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STRUCTURAL CONSULTANTS
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REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
STATE OF LOUISIANA

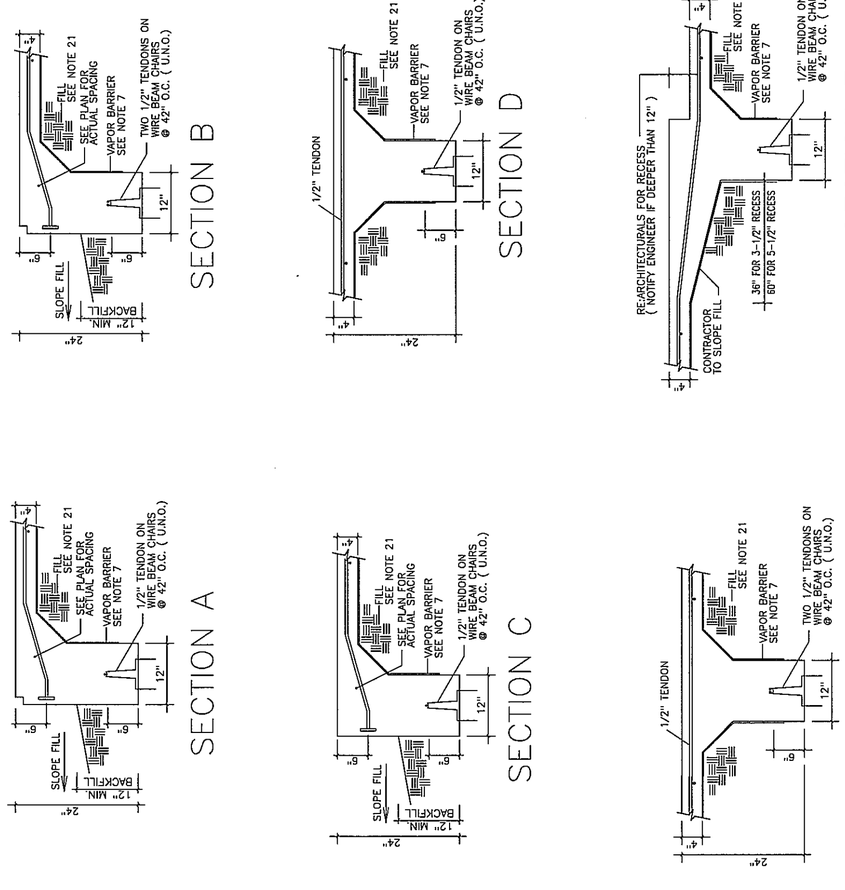
LIVING THE WORD CHURCH
2528 OLD SPANISH TRAIL
SLIDELL, LOUISIANA

K.B. KAUFMANN
SLIDELL, LOUISIANA

SCALE:	1/8" = 1'0"
DATE:	27 JAN 12
DRAWN BY:	EPH
CHK'D BY:	HN
ESI PROJECT #:	180-12

DATE	REVISIONS

SHEET PT-1 OF PT-1



SPECIFICATIONS – SLAB ON GRADE

1. This plan is to be only for the location below:
   2528 OLD SPANISH TRAIL
   SLIDELL, LOUISIANA
2. The concrete mix should yield a minimum compressive strength of 3000 p.s.i. at 28 days. Concrete design mix shall be in accordance with ACI-318 (latest version). No chlorides shall be allowed.
3. Concrete shall have a minimum compressive strength of 1500 p.s.i. at time of stressing.
4. All conventional reinforcing steel shall meet ASTM-A615 (Grade 60). Reinforcing steel shall be detailed and fabricated in accordance with the latest "ACI Manual of Standard Practice for Detailing Reinforced Concrete Structures".
5. All Prestressing steel shall consist of seven-wire low relaxation strand conforming to ASTM-A416. Minimum ultimate tensile strength shall be 270 ksi. Strands shall be coated with a permanent rust preventive lubricant and a plastic sheath of at least 0.040 inches thick.
6. Reinforcement shall have 3" cover in the grade beam bottoms, 2" cover in the beam sides and top, 1 1/2" cover in the slab top and bottoms, unless noted otherwise.
7. 2 layers of 4 mil polyethylene vapor barrier shall be placed under all concrete, except beam bottom & exterior face.
8. Tendons and bars shall be securely supported to prevent both vertical and horizontal movement during concrete placing. No tendon will be unsupported for more than 5 feet.
9. If tendon sheathing is damaged or removed for approximately 9" or more it should be repaired. Sheathing behind a fixed anchor may be removed for 12" to 14".
10. Concrete shall be well consolidated in the vicinity of the tendon anchors.
11. The contractor shall verify all drops, off-sets, brick ledges, and block outs and Architectural plans and notify the Engineer of any descrepancies that may exist.
12. The contractor shall be responsible for coordination of the structural drawings with all other drawings.
13. The tendon location at the end of the grade beam is to be a "minimum" of 6" from the top of the slab to the CGS of the tendon.
14. Tendons are to be stressed no earlier than 6 days and no later than 14 days after concrete placement. Contractor to remove all form work prior to stressing of tendons.
15. Loading of the slab prior to tensioning shall not be done without the approval and direction of the design Engineer.
16. Grade Beam sizes may vary by -10%, +20%. Tendons may be moved 12" horizontally to avoid conflicts.
17. Alteration to or deviation from the information shown on this sheet without the written advance approval of the Engineer of Record, Engineering Services Inc. will void designer's responsibility.
18. All Tendons to be 1/2" in diameter.
19. Stressing: 1/2" strand stress to 33.0 kips – anchor at 28.9 kips.
20. This plan is for grade beam location and tendon layout only. Refer to Architectural plans for setting forms.
21. All subgrade fill shall be select granular material compacted to 90% standard Proctor density in a maximum of 6" lifts.
22. A minimum of 4" of concrete will be maintained throughout the entire slab.
23. All runoff water must be carried away from the slab to prevent saturation of the sub-base.
24. All trees within close proximity shall be removed to prevent the roots from extending under the slab.
25. Remove a minimum of 12" of existing soil and all unsuable silt prior to placing any fill.
26. Maximum of 2.0 feet of fill may be placed on the site. Maximum differential fill shall not exceed 20%
27. Tendons, pocket former, plastic chairs, anchors, wedges to be as manufactured by Tech-Con Systems, Inc., Slidell, LA, or approval equal.
28. No field supervision provided under this seal unless otherwise noted.
29. Exterior footings will have a minimum of 12" embedment below finished grade.
30. Contractor to install all floating forms, porch brick ribbon forms, and any brick-ledges greater than 6" deep before P.T. cable placement. Do not install brick-ledges less than 6" deep prior to tendon installation.
31. Seal is lot specific and for structural design only. Drawing and design valid for one (1) year after latest date in title block.

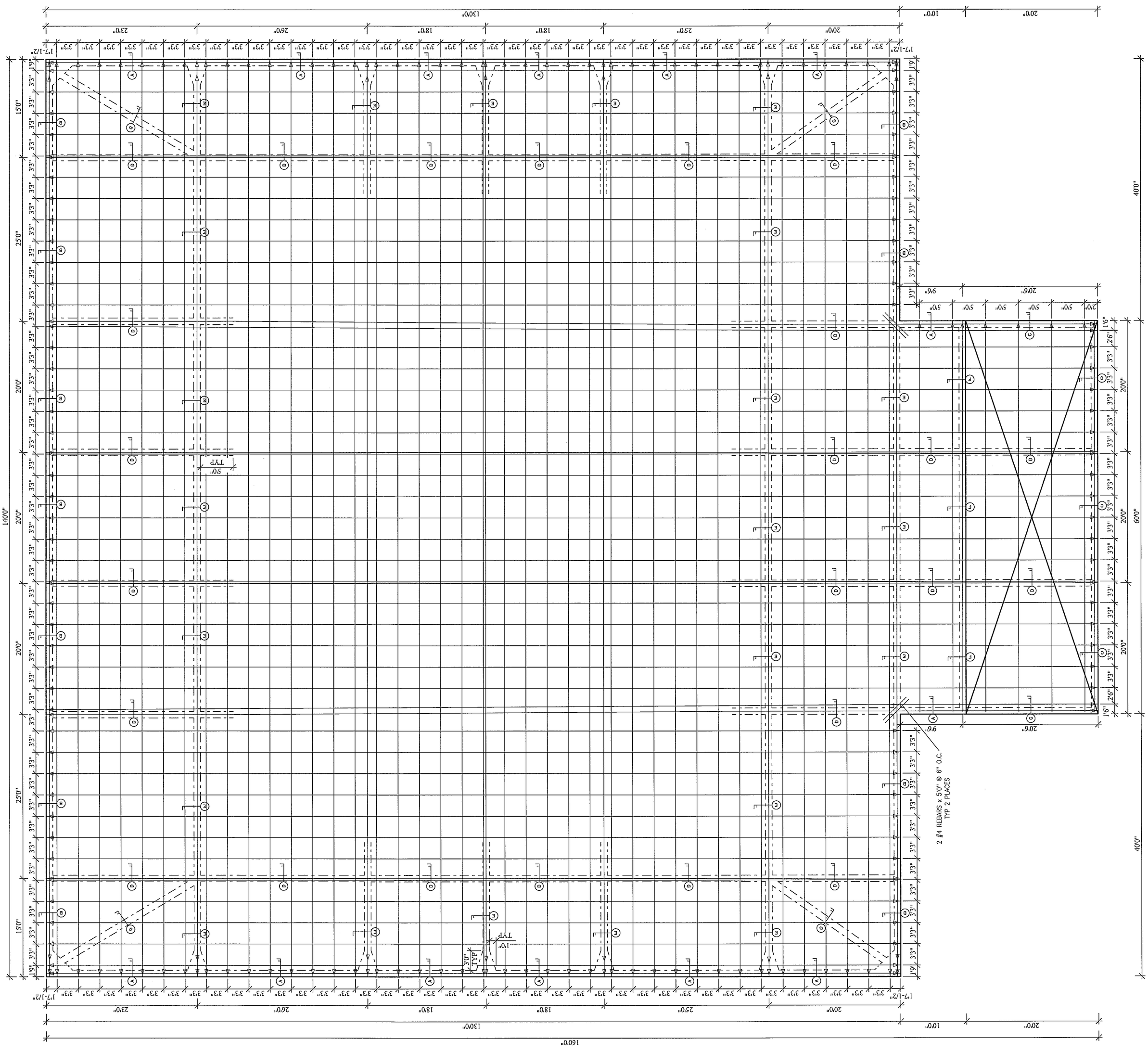
NOTE:
IT IS THE RESPONSIBILITY OF THE BUILDER TO PROVIDE GOOD DRAINAGE AWAY FROM THE FOUNDATION FROM THE TIME FORMS ARE SET UNTIL THE CONCRETE POURED. IT IS THE BUILDERS COMPLETE GOOD DRAINAGE MUST BE MAINTAINED FOR THE DURATION OF THE BUILDING.

THIS PLAN IS FOR STRUCTURAL REQUIREMENTS ONLY. ARCHITECTURAL DETAILS, SURFACE REQUIREMENTS, AND COMPLIANCE WITH A.D.A. REGULATIONS ARE SPECIFICALLY OMITTED FROM THIS PLAN. THE COORDINATION OF, AND RESPONSIBILITY FOR SUCH REQUIREMENTS IS THE RESPONSIBILITY OF OTHERS.

DO NOT USE THIS PLAN TO SET FORMS!

P.T. SLAB AREA = 20,000.0 sq. ft.

NOTE:
MINIMUM ANCHOR BOLT EMBEDMENT LENGTH
1-1/4" DIA – 20"
1" DIA – 18"
3/4" DIA – 16"
5/8" DIA – 8"
1/2" DIA – 6"



THIS SLAB REQUIRES A PARTIAL STRESS 18 TO 24 HOURS AFTER CONCRETE PLACEMENT. CONTRACTOR TO COORDINATE.