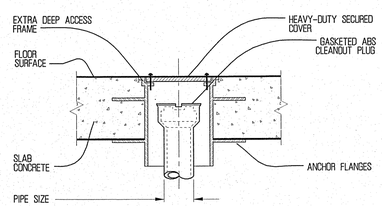
PLUMBING NOTES:

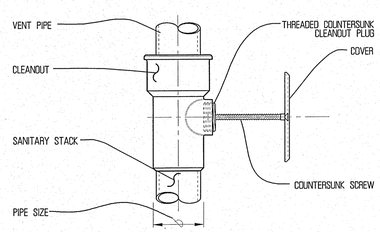
1. THE ENGINEER CERTIFIES THAT TO THE BEST OF HIS KNOWLEDGE, ALL WORK DEPICTED IS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2007. INSTALLATION SHALL COMPLY WITH STANDARDS SETFORTH THEREIN.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EQUIPMENT DESIGN REQUIREMENTS (I.E. VOLTAGE, WATER, DRAINS, GAS CONNECTIONS, ETC.) WHEN REQUIRED FOR THE CORRECT/APPROVED OPERATION. THE EQUIPMENT SHALL BE FURNISHED WITH ALL NECESSARY ACCESSORIES WHETHER CONSIDERED OPTIONAL OR STANDARD BY THE MANUFACTURER. EQUIPMENT SHALL NOT BE ORDERED BASED ON MANUFACTURERS' MODEL NUMBERS.
3. ALL MATERIALS AND EQUIPMENT SHALL BE NEW,FREE FROM DEFECTS AND WITH FACTORY WARRANTY.PRODUCTS SHALL BEAR RESPECTIVE A.S.T.M. STANDARD LABELS AND INSTALLED AS PER LISTINGS UNDER.
4. INSTALL PIPING AND EQUIPMENT ALLOWING ADEQUATE ACCESS FOR SERVICE TO VALVES AND EQUIPMENT OF OTHER TRADES. PROVIDE U.L. LISTED ACCESS PANELS IN WALLS AND CEILINGS WHERE ACCESS IS REQUIRED.
5. INSTALL SANITARY LINES AS TO DRAIN WITH SLOPES OF NOT LESS THAN 1/8" PER FOOT FOR 3" AND ABOVE AND 1/4" PER FOOT FOR 2" OR LESS.
6. INSTALL CLEAN-OUTS AS INDICATED ON DRAWINGS AND AT EVERY 60 FEET, BASES OF STACKS AND CHANGES OF DIRECTIONS.
7. SANITARY, VENT AND RAIN WATER LEADER PIPING SHALL BE SCHEDULE 40 PVC SOIL PIPE WITH DRAINAGE TYPE FITTINGS, SOLVENT WELDED. PRIME FITTINGS AND PIPE ENDS PRIOR TO WELDING. EXCEPTION: IN AIR CONDITIONING PLENUMS, i.e. MECHANICAL ROOMS, CAST IRON PIPING SHALL BE USED.
8. DOMESTIC WATER PIPE SHALL BE TYPE L ABOVE GROUND AND TYPE K BELOW GROUND. SOLDER FITTINGS USING LEAD-FREE SOLDER..
9. PROVIDE EXPANSION AIR CHAMBERS OF 20 PIPE DIAMETERS BUT NOT LESS THAN 12".INSTALL AT EACH FIXTURE,GROUP OF FIXTURES, RISERS AND END OF SUPPLY LINES. PROVIDE SHOCK ARRESTOR SIZED PER P.D.I. STANDARDS FOR ALL QUICK CLOSING FIXTURE. INCLUDING DISHWASHER, ICE MACHINE AND WASHING MACHINE.
10. ISOLATE COPPER PIPING FROM DISSIMILAR METALS,MASONRY OR CONCRETE WITH FOAM PLASTIC, FIRE RETARDANT INSULATION OR SIMILAR METHODS APPROVED BY LOCAL JURISDICTION.
11. CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 PVC DRAINAGE PIPE OF 1-1/4" (2" BELOW GROUND). USE DWV COPPER PIPE WITH INSULATION. IN A/C PLENUMS.
12. PROVIDE PIPE SLEEVES FOR ALL CEILING, FLOORS OR WALL PENETRATIONS. PACK WITH FIRE RETARDANT CAULKINGS IN CONFORMANCE TO U.L. SPECIFICATIONS FOR SUCH APPLICATIONS. 3M OR EQUAL.
13. PLUMBING FIXTURES SHALL BE FIRST GRADE VITROUS CHINA COMFORMING TO ANSI STANDARDS. FURNISH CARRIERS, TRAPS, VALVES AND ALL TRIM. COMPLY WITH A.D.A. REQUIREMENTS. AMERICAN STANDARD OR EQUAL.
14. PROVIDE ANTI SCALD VALVES FOR ALL TUBS AND SHOWER HEADS

PLUMBING LEGEND

- COLD WATER
- HOT WATER
- SANITARY
- C.O. — CLEANOUT
- CONNECT TO EXISTING
- PIPE DOWN
- PIPE UP
- FLOOR DRAIN W/"P" - TRAP
- FIXTURE TRAP
- CD — CONDENSATE DRAIN LINE
- VENT LINE
- HOSE BIBB
- SHUT-OFF GATE VALVE
- SHUT-OFF VALVE IN VALVE BOX



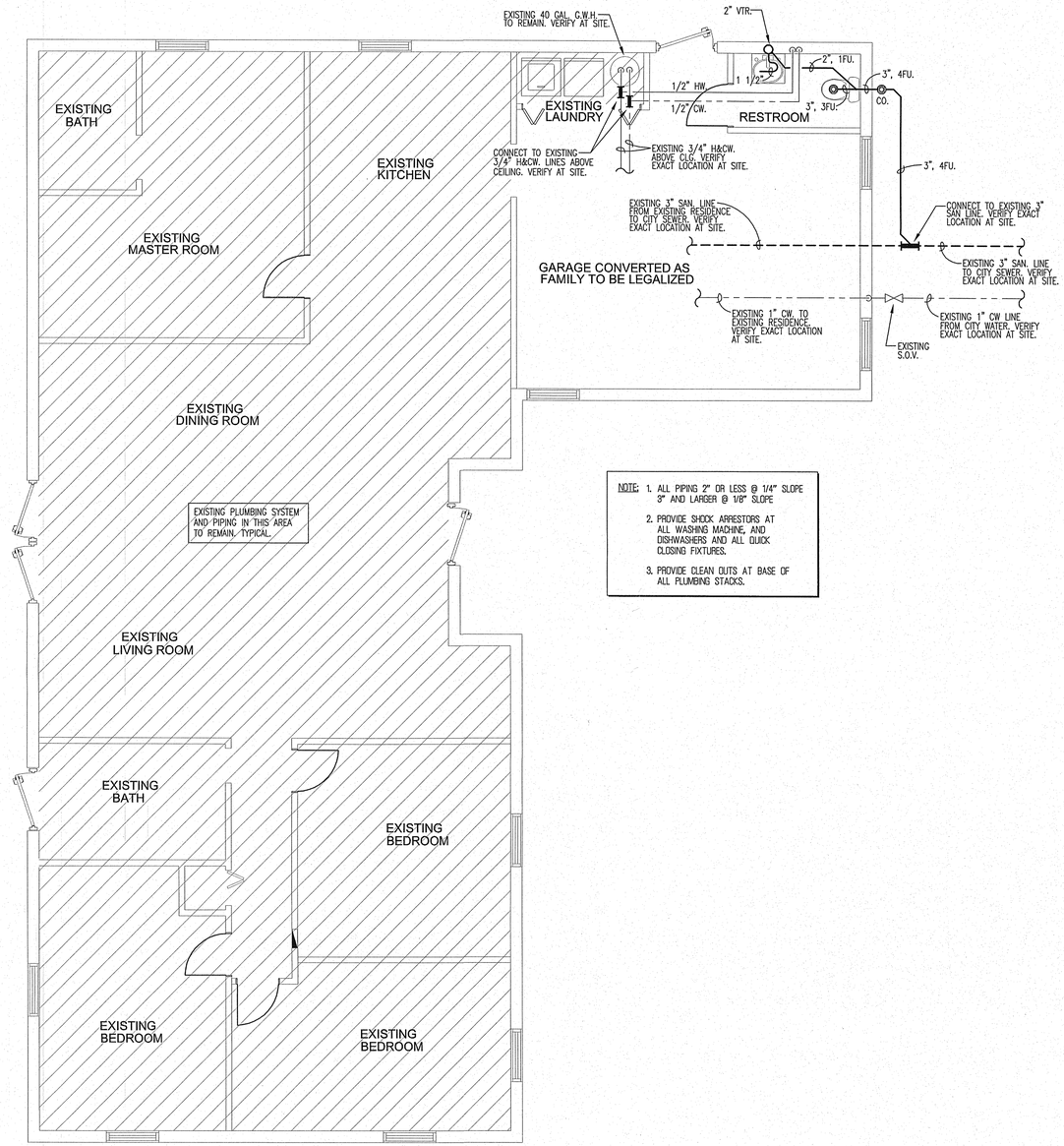
ACCESS COVER WITH CLEANOUT



CLEANOUT TEE & ACCESS COVER

CLEAN-OUT DETAILS

N.T.S.



NOTE:
1. ALL PIPING 2" OR LESS @ 1/4" SLOPE 3" AND LARGER @ 1/8" SLOPE
2. PROVIDE SHOCK ARRESTORS AT ALL WASHING MACHINE, AND DISHWASHERS AND ALL QUICK CLOSING FIXTURES.
3. PROVIDE CLEAN OUTS AT BASE OF ALL PLUMBING STACKS.

PLUMBING FLOOR PLAN

SCALE: 1/4"=1'-0"

NORTH

CT ENGINEERING

CARLOS TILLAN
1154 SW 156 PL
MIAMI, FLORIDA . 33196
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PROJECT: GARAGE CONVERSION TO FAMILY

MARLENE CAMPBELL

16000 SW 100TH CT MIAMI, FL 33157

DATE:	NOV 07-2011
REVISIONS:	
SCALE:	AS SHOWN
DRAWN BY:	C.T.
CHECKED BY:	C.T.

CARLOS TILLAN
PROFESSIONAL . ENGINEER
PE. #68869

SHEET TITLE:

PLUMBING FLOOR PLAN NOTES AND DETAILS

PAGE: #

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Examiner	Date Time Stamp	Disp.	Trade	Stamp Name
Francisco Borges	11/14/2011 9:05:26 AM	D	PLUM	Disapproved