

**INTRODUCTION**

THE CITY OF DANA POINT STANDARD WALL PLAN APPLIES TO RETAINING WALLS, SITE RETAINING WALLS, AND BLOCK FENCES OVER 3 FEET HIGH AND LESS THAN 6 FOOT HIGH WITH A RETAINING CONDITION, MEASURED FROM THE BOTTOM OF FOOTING.

ANY OTHER CONFIGURATION WILL REQUIRE A STRUCTURAL DESIGN, PREPARED BY A REGISTERED PROFESSIONAL ENGINEER OR LICENSED ARCHITECT. BLOCK WALLS NOT INCORPORATION A RETAINING CONDITION MAY USE THE BLOCK WALL STANDARD # B050-BLOCK

WALLS THAT ARE CONSTRUCTED ON OR ADJACENT TO THE COMMON PROPERTY LINE REQUIRED TO PREPARE A "PARTY WALL AGREEMENT". PROJECTS WITHOUT AN RECORDED AGREEMENT BY THE ORANGE COUNTY RECORDER'S OFFICE WILL NOT BE ISSUED.

**THE "PARTY WALL AGREEMENT" NEEDS TO CONTAIN THE FOLLOWING INFORMATION:**

- IDENTIFY PROPERTY OWNERS
- IDENTIFY THE LEGAL DESCRIPTIONS OF THE AFFECTED LOTS
- PROVIDE A GENERAL DESCRIPTION OF THE LOCATION AND NATURE OF THE PARTY WALL (REFERENCE TO A PLAN OR DRAWINGS AS AN EXHIBIT WOULD BE PREFERRED)
- LANGUAGE EXPRESSING THE OWNERS' AGREEMENT
- LANGUAGE THAT ADDRESSES WHO IS RESPONSIBLE FOR MAINTENANCE, LIABILITY, ETC.
- A STATEMENT THAT THE AGREEMENT IS INTENDED TO RUN WITH THE LAND AND BENEFIT AND BURDEN BOTH LOTS, IN ACCORDANCE WITH CIVIL CODE SECTION 1468.

THE PARTY WALL AGREEMENT WILL BE SUBMITTED TO THE PLANNING DEPARTMENT FOR PROCESSING AND APPROVAL. UPON OBTAINING APPROVAL THE PARTY WALL AGREEMENT NEEDS TO BE SUBMITTED TO ORANGE COUNTY RECORDER'S OFFICE FOR RECORDATION BY THE APPLICANT.

THE DISCHARGE OF POLLUTANTS, CONSTRUCTION MATERIALS OR CONSTRUCTION BY-PRODUCTS ONTO CITY STREETS OR STORM DRAINS IS PROHIBITED

FINISH GRADE AROUND THE STRUCTURE SHALL BE SLOPED BY 2% AWAY FROM THE BUILDING FOR DRAINAGE PURPOSES

**THIS STANDARD PLAN CAN NOT BE USED WHEN ANY OF ONE OF THE FOLLOWING CONDITIONS EXIST: WALLS THAT SUPPORT ANY SURCHARGE, WALLS SUPPORTING A BACK SLOPE, WALLS THAT ARE LOCATED ON OR ABOVE A COASTAL BLUFF, WALLS THAT ARE LOCATED IN AN AREA WITH A HISTORY OF SLOPE FAILURE OR WALLS THAT ARE LOCATED WITHIN OR ADJACENT TO ANY FLOOD PLAIN OVERLAY DISTRICT.**

**GENERAL INFORMATION**

A SEPERATE PERMIT(S) IS/ARE REQUIRED FOR ACCESSORY BUILDINGS, SWIMMING POOLS, SHORING, RETAINING WALLS, BLOCK WALLS OVER 3 FEET IN HEIGHT, PATIO COVERS, DEMOLITION, ETC.

**CONCRETE MIX**

THE CONCRETE TRANSIT MIXED FOR FOOTINGS SHALL MEET THE STRENGTH OF F'c = 4500psi TYPE V. WATER/CEMENT RATIO OF 0.45, UNLESS A SOILS REPORT RECOMMENDS OTHERWISE PORTLAND CEMENT SHALL CONFORM TO ASTM C 150, TYPE V. DEPUTY INSPECTION IS NOT REQUIRED. PROVIDE A "TRIP" TICKET BATCH PLANT RECEIPT FOR VERIFICATION OF CONCRETE MIX (4500psi, TYPE V)

**CONCRETE BLOCK**

GRADE "N" UNITS ASTM C-90 f'm=1,500 PSI

**MORTAR MIX**

MORTAR SHALL BE FRESHLY PREPARED AND UNIFORMLY MIXED IN THE RATIO BY VOLUMES OF 1 PART CEMENT, 1/2 PART LIME PUTTY, 4 1/2 PARTS SAND AND SHALL CONFORM TO ASTM C 270. IF PLASTIC TYPE CEMENT IS USED, THE LIME PUTTY SHALL BE OMITTED. CELLS WITH REINFORMENT SHALL NOT CONTAIN MORTAR PROJECTIONS OVER 1/4".

**GROUT MIX**

GROUT SHALL BE OF FLUID CONSISTANCY. RATIO BY VOLUMES 1 PART CEMENT, 3 PARTS SAND OR 1 PART PORTLAND CEMENT, 3 PARTS SAND, 2 PARTS PEA GRAVEL (3/8" AGGREGATE). UNITS SHALL BE LAID A MAXIMUM OF 4 FEET BEFORE GROUTING. LIFTS UP TO 5 FEET MAY BE ALLOWED WITH THE USE OF CLEANOUTS AT THE REINFORCEMENT CELLS.

**REINFORCING STEEL**

REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A 615 GRADE 60 FOR #5 AND LARGER AND ASTM GRADE 40 FOR #4 AND SMALLER. LAP SPLICES SHALL LAP A MINIMUM OF 24" OR 40 TIMES THE DIAMETER, WHICH EVER IS GREATER.

**WALL DRAINAGE**

PROVISIONS SHALL BE MADE TO RELIEVE HYDROSTATIC PRESSURE VIA A SUB DRAIN LOCATED BEHIND THE WALL. INSTALL A 4" PERFORATED DRAIN LINE WITH FILTER FABRIC AND A MINIMUM 12" WIDE GRAVEL BACKFILL OR LEAVE OUT THE HEAD JOINTS IN THE FIRST COURSE OF BLOCK EVERY 32" AT GRADE LEVEL.

**FOOTINGS**

FOOTING DESIGN IS BASED ON 1,500 PSF BEARING PRESSURE MAXIMUM WITHOUT A SOILS REPORT.

**INSTRUCTIONS:**

1. **FILL IN TITLE PAGE**
2. **DRAW THE SITE PLAN ON PAGE 2, SHOW LOCATION AND LENGTH OF WALLS.**
3. **INDENTIFY WHICH DETAILS ARE BEING USED ON PAGE 3**

OWNER'S NAME

OWNER'S ADDRESS

CITY, STATE, ZIP

OWNER'S PHONE NUMBER

APN #

CONTRACTOR'S NAME

LIC. NUMBER

CONTRACTOR'S ADDRESS

CITY, STATE, ZIP

TOTAL AREA OF ALTERATION

HOMEOWNERS ASSOCIATION APPROVAL  YES  NO

SCOPE OF WORK:

**PLEASE READ AND SIGN**

THE OWNER AND/OR CONTRACTOR, AS THE APPLICANT FOR THIS PERMIT, HAS READ AND UNDERSTANDS THE INFORMATION ON THESE PAGES AND AGREE TO CONSTRUCT THE PROPOSED WALLS AS SHOWN ON THESE PLANS.

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

NOTE: THESE PLANS WILL BE REVIEWED FOR COMPLIANCE TO THE DESIGN ASSUMPTIONS OF THIS HANDOUT AND FOR CODE COMPLIANCE BASE ON THE APPLICANT'S PROVIDED INFORMATION. SITE CONDITONS THAT DIFFER FROM THE INFORMATION PROVIDED MAY REQUIRE ADDITIONAL REVIEW, FEES AND SEPERATE APPROVALS.

ALL WORK SHALL CONFORM TO THE:  
2016 CALIFORNIA BUILDING CODE  
2016 CALIFORNIA PLUMBING CODE  
2016 CALIFORNIA MECHANICAL CODE  
2016 CALIFORNIA ELECTRICAL CODE  
2016 CALIFORNIA ENERGY EFFICIENCY STANDARDS  
AND THE CITY OF DANA POINT LOCAL ORDINANCES

SIGNATURE OF OWNER/APPLICANT

DATE

RETAINING WALL STANDARD

2016 CBC  
CODE CYCLE

B051-RETAINING  
FORM

CITY OF DANA POINT  
COMMUNITY DEVELOPMENT, BUILDING and SAFETY  
DIVISION

33282 GOLDEN LANTERN SUITE 209 DANA POINT, CA 92629



SECTIONS

SHEET 1 OF 3

Grid area for drawing content.



**SECTIONS**  
SHEET 2 OF 3

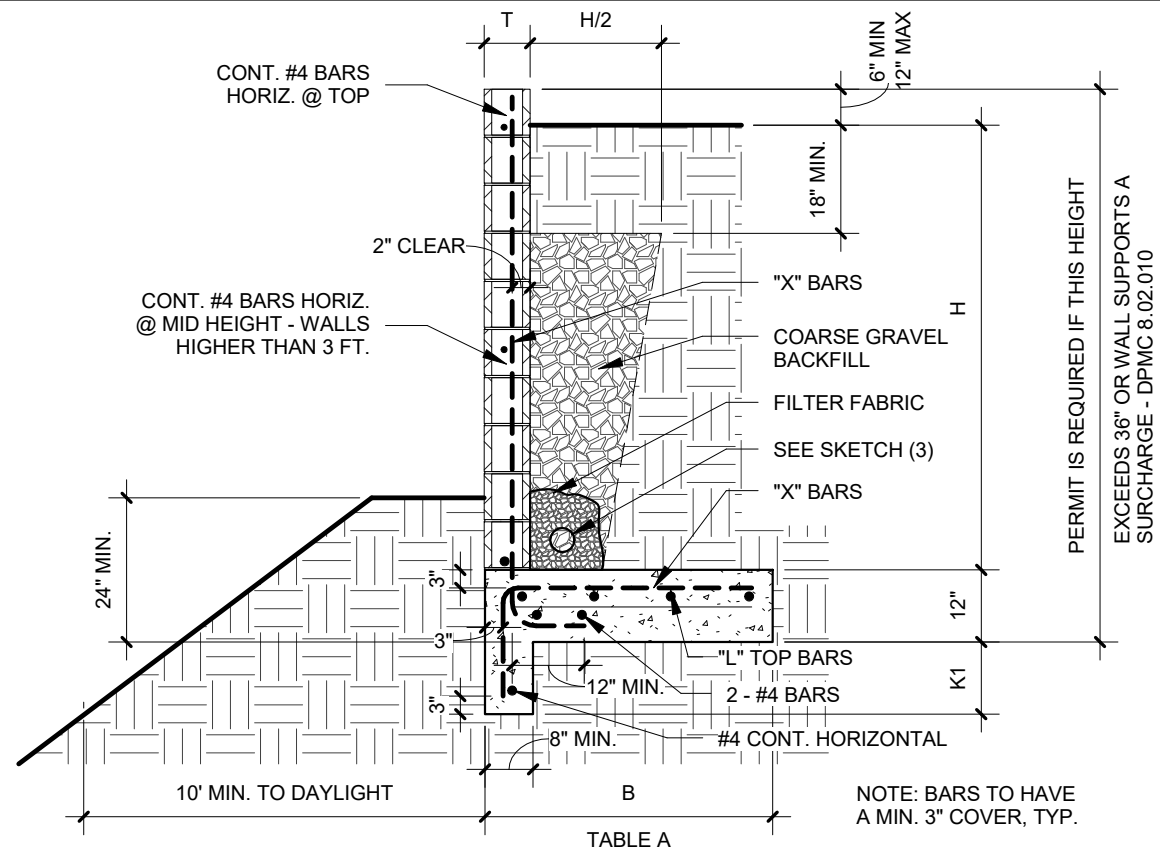
**CITY OF DANA POINT**  
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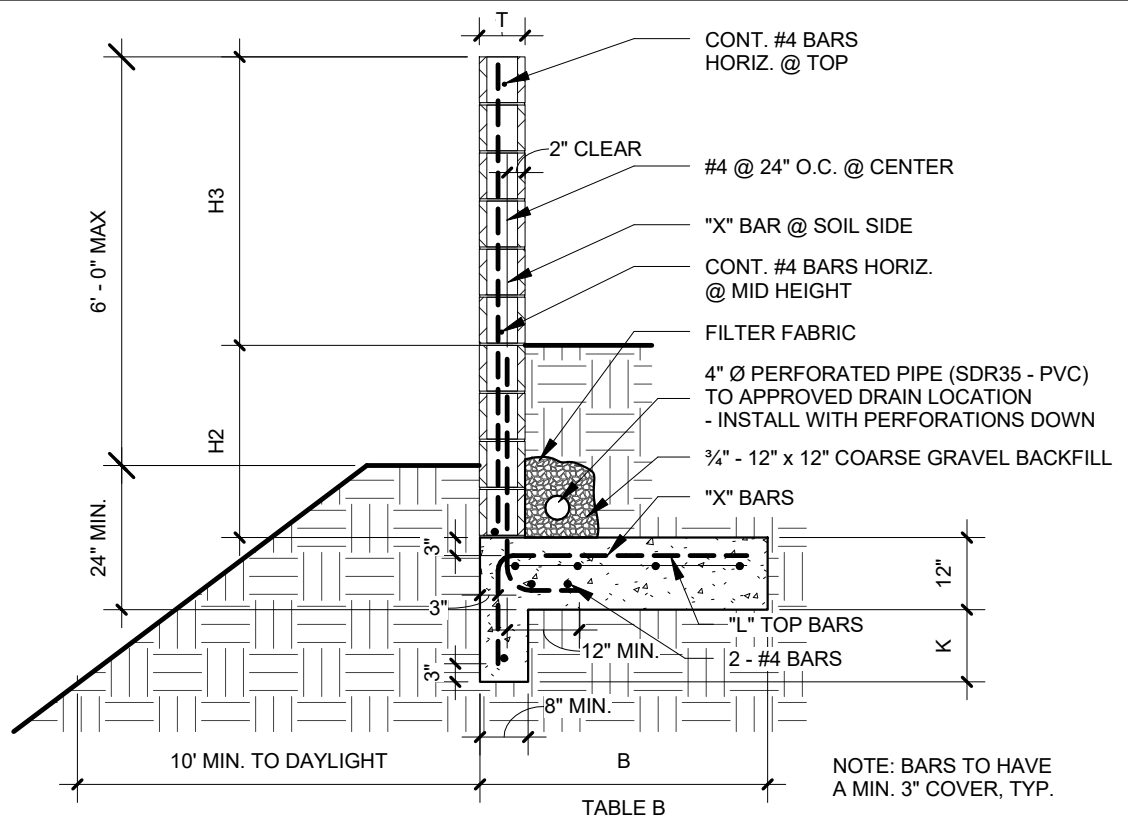
**RETAINING WALL STANDARD**

**B051-RETAINING  
FORM**

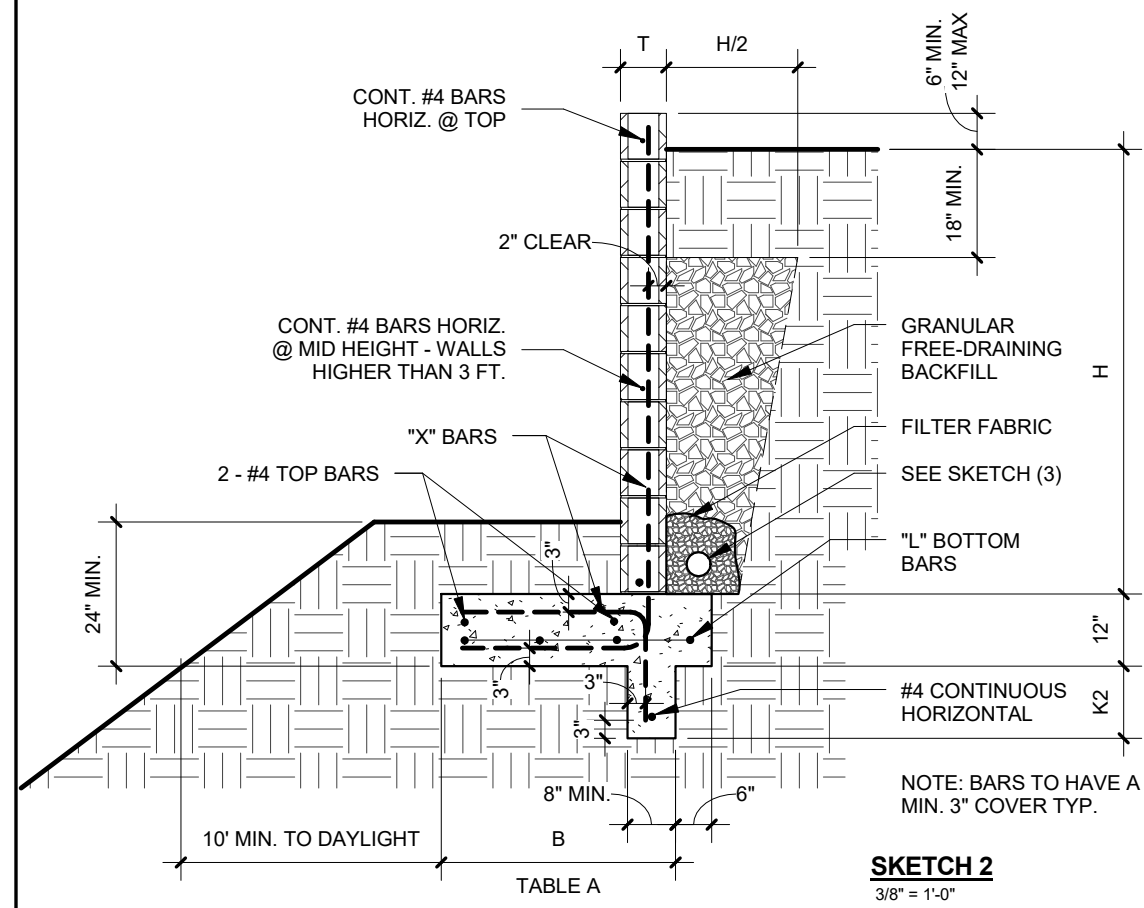
**2016 CBC  
CODE CYCLE**



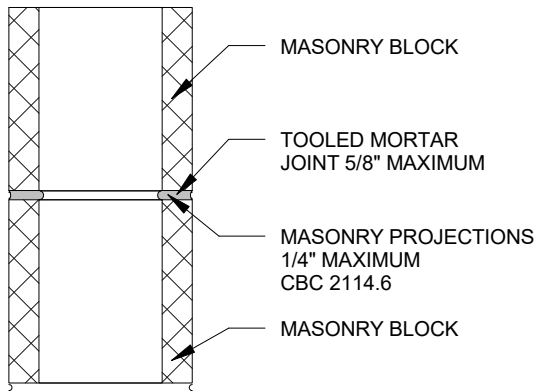
**SKETCH 1**  
3/8" = 1'-0"



**SKETCH 3**  
3/8" = 1'-0"



**SKETCH 2**  
3/8" = 1'-0"



PRIOR TO GROUTING, THE GROUT SPACE SHALL BE CLEAN SO THAT ALL SPACES TO BE FILLED DO NOT CONTAIN MORTAR PROJECTIONS, MORTAR DROPPINGS, AND/OR OTHER FOREIGN MATERIALS, WALLS WITH EXCESS MORTAR DROPPINGS OR DEBRI WILL REQUIRE CLEANOUTS

**MORTAR JOINT DETAIL**  
1 1/2" = 1'-0"

MIN BAR LAP	
#3 & #4	24"
#5	25"

RETAINING WALL INFORMATION TABLE A						
H	B	T	X	L	K1	K2
>2' - 3'	3' - 0"	6"	#3 @ 24" O.C.	3 - #4	-	12"
>3' - 4'	3' - 8"	8"	#4 @ 24" O.C.	4 - #4	8"	18"
>4' - 5'	4' - 8"	8"	#5 @ 16" O.C.	4 - #5	12"	24"

SEE SKETCH (1) & (2)

FENCE / WALL INFORMATION TABLE B						
H3	H2	B	T	X	L	K
4' - 5'	1' - 2'	3' - 8"	8"	#4 @ 24" O.C. @ CL	4 - #4	-
3' - 4'	2' - 3'	4' - 0"	8"	#4 @ 16" O.C. @ CL	4 - #4	12"
2' - 3'	3' - 4'	4' - 6"	8"	#5 @ 16" O.C. @ CL	4 - #4	16"

SEE SKETCH (3)

VERTICAL BARS SHALL BE LAPPED 2 FEET WHERE NOT CONTINUOUS. ALL HOOKS SHOWN SHALL BE STANDARD 90° HOOKS. SOLID GROUT ALL CELLS FOR THE ENTIRE WALL  
**DESIGN BASED ON 60 PCF ACTIVE SOIL PRESSURE**

**INSTRUCTIONS:**  
HIGHLIGHT OR CIRCLE BOTH THE WALL SECTION TO BE USED AND THE WALL HEIGHT OF THE APPLICABLE TABLE.

**NO SURCHARGE ALLOWED**

**RETAINING WALL STANDARD**

2016 CBC  
B051-RETAINING FORM  
CODE CYCLE

**CITY OF DANA POINT**  
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