

**FOUNDATION PLAN**

SCALE: 1/4"=1'

**FOUNDATION NOTES**

1. THE SPECIFICATIONS AND NOTES ON SHEET SD0, THE TYPICAL STRUCTURAL DETAILS ON ALL SHEETS, AND THE FOLLOWING NOTES APPLY TO THE WORK OF THE FOUNDATION.
2. ALL FOUNDATION RECOMMENDATIONS ARE BASED ON THE SOILS REPORT LISTED ON SHEET S-02. IF THE REPORT'S RECOMMENDATIONS ARE MODIFIED IN ANY WAY, THE ENGINEER OF RECORD AND THE ARCHITECT SHALL BE NOTIFIED. THE REQUIREMENTS OF THE SOILS REPORT SHALL GOVERN WHEN THEY ARE MORE STRINGENT THAN THE REQUIREMENTS OF THESE PLANS.
3. FOOTINGS SHALL BE EXAMINED AND CERTIFIED IN WRITING BY THE PROJECT SOIL / GEOLOGY ENGINEER PRIOR TO PLACEMENT OF CONCRETE OR CALLING FOR INSPECTION BY THE JURISDICTION.
4. ALL FOUNDATION HARDWARE AND REINFORCEMENT SHALL BE SECURELY TIED IN PLACE PRIOR TO FOUNDATION INSPECTION AND POURING CONCRETE.
5. SLOPE THE GARAGE TO DRAIN PER ARCHITECTURAL PLANS.
6. SAWCUT JOINTS ARE RECOMMENDED AT 15' O.C. MAX IN EACH DIRECTION IN CONVENTIONAL (NON-PI) FOUNDATIONS. ADDITIONAL JOINTS MAY BE ADDED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICES AND CONTRACTOR EXPERIENCE.
7. DO NOT INSTALL PLUMBING IN SHEAR WALLS.
8. ALL FINISH, FLAT WORK, PLUMBING, AND GRADE ADJACENT TO THE BUILDING SHALL BE GRADED TO CARRY WATER AWAY FROM THE BUILDING.

**FOUNDATION LEGEND**

1. SHEAR WALL CALLOUT INDICATES SHEAR WALL TYPE, LOCATION, AND LENGTH OF SHEAR PANEL. REFER TO DETAIL 1/SD0, SHEAR SCHEDULE AND ANCHOR BOLT SCHEDULE FOR MORE INFORMATION.
2. INDICATES SHEAR PANEL APPLIED TO ENTIRE WALL, INCLUDING ABOVE AND BELOW WALL OPENING PER DETAIL 1/SD0. INSTALL ANCHOR BOLTS OR SHEAR TRANSFER AT BOTTOM PLATE ALONG FULL LENGTH OF WALL.
3. INDICATES POST AND SIMPSON HOLDOWN ANCHOR/STRAP. INSTALL HOLDOWN ANCHOR PER MANUFACTURER'S RECOMMENDATIONS AND DETAIL 1/SD1.
4. DETAIL #  
STRUCTURAL DETAIL.  
REFER TO DETAIL NUMBER AND SHEET NUMBER INDICATED.
5. FOOTING BELOW. SEE SCHEDULE.  
SLAB ON GRADE. SEE SCHEDULE.  
SLAB EDGE OR CHANGE IN ELEVATION.

**FOOTING & SLAB SCHEDULE**

DESCRIPTION	W x D (in.) (SEE DETAILS ON SHEET SD1)	REINFORCEMENT
EXT. CONT.	12 X 18	2-#4 T & B
INT. CONT.	12 X 18	2-#4 T & B
ISOLATED PAD	24" SQ MIN. X 18" D MIN.	#5 @ 12" O.C. E. W.
GRADE BM.	MATCH PERIMETER FOOTING	MATCH PERIMETER FTG.
TIE BEAM	12 X 18	2-#4 T & B
SLAB ON GRADE*	4" MIN	#3 @ 18" O.C. @ SLAB CENTERLINE

\* PER THE GEOTECHNICAL REPORT, CONCRETE SLABS IN MOISTURE SENSITIVE AREAS SHOULD BE UNDERLAIN WITH A VAPOR BARRIER CONSISTING OF 6 MIL POLYETHYLENE CHLORIDE MEMBRANE WITH ALL LAPS SEALED, AND A MINIMUM 2" SAND OVER THE MEMBRANE. ALL SUBGRADE PREPARATION (SAND, VAPOR BARRIER, COMPACTION, ETC.) SHALL BE CONFIRMED WITH THE FINAL GEOTECHNICAL REPORT.

**TYPICAL FOUNDATION DETAILS, UNO**

DESCRIPTION	DETAIL	DESCRIPTION	DETAIL
PERIMETER FOOTING	A SD1	ANCHOR BOLTS	15 SD1
INTERIOR FOOTING	A1 SD1	FOOTING AT STONE/BRICK VENEER	24 SD6
HOLD DOWN ANCHOR	1 SD1		

**ANCHOR BOLT SCHEDULE - 2013 CBC**

SHEAR WALL DESIGNATION	NO. SHEAR					
	A/D	6	4	3	2	1
FOOTINGS		B	B	BE	BE	BE
CONSTRUCTION						
BOLT DIAMETER (INCHES)	1/2	5/8	5/8	5/8	5/8	3/4
SPACING (INCHES O.C.)	48	16	16	16	12	16
PLATE WASHER						
SQUARE SIZE (INCHES)	2	3	3	3	3	3
THICKNESS (INCHES)	3/16	0.229	0.229	0.229	0.229	0.229
MUD SILL	2x	2x	2x	3x	3x	3x

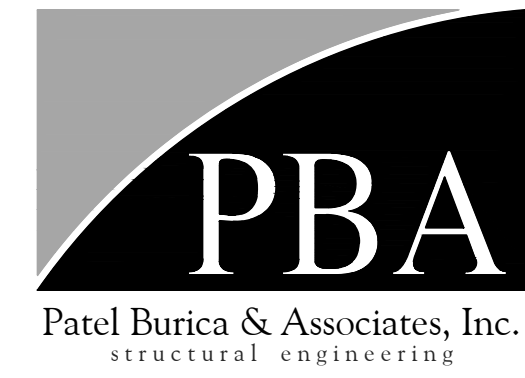
**FOOTING NOTES:**

- FOR INTERIOR NON-SHEAR WALLS, SHOT PINS MAY BE USED IN LIEU OF ANCHOR BOLTS. USE 0.145" SHOT PINS @ 24" O.C. MIN. WITH MIN. 1.25" PENETRATION INTO CONCRETE (CC-ES REPORT #2379).
- THE HOLE IN 3" SQUARE PLATE WASHERS FOR ANCHOR BOLTS MAY BE DIAGONALLY SLOTTED WITH A WIDTH OF UP TO 3/8" LARGER THAN THE BOLT DIAMETER AND A SLOT LENGTH NOT TO EXCEED 1/2". PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND THE NUT.
- NOT USED
- STANDARD CUT WASHERS ARE PERMITTED PER ANS/A4 AND PA SDPW-2008 TABLE A2.
- PERIODIC SPECIAL INSPECTION IS REQUIRED FOR NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF COMPONENTS OF THE SHEAR WALL PER 1705.10 & 1705.11, EXCEPT FOR GROUP 1 OCCUPANCIES THAT ARE ACCESSORY TO A RESIDENTIAL OCCUPANCY, INCLUDING BUT NOT LIMITED TO THOSE LISTED IN SECTION 312.1.

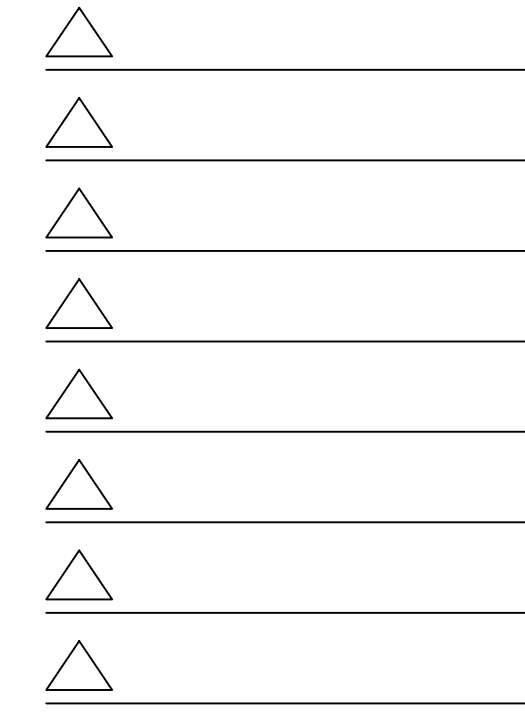
ONE OR TWO FAMILY DWELLINGS NOT EXCEEDING TWO STORES ABOVE GRADE PLANE, PROVIDED THEY DO NOT HAVE TORSIONAL IRREGULARITY, NON-PARALLEL SYSTEMS, STIFFNESS IRREGULARITY, OR DISCONTINUITY IN CAPACITY.

THE SPECIFIED FOOTING EMBEDMENT DEPTH, D, SHALL BE MEASURED FROM THE LOWEST ADJACENT FINAL COMPACTED OR NATURAL GRADE WITHIN 5' OF THE BUILDING FOOTPRINT. SLOPES OF ADJACENT AREAS SHALL BE CONSIDERED WHEN DETERMINING THIS MINIMUM EMBEDMENT DEPTH REQUIREMENT.

REFER TO GRADING PLANS FOR LOCATIONS OF DEEPEMED FOOTINGS. DEEPEMED FOOTINGS SHALL BE CONSTRUCTED PER DETAIL A/SD1, UNO. CONTACT PBA IF DEEPEMED FOOTINGS ARE NEEDED.

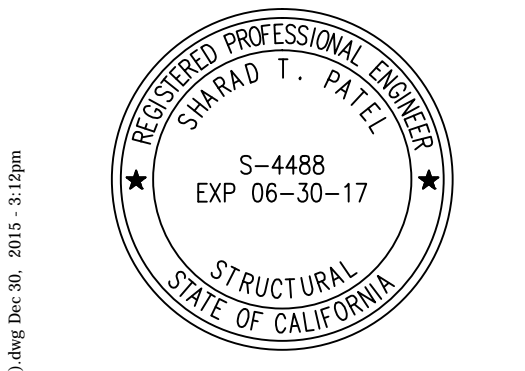


9283 Research Drive  
Irvine, California 92618  
Tel: 949.943.8080  
Fax: 714.352.2209



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**SINGLE FAMILY HOUSE**  
**BOWDEN DEVELOPEMENT**  
**1600 HIGHLAND OAKS**  
**ARCADIA, CA 91006**  
**FOUNDATION PLAN**



JOB NO.: 1019.1 BDI  
FILE NAME: 1019.1 BDI S1  
PROJ. ENGR: KN  
DRAWN BY: EJ  
ORIGINAL ISSUE: 01-04-2016

**S1**

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