CITY OF HUNTINGTON BEACH - DEPARTMENT OF PLANNING & BUILDING

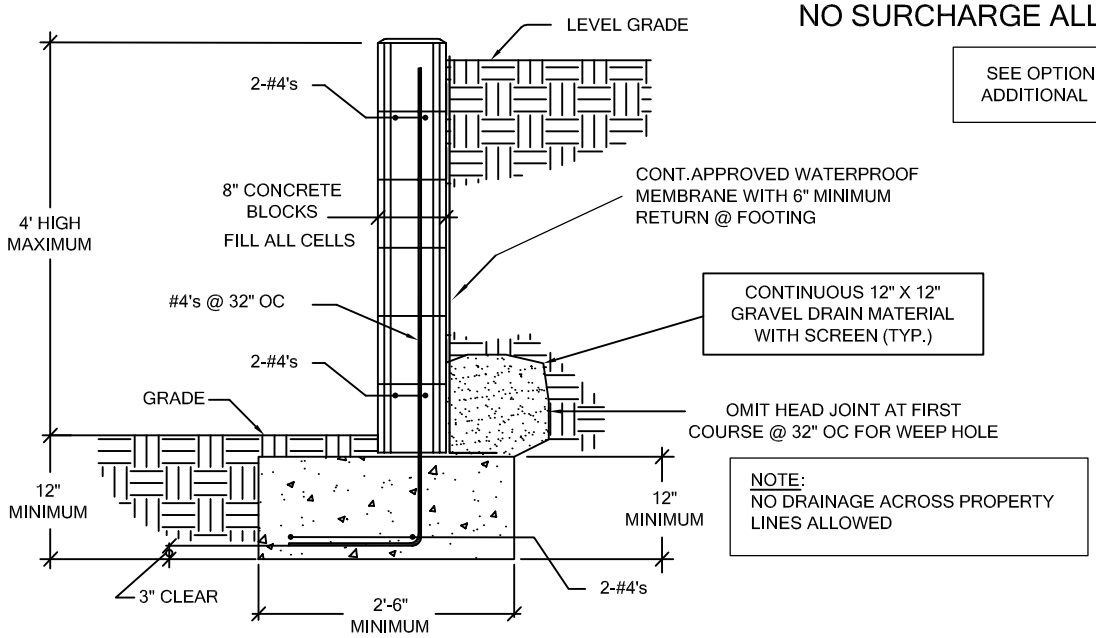
PLAN NO. 3

# CITY STANDARD PLAN
# 4'-0" HIGH MAX RETAINING WALL


REVISED: 01/25/10

NO SURCHARGE ALLOWED

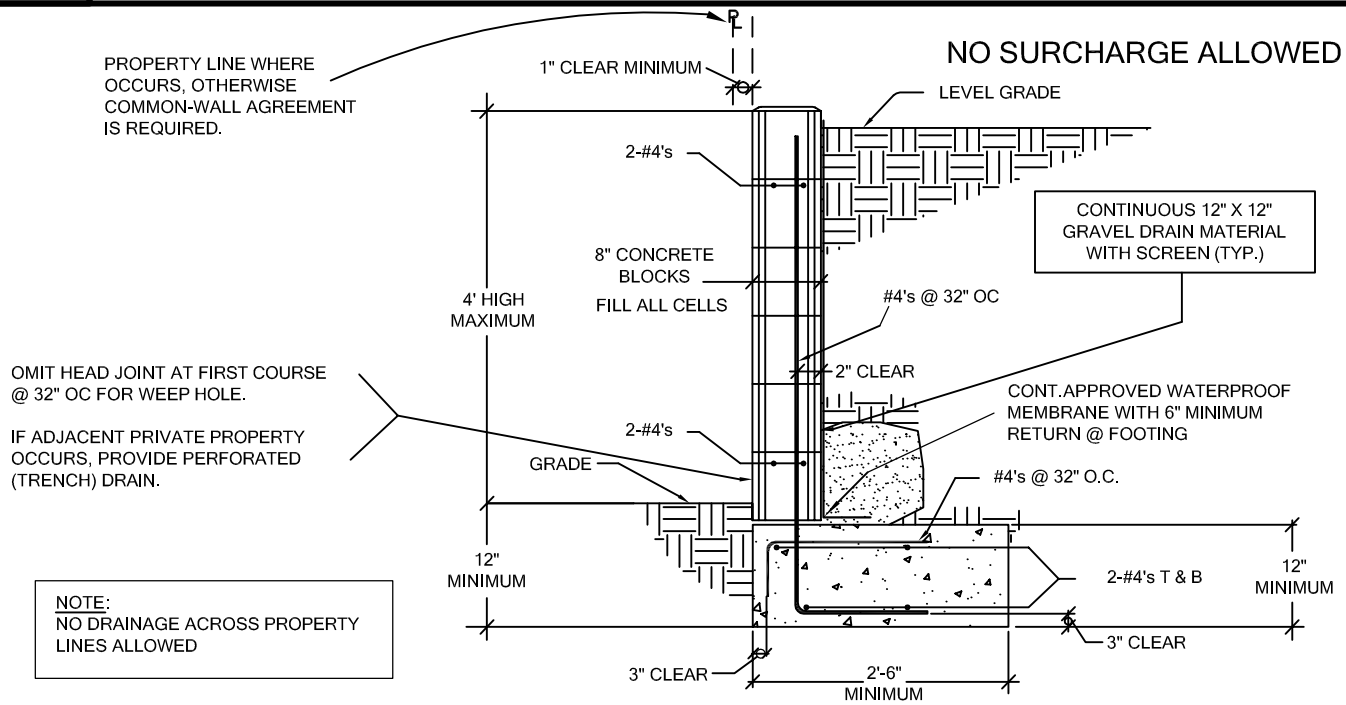
SEE OPTION 2 FOR ADDITIONAL NOTES




NOTE -- ENGINEERING CALCULATION AND DETAILS REQUIRED FOR ALL RETAINING WALLS OTHER THAN SHOWN ON THIS SHEET.

OPTION 1

NO SURCHARGE ALLOWED




NOTE -- ENGINEERING CALCULATION AND DETAILS REQUIRED FOR ALL RETAINING WALLS OTHER THAN SHOWN ON THIS SHEET.

DESIGN FOR LEVEL GRADE ONLY AT TOP OF WALL (2007 CBC)

- CONCRETE STRENGTH 2,500 PSI MINIMUM AGE TESTED AT 28 DAYS.
- CONCRETE BLOCK - GRADE 'N' UNITS A.S.T.M. C-90
  GROUT - 1 PART CEMENT, 3 PARTS SAND, 2 PARTS PEA GRAVEL.
  MORTAR - 1 PART CEMENT, ½ PART LIME LUTTY (TYPE 'S'), 4½ PART SAND.

OPTION 2

# CITY STANDARD PLAN
# 4'-0" HIGH MAXIMUM RETAINING WALL

## GENERAL NOTES

1. ALL WORK SHALL CONFORM TO THE ADOPTED CODES AND ZONING REGULATIONS.

2. CONCRETE BLOCK MASONRY SHALL COMPLY WITH THE FOLLOWING:

- CONCRETE STRENGTH 2500 PSI AGE TESTED @ 28 DAYS.
- CONCRETE BLOCK - GRADE 'N' UNITS ASTM C-90.
- GROUT - 1 PART CEMENT, 3 PARTS SAND, 2 PARTS PEA GRAVEL.
- MORTAR - 1 PART CEMENT ½ PART LIME PUTTY (TYPE 'S'), 4½ PART SAND.

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 1 CF/FT OF CLEAN COARSE GRAVEL WITH 4: DIAMETER PERFORATED PVC DRAINAGE PIPE WITH 1% GRADIENT TO DRAIN - OR OMIT HEAD JOINST IN FIRST COARSE. **NOTE: NO DRAINAGE ACROSS PROPERTY LINE (ADJACENT NEIGHBOR) ALLOWED.**

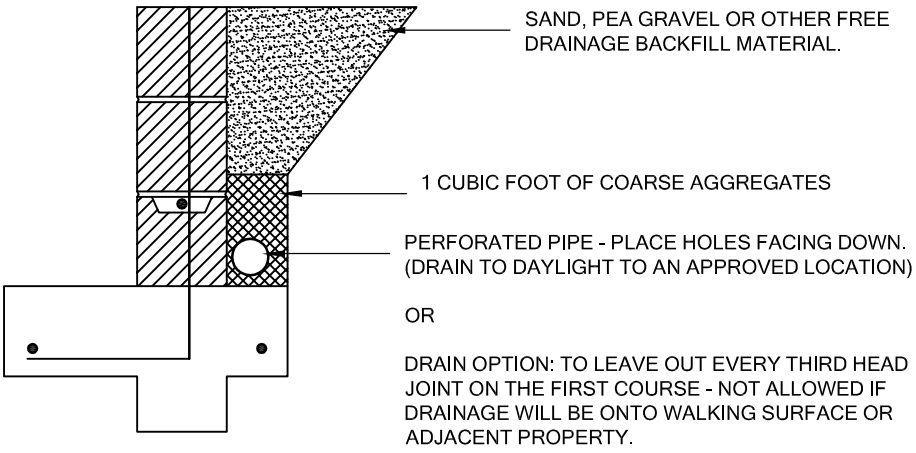
6. OPTIONAL: INSTALLATION OF A MOISTURE BARRIER ON THE FILL SIDE OF THE WALL WILL HELP TO PREVENT MOISTURE FROM PENETRATING THE VISIBLE SIDE OF THE WALL, RESULTING IN DISCOLORATION.

## 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 INSPECTION:** AFTER GROUT IS PLACED AND BACKFILL IS COMPLETED - PRIOR TO ANY DECORATIVE CAP PLACEMENT.




TYPICAL SECTION - (DRAINAGE DETAIL)
PARTS OF THE RETAINING WALL ARE NOT SHOWN FOR CLARITY.