



- GENERAL NOTES:**
- 1.) LOCATIONS OF INTERIOR GRADE BEAMS TO BE VERIFIED AGAINST BUILDING MANUFACTURERS DRAWINGS PRIOR TO PILING BEING DRIVEN.
 - 2.) BLOCK OUT FOR INTERIOR COLUMNS (NOT SHOWN ON DRAWING FOR CLARITY)

- PILING NOTES:**
1. PILES SHALL BE TREATED TIMBER ASTM D25 QUALITY, WITH 6" TIP AND NORMAL TAPER TO BUTT.
 2. CAPACITY SHALL BE 8 TONS EACH, DRIVEN TO 25 FT. BELOW NATURAL GRADE.
 3. DRIVING OF A TEST PILE IS RECOMMENDED.
 4. USE DROP HAMMER OR SINGLE ACTING AIR HAMMER DELIVERING 7,500 FT.-LBS OF ENERGY PER BLOW, RAM WEIGHT OF DROP HAMMER SHALL NOT EXCEED 2,500 TO 3,000 LBS AND THE DROP SHOULD NOT EXCEED 3 FT., AT MINIMUM OF 25 BLOWS PER FOOT.

101 PILES TOTAL

"DETECTABLE WARNING" ON RAMP CUT 1/4" DEEP GROOVES @ 2" TO 3" O.C., SCORED INTO CONCRETE AND PAINTED. MAX SLOPE 1:12 (TYP OF ALL RAMPS LEADING TO VEHICULAR AREAS)

FOUNDATION GENERAL NOTES:

1. FILL UNDER SLAB SHALL CONSIST OF 40% AND 60% SANDY MIXTURE
2. AFTER SLAB AREA HAS BEEN EXCAVATED TO REMOVE ALL DEBRIS.
3. COMPACT FILL TO 95% DENSITY.
4. BEAM DIMENSIONS SHOWN ARE MINIMUM REQUIRED AND MAY NOT BE REDUCED, BUT DEPTH MAY BE EXTENDED TO SEAT BOTTOM
5. TENDONS AND REBARS SHALL BE SECURELY SUPPORTED TO PREVENT BOTH VERTICAL AND HORIZONTAL MOVEMENT DURING PLACEMENT OF CONCRETE.
6. ALLOW 8" CENTERED ON TENDON AXIS BY 36" LENGTH FOR STRESSING EQUIPMENT CLEARANCE.
7. CONCRETE SHALL BE WELL CONSOLIDATED ESPECIALLY IN THE VICINITY OF TENDON ANCHORAGES.
8. CONCRETE DESIGN IS BASED UPON A CONCRETE MIX HAVING A MINIMUM OF 5 SACKS OF CEMENT PER CUBIC YARD AND A MAXIMUM OF 30 GALLONS OF FREE AND ADDED WATER PER CUBIC YARD. SUCH A MIX SHOULD GIVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 P.S.I. AT 28 DAYS. CONCRETE DESIGN MIX SHALL BE IN ACCORDANCE WITH THE A.C.I. BUILDING CODE REQUIREMENTS (A.C.I. 318-89).
9. CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 1,500 P.S.I. AT THE TIME OF STRESSING.
10. ALL CONVENTIONAL REINFORCING STEEL SHALL BE ASTM DESIGNATION A615 (GRADE 60) REINFORCING AND SHALL BE DETAIL D AND MANUALLY ACCESSIBLE PROVIDED FOR ANCHORAGE INTO CONCRETE STRUCTURES.
11. ALL PRE STRESSING STEEL SHALL CONSIST OF STAINLESS STEEL TENDONS. RELIEVED STRANDS CONFORMING TO ASTM A-416 MINIMUM ULTIMATE TENSILE STRENGTH SHALL BE 270,000 P.S.I. STRANDS SHALL BE COATED WITH A PERMANENT RUST PREVENTATIVE LUBRICANT AND A PLASTIC COVER IN BEAM SIDES AND TOPS. 1 1/2" COVER IN SLAB TOPS AND BOTTOMS UNLESS OTHERWISE SHOWN.
12. THE CONTRACTOR SHALL VERIFY ALL DROPS, SLOPES, RECESSES, BRICK SEATS, BLOCK-OUTS ON ARCHITECTURAL PLANS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES THAT MAY EXIST.
13. COORDINATE STRUCTURAL DRAWINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ALL OPENINGS, INSERTS, AND ANY OTHER RELATED ITEMS.
14. PLANS FOR PIPES, CONDUITS, THIMBLES, ETC., TO PASS THROUGH CONCRETE SLAB OR BEAM, MUST NOT CONFLICT WITH REINFORCING, WHERE A CONFLICT OCCURS, PIPES, CONDUITS, ETC. LOCATION IS TO TAKE PRECEDENCE.
15. PROVIDE SINGLE LAYER OF VAPOR BARRIER UNDER ALL CONCRETE SLAB.
16. THE TENDON LOCATION AT THE END OF THE GRADE BEAM TO BE (A MINIMUM OF 6") FROM THE TOP OF SLAB TO CENTRAL GRAVITY OF TENDONS.
17. TENDONS TO BE STRESSED NO EARLIER THAN 7 DAYS AND NO LATER THAN 14 DAYS AFTER PLACEMENT OF CONCRETE.
18. FORMS TO BE STRIPPED NO LATER THAN 6 DAYS AFTER PLACEMENT OF CONCRETE.
19. STRESSING:
 1. 1/2" TENDON SHALL BE ANCHORED AT 28.9K PER STRAND, BUT SHALL BE INITIALLY STRESSED TO 33.0K PER STRAND.
 2. 3/8" TENDON SHALL BE ANCHORED AT 16.1K PER STRAND, BUT SHALL BE INITIALLY STRESSED TO 18.4K PER STRAND.
20. LOADING OF SLAB PRIOR TO TENSIONING SHALL NOT BE DONE WITHOUT THE APPROVAL AND DIRECTION OF THE SUPERVISING ENGINEER.
21. A FLEXIBLE TYPE OF ADHESIVE MUST BE USED FOR INSTALLATION OF CERAMIC OR OTHER TYPES OF RIGID FLOOR TILES DUE TO POSSIBLE FLEXURE OF SLAB.

FOUNDATION PLAN
3/16"=1'-0"