FOUNDATION & CONCRETE FLATWORK:

1. FOUNDATION WALLS ARE DESIGNED ASSUMING UNIFORM, COMPACTED, GRANULAR BACKFILL. REDESIGN OF WALLS OR FOOTINGS WILL BE REQUIRED FOR CLAY OR PARTIALLY CLAY SOIL CONDITIONS.
2. THE CONTRACTOR AND CONCRETE SUB-CONTRACTOR SHALL FIELD VERIFY REBAR SPECIFICATIONS, FOUNDATION WALL, SUB-WALL AND FOOTING ELEVATIONS BASED ON FIELD CONDITIONS; NOTIFY ARCHITECT IF FIELD CONDITIONS ARE SIGNIFICANTLY DIFFERENT THAN DRAWINGS INDICATED.
3. THE CONTRACTOR AND CONCRETE SUB-CONTRACTOR SHALL FIELD VERIFY DAYLIGHT, WALKOUT AND FROST WALL LOCATION AND SIZES.
4. ASSUMED DESIGN SOIL BEARING PRESSURE = 2,000 PSF; THE CONTRACTOR SHALL RETAIN A REGISTERED SOILS ENGINEER, QUALIFIED TO CONFIRM THE SOILS AT THE SITE ARE CAPABLE OF PROVIDING THE DESIGNED SOIL BEARING PRESSURE.
5. CONCRETE REINFORCING STEEL SHALL BE GRADE 60; FY = 60 KSI
6. CONCRETE MIX GUIDELINES:

ELEMENT	FOOTING / FOUNDATION	SLABS	EXTERIOR CONCRETE
COMPOSITE STRENGTH, FC	3500 PSI	3500 PSI	4000 PSI
CEMENTITIOUS MATERIAL	520 LBS. / YARD	470 LBS. / YARD	565 LBS. / YARD
LARGE AGGREGATE	1 INCH	3/4 INCH	3/4 INCH (CRUSHED LIMESTONE)
AIR	N/A	N/A	6% + OR - 1%

   - IN FOOTINGS, FOUNDATION AND SLAB CONCRETE 20% FLYASH OR 30% GROUND BLAST FURNACE SLAG IS ACCEPTABLE; CALCIUM CHLORIDE SHALL NOT BE USED IN ANY CONCRETE
7. CONCRETE FOR SLAB-ON-GRADE SHALL BE (5) SACK MIX.
8. ALL SLABS ON GRADE SHALL HAVE CONTROL OR CONSTRUCTION JOINTS AT A MAXIMUM SPACING IN FEET OF THREE TIMES THE SLAB THICKNESS IN INCHES EACH WAY, EXCEPT AS NOTED ON THE DRAWINGS. MAINTAIN AN ASPECT RATIO OF NOT MORE THAN 1.5.
9. SLABS ON GRADE SHALL BE REINFORCED WITH FIBROUS REINFORCING. THE SUPPLIER SHALL PLACE FIBERS IN THE CONCRETE AT THE BATCH PLANT IN THE AMOUNT AND IN THE METHOD RECOMMENDED.
10. LAP CONTINUOUS WALL REINFORCING 44 BAR DIAMETERS UNLESS OTHERWISE NOTED. PROVIDE CORNER REBARS FOR HORIZONTAL REINFORCING; MATCH WALL REINFORCING, SIZE AND SPACING, BEND BARS WITH 36" LEGS. PROVIDE DOWELS FROM FOOTING EQUAL IN SIZE AND NUMBER TO VERTICAL WALL OR PIER REINFORCING.
11. PROVIDE CORNER REINFORCING BARS TO MATCH HORIZONTAL WALL REINFORCEMENT.
12. COVER FOR REINFORCING SHALL BE IN ACCORDANCE WITH ACI-318 AS FOLLOWS:
    - WALLS - 1 1/2", FROM OUTSIDE FACE, UNLESS NOTED OTHERWISE
    - WALLS - 1", FROM INSIDE FACE, UNLESS NOTED OTHERWISE
    - FOOTINGS - 3", FROM B.O. FOOTING

SITE WORK & GRADING NOTES:

1. GRADE BEAMS AND WALLS THAT RETAIN EARTH ON BOTH SIDES SHALL BE BACKFILLED ON BOTH SIDES SIMULTANEOUSLY.
2. THE MAIN LEVEL FLOOR FRAMING, SUB-FLOOR CONSTRUCTION ON "BASEMENT" SLAB ON GRADE SHALL BE IN PLACE PRIOR TO BACKFILL.
3. DO NOT BACKFILL WALLS RETAINING EARTH (e.g. BASEMENT WALLS) UNTIL CONCRETE HAS REACHED 28 DAY STRENGTH, AND ALL BRACING ELEMENTS ARE IN PLACE (LOWER AND UPPER FLOORS).
4. BACKFILL AND COMPACT WITH GRANULAR FILL IN ONE-FOOT MAXIMUM LIFTS.
5. FILL MATERIAL SHALL BE THOROUGHLY COMPACTED PRIOR TO PLACEMENT OF CONCRETE. THERE SHALL BE A MINIMUM OF 6" CLEAN SAND UNDER ALL SLABS ON GRADE.
6. PERIMETER FOOTING DRAINS WRAPPED IN GEO-TEXTILE FABRIC AND SET IN GRAVEL BED SHALL BE INSTALLED ON THE OUTSIDE OF LOWER EDGE OF WALL FOOTINGS.

1 ground floor
1 : 50

2 {3D} Copy 3

3 {3D} Copy 3 Copy 1

SHELTHERLINES

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PROJECT ADRESS
Street
City, State Zip

No.	Description	Date

PROJECT

PROPOSED RENOVATION

AMMENDED DESIGN

Project number	A44 2401D
Date	JANUARY 2020
Drawn by	OSIDEHIN
Checked by	AANUOLUWA

A101

Scale	1 : 50

01/02/2020 11:00:01 AM