











### 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/m<sup>3</sup>) 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)	40
#16 BAR & SMALLER	40
#19 THRU #36 BAR	50
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

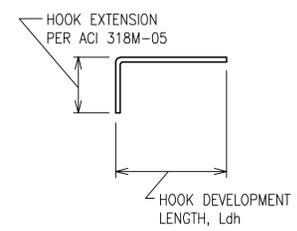
### CONCRETE SHEAR WALL SCHEDULE

MARK	TYPE	WALL LENGTH (L) (mm)	WALL REINFORCEMENT		REMARKS
			END ZONE	FIELD	
SW1	E	5000	(2)-#16 @ 75mm OC	#13 @ 250mm 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.

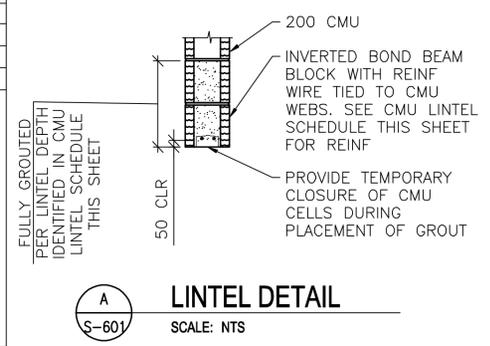
### WALL FOOTING SCHEDULE

MARK	FOOTING SIZE (mm)			FOOTING REINFORCING		REMARKS
	LENGTH	WIDTH	THICKNESS	LONGITUDINAL	TRANSVERSE	
WF1	---	900	350	(6)-#16	#16 @ 450mm	-----
WF2	---	900	350	(4)-#16	#16 @ 450mm	-----

### 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

- NOTES:**
- 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. CONCRETE FOR CAST-IN-PLACE BEAMS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 28 MPa AT 28 DAYS.
  - CONTRACTOR SHALL SUBMIT FOR APPROVAL SHOP DRAWINGS AND SCHEDULES SHOWING SIZE, SPAN, REINFORCEMENT, DETAILS, LOCATIONS, ETC.



Date	Appr.	Mark	Description

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Submitted by: BAKER

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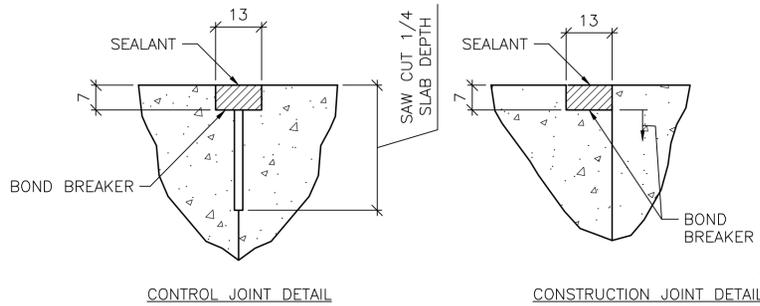
SCHEDULES

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

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

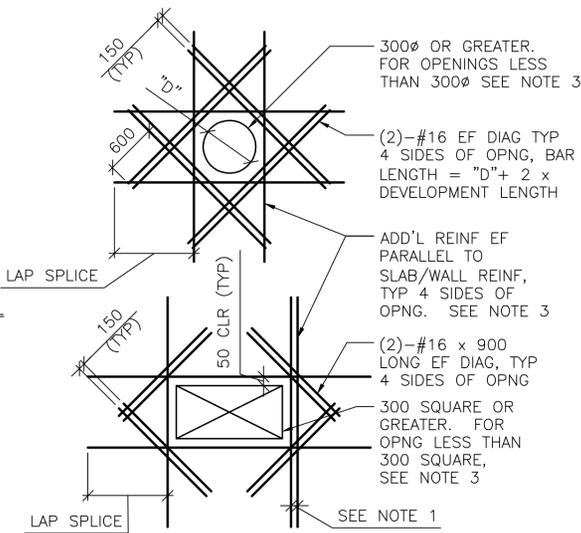
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Sheet reference number:  
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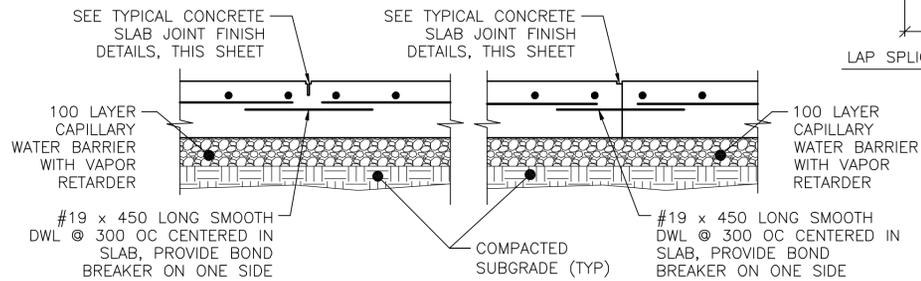


**TYPICAL CONCRETE SLAB JOINT FINISH DETAILS**

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S-701  
SCALE: NTS

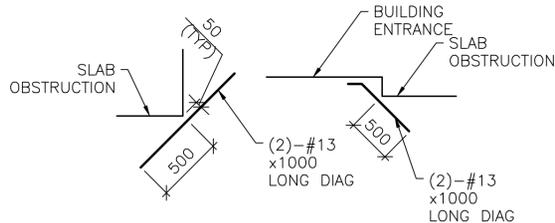


**SHEAR WALL/SLAB OPENINGS**

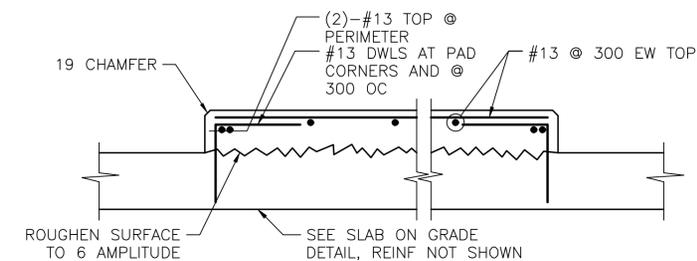


**TYPICAL SLAB ON GRADE JOINT DETAIL**

2  
S-701  
SCALE: NTS



**RE-ENTRANT CORNERS**



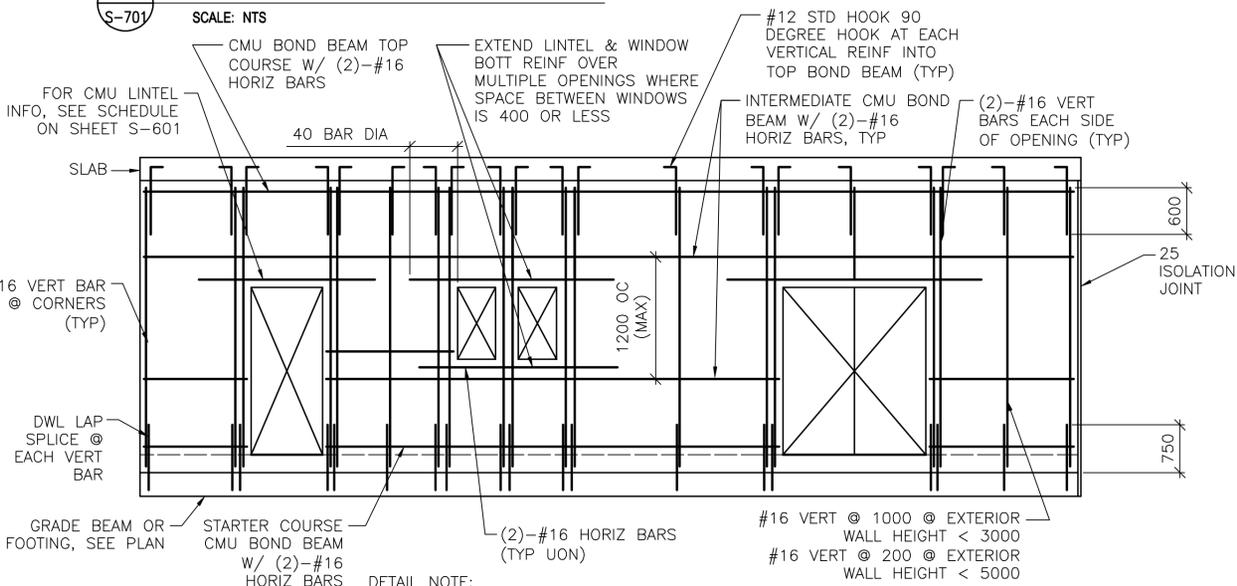
**INTERIOR EQUIPMENT PAD DETAIL**

3  
S-701  
SCALE: NTS

- DETAIL NOTES:**
- WHERE MORE THAN ONE ADDITIONAL BAR IS REQUIRED PARALLEL TO THE EXISTING SLAB/WALL REINFORCING THE ADDITIONAL REINFORCING BARS SHALL BE SPACED AT 100 ON CENTER.
  - ADDITIONAL REINFORCING PARALLEL TO THE SLAB/WALL REINFORCING SHALL BE #16 BARS THAT PROVIDE A STEEL AREA ON EACH SIDE OF THE OPENING EQUAL TO 1/2 THE AREA OF THE REINFORCING CUT BY THE OPENING.
  - FOR OPENINGS WITH SIDES OR DIAMETERS LESS THAN 300 SPREAD THE SLAB/WALL REINFORCING TO CLEAR THE OPENING.

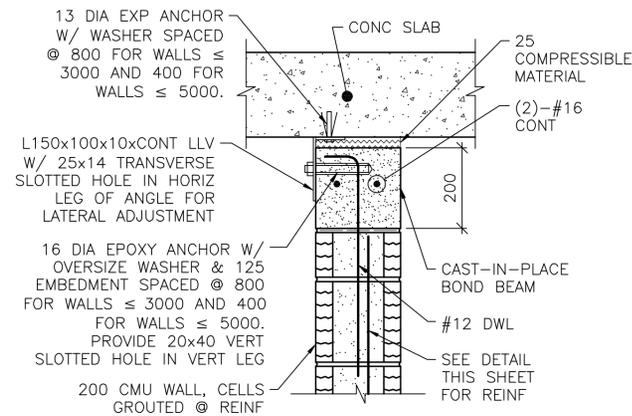
**ADD'L CONCRETE REINFORCEMENT DETAILS**

4  
S-701  
SCALE: NTS



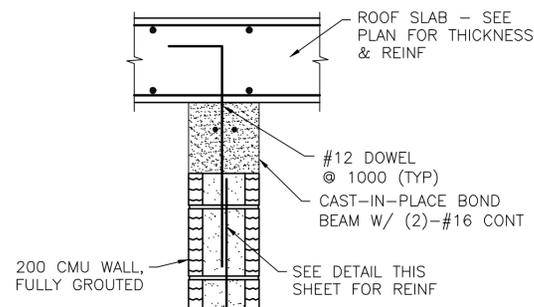
- DETAIL NOTE:**
- CENTER VERT REINF IN WALL.
  - GROUT ALL CMU CELLS.
  - REFERENCE ARCH DWGS FOR JOINT INFORMATION
  - DOWELS BETWEEN TOP BOND BEAM AND BEAM/SLAB ABOVE (INCLUDING EMBEDDED PIPE SLEEVE) NOT SHOWN FOR CLARITY. SEE SPECIFIC S-500 SERIES DWGS FOR INFO.
  - FOR INFORMATION ON ALTERNATE CAST-IN-PLACE WALL BOND BEAMS, REFERENCE ALTERNATE TOP OF CMU WALL BRACING DETAILS THIS SHEET.

7  
S-701  
SCALE: NTS



**INTERIOR WALL**

- NOTE:**
- AT ANCHOR BOLTS, ADD AN ADDITIONAL 25 COMPRESSIBLE MATERIAL BELOW EXP ANCHOR HEAD.

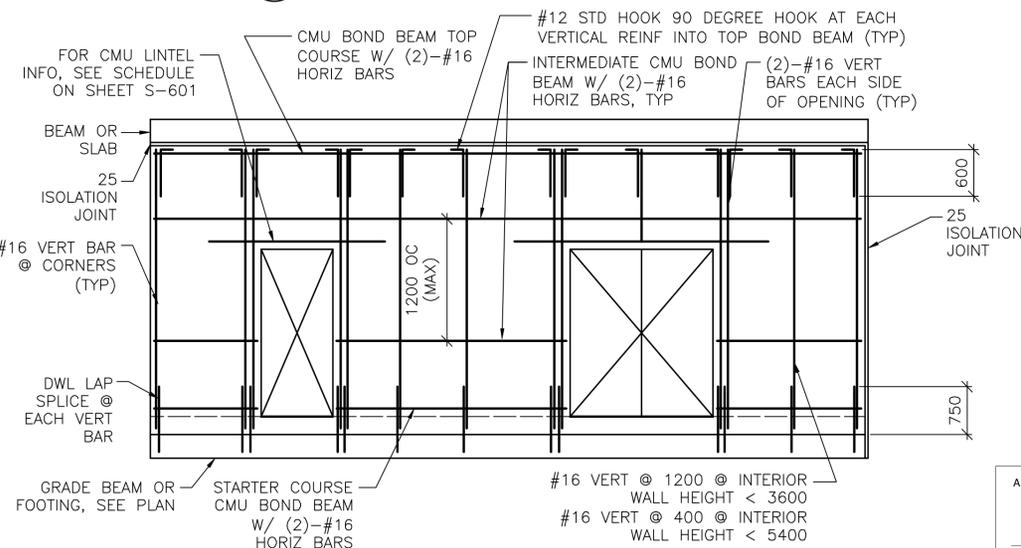


**EXTERIOR WALL**

- NOTES:**
- THIS DETAIL IS AN ALTERNATE TOP OF WALL ANCHORAGE DETAIL TO BE USED AT THE CONTRACTOR'S OPTION IN LIEU OF DETAILS SHOWN ON S-400 & S-500 DRAWINGS.
  - CAST-IN-PLACE BOND BEAM SHOWN AT TOP OF WALL IS ALSO APPLICABLE FOR INTERMEDIATE AND STARTER COURSE BOND BEAMS WITHIN WALL.

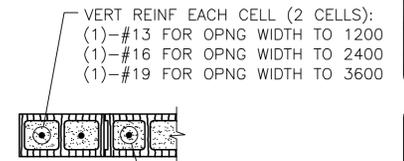
**ALTERNATE TOP OF CMU WALL BRACING DETAILS**

5  
S-701  
SCALE: NTS

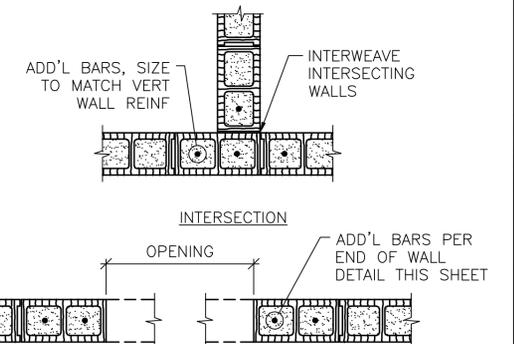


- DETAIL NOTE:**
- CENTER VERT REINF IN WALL.
  - GROUT ALL CMU CELLS.
  - REFERENCE ARCH DWGS FOR JOINT INFORMATION
  - DOWELS BETWEEN TOP BOND BEAM AND BEAM/SLAB ABOVE (INCLUDING EMBEDDED PIPE SLEEVE) NOT SHOWN FOR CLARITY. SEE SPECIFIC S-500 SERIES DWGS FOR INFO.
  - FOR INFORMATION ON ALTERNATE CAST-IN-PLACE WALL BOND BEAMS, REFERENCE ALTERNATE TOP OF CMU WALL BRACING DETAILS THIS SHEET.

8  
S-701  
SCALE: NTS



**END OF WALL**



**MASONRY OPENING W/ LINTEL**

- NOTES:**
- OPENING WIDTH SHALL NOT EXCEED 3600 FOR THIS TYPE OF JAMB.
  - ALL CELLS FULLY GROUTED AT EXTERIOR WALLS. AT INTERIOR WALLS, ONLY GROUT CELLS CONTAINING REINF.

6  
S-701  
SCALE: NTS

**TYP CMU DETAILS**

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

APPROVED:

*Chris White*

A/E DESIGNER OF RECORD

SEAL:



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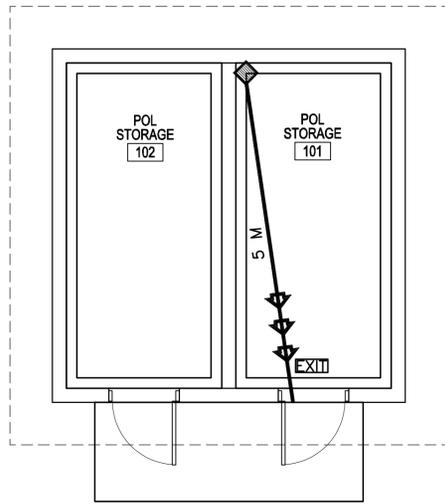
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TYPICAL DETAILS

Sheet reference number:  
**S-701**





1 LIFE SAFETY PLAN  
A-001 SCALE: 1:50

**CODE ANALYSIS:**

- REFERENCES:**  
2006 INTERNATIONAL BUILDING CODE (2006 IBC)  
2006 LIFE SAFETY CODE (2006 NFPA 101)
- IBC OCCUPANCY CLASSIFICATION:**  
GROUP H-3  
(STORAGE, HIGH HAZARD NFPA 101 6.1.13 & 6.2.2 AND CHAPTER 42)
- TYPE OF CONSTRUCTION (IBC):** TYPE II-B (UNPROTECTED/NONSPRINKLERED)
- IBC TABLE 503: ALLOWABLE HEIGHT AND BUILDING AREAS:**  
GROUP H-3  
ALLOWABLE AREA: 1300 SM  
ALLOWABLE HEIGHT: 2 STORIES (16 M)  
GROUP H-3  
PROPOSED AREA: 25 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 H-3 OCCUPANCY/NONSPRINKLERED**

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

- NFPA 101 TABLE 7.3.1.2 - OCCUPANT LOAD**  
STORAGE = N/A  
NFPA 101 42.1.7: USE THE PROBABLE POPULATION: 1
- NFPA 101 TABLE 7.3.3.1 - EGRESS CAPACITY**  
STORAGE = 5 MM PER OCCUPANT  
REQUIRED: 5 MM (1 OCCUPANTS x 5 MM PER OCCUPANT)  
PROPOSED EGRESS CAPACITY: 900 MM: (1) 900 MM DOORS
- NFPA 101 PARAGRAPH 42.2.6 AND TABLE 42.2.6 - EXIT ACCESS TRAVEL DISTANCE**  
REQUIRED: 61 METERS  
PROPOSED: 5 METERS
- NFPA 101 PARAGRAPH 42.3.6 - CORRIDORS**  
CORRIDORS ARE NOT REQUIRED AS DOORS EXIT DIRECTLY TO OUTSIDE
- NFPA 101 PARAGRAPH 42.2.4.1(2) AND 7.4.1.1 - MINIMUM NUMBER OF EXITS**  
REQUIRED: 1 MINIMUM  
PROPOSED: 1 EXIT
- NFPA 101 PARAGRAPH 42.3.2 - PROTECTION FROM HAZARDS**  
NO REQUIREMENTS

**LEGEND:**

- DENOTES PATHS OF EXIT TRAVEL
- DENOTES DOOR AS AN EMERGENCY EXIT
- DENOTES STARTING POINT FOR TRAVEL DISTANCE
- DENOTES FIRE EXTINGUISHER LOCATIONS

APPROVED:  
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LIFE SAFETY PLAN

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A-001



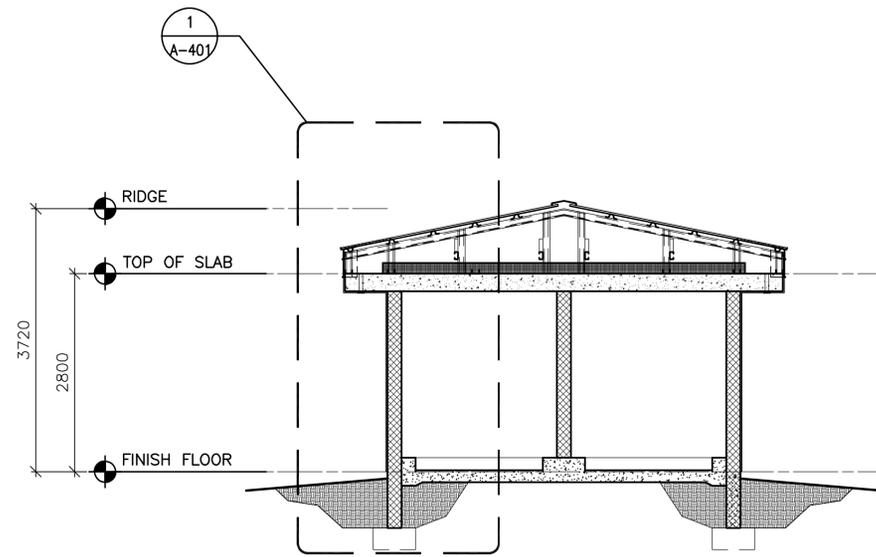


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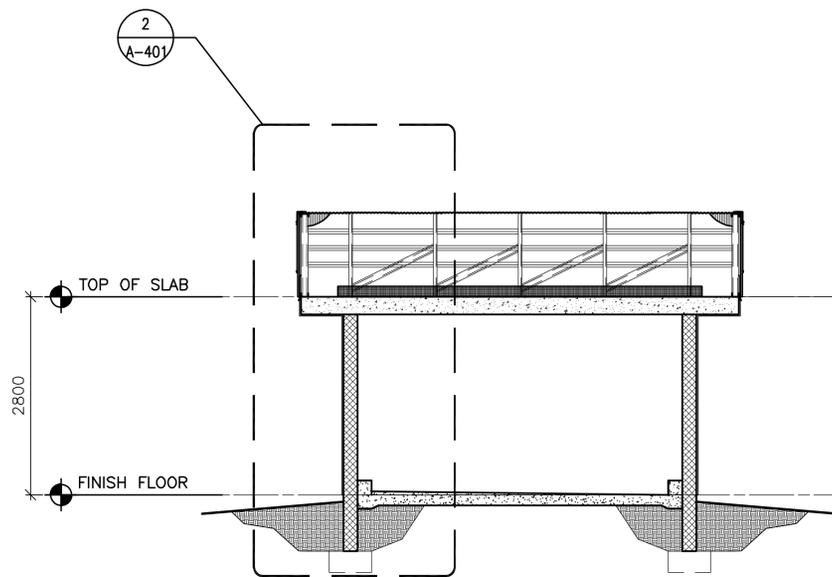
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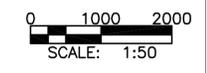


1 BUILDING SECTION  
A-301 SCALE: 1:50



2 BUILDING SECTION  
A-301 SCALE: 1:50

LINEAR DIMENSIONS SHOWN  
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BUILDING SECTIONS

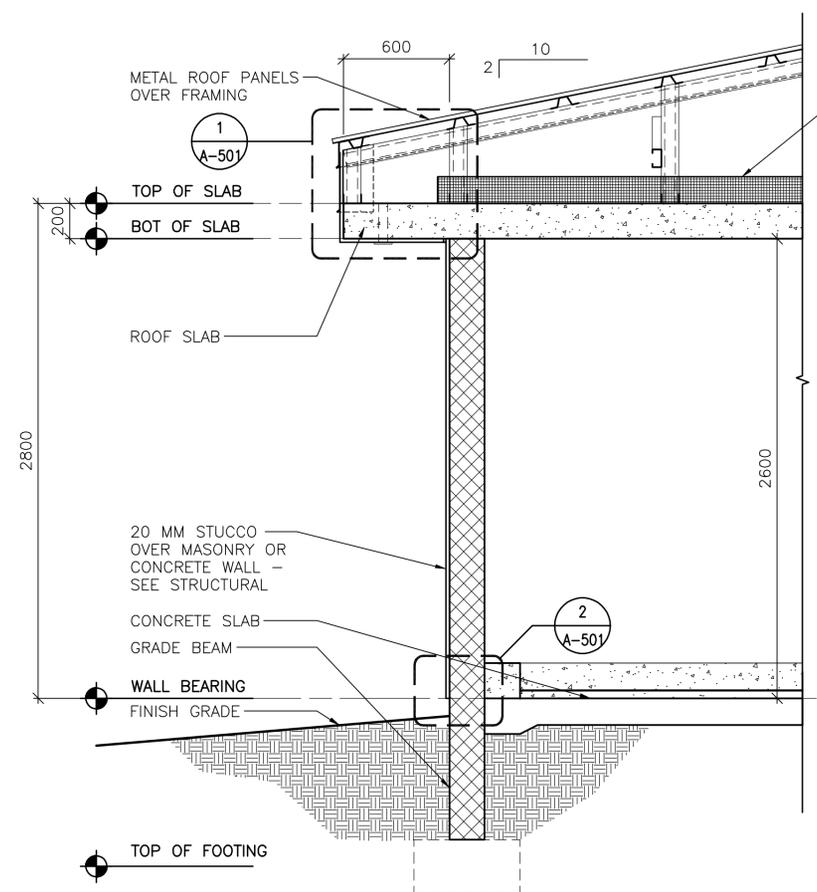
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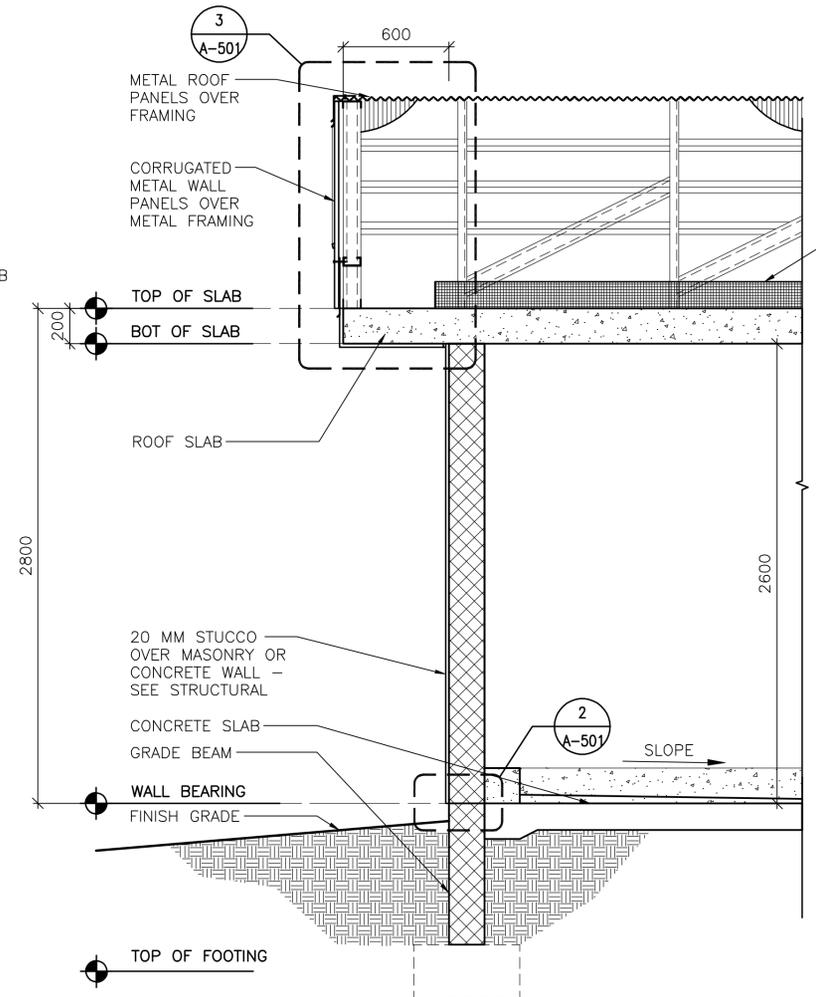
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Sheet reference number:  
**A-401**



**1**  
A-401  
**TYPICAL WALL SECTION**  
SCALE: 1:20



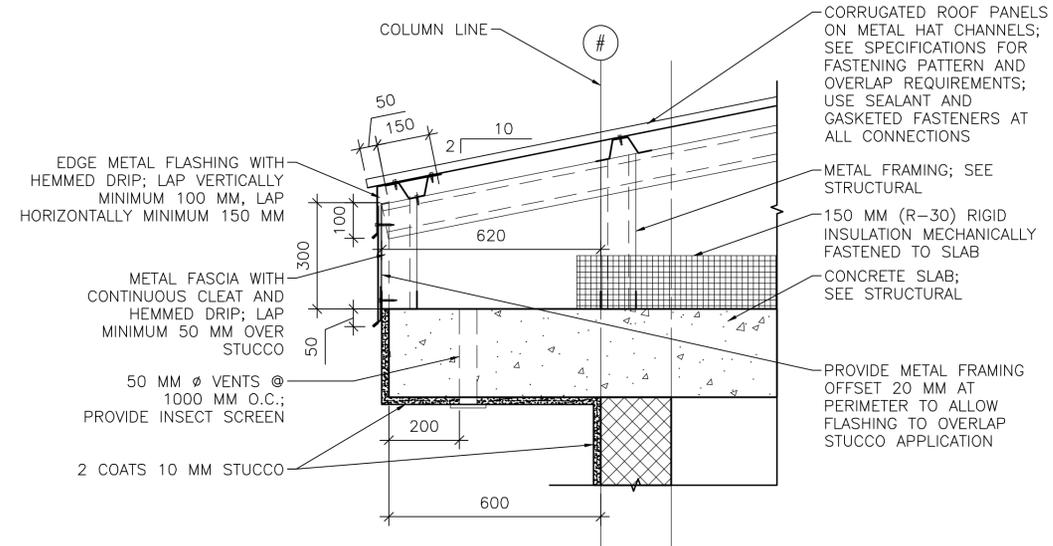
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A-401  
**TYPICAL (GABLE) WALL SECTION**  
SCALE: 1:20

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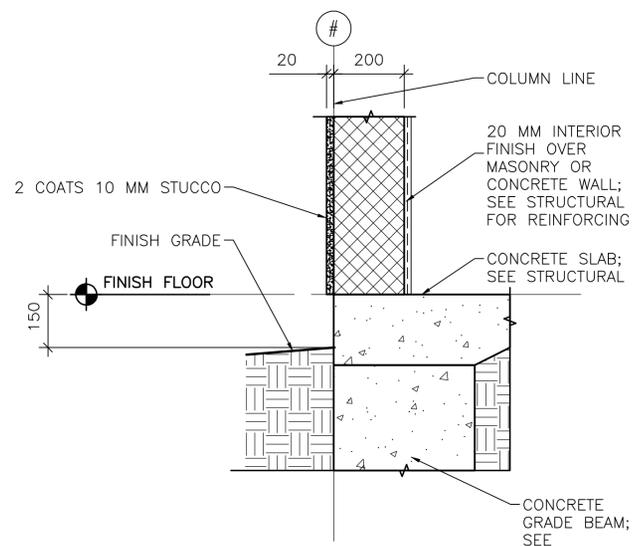


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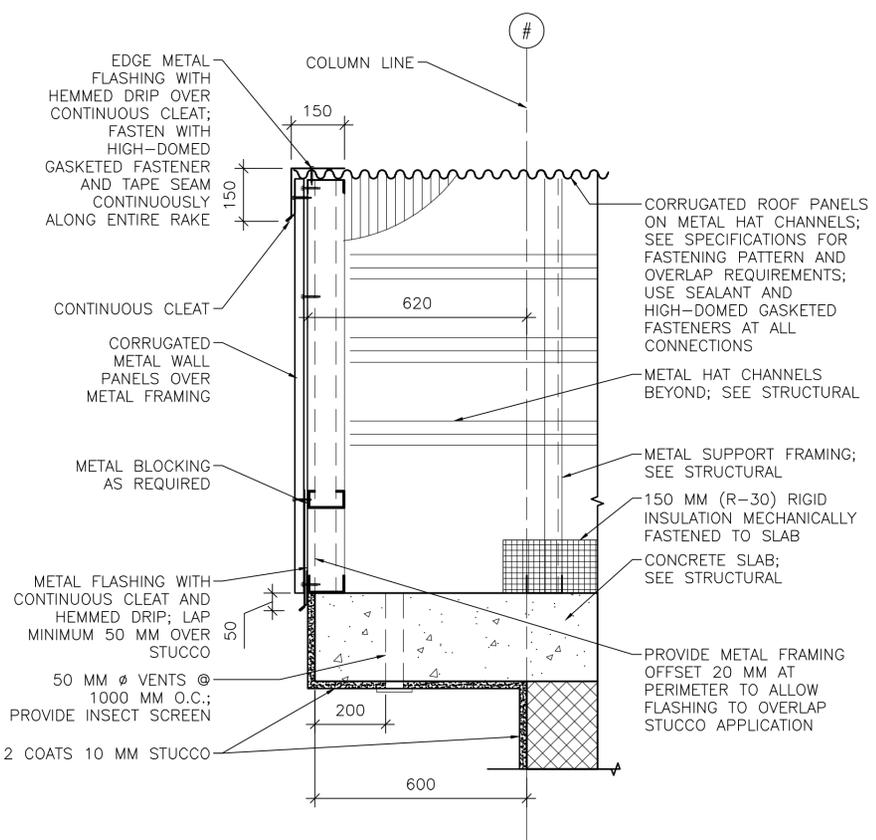




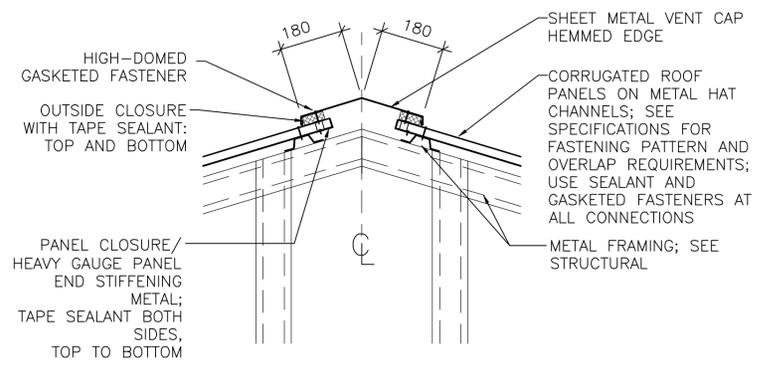
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SCALE: 1:10



2 STUCCO BASE DETAIL  
SCALE: 1:10



3 RAKE/EAVE DETAIL  
SCALE: 1:10



4 RIDGE VENT DETAIL  
SCALE: 1:10



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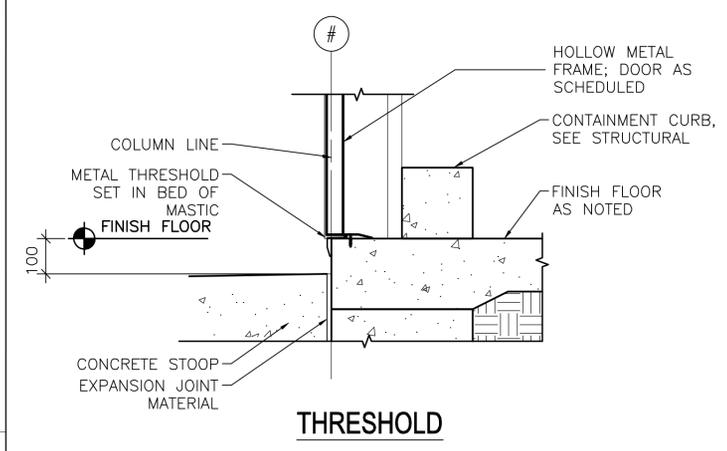
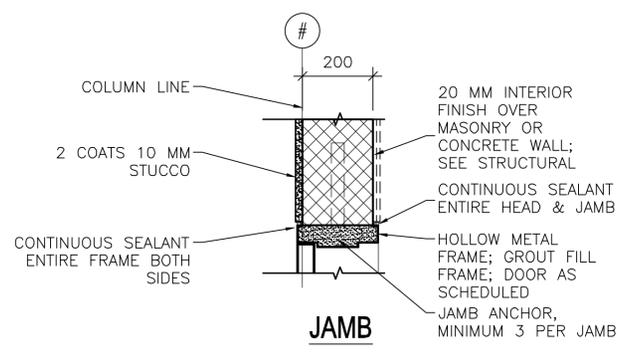
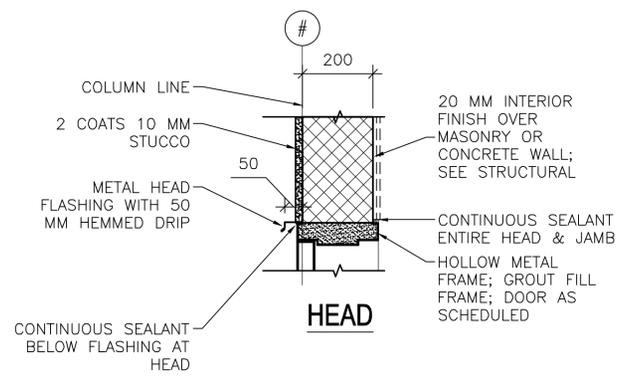
APPROVED: *X. R. Chapin*  
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Sheet reference number:  
A-501

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

0 200 400  
SCALE: 1:10



1  
A-502

**EXTERIOR DOOR DETAILS**

SCALE: 1:10



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

Designed by:	KRC	Checked by:	NLJ
Dwn by:	KJG	Reviewed by:	LHM
Submitted by:	BAKER	Drawing code:	ANAPOLA-502HS
File name:	ANAPOLA-502HS	Plot date:	2/23/2010
Plot scale:	X:1		

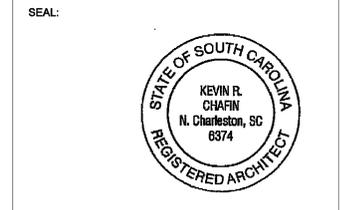
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AFGHAN NATIONAL ARMY REGIONAL MILITARY TRAINING CENTER STANDARD DESIGN	POL STORAGE HEAD, JAMB & SILL DETAILS
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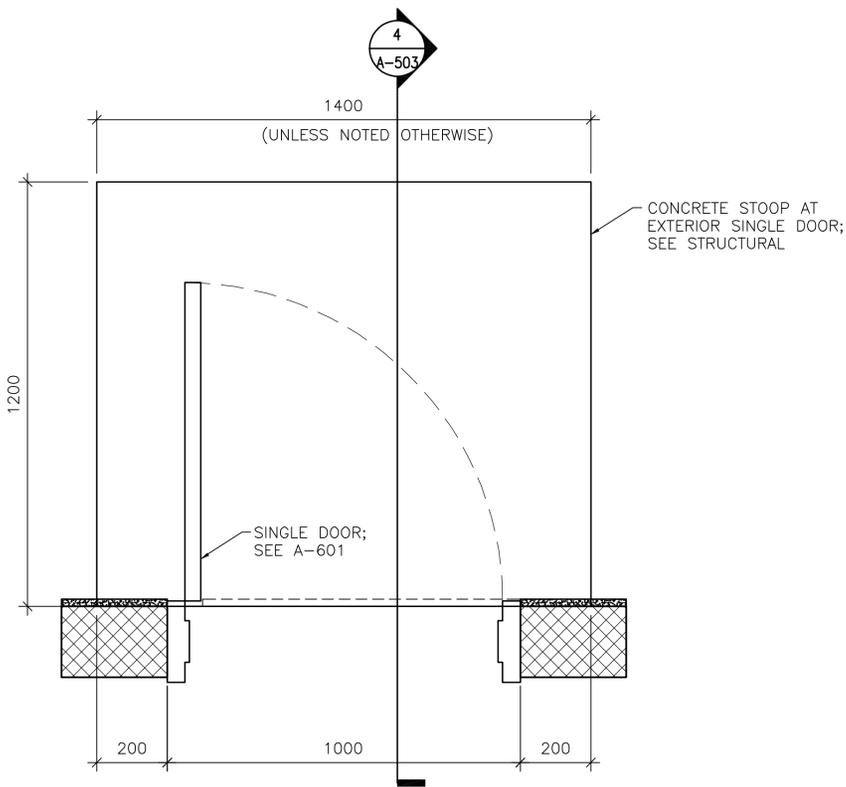
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**A-502**

APPROVED: *X. R. Cliff*  
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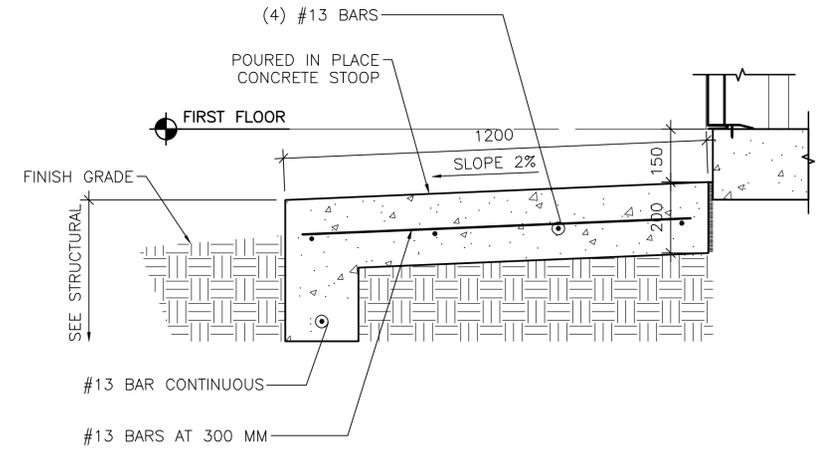


LINEAR DIMENSIONS SHOWN ARE IN MILLIMETERS (MM), UNLESS OTHERWISE NOTED

0 200 400  
SCALE: 1:10



1 DOOR STOOP PLAN (WITHOUT GRATE)  
A-503 SCALE: 1:10



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

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



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



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

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

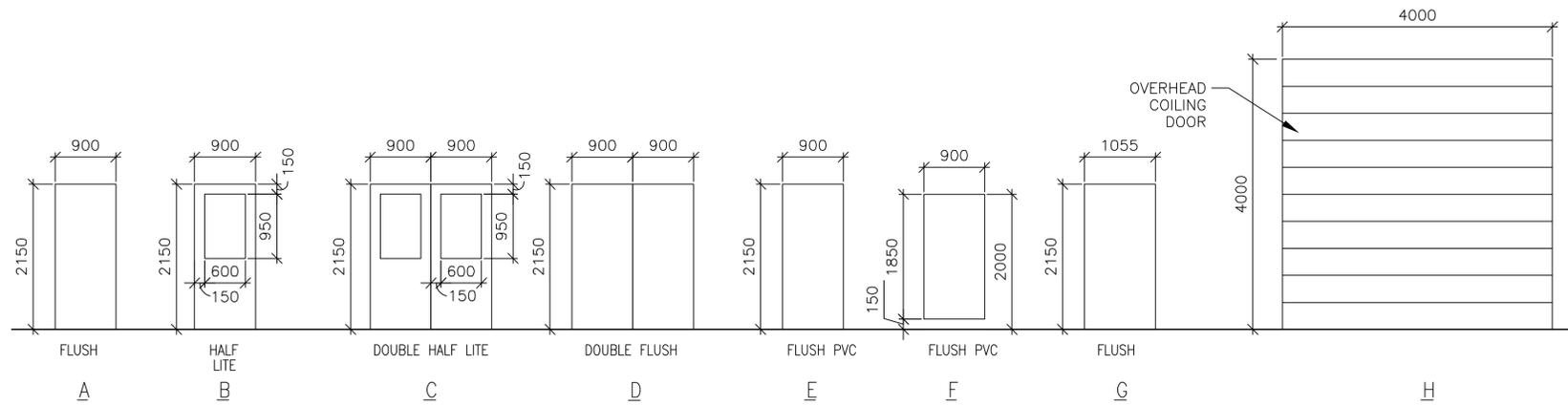
Date: 2/23/10  
 Design file no.:  
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 File name: ANMPOA-600T  
 Plot date: 2/23/2010  
 Plot scale: x:k

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POL STORAGE  
 STOOP  
 DETAILS

Sheet reference number:  
A-503



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



Rev.	Date	Description	Mark	Appr.

**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:**

- INTERIOR AND EXTERIOR METAL DOORS AND FRAME COLORS SHALL MATCH ADJACENT WALL COLORS AS SELECTED BY THE CONTRACTING OFFICER.
- 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.
- 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.
- HARDWARE SHALL BE HEAVY DUTY, COMMERCIAL GRADE, STAINLESS STEEL WITH A SATIN OR BRUSHED FINISH.
- HARDWARE TYPES INCLUDE BUILDERS HARDWARE MANUFACTURERS ASSOCIATION (BMHA) NUMBER.
- 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.
- 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.
- 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.
- DOORS IN 1 HOUR RATED CORRIDOR WALLS SHALL BE 1/3 HOUR (20 MINUTE) IN ACCORDANCE WITH NFPA 101, TABLE 8.3.4.2.
- PROVIDE DOOR STOPS TO PROTECT WALLS ON LOCATIONS WHERE DOOR SWING WILL STRIKE WALL.

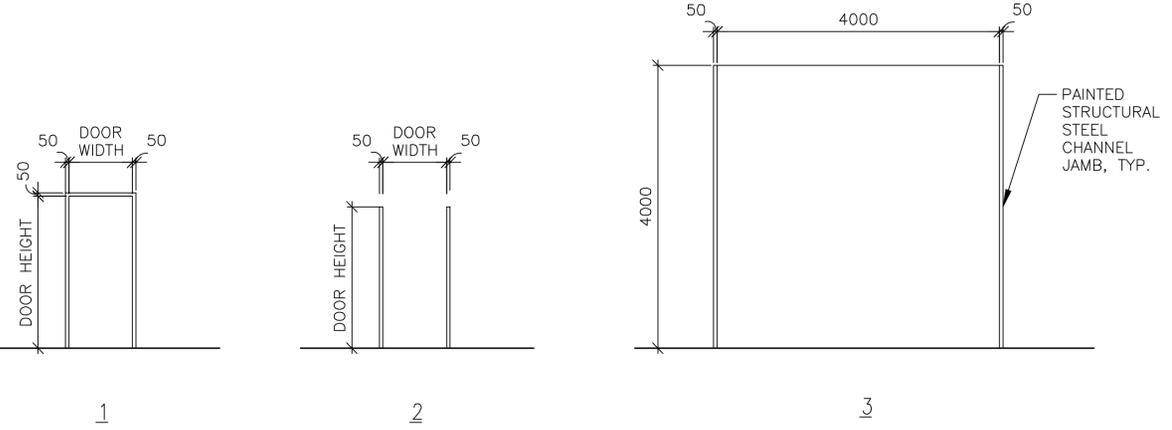
**WINDOW TYPE NOTES:**

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

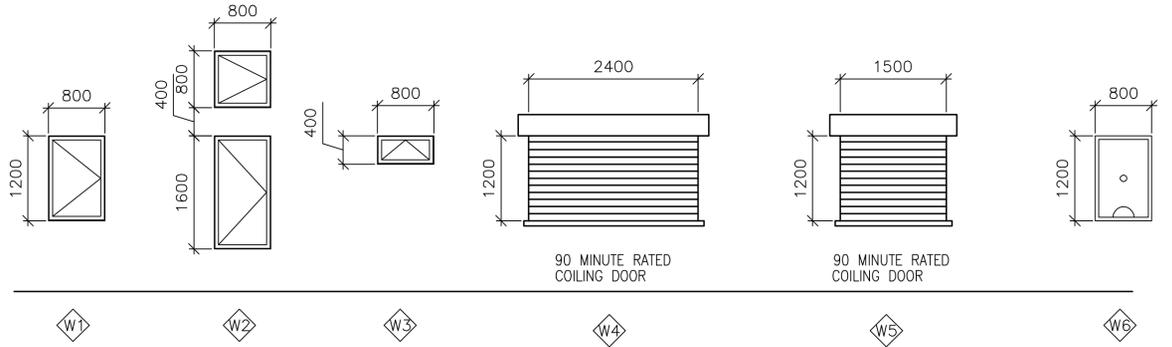
**DOOR TAG NOTES:**

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

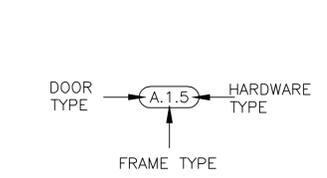
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SCALE: 1:50



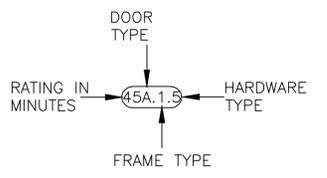
**2 FRAME TYPES**  
SCALE: 1:50



**3 WINDOW TYPES**  
SCALE: 1:50



**4 DOOR TAG**  
SCALE: NTS



**5 RATED DOOR TAG**  
SCALE: NTS

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

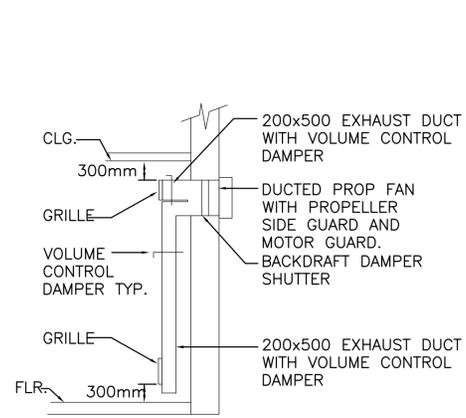


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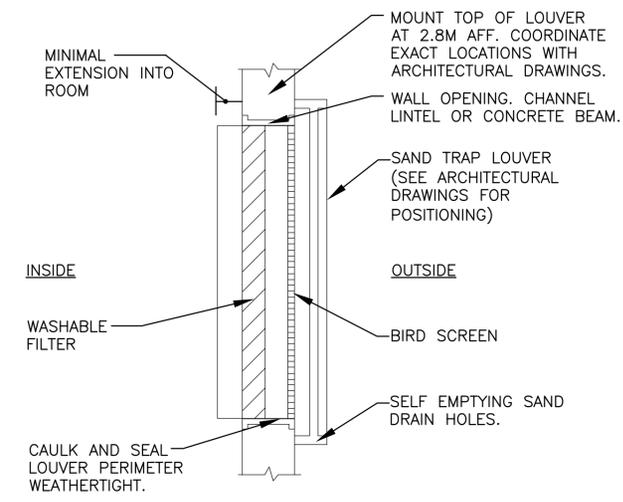
POL STORAGE

WINDOW AND DOOR SCHEDULES

Sheet reference number:  
**A-601**



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



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

**GENERAL NOTES:**

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

**SYMBOLS:**

- (X) KEY NOTE
- (0.050) AIR VOLUME IN CUBIC METERS PER SECOND (CMS)
- (1) THERMOSTAT WITH LOCKING COVER

**ABBREVIATIONS:**

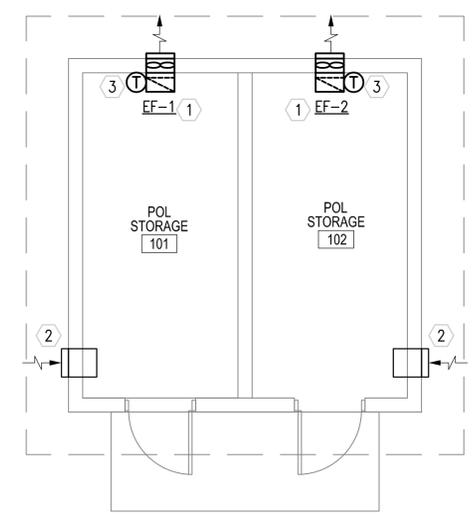
- AFF ABOVE FINISH FLOOR
- CF CEILING FANS
- CMS CUBIC METERS PER SECOND
- EC ELECTRICAL CONTRACTOR
- STATS THERMOSTATS

**KEY NOTE:**

- WALL EXHAUST FAN MOUNTED AS HIGH AS POSSIBLE, EXTEND DUCT DOWN TO 150mm ABOVE FLOOR. PROVIDE 2 300X300 (12X12) GRILLES ONE LOCATED 300 (12") AFF AND THE OTHER AT 300 (12") BELOW CEILING. SEE DETAIL THIS SHEET. INTERLOCK FANS WITH LIGHTS. SEE DETAIL "2" THIS SHEET.
- 400X200 (16X8) LOW LEAKAGE GRAVITY WALL LOUVER FOR INTAKE. PROVIDE WEATHER PROOF LOUVER W/ 50mm (2") WASHABLE FILTER AND SAND TRAP. SEE DETAIL "3" THIS SHEET.
- THERMOSTAT MOUNTED ON SIDE OF DUCT AND AS HIGH AS POSSIBLE. INTERLOCK STAT WITH CORRESPONDING EXHAUST FAN, SET FAN TO ENERGIZE ON RISE IN TEMPERATURE ABOVE 25°C (77°F).

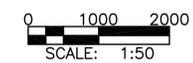
EXHAUST FAN SCHEDULE							
NO.	TYPE	FAN CMS	DRIVE	HP	SP mmH2O	ELECTRICAL DATA	SWITCH
EF-1	WALL	0.035	DIRECT	FRACT	9.5	220/1/50	W/ STAT
EF-2	WALL	0.035	DIRECT	FRACT	9.5	220/1/50	W/ STAT

- NOTES:
- FANS SHALL HAVE SPRING OPERATED BACK DRAFT DAMPER.
  - FANS AND CORRESPONDING THERMOSTATS SHALL BE EXPLOSION PROOF.



1 FLOOR PLAN - HVAC  
M-101 SCALE: 1:50

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



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Rev.	Date	Description
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Designed by: RML  
Dwn by: JLN  
Ckd by: CUM  
Reviewed by: MRS  
Submitted by: BAKER

Date: 02/23/10  
Design file no.  
Drawing code:  
File name: ANAFQUM-10100X  
Plot date: 02/23/10  
Plot scale: 1:50

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POL STORAGE  
HVAC - FLOOR PLAN,  
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 ALL LOCAL SWITCHING. SEE WIRING DIAGRAM DETAIL 7, ON DRAWING #E-501.
3. REFER TO DRAWING #E-601 FOR THE LIGHTING FIXTURE SCHEDULE.
4. REFER TO DRAWING #E-602 FOR PANEL SCHEDULES.
5. LIGHT FIXTURES INDICATED AS EMERGENCY SHALL BE PROVIDED WITH A BATTERY BACKUP BALLAST. SEE WIRING DIAGRAM DETAIL 8, ON DRAWING #E-501.
6. ALL PANELS, DEVICES, EQUIPMENT, ETC. SHALL BE EXPLOSION-PROOF OR SHALL BE PROVIDED WITH AN EXPLOSION-PROOF ENCLOSURE. ALL WORK IN THIS BUILDING SHALL BE IN ACCORDANCE WITH NEC ARTICLE 511. EXPLOSION-PROOF EQUIPMENT SHALL BE USED FOR ALL FIXTURES AND DEVICES. PROVIDE CONDUIT SEALS WHERE REQUIRED. ALL WIRING SHALL BE IN ACCORDANCE WITH NEC ARTICLE 501 FOR CLASS I LOCATIONS.



Rev.	Date	Description
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Designed by: <b>KJR</b>	Date: 2/23/10	Rev: 0
Drawn by: <b>BJB</b>	Design file no.	
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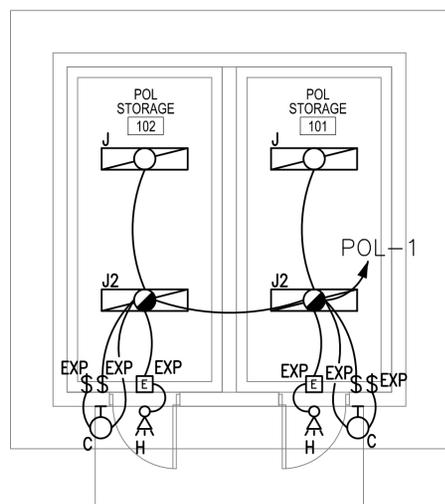
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POL STORAGE  
ELECTRICAL LIGHTING PLAN

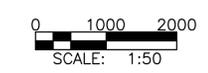
Sheet reference number:  
**E-101**



**POL STORAGE  
FLOOR PLAN - LIGHTING**

1  
E-101

SCALE: 1:50



APPROVED:

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### GENERAL NOTES:

1. REFER TO DRAWING #E-001 FOR THE ELECTRICAL SYMBOLS LIST.
2. REFER TO DRAWING #E-501 FOR THE POWER RISER.
3. REFER TO DRAWING #E-602 FOR PANEL SCHEDULES.
4. COORDINATE EXACT MOUNTING LOCATION OF DISCONNECTING MEANS FOR MECHANICAL AND PLUMBING EQUIPMENT IN THE FIELD.
5. FUSIBLE SAFETY SWITCHES THAT ARE NOT OTHERWISE IDENTIFIED SHALL BE 380V, 1P, 30A FUSED SAFETY SWITCHES WITH 20A FUSES.
6. ALL PANELS, DEVICES, EQUIPMENT, ETC. SHALL BE EXPLOSION-PROOF OR SHALL BE PROVIDED WITH AN EXPLOSION-PROOF ENCLOSURE. ALL WORK IN THIS BUILDING SHALL BE IN ACCORDANCE WITH NEC ARTICLE 511. EXPLOSION-PROOF EQUIPMENT SHALL BE USED FOR ALL FIXTURES AND DEVICES. PROVIDE CONDUIT SEALS WHERE REQUIRED. ALL WIRING SHALL BE IN ACCORDANCE WITH NEC ARTICLE 501 FOR CLASS I LOCATIONS.

### NUMBERED NOTES:

- 1 PANEL POL WITH NEMA 3R LOCKABLE WEATHERPROOF HOUSING.
- 2 PROVIDE POWER CONNECTION TO EXHAUST FAN. SEE DRAWINGS #M-101 AND #E-602 FOR MORE INFORMATION.
- 3 FACP IN NEMA 3R LOCKABLE WEATHERPROOF HOUSING.



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Designed by: <b>KJR</b>	Date: 2/23/10	Rev: 0
Drawn by: <b>BJB</b>	Design file no.:	
Reviewed by: <b>JRG</b>	Drawing code:	
Submitted by: <b>BAKER</b>	File name: Pol.stg	Plot scale:

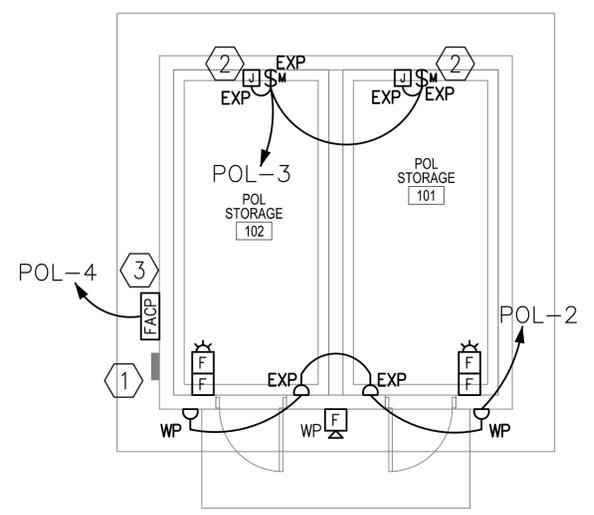
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POL STORAGE  
ELECTRICAL POWER AND SYSTEMS PLAN

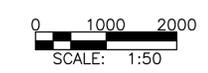
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**E-102**



**POL STORAGE  
FLOOR PLAN - POWER AND SYSTEMS**

1  
E-102

SCALE: 1:50



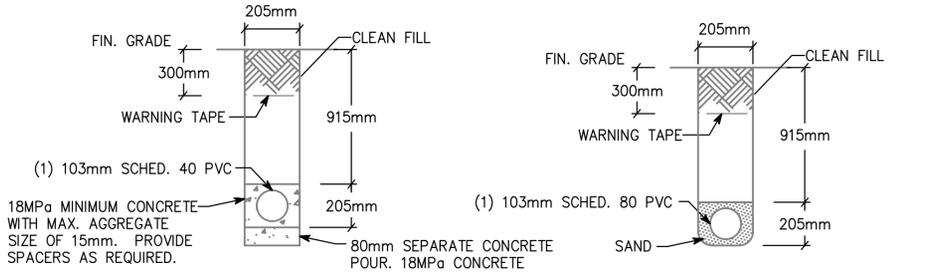
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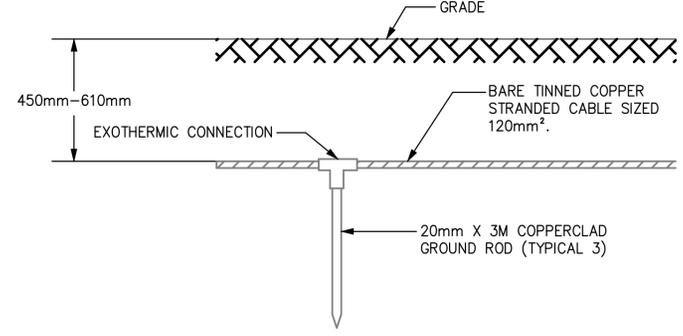
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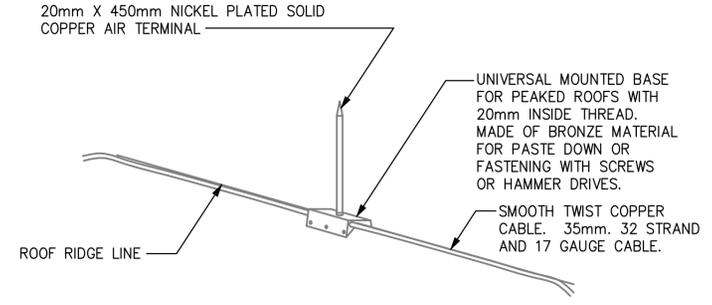


NOTE: PVC CONDUIT SHALL BE DIRECT BURIED SCHEDULE 80 FOR NO TRAFFIC AREAS AND CONCRETE-ENCASED SCHEDULE 40 FOR UNDER ROADWAYS OR TRAFFIC AREAS.

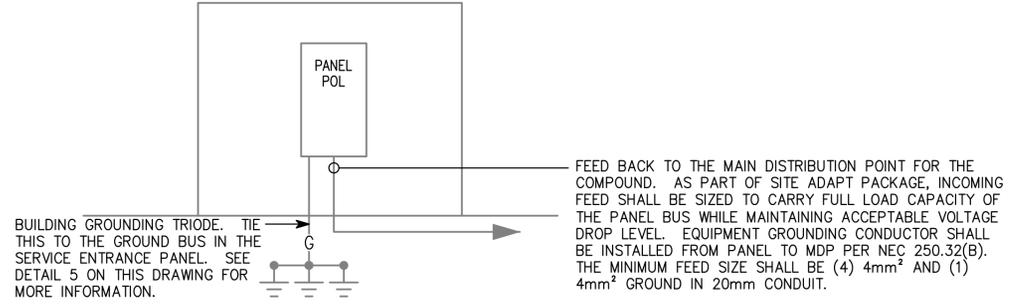
**1 TYPICAL DUCT BANK DETAILS FOR CONDUIT IN SAND OR CONCRETE**  
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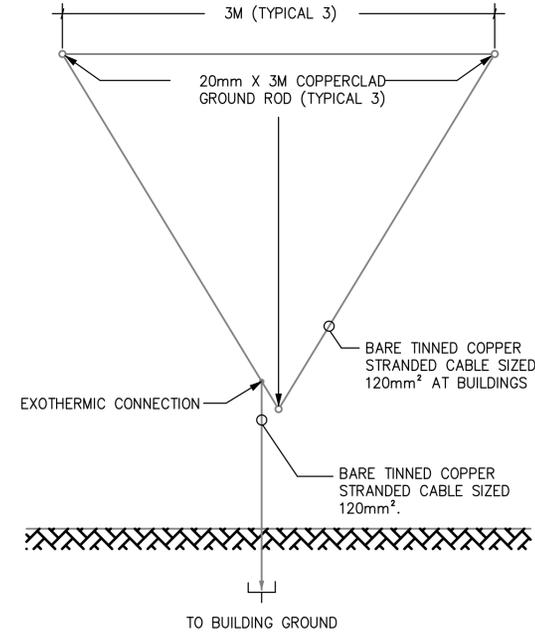
**2 GROUND TRIPOD SYSTEM DETAIL - ELEVATION**  
SCALE: N.T.S.



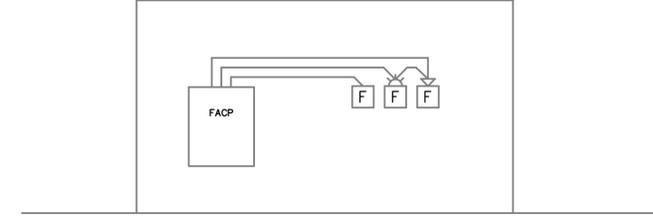
**3 LIGHTNING PROTECTION AIR TERMINAL DETAIL**  
SCALE: N.T.S.



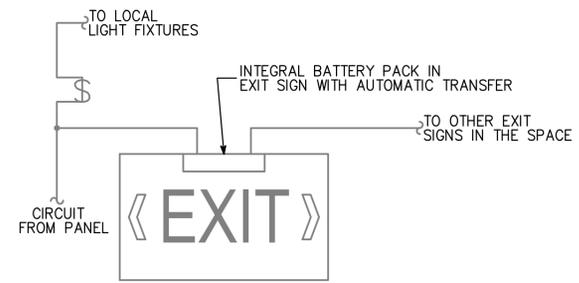
**4 POL RISER DIAGRAM**  
SCALE: N.T.S.



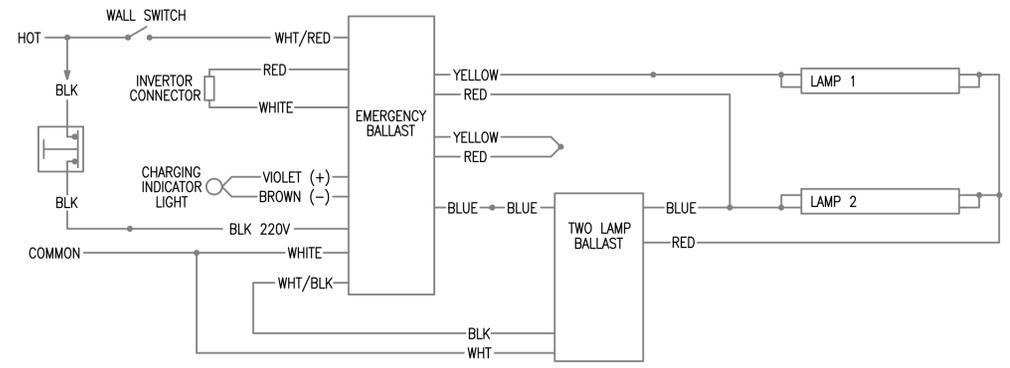
**5 GROUND TRIPOD SYSTEM DETAIL - PLAN**  
SCALE: N.T.S.



**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.



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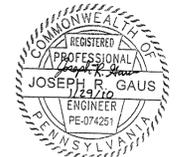
Rev.	Date	Design file no.	Drawing code:	File name:	Plot date:	Plot scale:
0	2/23/10					

Designed by:	KUR	Checked by:	JRG	Reviewed by:	JRG	Submitted by:	BAKER
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POL STORAGE  
ELECTRICAL DETAILS

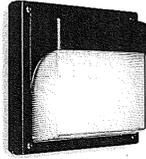
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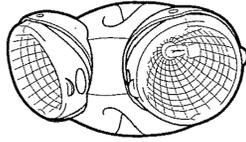
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FIXTURE MARK 'C'



FIXTURE MARK 'H'



FIXTURE MARK 'E'



FIXTURE MARK 'J'



# LIGHT FIXTURE SCHEDULE

FIXTURE MARK	STYLE NUMBER AND TYPE	NUMBER AND TYPE OF LAMPS	VOLTAGE	MOUNTING	NOTES
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	
J	EXPLOSION-PROOF (2) LAMP FIXTURE PROVIDED WITH LAMPS. COPPER FREE, ALUMINUM HOUSING, TEMPERED BOROSILICATE GLASS, AND BIAx LAMPS WITH WIRE GUARD	(2) 40W 3500K BIAx FLUORESCENT LAMPS	220V - 1Ø 50HZ	PENDANT MOUNTED FROM CEILINGS	FURNISHED WITH LAMPS AND WIRE GUARD
J2	SAME AS FIXTURE 'J' WITH EMERGENCY BALLAST	(2) 40W 3500K BIAx FLUORESCENT LAMPS	220V - 1Ø 50HZ	PENDANT MOUNTED FROM CEILINGS	FURNISHED WITH LAMPS, WIRE GUARD, EMERGENCY BALLAST WITH SELF TEST SWITCH
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	



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

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

U.S. ARMY CORPS OF ENGINEERS  
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STANDARD DESIGN

POL STORAGE  
ELECTRICAL LIGHTING FIXTURE SCHEDULE

APPROVED:

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