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General Notes (Continued)

MA. MASONRY

MA.1 MASONRY CONSTRUCTION SHALL CONFORM TO TMS 402/ACI 530/ASCE 5 AND TMS 602/ACI 530.1/ASCE 6 SPECIFICATIONS.

MA.2 CONCRETE MASONRY UNITS (CMU) SHALL BE LIGHTWEIGHT (DENSITY = 105 PCF), CONFORMING TO ASTM C90, UNLESS NOTED.

MA.3 COMPRESSIVE STRENGTH OF MASONRY (F'm): 2000 PSI AT 28 DAYS.

MA.4 GROUT SHALL CONFORM TO ASTM C476 WITH COMPRESSIVE STRENGTH (F'g) OF 2500 PSI AT 28 DAYS. GROUT SHALL BE PLACED ACCORDING TO TMS 602/ACI 530.1/ASCE 6 SECTION 3.5.

MA.5 MORTAR SHALL CONFORM TO ASTM C270, TYPE S OR M FOR TYPICAL CONDITIONS, TYPE M FOR BASEMENT AND RETAINING WALLS.

MA.6 ALL MASONRY SHALL BE RUNNING BOND, UNLESS NOTED.

MA.7 ALL BLOCK CELLS AND CAVITIES BELOW GRADE SHALL BE FILLED WITH CONCRETE OR GROUT.

MA.8 SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF MASONRY CONTROL JOINTS AND OPENINGS.

MA.9 REINFORCING BARS: ASTM A615 GRADE 60. LAP REINFORCING BARS ACCORDING TO TYPICAL DETAILS.

MA.10 WHEN REINFORCING BARS ARE SPECIFIED, PROVIDE AT EACH SIDE OF CONTROL JOINTS, OPENINGS AND WALL ENDS ACCORDING TO TYPICAL DETAILS. REINFORCING BARS TO BE CENTERED IN WALL, UNLESS NOTED.

MA.11 CONDUIT, PIPING, AND SLEEVES OF ANY MATERIAL TO BE EMBEDDED IN MASONRY SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:

A. CONDUIT, PIPING, AND SLEEVES OF ALUMINUM SHALL NOT BE EMBEDDED IN MASONRY.

B. CONDUIT, PIPING, AND SLEEVES SHALL NOT PASS THROUGH JAMBS, LINTELS, BOND BEAMS, OR SHEAR WALLS WITHOUT APPROVAL BY THE STRUCTURAL ENGINEER.

C. REINFORCING SHALL NOT BE CUT, BENT, OR DISPLACED FOR PLACEMENT OF CONDUIT, PIPING, AND SLEEVES.

D. CONDUIT, PIPING, AND SLEEVES SHALL BE NO CLOSER THAN 3 DIAMETERS ON CENTER. MINIMUM SPACING OF DIFFERENT DIAMETERS SHALL BE DETERMINED USING THE LARGER DIAMETER.

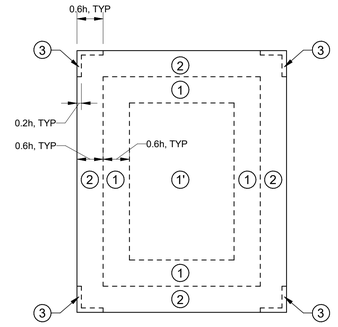
MA.12 TEMPORARY BRACING OF CMU WALLS IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL REMAIN IN PLACE UNTIL PERMANENT RESTRAINT IS PROVIDED.

Symbol Legend

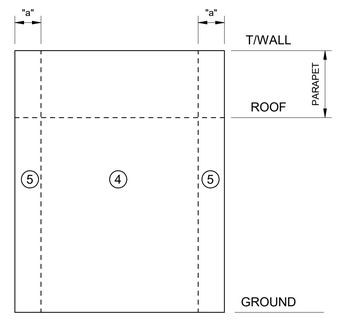
SYMBOL	DESCRIPTION
?? ? ? ? ??	EXTERIOR/INTERIOR ELEVATION
	MOMENT CONNECTION
	BEAM SPLICE
?	LEVEL CALLOUT
TOF -2'-0" (T.O.P., TODP, TOF, TOGB, TOPC, TOS, TOW)	SPOT ELEVATION
n n (n = DEPTH IN INCHES)	SLAB RECESS
?	REVISION NUMBER

Abbreviations

ABOVE FINISH FLOOR	- AFF	JOINT	- JT
ADDITIONAL	- ADDNL	JOIST(S)	- JST(S)
ADJACENT	- ADJ	JOIST GIRDER	- JG
AIR CONDITIONER	- A/C		
AIR HANDLING UNIT	- AHU	KIPS (1000 LBS)	- K
ALTERNATE	- ALT	KIPS PER LINEAL FOOT	- KLF
ANCHOR	- ANC	KIPS PER SQUARE INCH	- KSI
ANCHOR ROD	- AR	KIPS PER SQUARE FOOT	- KSF
AND	- &		
APPROVED	- APPRV	LIGHTWEIGHT CONCRETE	- LWT CONC
APPROXIMATE	- APPROX	LIVE LOAD	- LL
ARCHITECTURAL	- ARCH.	LONGITUDINAL	- LONG.
ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	- AESS	LONG LEG HORIZONTAL	- LLH
		LONG LEG VERTICAL	- LLV
AT (WHEN INDICATING SPACING ONLY)	- @		
		MANUFACTURE(R)	- MFR
		MASONRY	- MAS
BACK TO BACK	- B TO B	MASONRY OPENING	- MO
BALANCE	- BAL	MATERIAL	- MATL
BASEMENT	- BSMT	MAXIMUM	- MAX
BASE PLATE	- BSPL	MECHANICAL	- MECH
BEAM	- BM	METAL	- MTL.
BEARING	- BRG	MIDDLE	- MID
BELOW FINISH FLOOR	- BFF	MINIMUM	- MIN
BETWEEN	- BTWN	MISCELLANEOUS	- MISC
BLOCK	- BLK	MOMENT	- M
BLOCKING	- BLKG	MOMENT CONNECTION(S)	- MC
BOTTOM	- BOT		
BOTTOM OF	- B.O.	NEAR FACE	- NF
BOTTOM CHORD EXTENSION	- BCX	NEAR SIDE	- NS
BRICK	- BRK	NOMINAL	- NOM
BRIDGING	- BRDG	NOT IN CONTRACT	- NIC
BUILDING	- BLDG	NOT TO SCALE	- NTS
		NUMBER	- NO. or #
CAST IN PLACE	- CIP		
CENTER	- CTR	ON CENTER	- OC
CENTERLINE	- CL	OPENING(S)	- OPNG(S)
CENTER TO CENTER	- C TO C	OPPOSITE	- OPP
CHANNEL	- C	OUTSIDE FACE	- O.F.
CLEAR OR CLEARANCE	- CLR	OUTSIDE DIAMETER	- OD
COLUMN	- COL	OUTSTANDING LEG	- OSL
COMPLETE JOINT PENETRATION	- CJP		
COMPRESSION	- COMP	PARALLEL	- PAR.
CONCRETE	- CONC	PARTITION(S)	- PARTN(S)
CONCRETE MASONRY UNIT	- CMU	PENETRATION	- PEN
CONNECTION(S)	- CONN(S)	PERMANENT	- PERM
CONTINUOUS	- CONT	PERPENDICULAR	- PERP
CONTRACTOR	- CONTR	PLATE	- PL
CONSTRUCTION	- CONST	PLUMBING	- PLBG
CONTROL JOINT	- CJ	PNEUMATIC	- PNEU
CORNER	- COR	POST-TENSION	- PT
COORDINATE	- COORD	POUNDS	- LBS
COVER PLATE	- COV PL	POUNDS PER LINEAL FOOT	- PLF
		POUNDS PER SQUARE INCH	- PSI
DEGREE	- DEG OR °	POUNDS PER SQUARE FT	- PSF
DEGREE CELSIUS	- C°	POUNDS PER CUBIC YARD	- PCY
DEGREE FAHRENHEIT	- F°	POUNDS PER CUBIC INCH	- PCI
DETAIL	- DET	PRECAST CONCRETE	- PC
DEAD LOAD	- DL	PREENGINEERED METAL BUILDING	- PEMB
DIAGONAL	- DIAG	PREFABRICATED	- PREFAB
DIAMETER	- DIA or Ø	PRELIMINARY	- PRELIM
DIMENSION(S)	- DIM(S)	PRESSURE INJECTED FOOTING	- PIF
DRAWING(S)	- DWG(S)	PRESSURE TREATED	- P.T.
DRILLED PIER	- DP	PROJECTION	- PROJ
DOUBLE	- DBL		
DOUBLE EXTRA STRONG	- XXS	RADIUS	- R
DOWEL(S)	- DWL(S)	REFERENCE	- REF
DOWN	- DN	REINFORCED CONC PIPE	- RCP
		REINFORCING	- REINF
EACH	- EA	REQUIRED	- REQD
EACH FACE	- EF	RISER	- RIS
EACH WAY	- EW	ROOF	- RF
EDGE OF DECK	- EOD	ROOF DRAIN	- RD
EDGE OF SLAB	- EOS	ROOF TOP UNIT	- RTU
ELECTRICAL	- ELEC	ROOM	- RM
ELEVATION	- EL	ROUND	- RND
ELEVATOR	- ELEV	ROUGH OPENING	- R.O.
EMBEDMENT	- EMBED.	SAWN LUMBER	- SL
ENGINEER	- ENGR	SCHEDULE	- SCHED
EQUAL	- EQ	SECTION	- SECT
EQUIPMENT	- EQUIP.	SHEAR	- V
EXISTING	- EXIST.	SHEET	- SHT
EXPANSION	- EXP	SIMILAR	- SIM
EXPANSION ANCHOR	- EXP ANC	SPACE	- SP
EXPANSION JOINT	- EJ	SPECIFICATION(S)	- SPEC(S)
EXTENSION	- EXTN	SPECIFIED	- SPECD
EXTERIOR	- EXT	SQUARE	- SQ
EXTRA STRONG	- XS	STANDARD	- STD
		STEEL	- STL
FABRICATOR	- FABR	STIFFENER	- STIFF.
FACE TO FACE	- F TO F	STRAIGHT	- STR
FACE OF STUD	- FOS	STIRRUPS	- STIR.
FAR SIDE	- FS	STRUCTURE OR STRUCT'L	- STRUCT
FASTENER	- FAS	SYMMETRICAL	- SYM
FIELD VERIFY	- FV	SUPPORT(S)	- SUPT(S)
FINISH(ED)	- FIN.		
FINISHED FLOOR	- FF	TEMPERATURE	- TEMP
FLANGE	- FLG	TENSION	- T
FLOOR	- FLR	THICK	- THK
FLOOR DRAIN	- FD	TONGUE AND GROOVE	- T&G
FOOT	- FT	TOP AND BOTTOM	- T&B
FOOTING	- FTG	TOP CHORD EXTENSION	- TCX
FOUNDATION	- FDN	TOP OF	- T.O.
FRAMING	- FRMG	TOP OF FOOTING	- TOF
		TOP OF GRADE BEAM	- TOGB
GAGE OR GAUGE	- GA	TOP OF JOIST	- TOJ
GALVANIZED	- GALV	TOP OF PIER	- T.O.P.
GENERAL	- GEN	TOP OF PILE CAP	- TOPC
GENERAL CONTRACTOR	- GC	TOP OF STEEL	- TOS
GOVERNMENT	- GOVT	TOP OF WALL	- TOW
GRADE	- GR	TREAD	- TR
GRADE BEAM	- GB	TYPICAL	- TYP
GROUND	- GRD		
		UNLESS NOTED	- U.N.
HARD ROCK	- HD RK		
HEADED STUD(S)	- H STUD(S)	VERTICAL	- VERT
HEIGHT	- HT		
HIGH STRENGTH	- HS	WATERPROOFING	- WPFG
HOOK	- HK	WATERSTOP	- WS
HORIZONTAL	- HORZ	WELDED WIRE REINFORCEMENT	- WWR
		WIND LOAD	- WL
INFORMATION	- INFO	WIND MOMENT CONNECTION	- WC
INSIDE DIAMETER	- ID	WINDOW	- WDW
INSIDE FACE	- I.F.	WITH	- W/
INTERIOR	- INT	WITHOUT	- W/O
INTERMEDIATE	- INTM	WOOD	- WD
		WORK POINT	- WP
		WEIGHT	- WT
		WIDE FLANGE	- WF



Roof Plan



Wall Elevation

Components and Cladding Wind Pressures

Components and Cladding Wind Pressures (Vult per ASCE 7-10)			
ZONE	EFFECTIVE WIND AREA (SQ FT)	MAX POSITIVE PRESSURE (PSF)	MAX NEGATIVE PRESSURE (PSF)
1' ROOF INTERIOR ZONE	10	16.0	-23.9
	20	16.0	-23.9
	50	16.0	-23.9
	100	16.0	-16.2
	>500	16.0	-16.0
1 ROOF INTERMEDIATE ZONE	10	16.0	-41.6
	20	16.0	-38.8
	50	16.0	-35.2
	100	16.0	-32.5
	≥500	16.0	-26.1
2 ROOF EDGE ZONE	10	23.9	-54.9
	20	22.8	-51.3
	50	21.4	-46.7
	100	20.4	-43.1
	≥500	17.9	-35.0
3 ROOF CORNER ZONE	10	23.9	-54.9
	20	22.8	-51.3
	50	21.4	-46.7
	100	20.4	-43.1
	≥500	17.9	-35.0
4 WALL INTERIOR ZONE	10	23.9	-25.9
	20	22.8	-24.8
	50	21.4	-23.4
	100	20.4	-22.4
	≥500	17.9	-19.9
5 WALL EDGE ZONE	10	23.9	-31.9
	20	22.8	-29.7
	50	21.4	-26.9
	100	20.4	-24.8
	≥500	17.9	-19.9
INTERNAL PRESSURE COEFFICIENT = ± 0.18 WIDTH OF WALL STRIP, a = 5'-5" RELIABLE ROOF DEAD LOAD FOR UPLIFT = 6 PSF WORST CASE ROOF DEAD LOAD = 25 PSF			

Components and Cladding Parapet Wind Pressures (Vult per ASCE 7-10)		
ZONE	EFFECTIVE WIND AREA (SQ FT)	MAX (NET) PRESSURE (PSF)
4 INTERIOR ZONE	10	73.0
	20	68.2
	50	62.0
	100	57.3
5 EDGE ZONE	10	73.0
	20	68.2
	50	62.0
	100	57.3

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GENERAL NOTES (CONTINUED) AND TYPICAL DETAILS

S101

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