

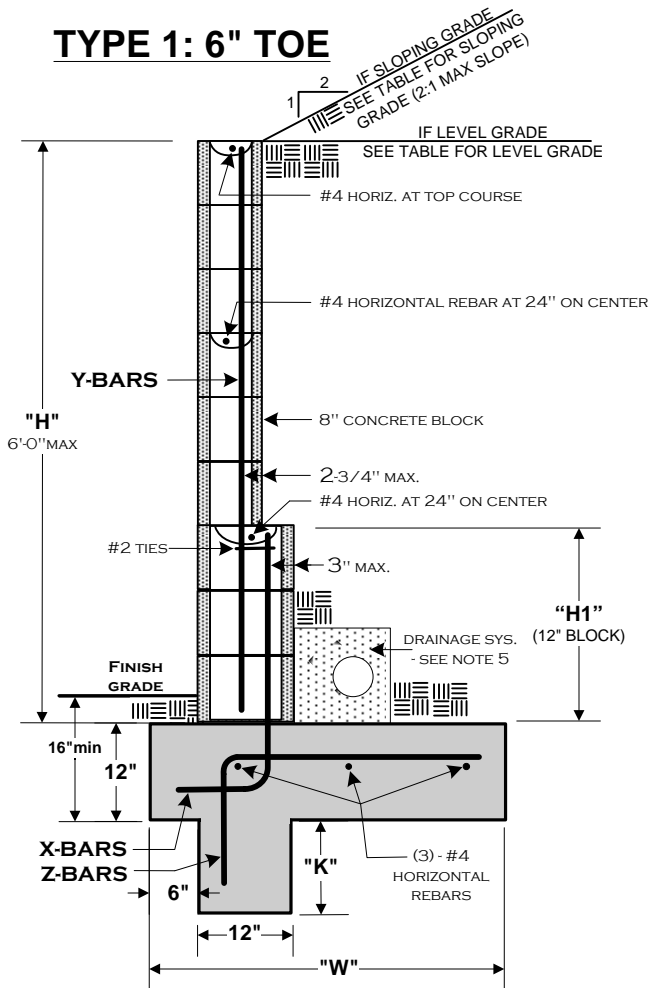


**CATHEDRAL CITY BUILDING DIVISION  
APPLICATION FOR WALL/FENCE PERMIT**

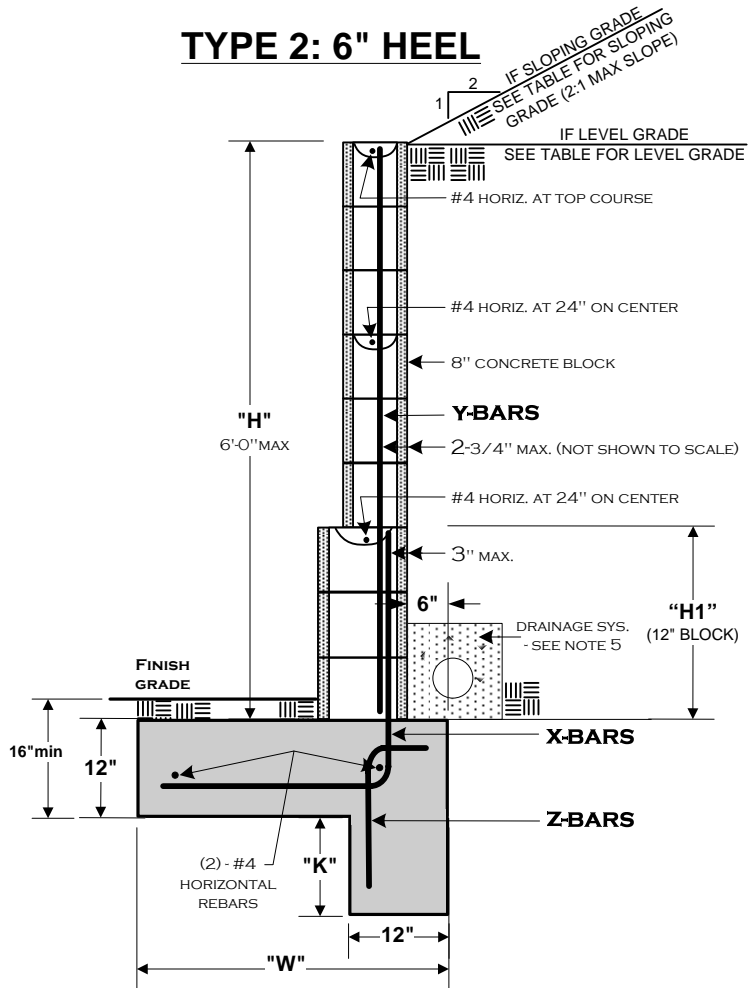
**FILL OUT COMPLETELY – BLANK SPACES WILL DELAY PERMIT PROCESSING**

Date:		Plan Check No.:	
<b>PROPERTY IDENTIFICATION</b>			
Property Address:			
Lot:	APN:	Tract:	
<b>PROPERTY OWNER INFORMATION</b>			
Name:		Phone No.:	
Address:			
City:		State:	Zip:
<b>CONTRACTOR INFORMATION</b>			
Name:		Phone No.:	
Address:			
City:		State:	Zip:
California Contractor's License No.:		City Business License No.:	
<b>DESCRIPTION OF WORK</b>			
Type: <input type="checkbox"/> Block <input type="checkbox"/> Combination Block/Wrought Iron w/Pilasters <input type="checkbox"/> Wrought Iron <input type="checkbox"/> Other _____			
Total Linear Footage: _____		of	Wall/Fence Height: _____
Total Linear Footage: _____		of	Wall/Fence Height: _____
Total Linear Footage: _____		of	Wall/Fence Height: _____
<b>Construction Valuation: \$</b> _____			
<b>Required Plot Plans: 3 Sets (Show location, footage and type of new &amp; existing walls on plot plan)</b>			
<ul style="list-style-type: none"> <li>❖ All property corners shall be clearly marked with survey stakes at the time of footing inspection.</li> <li>❖ Any excavation requires you to call <b>DIG ALERT</b> - toll free <b>1-800-227-2600</b> at least two days before you dig. (<u>Dig Alert</u> services free of charge).</li> </ul>			
<b>WARNING TO OWNER/BUILDERS</b>			
<b>IF YOU USE UNLICENSED CONTRACTORS YOU WILL:</b>			
1. ASSUME all liability for injuries to persons working on the job; 2. HAVE NO RECOURSE through the California Department of Consumer Affairs (State Contractor's License Board).			
Applicant's Signature:		Date:	

# TYPE 1: 6" TOE



# TYPE 2: 6" HEEL



TYPE 1: 6" TOE							
GRADE CONDITION	"H" (WALL HEIGHT)	"H1" (12" BLOCK)	"W" (FOOTING WIDTH)	X BARS	Y BARS	ZBARS	"K" (KEY DEPTH)
SLOPING GRADE AT TOP OF WALL (2:1 MAX)	5'- 1" to 6'- 0"	24"	69"	#4 @ 16"	#4 @ 32"	#4 @ 11"	30"
	4'- 1" to 5'- 0"	N/R	48"	#4 @ 16"	#4 @ 16"	#4 @ 12"	25"
	3'- 1" to 4'- 0"	N/R	30"	#4 @ 32"	#4 @ 32"	#4 @ 32"	16"
	Up to 3'- 0"	N/R	18"	#4 @ 32"	#4 @ 32"	#4 @ 32"	8"
LEVEL GRADE AT TOP OF WALL	5'- 1" to 6'- 0"	24"	45"	#4 @ 24"	#4 @ 32"	#4 @ 24"	8"
	4'- 1" to 5'- 0"	N/R	36"	#4 @ 24"	#4 @ 24"	#4 @ 24"	7"
	3'- 1" to 4'- 0"	N/R	24"	#4 @ 32"	#4 @ 32"	#4 @ 32"	5"
	Up to 3'- 0"	N/R	21"	#4 @ 32"	#4 @ 32"	#4 @ 32"	N/R


TYPE 2: 6" HEEL							
GRADE CONDITION	"H" (WALL HEIGHT)	"H1" (12" BLOCK)	"W" (FOOTING WIDTH)	X BARS	Y BARS	ZBARS	"K" (KEY DEPTH)
SLOPING GRADE AT TOP OF WALL (2:1 MAX)	5'- 1" to 6'- 0"	24"	39"	#4 @ 16"	#4 @ 32"	#4 @ 12"	28"
	4'- 1" to 5'- 0"	N/R	29"	#4 @ 16"	#4 @ 16"	#4 @ 12"	22"
	3'- 1" to 4'- 0"	N/R	24"	#4 @ 32"	#4 @ 32"	#4 @ 32"	15"
	Up to 3'- 0"	N/R	18"	#4 @ 32"	#4 @ 32"	#4 @ 32"	8"
LEVEL GRADE AT TOP OF WALL	5'- 1" to 6'- 0"	24"	33"	#4 @ 24"	#4 @ 32"	#4 @ 24"	18"
	4'- 1" to 5'- 0"	N/R	26"	#4 @ 24"	#4 @ 24"	#4 @ 24"	13"
	3'- 1" to 4'- 0"	N/R	20"	#4 @ 32"	#4 @ 32"	#4 @ 32"	7"
	Up to 3'- 0"	N/R	20"	#4 @ 32"	#4 @ 32"	#4 @ 32"	N/R

N/R = NOT REQUIRED

\*SEE PAGE 2 FOR ADDITIONAL INFORMATION\*

### DISCLAIMER:

ALTERNATE RETAINING WALL DESIGNS MAY BE POSSIBLE WHEN PROVIDED WITH AN ENGINEERED ANALYSIS. USE OF THIS STANDARD DESIGN IS AT THE USER'S RISK AND CARRIES NO IMPLIED OR INFERRED GUARANTEE AGAINST FAILURE OR DEFECTS.

<b>WESTERN RIVERSIDE COUNTY CODE UNIFORMITY PROGRAM</b>			
 Cathedral City <small>The Spirit of the Desert</small>		<b>CATHEDRAL CITY</b> <b>BUILDING DEPARTMENT</b>	
<b>RETAINING WALLS</b>			
68-700 AVENIDA LALO GUERRERO CATHEDRAL CITY, CA 92234-7031			
PHONE (760) 770-0340	12/26/2006	RETWALLFINAL.VSD	PAGE 1 OF 2
FAX: (760) 202-1460			

**GENERAL NOTES:**

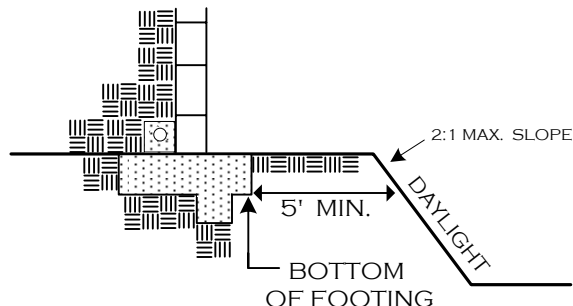
- 1) ALL WORK SHALL CONFORM TO THE ADOPTED CODES AND ZONING REGULATIONS.
- 2) CONCRETE BLOCK MASONRY SHALL COMPLY WITH THE FOLLOWING:
  - A. CONCRETE MASONRY SHALL CONFORM TO ASTM C-90, GRADE - N.
  - B. MORTAR: TYPE M OR S.
  - C. GROUT ALL CELLS W/2000 PSI PORTLAND CEMENT GROUT.
- 3) THE ULTIMATE COMPRESSIVE STRENGTH REQUIRED FOR FOUNDATION CONCRETE SHALL BE 2500 PSI.
- 4) ALL REINFORCING STEEL SHALL BE INTERMEDIATE GRADE ASTM A615-40 AND OVERLAP SPLICES SHALL BE 40 BAR DIAMETERS MINIMUM. ALL REBAR HOOKS SHALL BE A MINIMUM OF 12 TIMES THE REBAR DIAMETER (12bd) IN LENGTH.
- 5) PROVIDE RETAINING WALL DRAINAGE SYSTEM AS FOLLOWS:  
 PROVIDE 1CF/FT OF CLEAN COARSE GRAVEL WITH 4" DIAMETER PERFORATED PVC DRAINAGE PIPE WITH 1% GRADIENT TO DRAIN - OR OMIT HEAD JOINTS IN FIRST COURSE.
- 6) OPTIONAL: INSTALLATION OF A MOISTURE BARRIER ON THE FILL SIDE OF THE WALL WILL HELP TO PREVENT MOISTURE FROM PENETRATING THE VISIBLE SIDE OF THE WALL, RESULTING IN DISCOLORATION.
- 7) THIS RETAINING WALL STANDARD IS **NOT** DESIGNED TO SUPPORT SURCHARGE LOADS FROM MOTOR VEHICLES OR OTHER STRUCTURES.
- 8) CLEANOUTS SHALL BE PROVIDED FOR ALL GROUT POURS OVER 5 FEET IN HEIGHT. WHERE REQUIRED, CLEANOUTS SHALL BE PROVIDED IN THE BOTTOM COURSE AT EVERY VERTICAL BAR AND SHALL BE SEALED AFTER INSPECTION AND BEFORE GROUTING.

**REQUIRED INSPECTIONS:**

- 1) **FOOTING:**  
 EXCAVATION TRENCH CLEAN WITH STEEL IN PLACE AND SUPPORTED 3" ABOVE AND AWAY FROM THE SURROUNDING EARTH/DIRT.
- 2) **REBAR/PRE-GROUT AND DRAINAGE SYSTEM;**  
 BOND BEAM REBAR AND VERTICAL REBAR IN PLACE - INSPECTION PRIOR TO PLACING GROUT.  
 DRAINAGE SYSTEM COMPLETE.
- 3) **FINAL;**  
 AFTER GROUT IS PLACED AND BACKFILL COMPLETED - PRIOR TO ANY DECORATIVE CAP PLACEMENT.

**SETBACK FROM TOP OF SLOPE:**

ALL FOOTINGS ADJACENT TO SLOPES TO BE AT LEAST 5' TO DAYLIGHT AS SHOWN BELOW.




**DESIGN PARAMETERS:**

ACTIVE SOIL PRESSURE (PSF)	
LEVEL BACKFILL	= 30
SLOPING (2:1 MAX)	= 43
PASSIVE SOIL BEARING (PSF)	= 150
COEFFICIENT OF FRICTION	= 0.25
ALLOWABLE SOIL BEARING PRESSURE (PSF)	= 1500
(NO INCREASES TAKEN FOR DEPTH OR WIDTH OF FOOTING)	

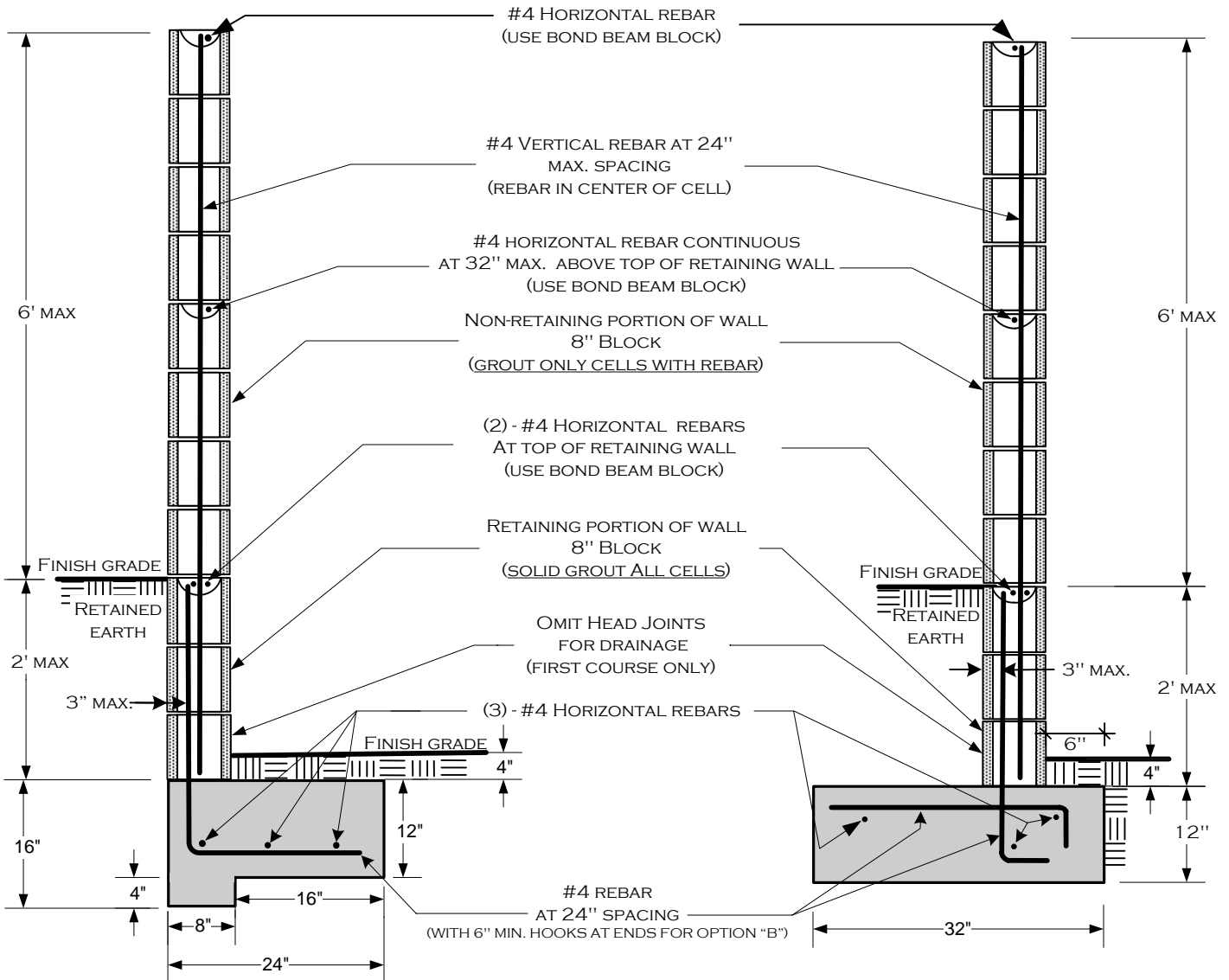
**DISCLAIMER:**

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<b>WESTERN RIVERSIDE COUNTY CODE UNIFORMITY PROGRAM</b>			
	<b>CATHEDRAL CITY</b>		
	<b>BUILDING DEPARTMENT</b>		
<b>RETAINING WALLS</b>			
68-700 AVENIDA LALO GUERRERO CATHEDRAL CITY, CA 92234-7031			
PHONE: (760) 770-0340	12/26/2006	RETWALLFINAL.VSD	PAGE 2 OF 2
FAX: (760) 202-1460			

## FOOTING OPTION "A"

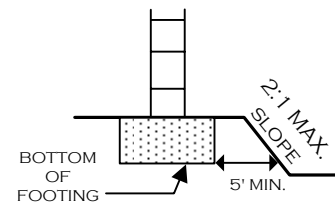
## FOOTING OPTION "B"



### THE FOLLOWING INSPECTIONS ARE REQUIRED:

- 1) **FOOTING**; EXCAVATION TRENCH CLEAN WITH STEEL IN PLACE AND SUPPORTED 3" ABOVE AND AWAY FROM THE SURROUNDING EARTH/DIRT.
- 2) **REBAR/PRE-GROUT**; BOND BEAM REBAR AND VERTICAL REBAR IN PLACE - INSPECTION PRIOR TO PLACING GROUT.
- 3) **FINAL**; AFTER GROUT IS PLACED - PRIOR TO ANY DECORATIVE CAP PLACEMENT.

ALL FOOTINGS ADJACENT TO SLOPES TO BE AT LEAST 5' TO DAYLIGHT AS SHOWN BELOW.




### NOTES:

- 1) FENCE HEIGHTS ARE REGULATED — CONSULT ZONING REGULATIONS BEFORE BEGINNING CONSTRUCTION.
- 2) NO WATER COURSE OR NATURAL DRAINAGE SHALL BE OBSTRUCTED.
- 3) ALL REBAR TO BE ASTM SPEC. A615, GRADE 40 MINIMUM.
- 4) ALL REBAR LAP SPLICES TO BE 24" MINIMUM.
- 5) ALL MASONRY UNITS TO BE ASTM C-90 GRADE N.
- 6) NOT DESIGNED FOR SURCHARGE LOADS FROM VEHICLES OR STRUCTURES.

### DISCLAIMER:

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\*SEE PAGE 2 FOR ADDITIONAL INFORMATION\*

<b>WESTERN RIVERSIDE COUNTY CODE UNIFORMITY PROGRAM</b>			
 Cathedral City <small>The Spirit of the Desert</small>		<b>CATHEDRAL CITY</b>	
		<b>BUILDING DEPARTMENT</b>	
		BLOCK WALL	
		ATOP 2' RETAINING WALL	
PHONE: (760) 770-0340		68-700 AVENIDA LALO GUERRERO CATHEDRAL CITY, CA 92234-7031	
FAX: (760) 202-1460	12/26/2006	COMBOFINALVSD	PAGE 1 OF 2

**REBAR PLACEMENT  
ILLUSTRATION**

(SEE PAGE 1 FOR SPECIFIC REQUIREMENTS)

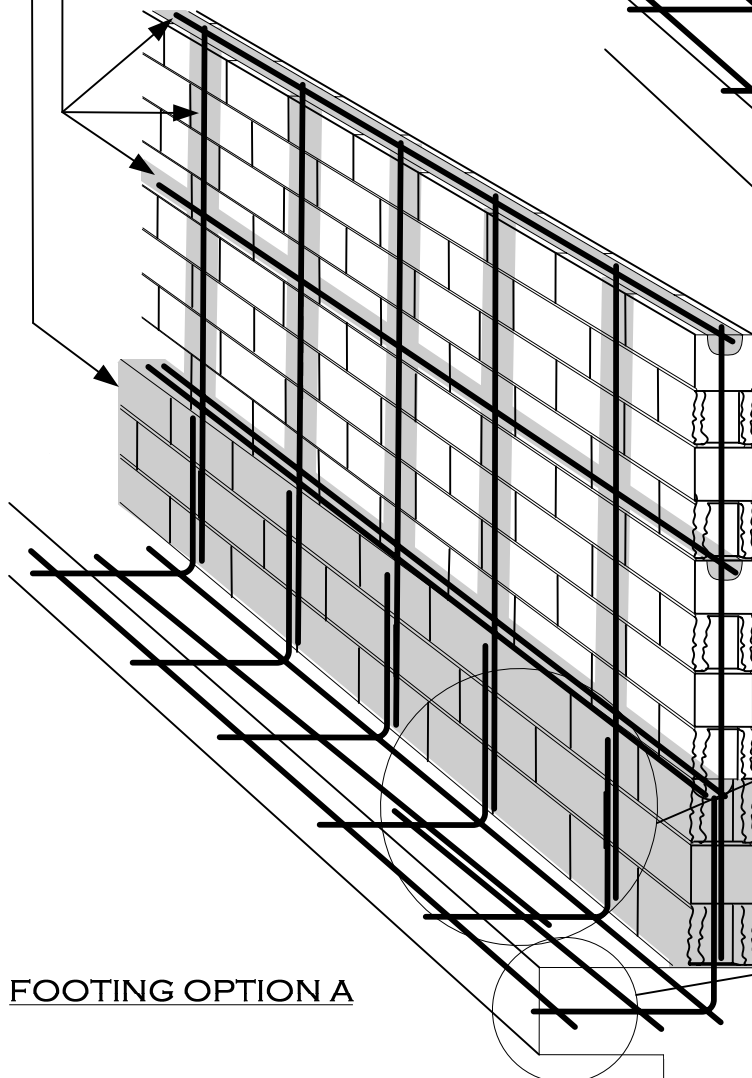
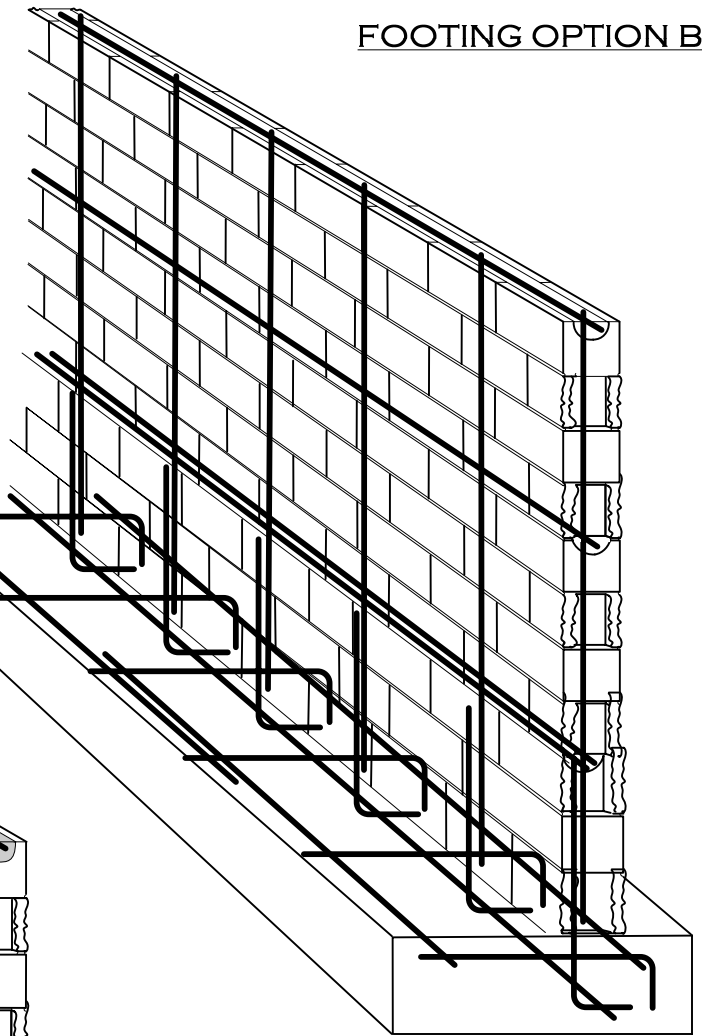
**FOOTING OPTION B**

(TYPICAL)

FOR THE RETAINING PORTION OF WALL  
ALL CELLS TO BE GROUTED

(TYPICAL)

FOR NON-RETAINING PORTION OF WALL  
ONLY CELLS AND BOND BEAM COURSES  
WITH REBAR TO BE GROUTED  
(USE GROUT STOP MESH AS APPROPRIATE)




(TYPICAL)  
ALL REBAR SPLICES  
24" MIN. OVERLAP

(TYPICAL)  
ALL REBAR SHALL HAVE A  
MINIMUM OF 3" CONCRETE COVER  
AT FOOTINGS

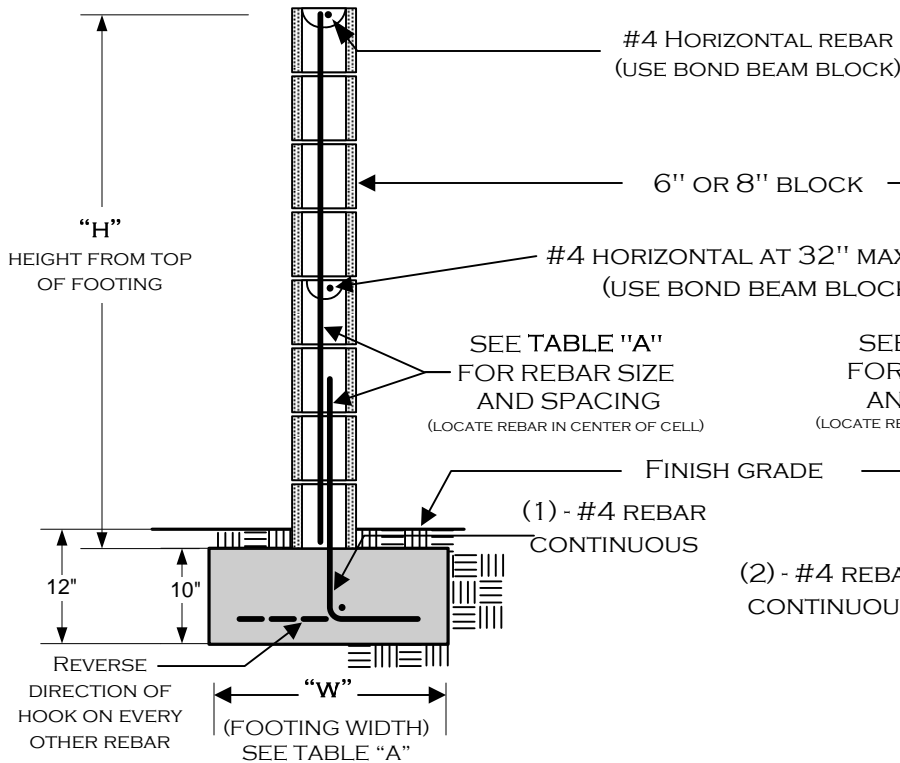
**FOOTING OPTION A**

**DESIGN PARAMETERS:**

- ACTIVE SOIL PRESSURE (PSF) = 30
- PASSIVE SOIL BEARING (PSF) = 150
- COEFFICIENT OF FRICTION = 0.25
- ALLOWABLE SOIL BEARING (PSF) = 1500
- WIND = 80 MPH, EXPOSURE C
- SEISMIC:  
NA=1.3, Nv=1.6, Z=0.4, SOIL PROFILE=SD

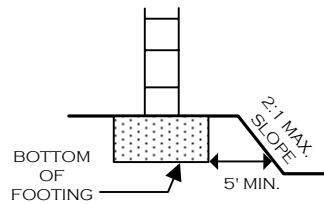
<b>WESTERN RIVERSIDE COUNTY CODE UNIFORMITY PROGRAM</b>			
	<b>CATHEDRAL CITY</b>		
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	<b>BLOCK WALL</b>		
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PHONE: (760) 770-0340	68-700 AVENIDA LALO GUERRERO CATHEDRAL CITY, CA 92234-7031		
FAX: (760) 202-1460	12/26/2006	COMBOFINALVSD	PAGE 2 OF 2

## FOOTING OPTION "A"

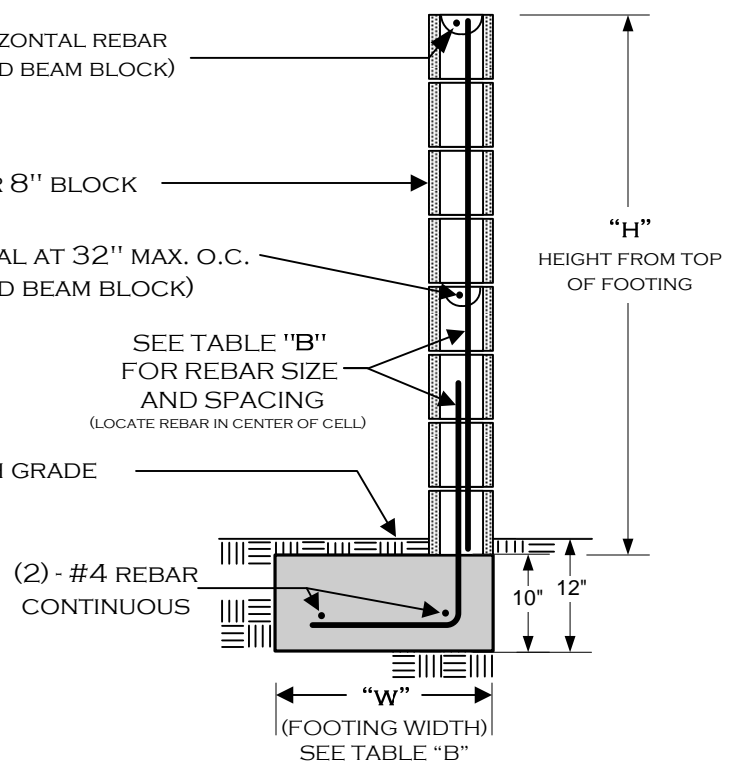


"H"	"W"	VERTICAL REINFORCEMENT
3'	17"	#4 @ 48" O.C.
4'	20"	#4 @ 48" O.C.
5'	23"	#4 @ 48" O.C.
6'	29"	#4 @ 24" O.C.

ALL FOOTINGS ADJACENT TO SLOPES TO BE AT LEAST 5' TO DAYLIGHT AS SHOWN BELOW.



## FOOTING OPTION "B"



"H"	"W"	VERTICAL REINFORCEMENT
3'	19"	#4 @ 48" O.C.
4'	22"	#4 @ 48" O.C.
5'	29"	#4 @ 48" O.C.
6'	34"	#4 @ 24" O.C.

### NOTES:

- 1) THIS DESIGN DOES **NOT** ALLOW GRADE DIFFERENTIALS OF MORE THAN 6" ON OPPOSING SIDES OF THE WALL. THIS IS **NOT** A RETAINING WALL.
- 2) FENCE HEIGHTS ARE REGULATED — CONSULT ZONING REGULATIONS BEFORE BEGINNING CONSTRUCTION.
- 3) NO WATER COURSE OR NATURAL DRAINAGE SHALL BE OBSTRUCTED.
- 4) GROUT **ONLY** THE CELLS CONTAINING REBAR. THIS WALL IS **NOT** DESIGNED FOR ALL CELLS TO BE GROUTED.
- 5) ALL REBAR TO BE ASTM SPEC. A615, GRADE 40 MINIMUM.
- 6) ALL REBAR LAP SPLICES TO BE 24" MINIMUM.
- 7) ALL MASONRY UNITS TO BE ASTM C-90 GRADE N.
- 8) REBAR TO BE CENTERED IN MASONRY CELLS.

\*SEE PAGE 2 FOR ADDITIONAL INFORMATION\*

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**CHECK WITH THE BUILDING DEPARTMENT TO VERIFY IF A BUILDING PERMIT IS REQUIRED.**

WHEN A PERMIT IS REQUIRED, THE FOLLOWING INSPECTIONS ARE REQUIRED:

- 1) **FOOTING**; EXCAVATION TRENCH CLEAN WITH STEEL IN PLACE AND SUPPORTED 3" ABOVE AND AWAY FROM THE SURROUNDING EARTH/DIRT.
- 2) **REBAR/PRE-GROUT**; BOND BEAM REBAR AND VERTICAL REBAR IN PLACE - INSPECTION PRIOR TO PLACING GROUT.
- 3) **FINAL**; AFTER GROUT IS PLACED - PRIOR TO ANY DECORATIVE CAP PLACEMENT.

### WESTERN RIVERSIDE COUNTY CODE UNIFORMITY PROGRAM



PHONE: (760) 770-0340

FAX: (760) 202-1460

### CATHEDRAL CITY

### BUILDING DEPARTMENT

### FREESTANDING BLOCK WALL

68-700 AVENIDA LALO GUERRERO  
CATHEDRAL CITY, CA 92234-7031

1/1/2008

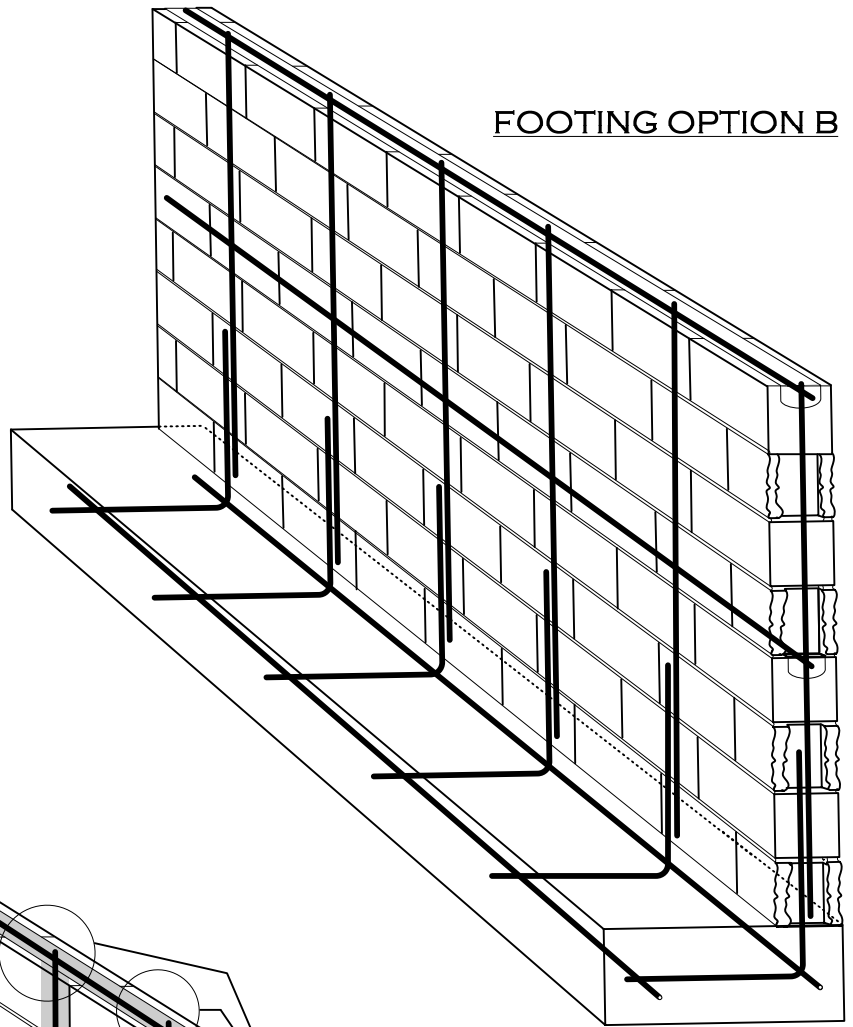
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PAGE 1 OF 2

# REBAR PLACEMENT ILLUSTRATION

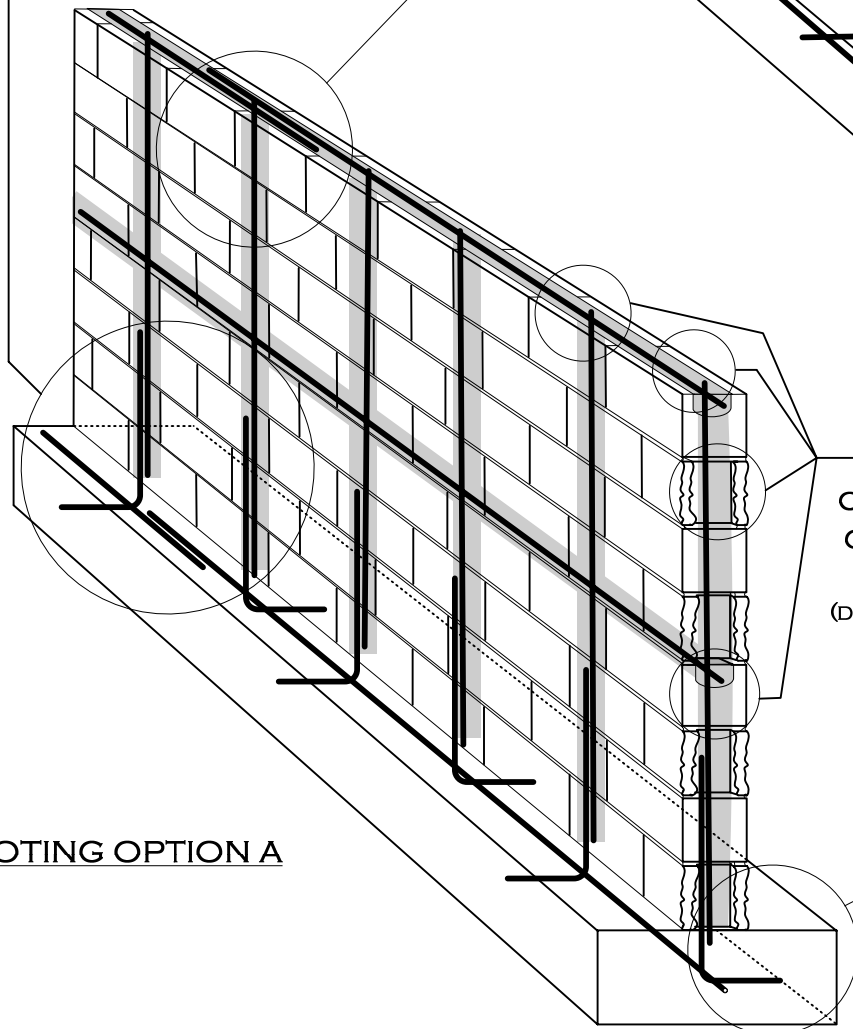
FOOTING OPTION B

(TYPICAL)  
ALL REBAR SPLICES  
24" MIN. OVERLAP



(TYPICAL)  
ONLY CELLS AND BOND BEAM  
COURSES WITH REBAR TO BE  
GROUTED  
(DO NOT SOLID GROUT ENTIRE WALL - USE  
GROUT STOP MESH AS APPROPRIATE)

FOOTING OPTION A



(TYPICAL)  
ALL REBAR SHALL HAVE A  
MINIMUM OF 3" CONCRETE  
COVER AT FOOTINGS

## DESIGN PARAMETERS:

ACTIVE SOIL PRESSURE (PSF) = 30  
 PASSIVE SOIL BEARING (PSF) = 150  
 COEFFICIENT OF FRICTION = 0.25  
 ALLOWABLE SOIL BEARING (PSF) = 1500  
 WIND = 85 MPH, EXPOSURE C  
 SEISMIC DESIGN CATEGORY 'E', SITE CLASS 'D'



WESTERN RIVERSIDE COUNTY CODE UNIFORMITY PROGRAM



**CATHEDRAL CITY**

**BUILDING DEPARTMENT**

**FREESTANDING BLOCK WALL**

68-700 AVENIDA LALO GUERRERO  
 CATHEDRAL CITY, CA 92234-7031

PHONE: (760) 7700340

FAX: (760) 202-1460



1/1/2008

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PAGE 2 OF 2