CONTRACT PLANS COMPONENTS





POLE BARN COLUMBIA COUNTY, FLORIDA, FLORIDA

NORTH FLORIDA PROFESSIONAL SERVICES, INC. P.O. BOX 3823 LAKE CITY, FL 32056 CERTIFICATE OF AUTHORIZATION: 29011 ROBERT PHILLIP BISHOP, JR., P.E. NO. 38546

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

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LIC NO. LB8356

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REVISIONS DESCRIPTION DATE



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JOB NUMBER: **ROBERT PHILLIP** BISHOP, JR. P.E. NO.:

COVER SHEET POLE BARN COLUMBIA COUNTY, FLORIDA, FLORIDA

SHEET

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APPROVAL FROM THE ENGINEER. SUBMIT DRAWINGS SHOWING ALL PROPOSED CONSTRUCTION JOINT LOCATIONS FOR APPROVAL PRIOR TO PREPERATION OF AFFECTED REINFORCEMENT SHOP DRAWINGS. 6. MINIMUM ELAPSED TIME BETWEEN ADJACENT CONCRETE PLACEMENTS SHALL BE 48 HRS. 7. CONCRETE MIX DESIGN FOR EACH TYPE AND STRENGTH OF CONCRETE SPECIFIED SHALL BE

5. PROVIDE CONSTRUCTION JOINTS WHERE SHOWN. OMIT NONE AND ADD NON WITHOUT WRITTEN

SUBMITTED FOR ENGINEER REVIEW 30 DAYS PRIOR TO PLACEMENT OF CONCRETE. 8. ALL REINFORCING STEEL ASTM A615 GRADE 60, ALL WELDED WIRE FABRIC ASTM A185

1. ALL BAR REINFORCEMENT SHALL CONFORM TO ASTM 615 GRADE 60

2. WELDED WIRE FABRIC REINFORCEMENT SHALL CONFORM TO ASTM A185. 3. CLEARANCE OF MAIN REINFORCEMENT FROM ADJACENT SURFACES SHALL

CONFORM TO THE FOLLOWING (UNLESS OTHERWISE SHOWN IN DETAIL) A. UNFORMED SURFACES IN CONTACT WITH GROUND (FOOTING OR WALL BOTTOM) .. B. SLABS ON GRADE...

C. FORMED SURFACE IN CONTACT WITH GROUND OR EXPOSED TO WEATHER (WALLS, PIERS). D. IN ALL CASES, CLEARANCE NOT LESS THAN DIAMETER OF BARS. NOTE:MAXIMUM DEVIATION FROM THESE REQUIREMENTS SHALL BE + 1/4" FOR

SECTIONS 10" OR LESS AND + 1/2" FOR SECTIONS OVER 10" THICK. 4. REINFORCEMENT SHALL BE CONTINUOUS THROUGH ALL CONSTRUCTION JOINTS

UNLESS OTHERWISE INDICATED ON DRAWINGS. 5. WHERE REINFORCEMENT IS NOT SHOWN ON DRAWINGS, PROVIDE REINFORCEMENT IN ACCORDANCE WITH APPLICABLE TYPICAL DETAILS OR SIMILAR TO THAT SHOWN FOR MOST NEARLY SIMILAR SITUATIONS. AS

DETERMINED BY THE ENGINEER. IN NO CASE SHALL REINFORCEMENT BE LESS THAN MINIMUM PERMITTED BY APPLICABLE CODES. 6. ALL WORKMANSHIP AND MATERIAL SHALL CONFORM TO THE "MANUAL OF

STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES"

7. ALL REINFORCEMENT SHALL BE INSPECTED AND APPROVED BY THE ENGINEER OR OWNER TESTING AGENCY BEFORE CONCRETE IS

8. WHERE CONTINUOUS BARS ARE CALLED FOR THEY SHALL BE RUN CONTINUOUSLY AROUND CORNERS, LAPPED AT NECESSARY SPLICES AND HOOKED AT DISCONTINUOUS ENDS.

9. WELDED WIRE FABRIC SHALL BE LAPPED ONE FULL MESH PANEL OR 6" MINIMUM. 10. ALL REINFORCING SPLICES SHALL CONFORM TO THE TABLE(S) PRVIDED IN THE GENERAL NOTES FOR STRENGTH OF CONCRETE BUT IN NO CASE LESS THAN THE REQUIRENMENTS OF THE LATEST EDITION OF ACI-318.

11. SLABS AND WALLS SHALL NOT BE SLEEVED OR BOXED OUT OR HAVE THEIR REINFORCING INTERUPTED EXCEPT AS SPECIFICALLY NOTED ON THE DRAWINGS. PROVIDE ADDITIONAL REINFORCEMENT AROUND OPENINGS AS SHOWN IN THE DETAILS.

12. SUBMIT CHECKED SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION OF REINFORCING. DRAWINGS SHALL SHOW REINFORCING DETAILS, INCLUDING SIZE AND SPACING OF BARS AND SUPPORT DETAILS. SHOP DRAWINGS SHALL INDICATE CONSTRUCTION JOINTS, CURBS, DEPRESSIONS, SLEEVES AND OPENINGS, ETC. WITH ALL ADDITIONAL REINFORCING REQUIRED.

13. BAR SUPPORTS SHALL BE GALVANIZED OR STAINLESS STEEL. BAR SUPPORTS IN CONTACT WITH EXPOSE SURFACES SHALL BE GALVANIZED AND PLASTIC TIPPED.

<u>SLAB AND WALL REINFORCING LAP SPLICE LENGTHS</u> LAP SPLICE LENGTHS IN 4000 PSI CONCRETE ARE AS FOLLOWS: TENSION SPLICE DEVELOPMENT LENGTH OP OTHER LAP SPLICE LENGTHS FOR REINFORCING IN 3000 PSI CONCRETE ARE AS FOLLOWS: **TENSION SPLICE** DEVELOPMENT LENGTH TOP OTHER

> LAPPED SPLICE LENGTHS BASED ON ASTM A-615. GADE 60, REBAR REINFORCING BARS ARE CLASSIFIED AS TOP BARS WHEN MORE THAN 12" OF CONCRETE IS CAST BENEATH RESPECTIVE REINFORCING BAR.

COMPRESSION SPLICES PERMISSIBLE ONLY WHERE SPECIFICALLY NOTED ON

THE DRAWINGS, DETAILS OR SCHEDULS. TENSION SPLICES SHALL BE USED IN ALL BEAMS, SLABS AND WALLS UNLESS

OTHERWISE NOTED WHEN LAPPING LARGER BAR WITH SMALLER BAR, LAP LENGTH FOR SMALLER

BAR SHALL GOVERN RESPECTIVE SPLICE. SPLICE CONTINUOUS TOP REINFORCING BARS AT CENTER OF CLEAR SPAN

WITH COMPRESSION SPLICES. SPLICE CONTINUOUS BOTTOM REINFORCING BARS AT CENTER OF SUPPORTING ELEMENT WITH COMPRESSION SPLICES

ALL SPLICE LENGTHS NOTED IN INCHES

SUPPLEMENTARY NOTES

1. ALL CONNECTORS LISTED ARE SIMPSON STRONG-TIE, UNLESS NOTED OTHERWISE. OTHER MANUFACTURERS MAY BE SUBSTITUTED. SCREW SIZE AND NUMBER SHALL BE IN ACCORDANCE WITH MANUFACTURER'S CATALOG. ROOF TRUSS CLIPS SHALL BE SELECTED TO PROVIDE THE UPLIFT RESISTANCE SHOWN ON THE ROOF TRUSS SHOP DRAWINGS.

2. PROVIDE ALL TEMPORARY BRACING, SHORING, GUYING OR OTHER MEANS TO AVOID EXCESSIVE STRESSES AND TO HOLD STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION. THE STRUCTURE SHOULD NOT BE CONSIDERED STABLE UNTIL ALL STRUCTURAL ELEMENTS HAVE BEEN CONSTRUCTED.

VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. SEE BUILDING, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR EMBEDS, OPENINGS, SLEEVES, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS. ALL STRUCTURAL OPENINGS AROUND OR AFFECTED BY MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT SHALL BE VERIFIED WITH EQUIPMENT PURCHASED BEFORE PROCEEDING WITH STRUCTURAL WORK AFFECTED. EMBEDMENT FOR EXPANSION BOLTS SHALL BE 6" MINIMUM FOR "4" BOLTS IN CONCRETE, 5

GROUTED MASONRY. HILTI KWIK BOLT II OR EQUAL. EPOXY GROUT SHALL BE POWER FAST CARTRIDGE SYSTEM BY RAWL, HY150 CARTRIDGE SYSTEM BY HILTI: (HILTI RE500, IF HOLE IS CORED INSTEAD OF DRILLED) OR APPROVED EQUAL, UON. EMBEDMENT SHALL BE 12 BAR DIAMETERS MINIMUM, UON. HOLES SHALL BE 1/2" LARGER THAN REBAR SIZE, AND //g" LARGER THAN THREADED ROD SIZE. HOLE SHALL BE BRUSHED OUT WITH BOTTLE BRUSH AND THEN BLOWN OUT WITH AIR USING A COMPRESSOR WITH A FUNCTIONAL OIL

TRAP. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS PRINTED

ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF AN ENGINEER IN THE STATE OF THE PROJECT. GENERAL CONTRACTOR MUST REVIEW AND APPROVE SHOP DRAWINGS PRIOR TO SUBMITTAL TO ENGINEER. SUBMITTALS WHICH DO NOT CONTAIN THE CONTRACTOR'S SHOP DRAWING STAMP OR HAVE BEEN MERELY "RUBBE STAMPED" SHALL BE RETURNED WITHOUT REVIEW.

CHANGES TO THE CONTRACT DOCUMENTS SHALL BE CLOUDED ON SHOP DRAWINGS OR REQUESTED IN WRITING. THE CONTRACTOR IS LIABLE FOR ANY DEVIATIONS UNLESS REVIEWED AND ACKNOWLEDGED BY THE ENGINEER. SHOP DRAWING SUBMITTALS SHALL ONLY BE CHECKED FOR CONFORMANCE WITH THE DESIGN CONCEPT AND THE INFORMATION SHOWN ON THE CONSTRUCTION DOCUMENTS.

TERMITE PROTECTION NOTES

1. SOIL CHEMICAL BARREIER METHOD: A PERMANNENT SIGN THAT IDENTIFIES THE TERMITE TREATMENT PROVIDER AND NEED FOR REINSPECTION AND TREATMENT CONTRACT RENEWAL SHALL BE PROVIDED. THE SIGN SHAL L BE POSTED NEAR THE WATER HEATER OR ELECTRIC PANEL. FBC 1042.6

2. CONDENSATE AND ROOF DOWNSPOUTS SHALL DISCHARGE AT LEAST 1'-0" AWAY FROM BUILDING SIDE WALLS. FBC 1503.4.4

3. IRRIGATION/SPRINKLERS SYSTEMS INCLUDING ALL RISERS AND SPRAY HEADS SHALL NOT BE INSTALLED WITHIN 1'-0" FROM BUILDING SIDE WALLS. FBC 1503.4. TO PROVIDE FOR INSPECTION FOR TERMITE INFESTATION BETWEEN WALL COVERINGS AND FINAL EARTH GRADE SHALL NOT BE LESS THAN 6". EXCEPTION: PAINT AND DECORATIVE CEMENTIOUS

FINISH LESS THAN %" THICK ADHERED DIRECTLY TO FOUNDATION WALL. FBC 1816.1.1 4. INITIAL TREATMENT SHALL BE DONE AFTER ALL EXCAVATION AND BACKFILL IS COMPLETE. FBC

5. SOIL DISTURBED AFTER THE INITIAL TREATMENT SHALL BE RETREATED INCLUDING SPACES BOXED OR FORMED. FBC 1816.1.2

6. BOXED AREAS IN CONCRETE FLOOR FOR SUBSEQUENT INSTALLATION OF TRAPS, ETC. SHALL BE MADE WITH PERMANENT METAL OR PLASTIC FORMS, PERMANENT FORMS MUST BE OF A SIZE AND DEPTH THAT WILL ILMINATE THE DISTURBANCE OF SOIL AFTER THE INITIAL TREATMENT. FBC 1816.1.3

7. MINIMUM 6 MIL VAPOR RETATRDER MUST BE INSTALLED TO PROTECT AGAINST RAINFALL DILUTION. IF RAINFALL OCCURS BEFORE VAPOR RETARDER PLACEMENT, RETREATMENT IS REQUIRED. FBC 1816.1.4

8. CONCRTE OVERPOUR AND MORTAR ALONG THE FOUNDATION PERIMETER MUST BE REMOVED BEFORE EXTERIOR SOIL TREATMENT. FBC. 1816.1.5

9. SOIL TREATMENT MUST BE APPLIED UNDER ALL EXTERIOR CONCRETE OR GRADE WITHIN 1'-0" OF THE STRUCTURE SIDEWALLS. FBC 1816.1.6

10. AN EXTERIOR VERTICAL CHEMICAL BARRIER MUST BE INSTALLED AFTER CONSTRUCTION IS COMPLETE INCLUDING LANDSCAPING AND IRRIGATION. ANY SOIL DISTURBED AFTER THE

VERTICAL BARRIER IS APPLIED, SHALL BE RETREATED. FBC 1916.1.6

11. ALL BUILDINGS ARE REQUIRED TO HAVE PRE-CONSTRUCTION TREATMENT. FBC 1816.1.6 12. A CERTIFICATE OF COMPLIANCE MUST BE ISSUED TO THE BUILDING DEPARTMENT BY A LICENSED PEST CONTROL COMPANY BEFORE A CERTIFICATE OF OCCUPANCY WILL BE ISSUED. THE CERTIFICATE OF COMPLIANCE SHALL STATE: "THE BUILDING HAS RECEIVED A COMPLTE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. THE TREATMENT IS IN ACCORDANCE WITH THE RULES AND LAWS OF THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES". FBC 1816.1.7

13. AFTER ALL WORK IS COMPLETED, LOOSE WOOD AND FILL MUST BE REMOVED FROM BELOW AND WITHIN 1'-0" OF THE BUILDING. THIS INCLUDES ALL GRADE STAKES, TUB TRAP BOXES, FORMS, SHORING OR OTHER CELLULOSE CONTAINING MATERIAL. FBC 503.1.3

14. NO WOOD, VEGETATION, STUMPS, CARDBOARD, TRASH, ETC., SHALL BE BURIED WITHIN 15'-0" OF ANY BUILDING OR PROPOSED BUILDING. FBC 3203.1.4

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