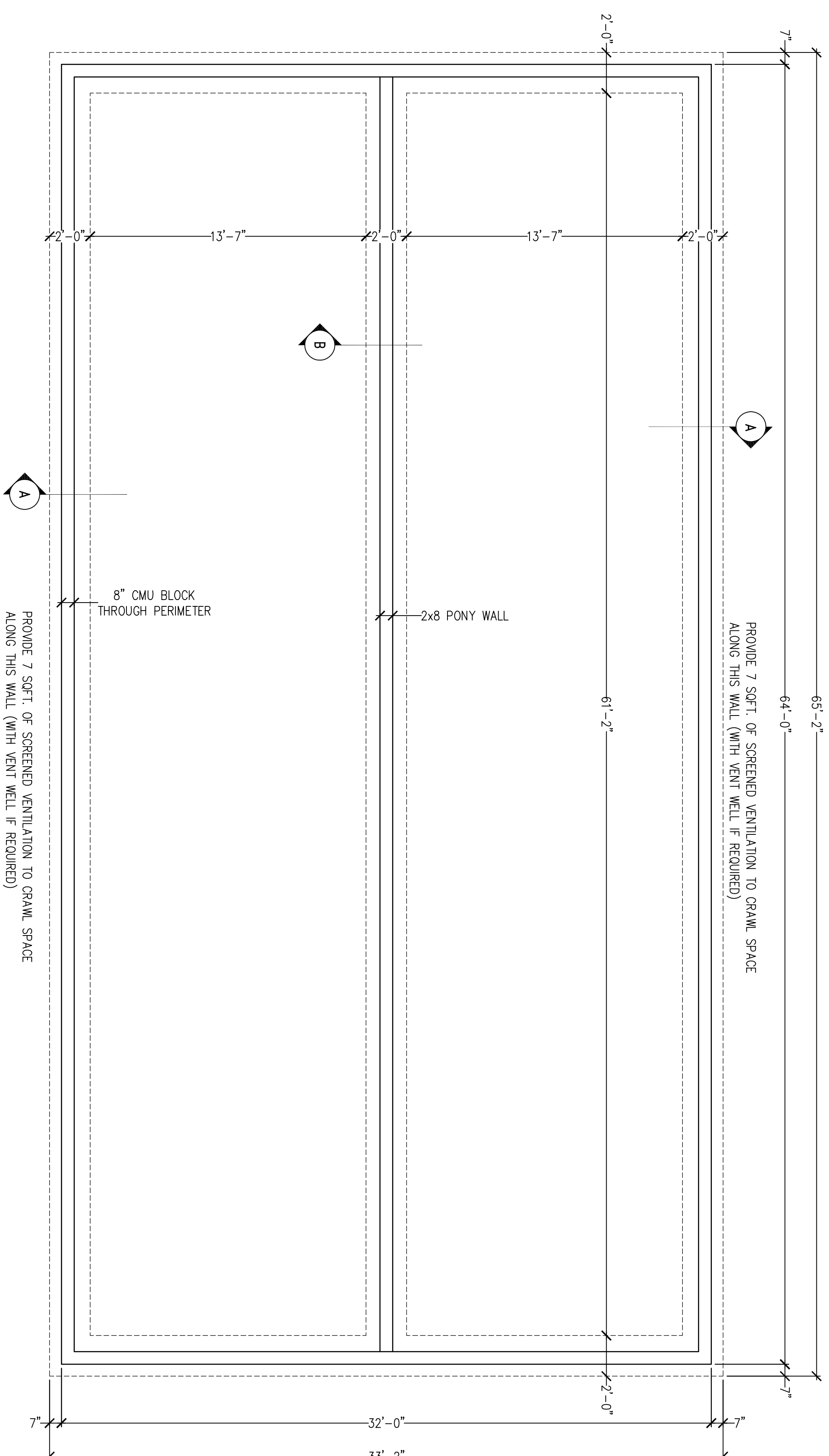
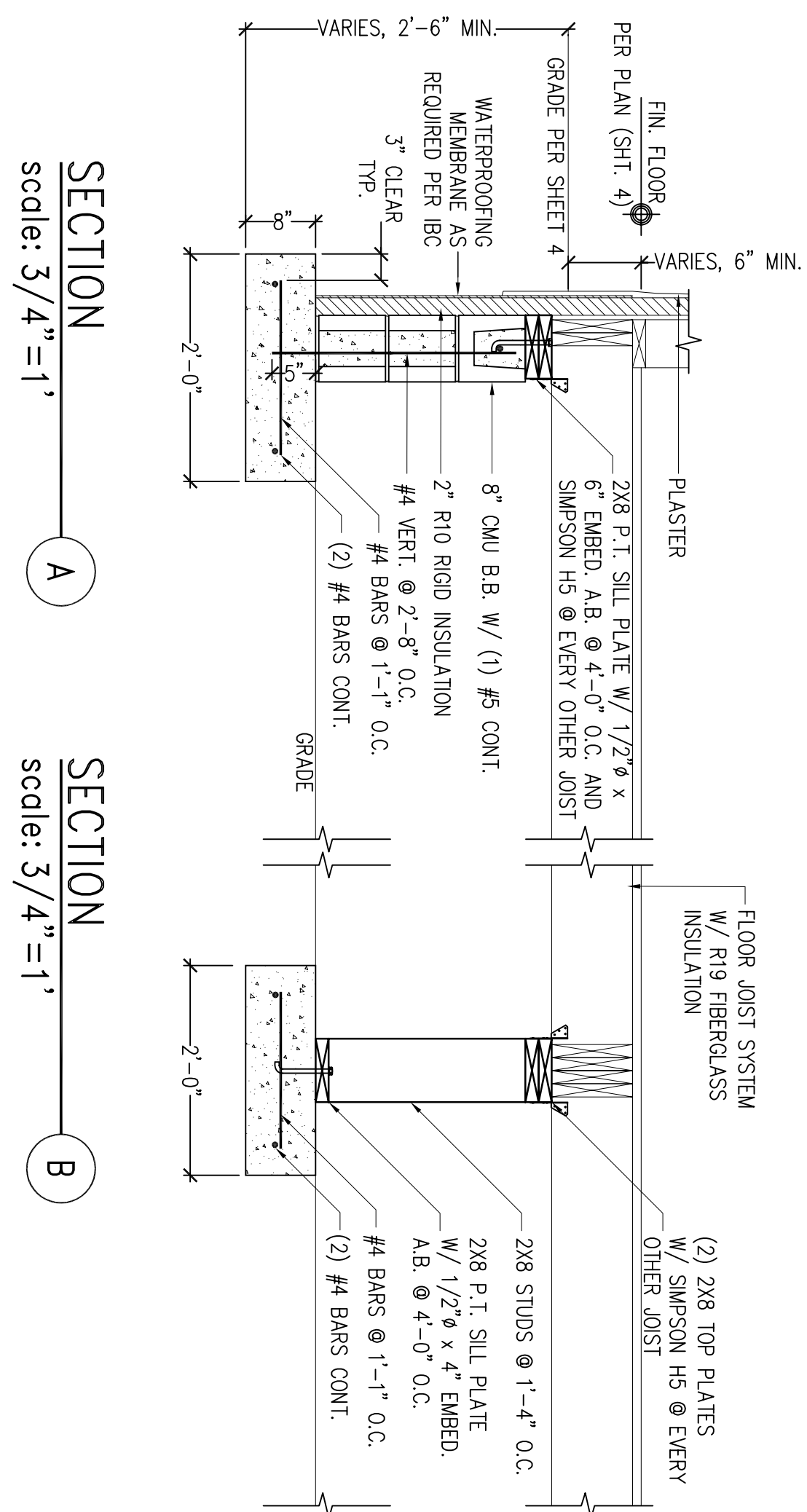


# FOUNDATION NOTES

- 1) MATERIALS:
  - A) CONCRETE: FC = 3000 PSI  
AIR ENTRAINED - MAX WATER/CEMENT RATIO 0.46  
NON AIR ENTRAINED - MAX WATER/CEMENT RATIO 0.58
  - B) STEEL  
CONCRETE/MASONRY ANCHORS: ASTM A307  
CONCRETE/MASONRY REINFORCEMENT: ASTM A615, GR 60  
CONCRETE/MASONRY EXPANSION ANCHORS: FED. SPEC. FF-S-325
  - C) MASONRY  
CONCRETE MASONRY UNITS (CMU): FM = 1500 PSI  
ASTM C90, GR 80  
MORTAR: 1000 PSI ASTM C207, TYPE S  
GROUT: 2000 PSI ASTM C476
  - D) WOOD:  
NOTE: ALL SAWN LUMBER SHALL HAVE A MOISTURE CONTENT OF 19% OR LESS.  
FRAMING LUMBER: HEM FIR #2  
EXPOSED LUMBER: DOUGLAS FIR - LARCH #2  
PLYWOOD: C-D EXTERIOR GRADE  
SILL PLATES: FED. SPEC. L-1-1  
EXTERIOR GALVANIZED
- 2) CONCRETE NOTES:
  - A) SPECIFICATIONS:  
ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 301 AND ACI 304  
ALL HOT WEATHER CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 305  
ALL COLD WEATHER CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 306  
ALL CONCRETE EXPOSED TO WEATHER SHALL BE AIR-ENTRAINED
  - B) CONCRETE REINFORCING:  
UNLESS NOTED OR DETAILED, PROVIDE CORNER BARS THE SAME SIZE AND SPACING AS THE HORIZONTAL REINFORCING AT THE CORNERS AND INTERSECTION ALL REBAR TO BE LAPPED 40 BAR DIAMETERS UNLESS NOTED OTHERWISE ON DETAIL OR RETAINING WALL SECTION OF GENERAL NOTES.
  - C) THE FOLLOWING MIN. CONCRETE COVER SHALL BE PROVIDED FOR CAST-IN-PLACE CONCRETE REINFORCEMENT:  
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH - 3"  
CONCRETE EXPOSED TO EARTH OR WEATHER  
#5 BAR AND SMALLER - 1 1/2"  
DO NOT BACKFILL AGAINST BASEMENT OR RETAINING WALLS UNTIL CONCRETE AND/OR GROUT HAVE ACHIEVED AT LEAST 80% OF THE SPECIFIED COMPRESSIVE STRENGTH.
  - 3) CMU NOTES:  
A) UNLESS OTHERWISE NOTED OR DETAILED, VERTICAL REINFORCING IN ALL CONCRETE MASONRY WALLS SHALL BE "ASTM-A615-60", ALL CMU WALLS SHALL BE REINFORCED AS FOLLOWS, UNLESS OTHERWISE NOTED:  
#5 VERTICALS @ ALL CORNERS  
#5 VERTICALS @ ALL DISCONTINUOUS WALL RUNS  
1 VERTICAL EACH SIDE OF ALL MASONRY WALL OPENINGS  
1 VERTICAL @ 2'-6" O.C. IN ALL STRAIGHT WALL RUNS  
1 VERTICAL EACH SIDE OF ALL CONTROL JOINTS  
PROVIDE VERTICAL DOWELS SAME AS VERTICAL BAR TOP AND BOTTOM OF EACH VERTICAL EXTENDING 30 BAR DIA. INTO ABUTTING CONSTRUCTION AND 40 BAR DIA. INTO CONCRETE FILLED CELLS.  
B) ALL MASONRY WORK SHALL HAVE A MIN. OF 1/2" CLEARANCE TO STEEL.  
C) MIN. COVER FOR REINFORCING IN MASONRY SHALL BE AS FOLLOWS (DIMENSIONS INCLUDE MASONRY)  
MASONRY EXPOSED TO SOIL - 2"  
MASONRY EXPOSED TO WEATHER - 1 1/2"  
MASONRY IN OTHER CONDITIONS - 3/4"  
D) UNLESS OTHERWISE NOTED, LAP-SPlice REINFORCEMENT 40 BAR DIAMETERS.  
E) STRUCTURAL FOUNDATIONS SHALL BE DESIGNED PER IBC TABLE 1804.2 BASED UPON ASSUMED SOIL CONDITIONS FOR THE SITE. SITE SOILS ARE ASSUMED TO NOT CONSIST OF CLAY OR CLAYEY SILT TYPE SOILS. IF, AT THE TIME OF EXCAVATION, CLAY SOILS ARE FOUND, A REGISTERED GEOTECHNICAL ENGINEER SHALL BE ENGAGED TO MAKE FURTHER RECOMMENDATIONS BEFORE FOUNDATION CONSTRUCTION BEGINS. ASSUME ALLOWABLE SOIL BEARING PRESSURE IS 1500 PSF.
  - A) THE GEOTECHNICAL ENGINEER SHALL ACT AS THE OWNER'S REPRESENTATIVE AND SHALL MAKE OBSERVATIONS AND TESTS AS CONSIDERED NECESSARY FOR QUALITY CONTROL. THESE CONDITIONS AND TESTS ARE SUBJECT TO CHANGE WITHOUT NOTICE. CONTINUOUS OBSERVATIONS AND TESTS OF GRADATION OPERATIONS SHALL BE MADE BY THE GEOTECHNICAL ENGINEER. ALL TESTS SHALL BE PERFORMED IN ACCORDANCE WITH PROCEDURES SET FORTH IN THE CURRENT BOOK OF STANDARDS OF THE AMERICAN SOCIETY OF TESTING AND MATERIALS (ASTM). THE CONTRACTOR SHALL PAY FOR ALL SUCH TESTING AND OBSERVATION.  
B) ALL FOOTINGS AND FLOOR SLAB AREAS SHALL BEAR ON COMPACTED STRUCTURAL SOILS OR UNDISTURBED NATIVE SOILS.  
C) ALL EXISTING FILL, VEGETATION, DEBRIS, AND UNDISTURBED NATURAL SOILS IN AREAS FOR SUPPORT OF FOOTINGS, FLOOR SLABS OR PAVEMENTS SHALL BE EXCAVATED TO EXPOSE UNDISTURBED NATURAL SOILS. ALL NON-ACCEPTABLE MATERIAL SHALL BE DISPOSED OF OFF-SITE.  
D) ALL BACKFILL MATERIAL SHALL BE NON-EXPANSIVE, FREE OF VEGETATION, AND CONTAIN NO ROOTS LARGER THAN 6" GRADATION OF THE BACKFILL MATERIAL, AS DETERMINED BY STANDARD TESTS. STANDARD D-422 SHALL BE AS FOLLOWS:  
GRADE GRADATION OF BACKFILL MATERIAL  
PERCENT PASSING  
3" 90-100  
No. 4 60-100  
No. 10 35-65  
No. 20 25-55  
No. 40 15-55  
THE PLASTICITY INDEX SHALL BE BETWEEN 5 AND 15 WHEN TESTED IN ACCORDANCE WITH ASTM D-4318.  
E) FILL OR BACKFILL, CONSISTING OF SOIL APPROVED BY THE GEOTECHNICAL ENGINEER, SHALL BE PLACED IN CONTROLLED, COMPACTED LAYERS WITH APPROVED COMPACTION EQUIPMENT. THICKNESS OF COMPACTED LAYERS SHALL NOT EXCEED 8" UNLESS OTHERWISE NOTED.  
F) TESTING FOR DEGREE OF COMPACTION SHALL BE DETERMINED BY THE STANDARD METHOD OF TESTS FOR DEGREE OF COMPACTION SHALL BE DETERMINED BY THE ASTM D-1556 METHOD OR ASTM D-2922. OBSERVATION AND FIELD TESTS SHALL BE CARRIED ON DURING FILL AND BACKFILL PLACEMENT BY THE GEOTECHNICAL ENGINEER TO ASSIST THE CONTRACTOR IN OBTAINING THE REQUIRED DEGREE OF COMPACTION.  
G) WHEREVER, IN THE OPINION OF THE GEOTECHNICAL ENGINEER, AN UNSTABLE CONDITION IS BEING CREATED, EITHER BY CUTTING OR FILLING, THE WORK SHALL NOT PROCEED IN THAT AREA UNTIL AN INVESTIGATION HAS BEEN MADE AND THE GRADING PLAN REVISED IF FOUND NECESSARY.  
H) PRECAUTIONS SHALL BE TAKEN DURING AND AFTER CONSTRUCTION TO MINIMIZE EROSION AND TO PROTECT EXISTING UTILITIES. EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. ALL EXPOSED WALLS OF THE STRUCTURE SHALL BE BACKFILLED WITH COMPACTED, ENGINEERED FILL. SPECIAL CARE SHALL BE TAKEN DURING INSTALLATION OF SUBFLOOR SEWER AND WATERLINES TO REDUCE THE POSSIBILITY OF SUBSURFACE SATURATION.



PLAN  
scale: 1/4" = 1'



SECTION A  
scale: 3/4" = 1'

SECTION B  
scale: 3/4" = 1'

EL VALLE DE LOS RANCHOS  
WATER & SANITATION DISTRICT

**EL VALLE OFFICE BUILDING**  
Taos, New Mexico

**FOUNDATION PLAN**

**Abeyta Engineering, Inc.**

CHECKED: ARA	DATE: JUNE, 2009	ENR'S FILE NO. 0825	SHEET NO. 7
DRAWN: ABH	SCALE: AS SHOWN		