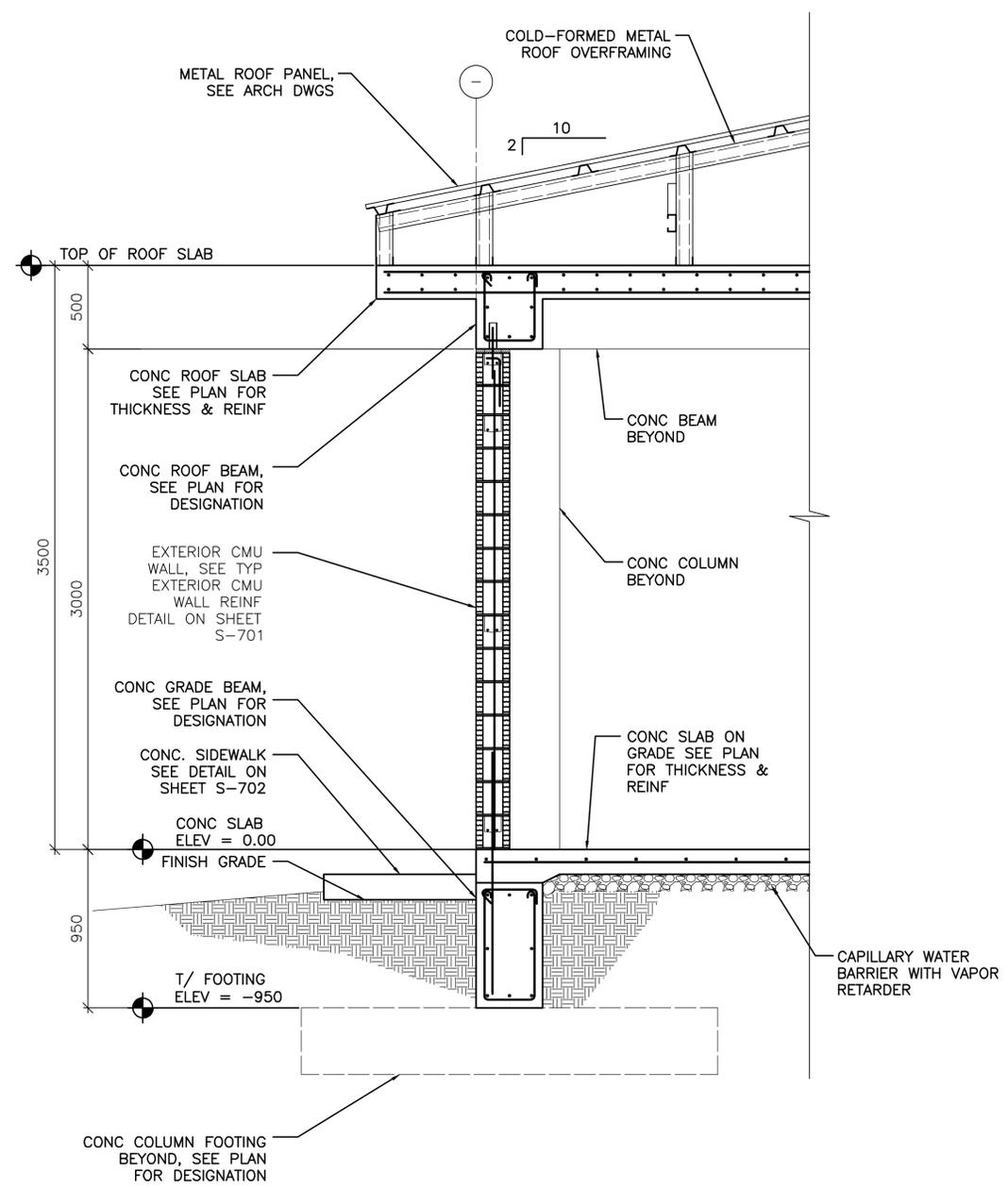
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Dwn by: RCG	Design file no. 2/23/10	Drawing code: ANACR25-401B	File name: ANACR25-401B
U.S. ARMY CORPS OF ENGINEERS AFGHANISTAN ENGINEER DISTRICT APO AE 96338	Michael Baker Jr., Inc. A unit of Michael Baker Corporation 100 Ardsley Drive, PA 15108 www.mbakercorp.com	Plot date: 2/23/2010	Plot scale: 1:20

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STANDARD DESIGN

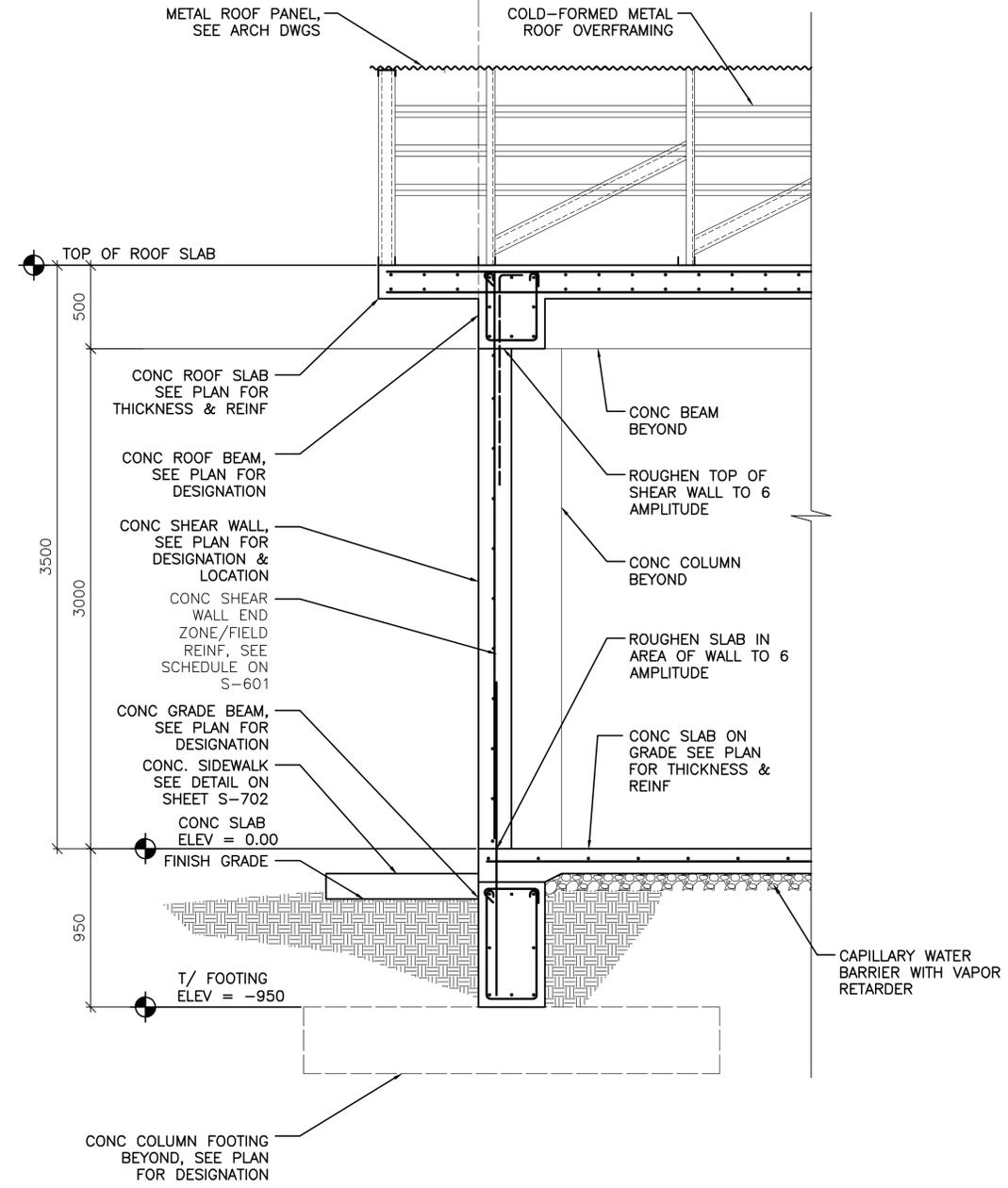
200 STUDENT CLASSROOM BUILDING
(8) 25 STUDENT CLASSROOMS

BUILDING SECTIONS

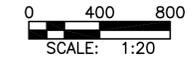
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S-401



1
TYPICAL WALL SECTION
AT EXTERIOR MASONRY WALL
SCALE: 1:20



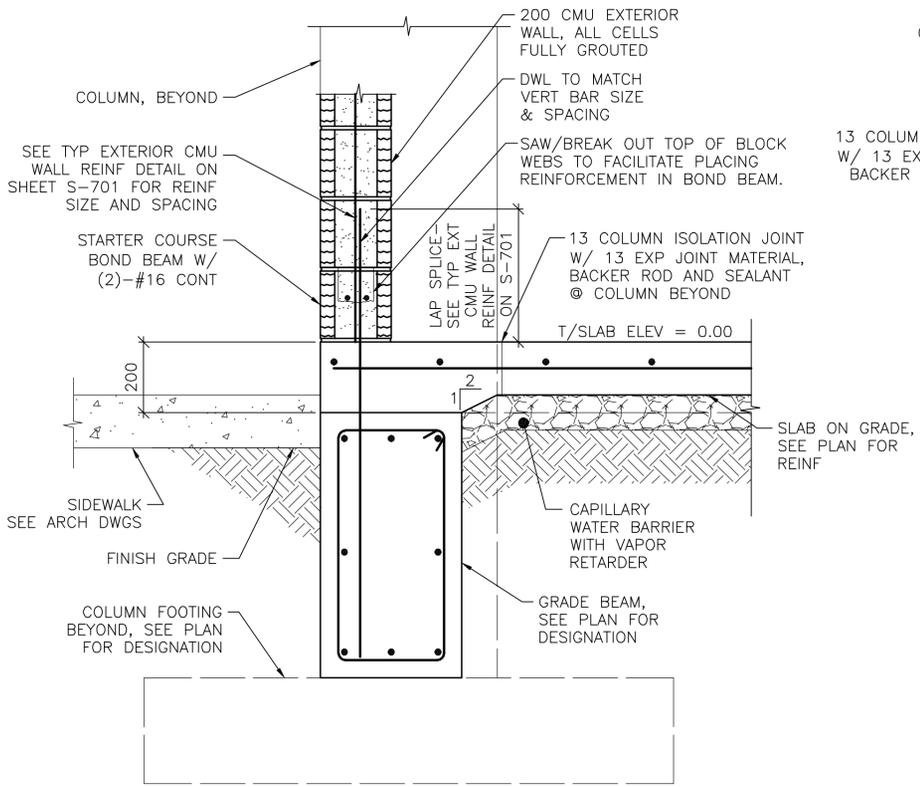
2
TYPICAL WALL SECTION
AT CONCRETE SHEAR WALL
SCALE: 1:20



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

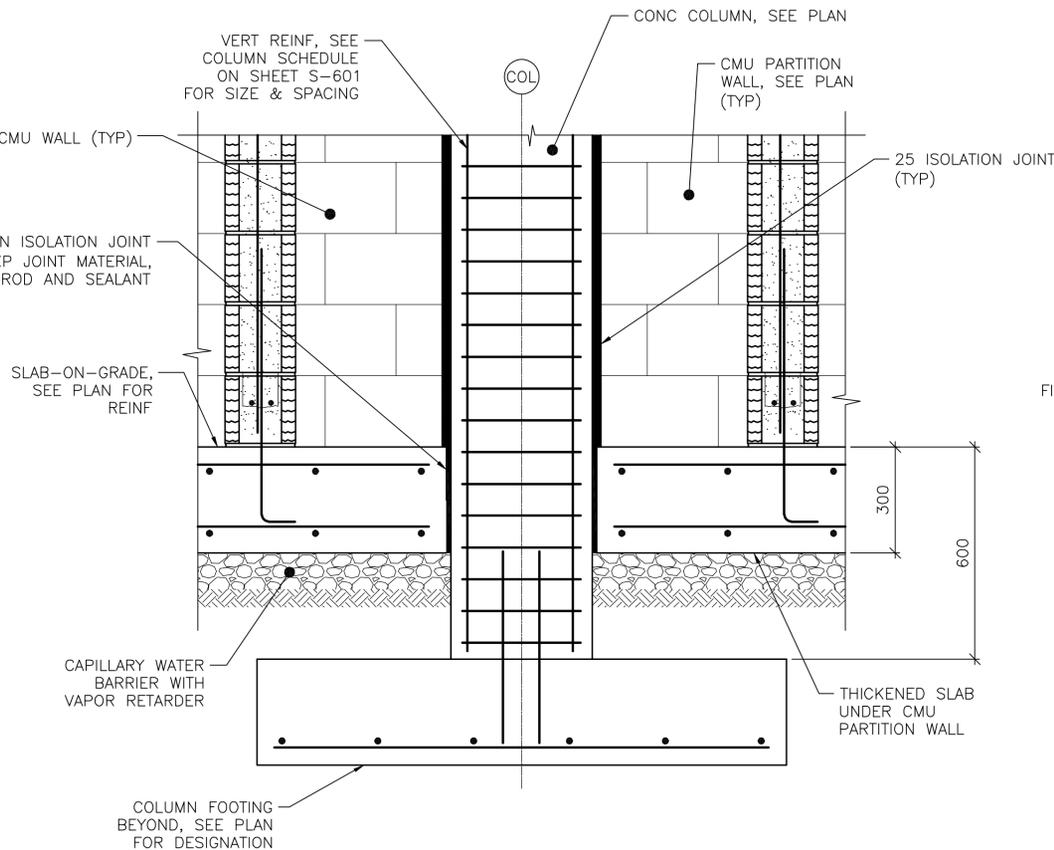
APPROVED:
Chris M. [Signature]
A/E DESIGNER OF RECORD



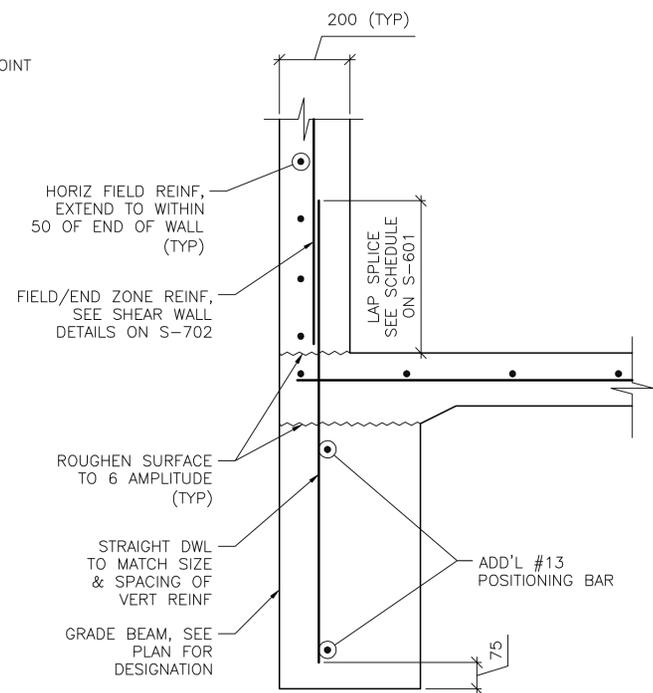


NOTE:
1. SECTION IS SIMILAR FOR INTERIOR CMU PARTITIONS OVER GRADE BEAMS SHOWING THICKENED 200 CONC SLAB AREA.

1 SECTION
S-101 SCALE: 1:10

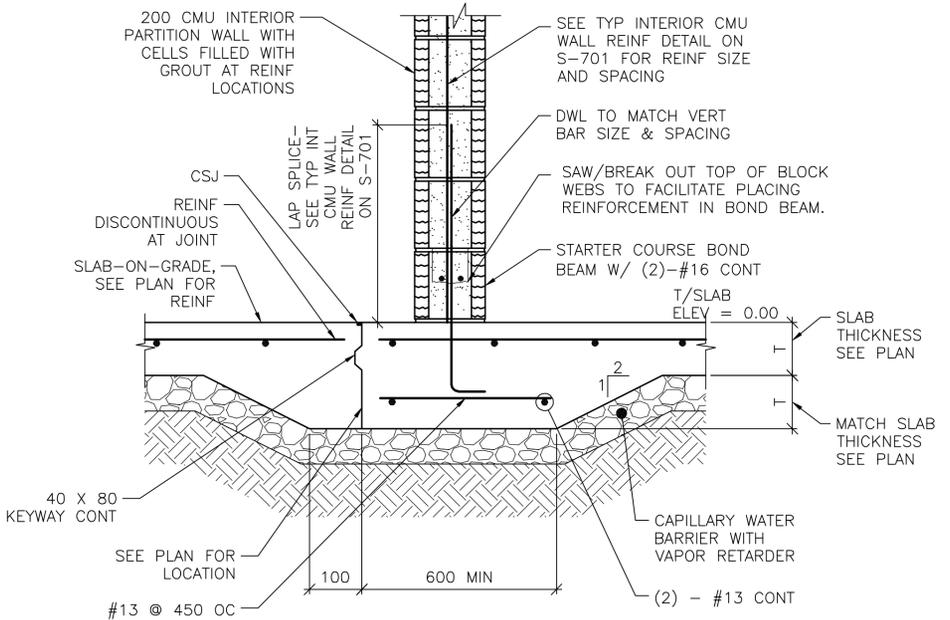


2 SECTION
S-101 SCALE: 1:10



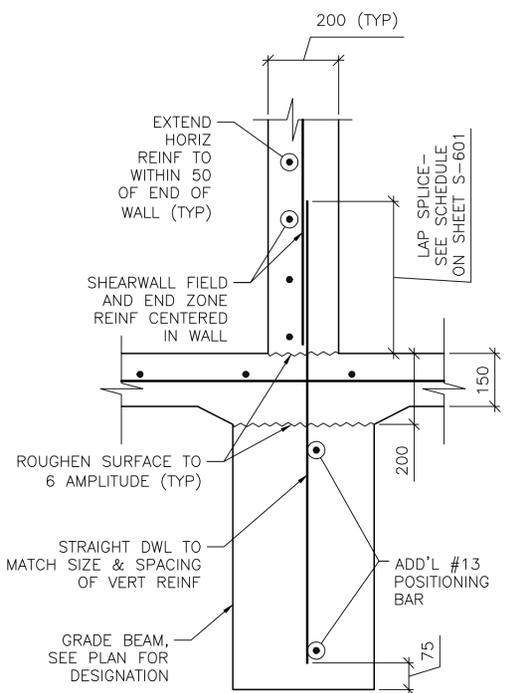
NOTES:
1. SECTION DEPICTS SHEAR WALL TERMINATION ONLY. GRADE BEAM REINFORCING NOT SHOWN FOR CLARITY.
2. SEE S-601 AND S-702 FOR SCHEDULED FIELD AND END ZONE REINF.

3 SECTION
S-101 SCALE: 1:10



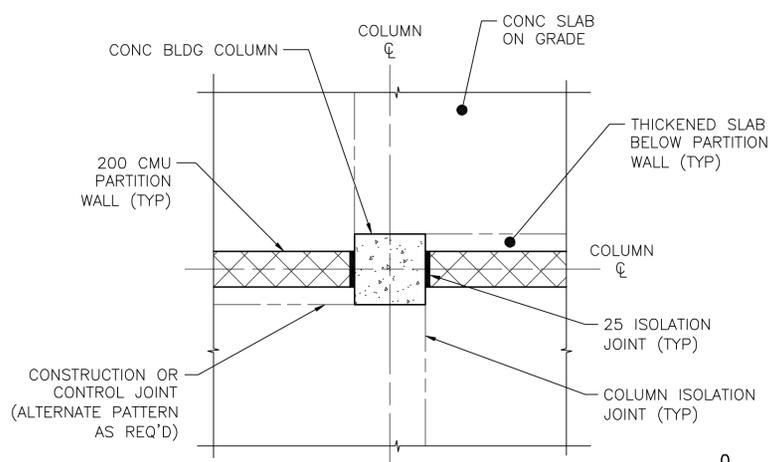
4 SECTION
S-101 SCALE: 1:10

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



5 SECTION
S-101 SCALE: 1:10

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



A COLUMN ISOLATION JOINT DETAIL
S-501 SCALE: NTS

0 200 400
SCALE: 1:10

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

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

SEAL:



Rev.	Date	Description	Appr.	Date
1	2/23/10	Design file no.		
2		Mark		

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

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AFGHANISTAN ENGINEER DISTRICT
APO AE 96338
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A Unit of Michael Baker Corporation
Alside Business Park
100 Alside Drive, PA 15108
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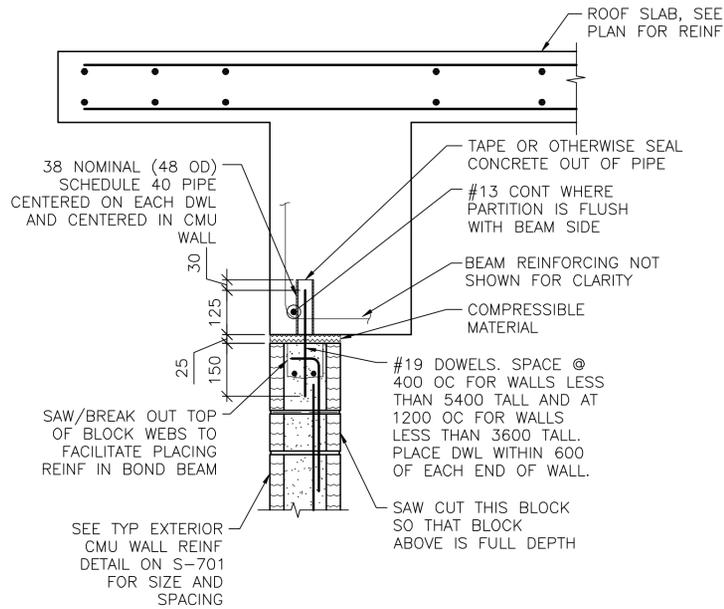
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Plot date: 2/23/2010
Plot scale: 1:10

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200 STUDENT CLASSROOM BUILDING
(8) 25 STUDENT CLASSROOMS

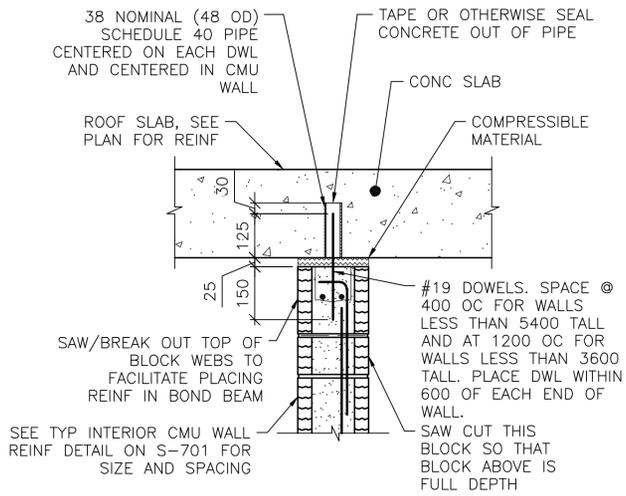
FOUNDATION SECTIONS

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S-501



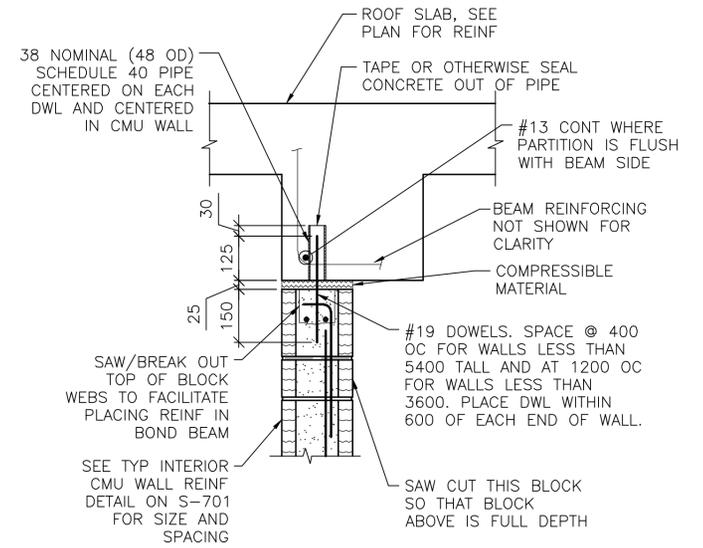
- NOTES:
1. EXTEND DOWEL REINF TO 25 CLEAR FROM TOP OF CMU WALL.

1 SECTION
S-101 SCALE: 1:10



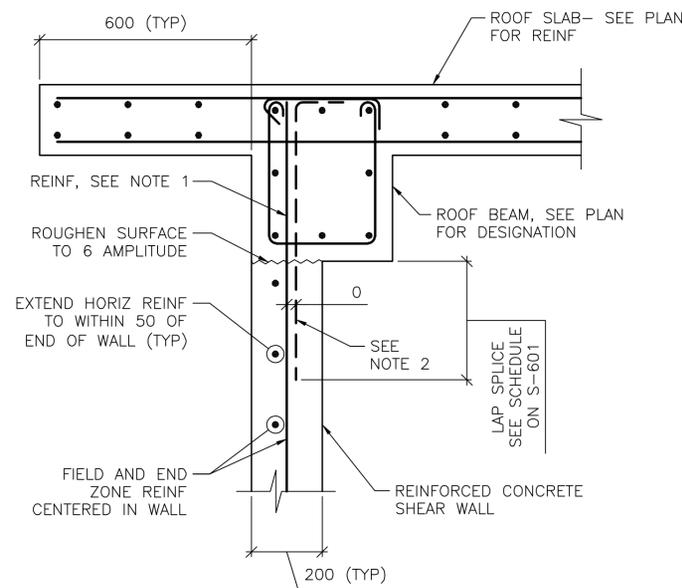
- NOTES:
1. EXTEND DOWEL REINF TO 25 CLEAR FROM TOP OF CMU WALL.
 2. SLAB REINF NOT SHOWN FOR CLARITY.

2 SECTION
S-101 SCALE: 1:10



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

3 SECTION
S-101 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 SHEETS S-601 AND S-702 FOR SCHEDULED FIELD AND END ZONE REINF.

4 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

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Dwn by: RCG
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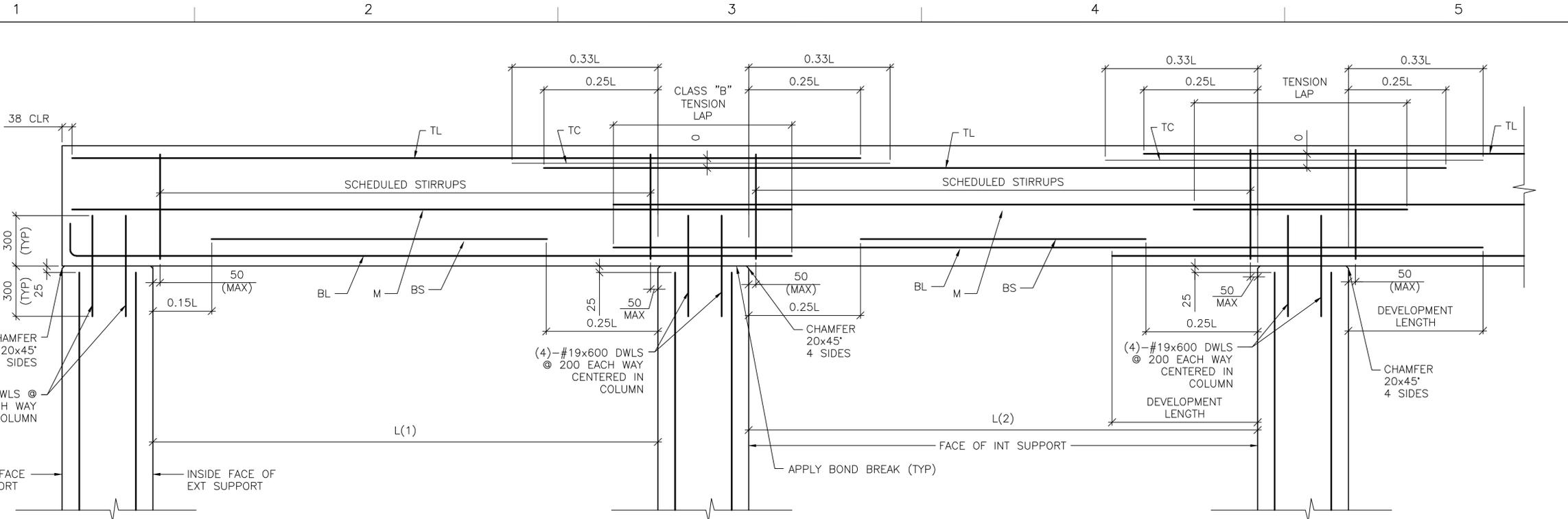
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STANDARD DESIGN

200 STUDENT CLASSROOM BUILDING
(8) 25 STUDENT CLASSROOMS

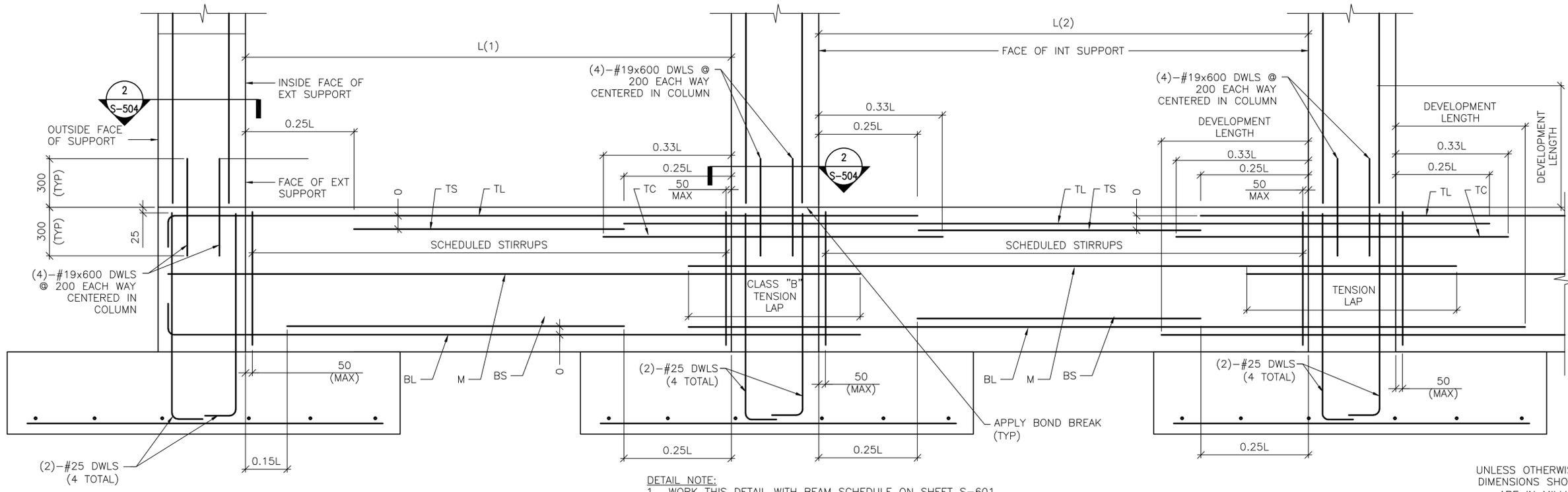
FRAMING SECTIONS

Sheet reference number:
S-502



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

1
S-503
ROOF BEAM REINFORCING DETAIL
 SCALE: NTS



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

2
S-503
GRADE BEAM REINFORCING DETAIL
 SCALE: NTS

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

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Chris White
 A/E DESIGNER OF RECORD

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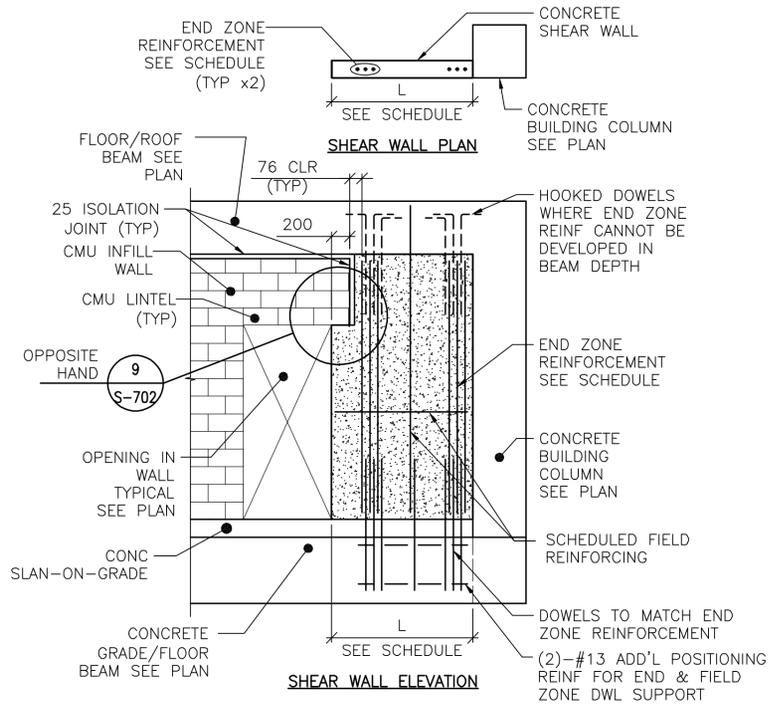
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 STANDARD DESIGN
 200 STUDENT CLASSROOM BUILDING
 (8) 25 STUDENT CLASSROOMS
 BEAM & COLUMN DETAILS

Sheet reference number:
S-503

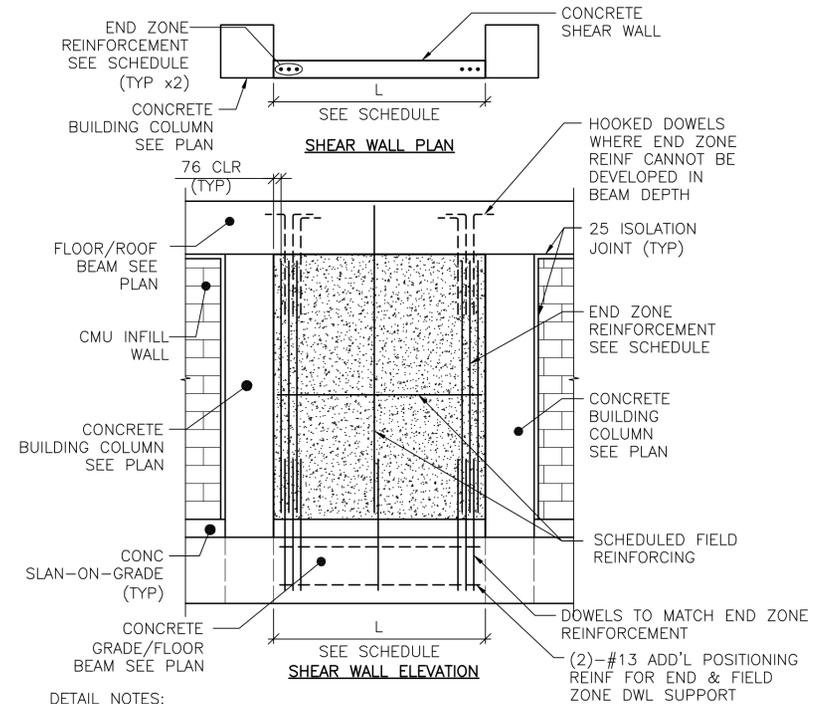


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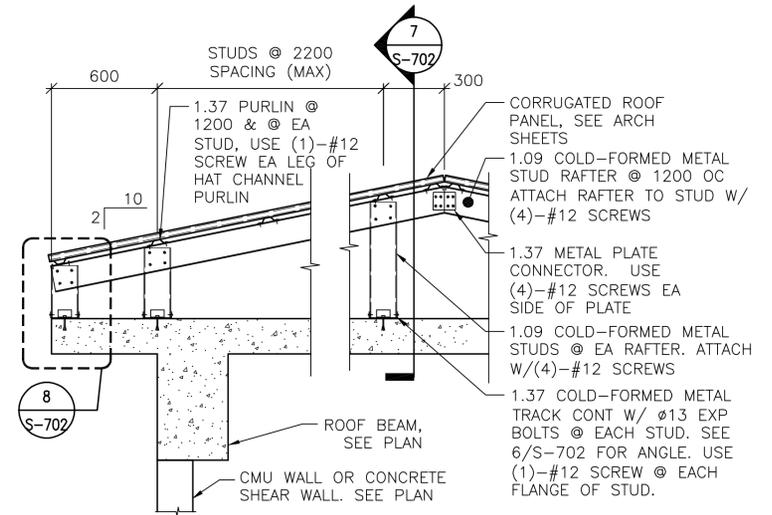
- DETAIL NOTES:**
1. FIELD REINFORCEMENT IN SHEAR WALL NOT COMPLETELY SHOWN FOR CLARITY.
 2. FIELD REINFORCEMENT CENTERED IN WALL.
 3. MINIMUM CONC CLEAR DISTANCE FOR END ZONE REINF = 76
 4. SEE CONC SHEAR WALL SCHEDULE ON SHEET S-601
 5. SEE ARCH DWGS FOR ISOLATION JOINT INFORMATION

TYPE "B" SHEAR WALL DETAIL
SCALE: NTS



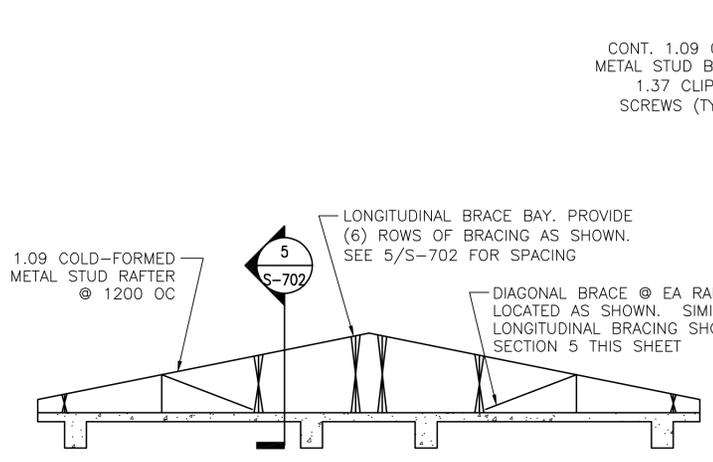
- DETAIL NOTES:**
1. FIELD REINFORCEMENT IN SHEAR WALL NOT COMPLETELY SHOWN FOR CLARITY.
 2. FIELD REINFORCEMENT CENTERED IN WALL.
 3. MINIMUM CONC CLEAR DISTANCE FOR END ZONE REINF = 76
 4. SEE CONC SHEAR WALL SCHEDULE ON SHEET S-601
 5. SEE ARCH DWGS FOR ISOLATION JOINT INFORMATION

TYPE "C" SHEAR WALL DETAIL
SCALE: NTS

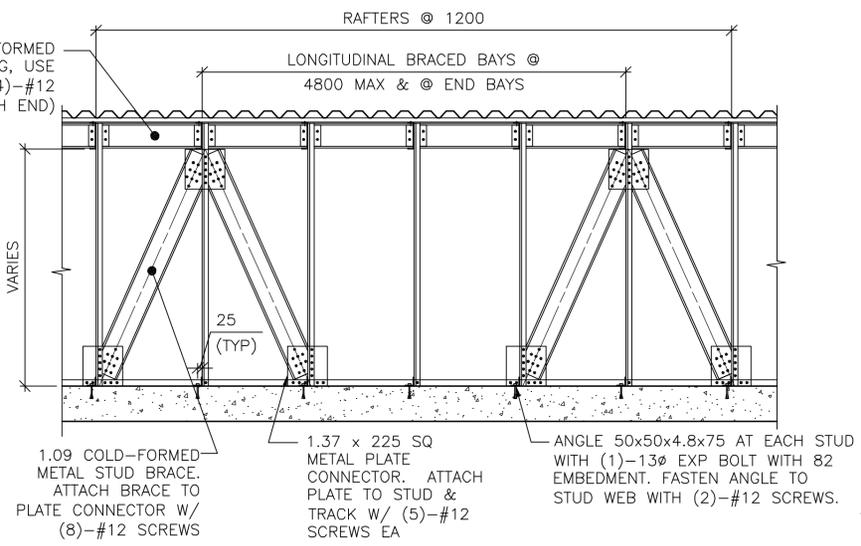


- DETAIL NOTES:**
1. ALL GABLE END VERTICAL STUDS SHALL BE ORIENTED 90° TO INTERIOR STUDS & SPACED @ 600 OC. GABLE END RAFTER SHALL BE 1.37 METAL TRACK SPANNING CONTINUOUSLY OVER GABLE END STUDS. INSET GIRTS AT GABLE END SHALL BE 1.09 COLD-FORMED METAL STUDS @ 1200 OC ATTACHED VIA 1.37 THICKNESS CLIP 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.

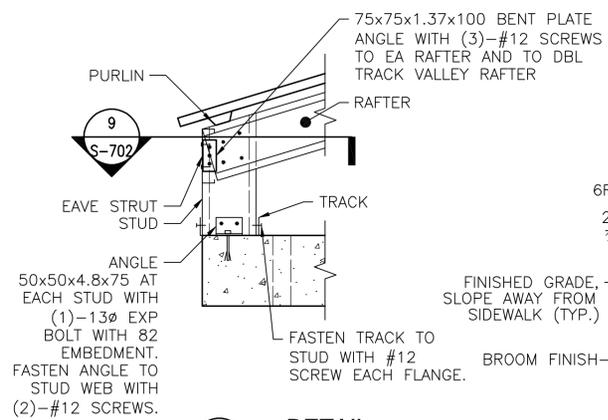
TYPICAL OVERBUILT ROOF FRAMING DETAIL
SCALE: NTS



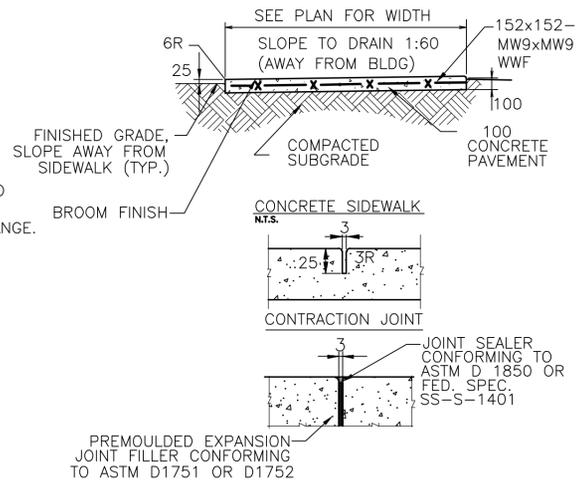
TYPICAL ROOF BRACE LAYOUT
SCALE: NTS



SECTION
SCALE: NTS



DETAIL
SCALE: NTS



TYPICAL CONCRETE SIDEWALK DETAILS
SCALE: NTS

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

APPROVED:
Chris White
A/E DESIGNER OF RECORD



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1				

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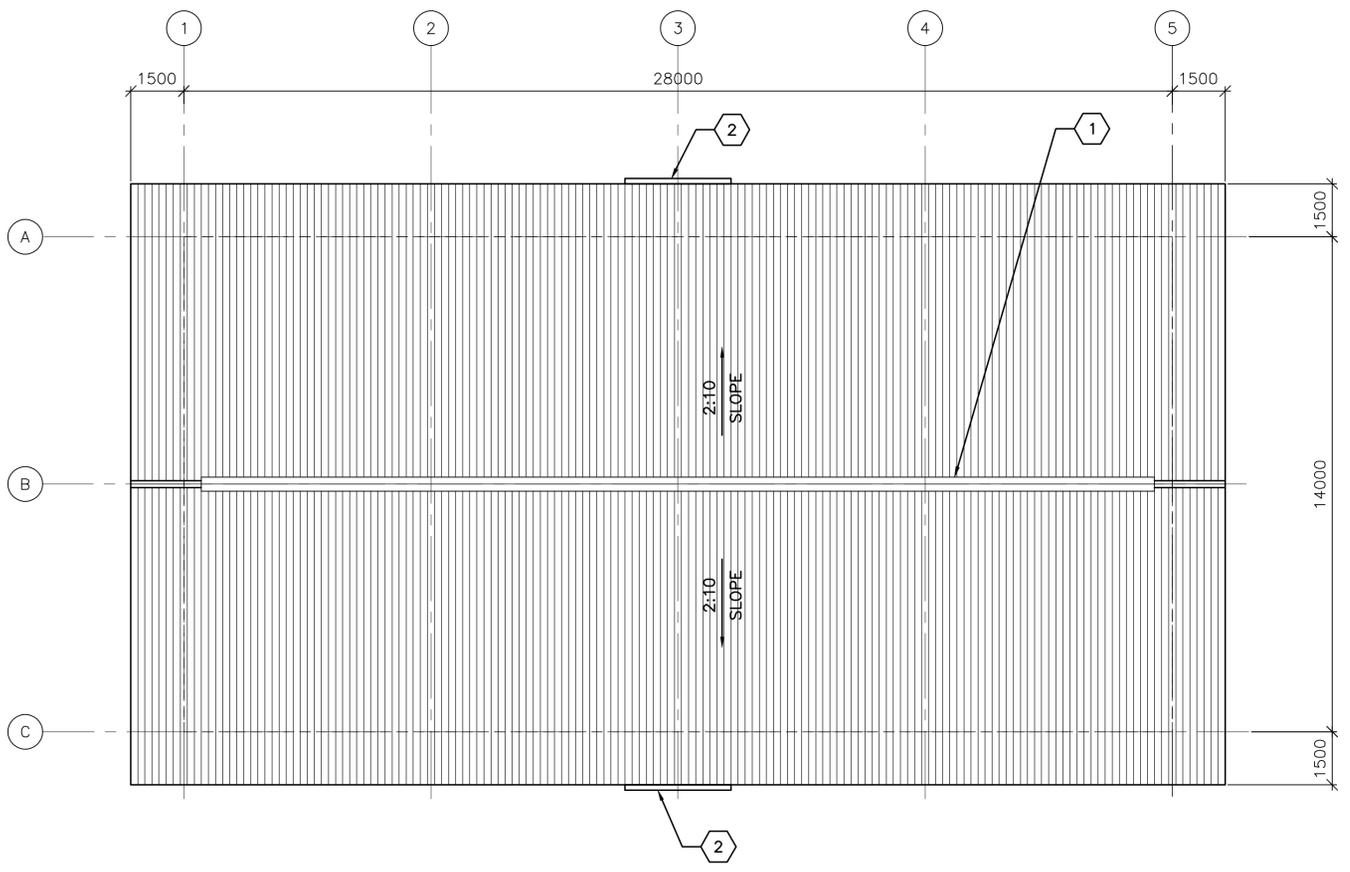
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STANDARD DESIGN

200 STUDENT CLASSROOM BUILDING
(8) 25 STUDENT CLASSROOMS

TYPICAL DETAILS

Sheet reference number: S-702



1 ROOF PLAN
A-102 SCALE: 1:100

GENERAL NOTES:

- A. THE APPROXIMATE LOCATION OF ROOF DEVICES AND PENETRATIONS ARE SHOWN ON THE ROOF PLAN FOR INFORMATION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR UNDERSTANDING THE ACTUAL LOCATION OF THESE AND ALL OTHER ITEMS PRIOR TO BEGINNING CONSTRUCTION. COORDINATE ALL ROOF PENETRATIONS WITH STRUCTURAL, MECHANICAL AND PLUMBING WORK.
- B. 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.

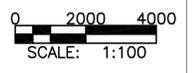
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Reviewed by:	LHM
Submitted by:	BAKER
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File name:	ANACRBA-102RP
Plot date:	2/23/2010
Plot scale:	x:k
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Date:	
Description:	

KEY NOTES:

- 1. CONTINUOUS METAL RIDGE VENT - SEE DETAIL 4/A-501.
- 2. METAL GUTTER, CENTER ON DOORS, 3000 MM - SEE DETAIL 1A/A-501.



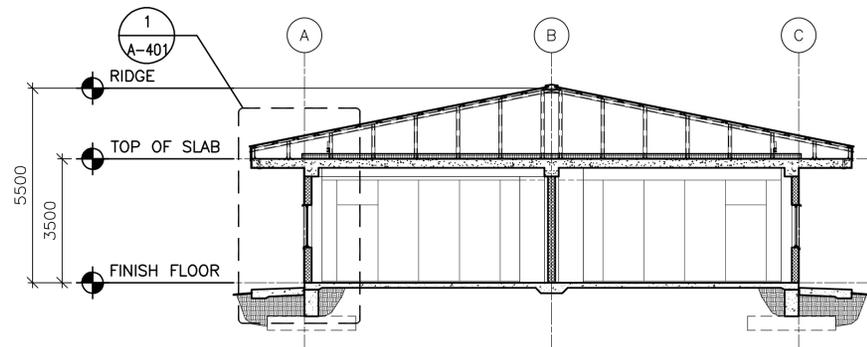
LINEAR DIMENSIONS SHOWN ARE IN MILLIMETERS (MM), UNLESS OTHERWISE NOTED
 SCALE: 1:100



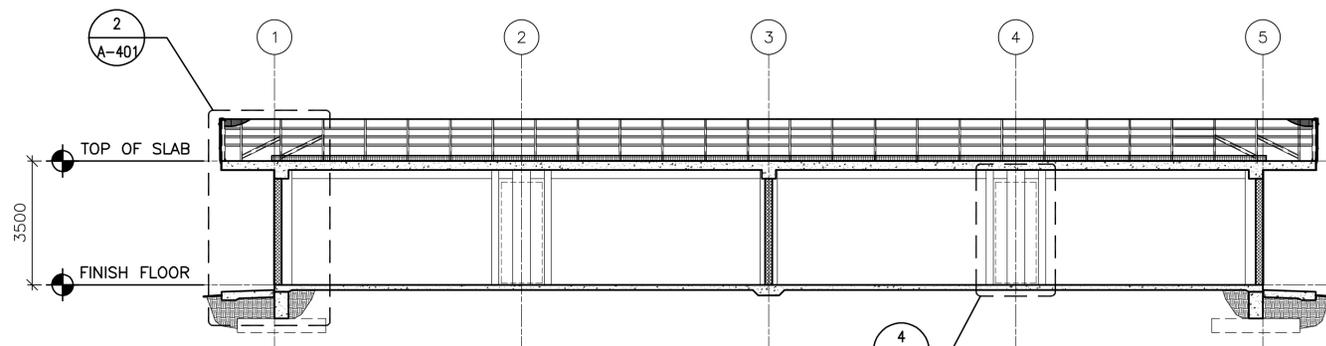
APPROVED: *[Signature]*
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AFGHAN NATIONAL ARMY
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 STANDARD DESIGN
 200 STUDENT CLASSROOM BUILDING
 (8) 25 STUDENT CLASSROOMS
 ROOF PLAN

Sheet reference number:
A-102



1 BUILDING SECTION
A-301 SCALE: 1:100



2 BUILDING SECTION
A-301 SCALE: 1:100

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



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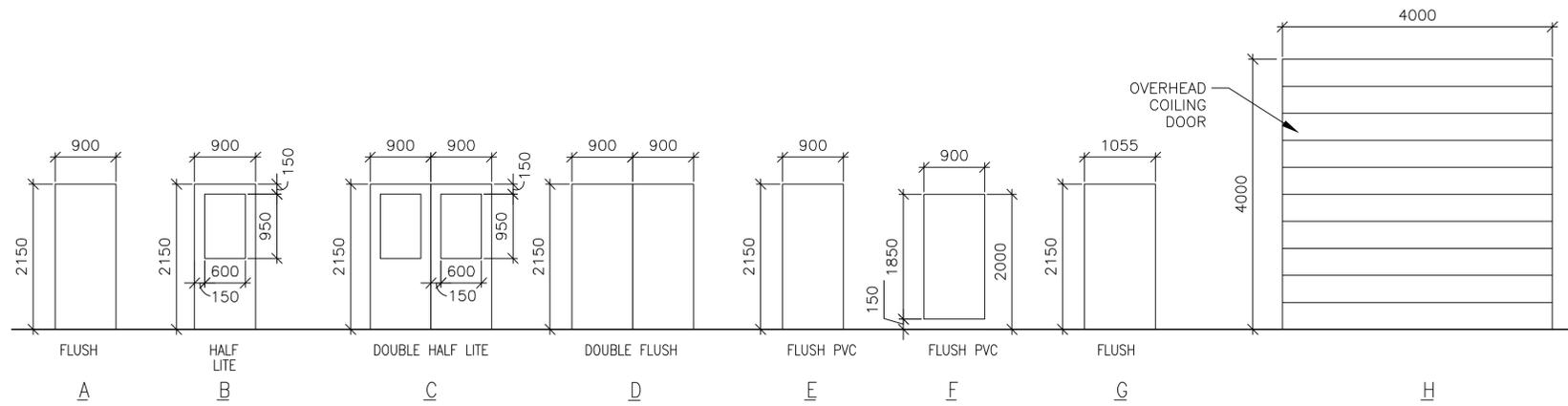
U.S. ARMY CORPS OF ENGINEERS
AFGHANISTAN ENGINEER DISTRICT
APO AE 96338
Michael Baker, Jr., Inc.
A Unit of Michael Baker Corporation
100 Ardsley Drive, PA 15108
www.mbakercorp.com

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

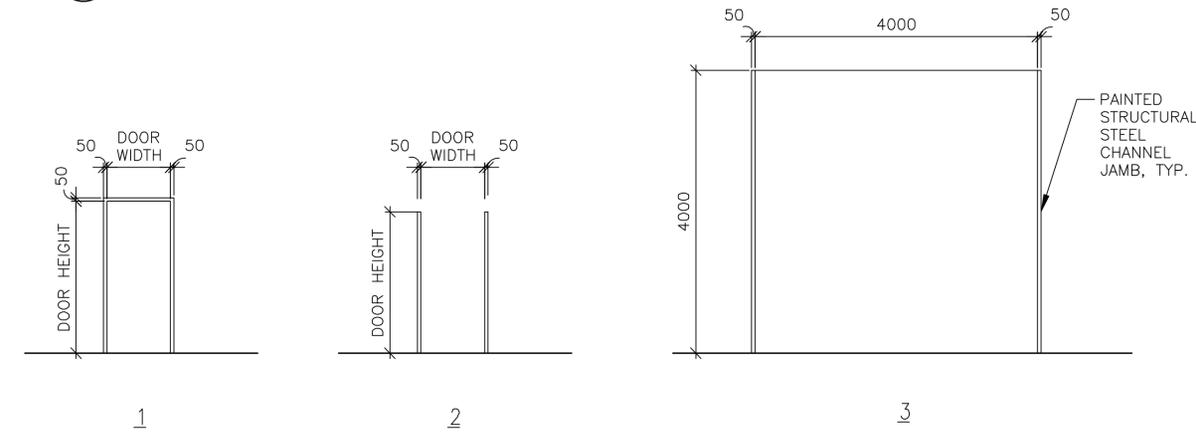
Date: 2/23/10
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Drawing code: ANACR25A-301BS
File name: ANACR25A-301BS
Plot date: 2/23/2010
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AFGHAN NATIONAL ARMY
REGIONAL MILITARY TRAINING CENTER
STANDARD DESIGN
200 STUDENT CLASSROOM BUILDING
(8) 25 STUDENT CLASSROOMS
BUILDING SECTIONS

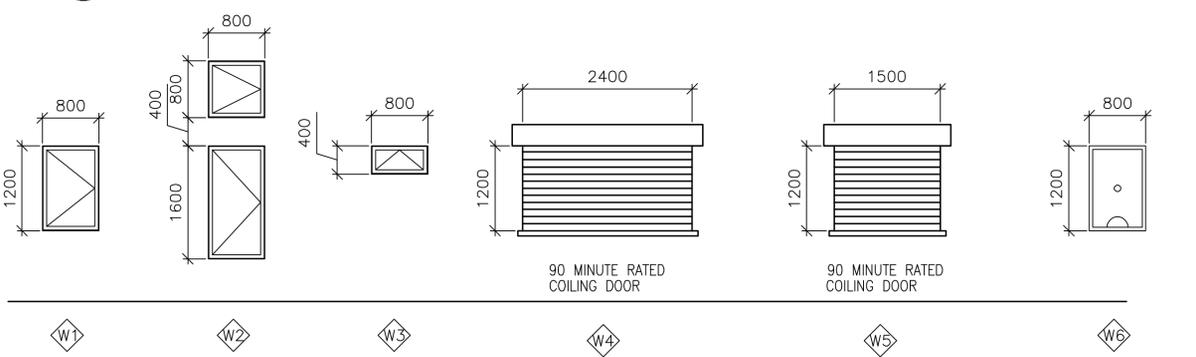
Sheet reference number:
A-301



1 DOOR TYPES
SCALE: 1:50



2 FRAME TYPES
SCALE: 1:50

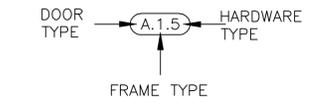


3 WINDOW TYPES
SCALE: 1:50

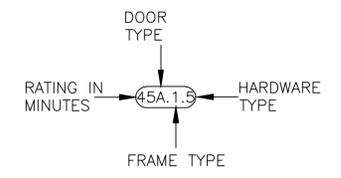
WINDOW TYPE NOTES:

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

4 DOOR TAG
SCALE: NTS



5 RATED DOOR TAG
SCALE: NTS



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.

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



US ARMY CORPS OF ENGINEERS
AFGHANISTAN ENGINEER DISTRICT

Rev.	Date	Description	Mark	Appr.

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Ckd by: NLJ
Reviewed by: LHM
Submitted by: BAKER

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APO AE 96338
Michael Baker Corp., Inc.
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100 Alside Drive, PA, 15108
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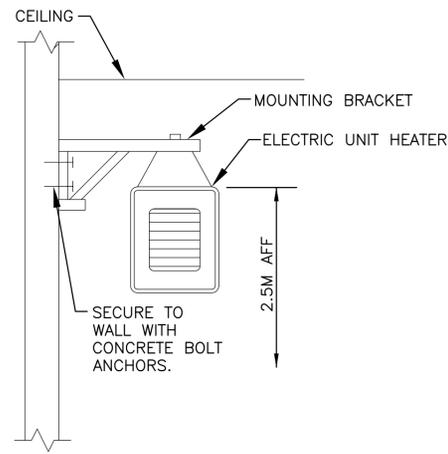
200 STUDENT CLASSROOM BUILDING
(B) 25 STUDENT CLASSROOMS

WINDOW AND DOOR SCHEDULES

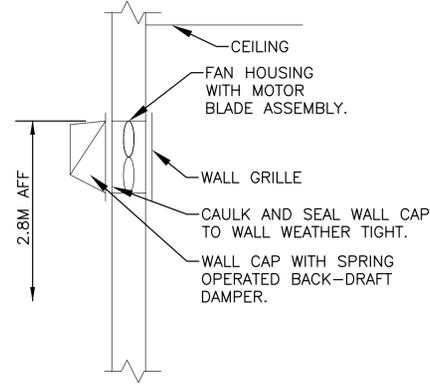
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Sheet reference number:
A-601



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



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

GENERAL NOTES:

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

SYMBOLS:

- (X) KEY NOTE
- (0.050) AIR VOLUME IN CUBIC METERS PER SECOND (CMS)
- UC DOOR UNDERCUT

ABBREVIATIONS:

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

KEY NOTE:

- UNIT HEATER SECURED FROM WALL. SEE DETAIL 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).

NO.	TYPE	FAN CMS	DRIVE	HP	SP mmH2O	ELECTRICAL DATA	SWITCH
EF-1	WALL	0.035	DIRECT	FRACT	9.5	220/1/50	W/ STAT
EF-2	WALL	0.035	DIRECT	FRACT	9.5	220/1/50	W/ STAT

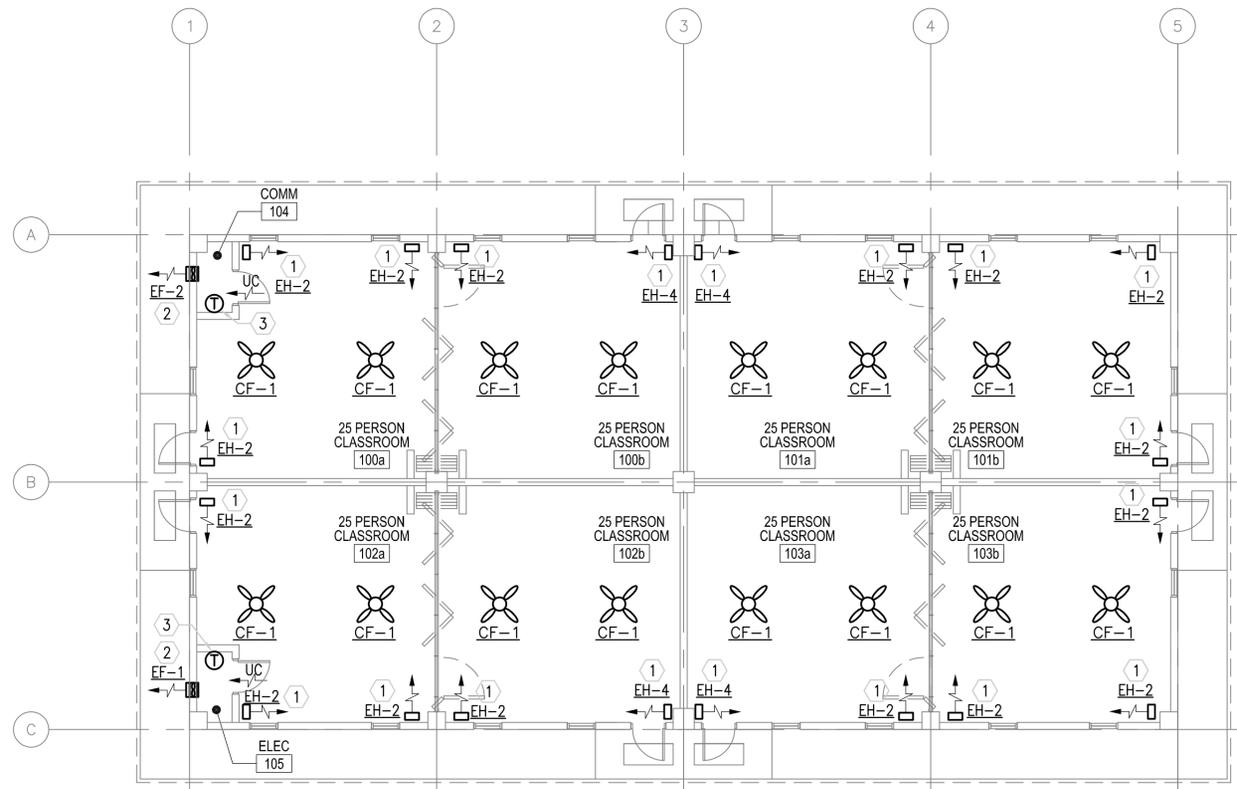
- NOTES:
1. FANS SHALL HAVE SPRING OPERATED BACK-DRAFT DAMPER.

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.

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

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



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

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

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Dwn by: JUN			

U.S. ARMY CORPS OF ENGINEERS
AFGHANISTAN ENGINEER DISTRICT
APO AE 96338
Michael Baker, Jr., Inc
A unit of Michael Baker Corporation
Arlide Business Park
Moon Township, PA 15108
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STANDARD DESIGN
200 STUDENT CLASSROOM BUILDING
(8) 25 STUDENT CLASSROOMS
HVAC PLANS, SCHEDULES AND DETAILS

Sheet reference number:
M-101

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. SEE WIRING DIAGRAM DETAIL 5, ON DRAWING #E-501.
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 DETAIL 6, ON DRAWING #E-501.



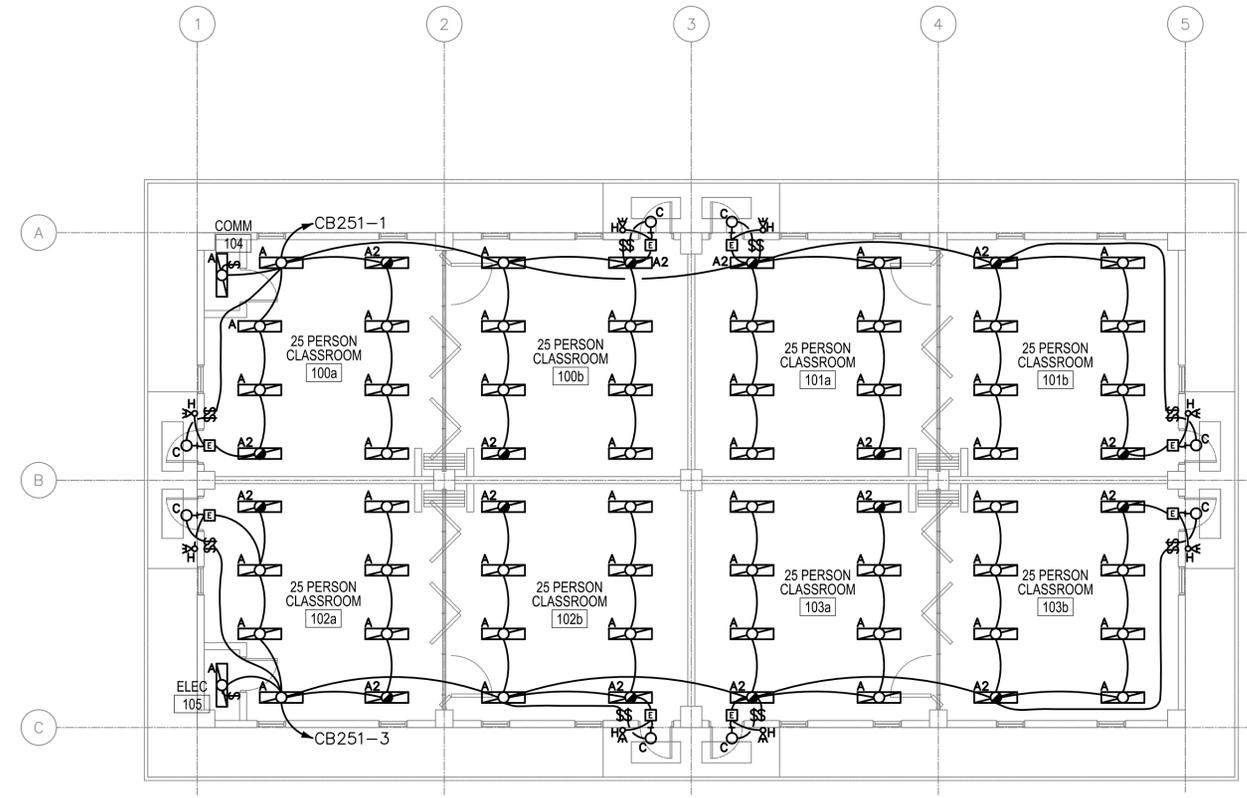
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AFGHANISTAN ENGINEER DISTRICT

Rev.	Date	Description
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AFGHAN NATIONAL ARMY
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STANDARD DESIGN
200 STUDENT CLASSROOM BUILDING
(8) 25 STUDENT CLASSROOMS
ELECTRICAL LIGHTING PLAN

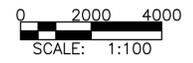
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E-101



200 STUDENT TOTAL
(8) 25-STUDENT CLASSROOMS - LIGHTING

1
E-101

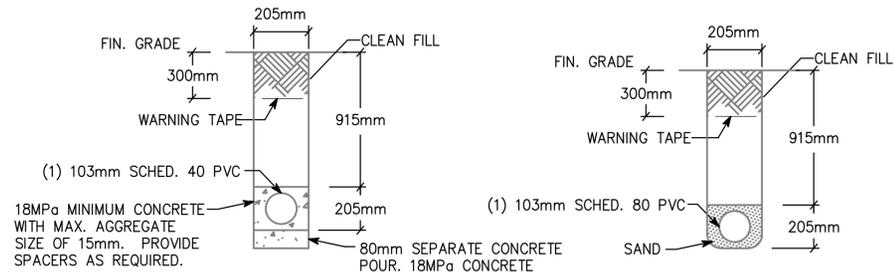
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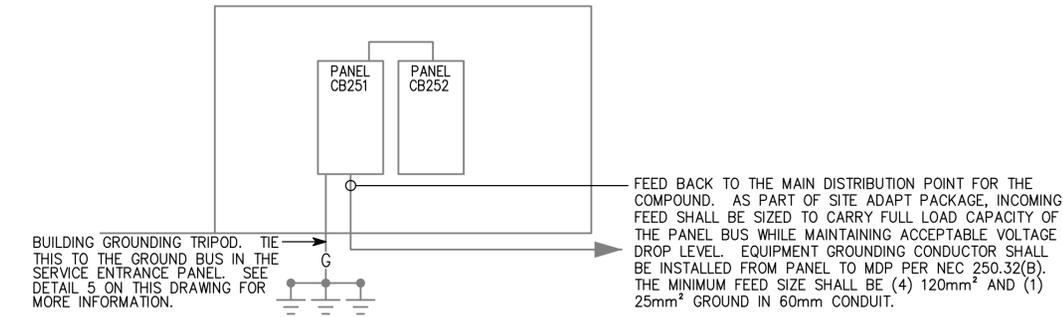
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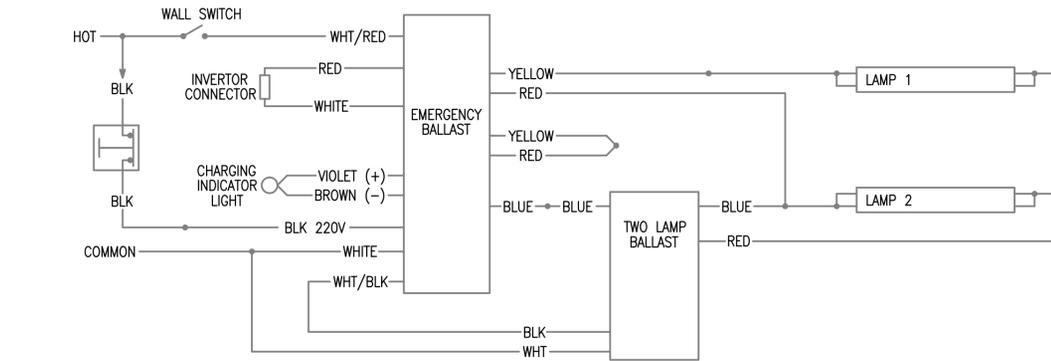
NOTE: PVC CONDUIT SHALL BE DIRECT BURIED SCHEDULE 80 FOR NO TRAFFIC AREAS AND CONCRETE-ENCASED SCHEDULE 40 FOR UNDER ROADWAYS OR TRAFFIC AREAS.

1 TYPICAL DUCT BANK DETAILS FOR CONDUIT IN SAND OR CONCRETE
E-501 SCALE: N.T.S.

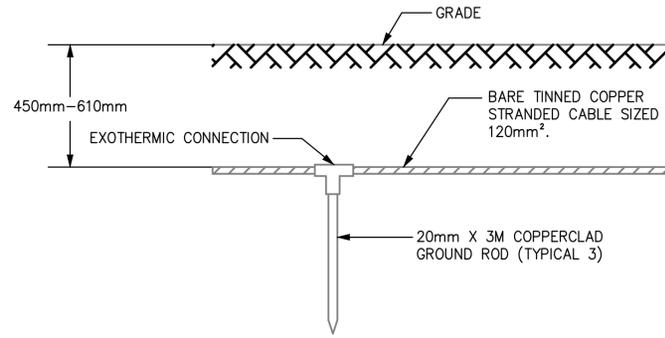


FEED BACK TO THE MAIN DISTRIBUTION POINT FOR THE COMPOUND. AS PART OF SITE ADAPT PACKAGE, INCOMING FEED SHALL BE SIZED TO CARRY FULL LOAD CAPACITY OF THE PANEL BUS WHILE MAINTAINING ACCEPTABLE VOLTAGE DROP LEVEL. EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED FROM PANEL TO MDP PER NEC 250.32(B). THE MINIMUM FEED SIZE SHALL BE (4) 120mm² AND (1) 25mm² GROUND IN 60mm CONDUIT.

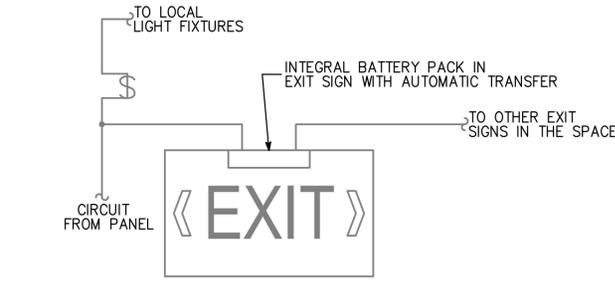
4 CB25 RISER DIAGRAM
E-501 SCALE: N.T.S.



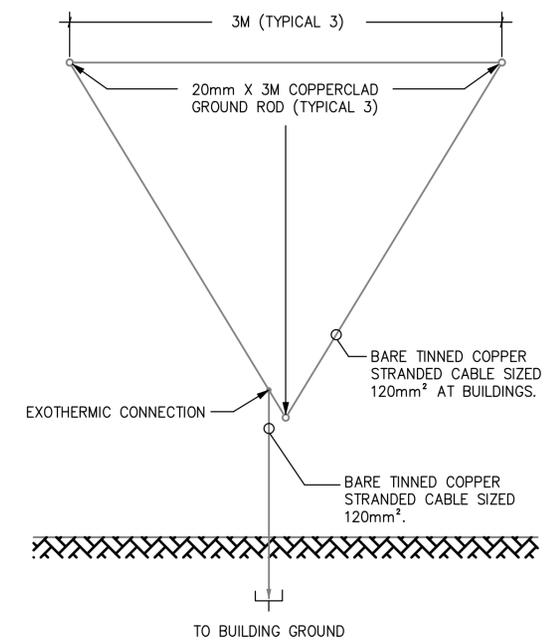
6 EMERGENCY FIXTURE WIRING DIAGRAM
E-501 SCALE: N.T.S.



2 GROUND TRIPOD SYSTEM DETAIL - ELEVATION
E-501 SCALE: N.T.S.



5 EXIT SIGN WIRING DIAGRAM
E-501 SCALE: N.T.S.



3 GROUND TRIPOD SYSTEM DETAIL - PLAN
E-501 SCALE: N.T.S.



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AFGHANISTAN ENGINEER DISTRICT

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		Reviewed by: JRG		
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200 STUDENT CLASSROOM BUILDING
(8) 25 STUDENT CLASSROOMS
ELECTRICAL DETAILS

Sheet reference number:
E-501

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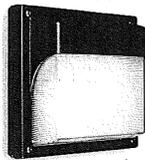
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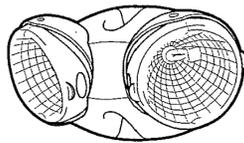
FIXTURE MARK 'A'



FIXTURE MARK 'C'



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 IREDESCENCE 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 IREDESCENCE 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	
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	



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AFGHAN NATIONAL ARMY
REGIONAL MILITARY TRAINING CENTER
STANDARD DESIGN

200 STUDENT CLASSROOM BUILDING
(8) 25 STUDENT CLASSROOMS
ELECTRICAL LIGHTING FIXTURE SCHEDULE

Sheet reference number:
E-601

APPROVED:

A/E DESIGNER OF RECORD

SEAL:

D

C

B

A

PANELBOARD CB251 SURFACE MOUNTED
 225 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	GND MM ²	CONDUIT MM	LOAD SERVED	LOAD-KVA			LOAD-KVA			CONDUIT MM	GND MM ²	WIRE MM ²	POLES	TRIP AMPS	Ckt. No.	
							A0	B0	C0	A0	B0	C0							
1	20	1	4.0	4.0	20	LIGHTING - RM 100A,B, 101A,B	2.7			0.4			20	4.0	4.0	1	20	2	
3	20	1	4.0	4.0	20	LIGHTING - RM 102A,B, 103A,B		2.7		0.4			20	4.0	4.0	1	20	4	
5	20	1	4.0	4.0	20	CEILING FANS - RM 100A,B			1.6							1	20	6	
7	20	1	4.0	4.0	20	CEILING FANS - RM 101A,B	1.6			0.6			20	4.0	4.0	1	20	8	
9	20	1	4.0	4.0	20	CEILING FANS - RM 102A,B		1.6		0.6			20	4.0	4.0	1	20	10	
11	20	1	4.0	4.0	20	CEILING FANS - RM 103A,B			1.6		0.6		20	4.0	4.0	1	20	12	
13	20	1	4.0	4.0	20	EXHAUST FANS #1,2 - RM 104,105	0.5			0.6			20	4.0	4.0	1	20	14	
15	20	2	4.0	4.0	20	ELECTRIC HEAT #2 - RM 100A		2.6		0.6			20	4.0	4.0	1	20	16	
17	20	2	4.0	4.0	20	ELECTRIC HEAT #2 - RM 100A			2.6		0.6		20	4.0	4.0	1	20	18	
19	20	2	4.0	4.0	20	ELEC. HEAT #2 - RM 100A,102A	2.6			0.6			20	4.0	4.0	1	20	20	
21	20	2	4.0	4.0	20	ELEC. HEAT #2 - RM 100A,102A		2.6		0.6			20	4.0	4.0	1	20	22	
23	20	2	4.0	4.0	20	ELECTRIC HEAT #2 - RM 102A			2.6		0.6		20	4.0	4.0	1	20	24	
25	20	2	4.0	4.0	20	ELECTRIC HEAT #2 - RM 102A	2.6			0.6			20	4.0	4.0	1	20	26	
27	20	2	4.0	4.0	20	ELEC. HEAT #2 - RM 100B,102B		2.6		0.6			20	4.0	4.0	1	20	28	
29	20	2	4.0	4.0	20	ELEC. HEAT #2 - RM 100B,102B			2.6		0.6		20	4.0	4.0	1	20	30	
31	20	2	4.0	4.0	20	ELECTRIC HEAT #4 - RM 102B	2.0			0.6			20	4.0	4.0	1	20	32	
33	20	2	4.0	4.0	20	ELECTRIC HEAT #4 - RM 102B		2.0		0.6			20	4.0	4.0	1	20	34	
35	20	2	4.0	4.0	20	ELECTRIC HEAT #4 - RM 103A			2.0		0.6		20	4.0	4.0	1	20	36	
37	20	2	4.0	4.0	20	ELECTRIC HEAT #4 - RM 103A	2.0			12.2								38	
39	20	1	4.0	4.0	20	RECEPTACLES - EXTERIOR		0.4			9.8							40	
41	20	1	4.0	4.0	20	RECEPTACLES - EXTERIOR			0.4		8.2							42	
							14.0	14.5	13.4	15.6	13.2	11.2	TOTAL CONN. LOAD PER PHASE (KVA): A0 29.6 B0 27.7 C0 24.6						
TOTAL CONN. LOAD							81.9	KVA.	70	% DEMAND = ESTIMATED DEMAND LOAD	57.33								

* MAIN BREAKER SHALL BE 3P EARTH GROUND TYPE

PANELBOARD CB252 SURFACE MOUNTED
 225 AMP. MAIN LUGS (OR) 100 AMP. MAIN BREAKER W/ 100 AMP. TRIP
 CIRCUIT BREAKER TYPE 380/220 VOLTS 3 PHASE 4 WIRE 50 HZ 100 AMP. BUS

Ckt. No.	TRIP AMPS	WIRE NO.	WIRE MM ²	GND MM ²	CONDUIT MM	LOAD SERVED	LOAD-KVA			LOAD-KVA			CONDUIT MM	GND MM ²	WIRE MM ²	POLES	TRIP AMPS	Ckt. No.	
							A0	B0	C0	A0	B0	C0							
1	20	2	4.0	4.0	20	ELECTRIC HEAT #4 - RM 100B	2.0			2.0			20	4.0	4.0	2	20	2	
3	20	2	4.0	4.0	20	ELECTRIC HEAT #4 - RM 101A		2.0		2.0			20	4.0	4.0	2	20	4	
5	20	2	4.0	4.0	20	ELEC. HEAT #2 - RM 101A,103A			2.6		2.6		20	4.0	4.0	2	20	6	
7	20	2	4.0	4.0	20	ELEC. HEAT #2 - RM 101B,103B	2.6			2.6			20	4.0	4.0	2	20	8	
9	20	2	4.0	4.0	20	ELECTRIC HEAT #2 - RM 101B		2.6		0.6			20	4.0	4.0	1	20	10	
11	20	2	4.0	4.0	20	ELECTRIC HEAT #2 - RM 101B			2.6		0.4		20	4.0	4.0	1	20	12	
13	20	2	4.0	4.0	20	ELECTRIC HEAT #2 - RM 103B	2.6			0.4			20	4.0	4.0	1	20	14	
15	20	2	4.0	4.0	20	ELECTRIC HEAT #2 - RM 103B		2.6								1	20	16	
17	20	1				SPARE										1	20	18	
19	20	1				SPARE										1	20	20	
21	20	1				SPARE										1	20	22	
23	20	1				SPARE										1	20	24	
25	20	1				SPARE										1	20	26	
27	20	1				SPARE										1	20	28	
29	20	1				SPARE										1	20	30	
31	20	1				SPARE										1	20	32	
33	20	1				SPARE										1	20	34	
35	20	1				SPARE										1	20	36	
37	20	1				SPARE										1	20	38	
39	20	1				SPARE										1	20	40	
41	20	1				SPARE										1	20	42	
							7.2	7.2	5.2	5.0	2.6	3.0	TOTAL CONN. LOAD PER PHASE (KVA): A0 12.2 B0 9.8 C0 8.2						
TOTAL CONN. LOAD							30.2	KVA.	70	% DEMAND = ESTIMATED DEMAND LOAD	21.14								



Date	Rev.	Description
	0	

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

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 APO AE 96338

Michael Baker Jr., Inc
 A unit of Michael Baker Corporation
 Airside Business Park
 Moon Township, PA 15108
 www.mbakercorp.com

AFGHAN NATIONAL ARMY
 REGIONAL MILITARY TRAINING CENTER
 STANDARD DESIGN

200 STUDENT CLASSROOM BUILDING
 (8) 25 STUDENT CLASSROOMS
 ELECTRICAL PANEL SCHEDULES

APPROVED:

A/E DESIGNER OF RECORD

SEAL:

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