



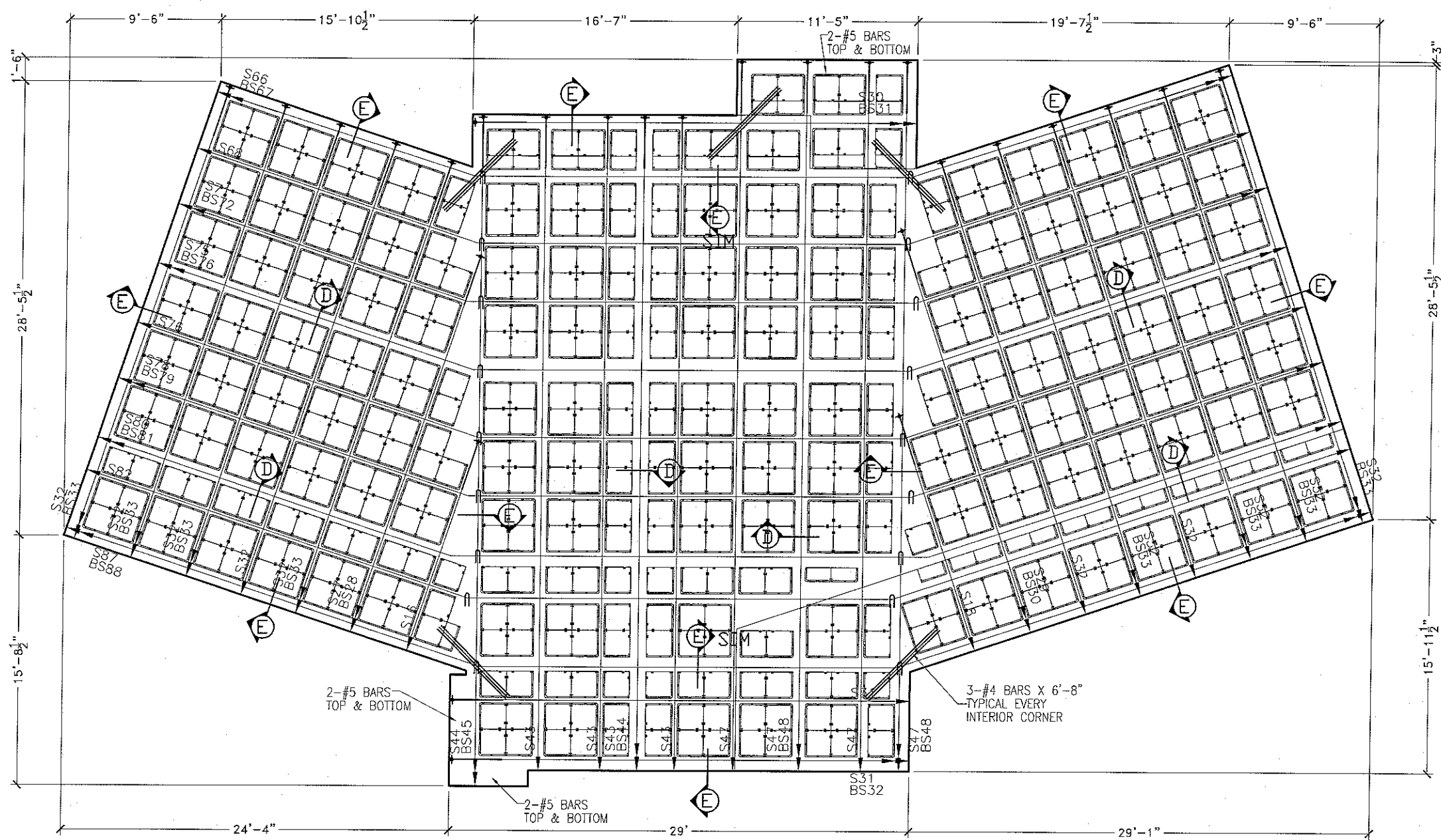
ERIC L. DAVIS ENGINEERING, INC.
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REMOVE 12" VEGETATION AND CLAY AND REPLACE WITH A MINIMUM WITH 18" COMPACTED SELECT FILL IN ACCORDANCE WITH GEOTECHNICAL REPORT BY KOHUTEK ENGINEERING & TESTING INC. PROJECT NO. 211263.001 DATED JANUARY 24, 2012.

PAD PREPARATION SHOULD EXTEND A MINIMUM OF 5' BEYOND THE PERIMETER OF FOUNDATION ON ALL SIDES.

MINIMUM 3000 PSI CONCRETE.

STRUCTURAL PLAN
 ENGINEERED FOR:
SHAWN CARROLL

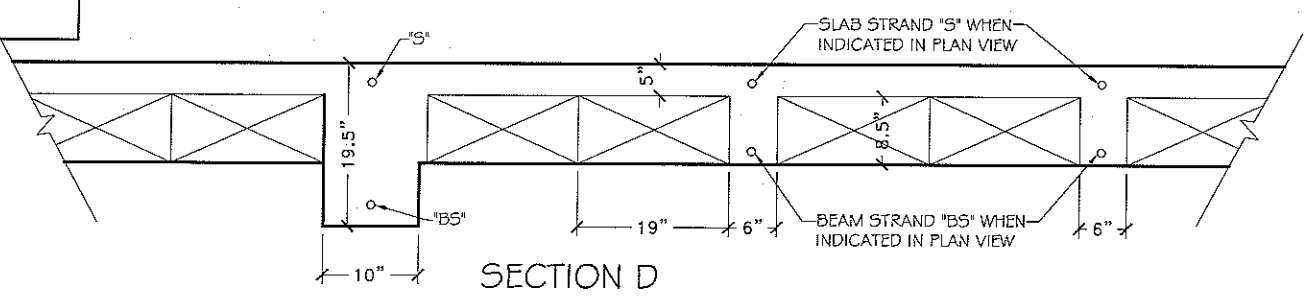
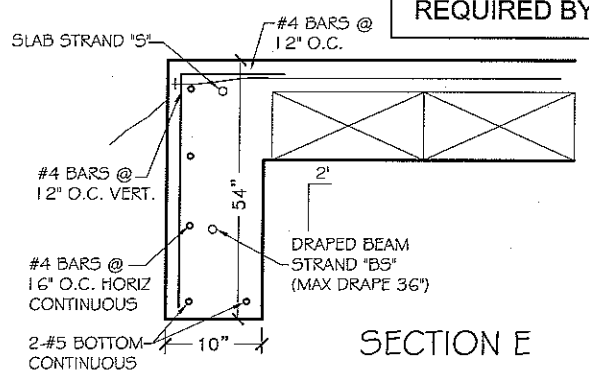
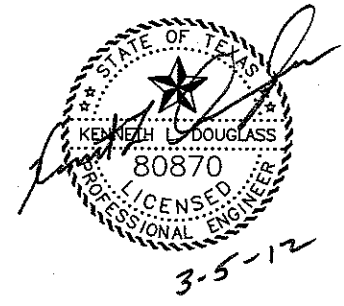


MINIMUM 6 MIL POLY UNDER ENTIRE SLAB.

50% PARTIAL STRESSING OF ALL TENDONS IN 24-36 HOURS AFTER POUR. FULL STRESSING IN 7-10 DAYS.

PRE-POUR MAKE-UP, POUR & ELONGATION INSPECTIONS REQUIRED BY ENGINEER.

REVISIONS	CODE
A 2/16/2012 ADD 48" MOISTURE BARRIER BEAM	KW T



- NOTES:
1. SLAB THICKNESS T = 5"
 2. E DEEP BEAM DEPTH H = 54"
 3. D DEEP BEAM DEPTH H = 19.5"
 4. DEEP BEAM WIDTH W = 10"
 5. SXX DENOTES SLAB STRAND.
 6. BSXX DENOTES BEAM STRAND.

- PLAN LEGEND
1. ——— DENOTES ONE STRAND TO BE STRESSED.
 2. ——— DENOTES TWO STRANDS TO BE STRESSED.
 3. ——— DENOTES THREE STRANDS TO BE STRESSED.
 4. ——— DENOTES FACTORY SEATED END.
 5. A DENOTES CONCRETE CHAIR.
 6. "*" DENOTES DIMENSION TO BE VERIFIED.
 7. "x" DENOTES DIFFERENCE IN FINISH FLOOR ELEVATIONS.

PLAN: CARROLL RESIDENCE
 ELD JOB NO.: HD112-118
 DRAWN BY: KW
 FIRM REGISTRATION #: 3987
 AREA: 2625 SQ. FT.

BUILDER: SHAWN CARROLL
 ADDITION: BASTROP COUNTY
 ADDRESS: 170 HIDDEN BLUFF
 LOT: N/A BLOCK: N/A
 CITY: SMITHVILLE, TEXAS

SCALE: 1/8"=1'-0"

SHEET F01

A. GENERAL NOTES

- THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE ALL THE FOUNDATION WORK AS SHOWN ON THE PLANS AND/OR REQUIRED.
- REFER TO FOUNDATION PLAN FOR THE GEOTECHNICAL INFORMATION USED IN THE DESIGN OF THIS FOUNDATION.
- ELD ENGINEERING, INC. RESERVES THE RIGHT TO TEMPORARILY STOP CONSTRUCTION OF THE FOUNDATION IF SOIL CONDITIONS ENCOUNTERED DIFFER FROM THOSE REPORTED.
- IT IS REQUIRED THAT THE PLACEMENT OF THE REINFORCEMENT AND POST-TENSION STRANDS BE VERIFIED AND APPROVED PRIOR TO PLACEMENT OF THE CONCRETE BY THE DESIGN ENGINEER OR HIS REPRESENTATIVE OR BY A REGISTERED PROFESSIONAL ENGINEER QUALIFIED TO PERFORM THIS TYPE OF INSPECTION.
- A MINIMUM OF 24 HOURS ADVANCED NOTICE IS REQUESTED FOR SCHEDULING INSPECTIONS. CONCRETE SHALL BE POURED WITHIN FOUR (4) DAYS OF INSPECTION.
- ENGINEER TO BE CONSULTED REGARDING ANY NOTABLE CHANGE IN FOUNDATION CONSTRUCTION FROM WHAT IS DETAILED ON PLAN.
- CONSTRUCTION JOINTS ARE PROHIBITED UNLESS NOTED OTHERWISE.
- FOUNDATION SHALL BE PLACED MONOLITHICALLY TO AVOID "COLD JOINTS." I.E., PLACEMENT SHALL PROCEED FROM START TO FINISH IN A MONOLITHIC FASHION WHERE COLD JOINTS ARE TO BE AVOIDED DUE TO DELAYS. CONTRACTOR SHALL CONSOLIDATE CONCRETE BY VIBRATING THROUGH COLD JOINT BOUNDARY. IF LONG DELAY IS ANTICIPATED, CONTRACTOR SHALL FORM BULKHEAD OR OTHERWISE CREATE A VERTICAL CONTROL SURFACE FOR INSERTION OF #4 DETERMINED DOWELS AT 18" O.C. IN SLAB AND
- 2-#6X30 INCH DEFORMED DOWELS TOP AND BOTTOM OF BEAMS. NO. 4 AND NO. 6 DOWELS TO BE DRILLED AND EPOXIED 6 AND 8 INCHES, RESPECTFULLY.
- ELD ENGINEERING, INC. ASSUMES NO RESPONSIBILITY FOR THE PLACEMENT, CONSTRUCTION OR BRACING OF THE CONCRETE FORMS FOR THIS FOUNDATION.
- WHERE DISCREPANCIES BETWEEN FOUNDATION DIMENSIONS AND ARCHITECTURAL PLANS ARE NOTED, ARCHITECTURAL PLANS SHALL CONTROL. DO NOT SET FORMS BASED ON FOUNDATION DIMENSIONS. INFORM ENGINEER OF ANY DISCREPANCIES.
- COORDINATE STRUCTURAL DRAWINGS WITH ARCHITECTURAL DRAWINGS FOR ALL OPENINGS, DROPS, INSERTS, SLOPES, BRICK-LEDGES AND RELATED ITEMS.

B. MATERIALS

- CONCRETE SHALL BE NORMAL WEIGHT, TRANSIT MIXED AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI @ 28 DAYS UNLESS INDICATED OTHERWISE.
- CONCRETE SHALL BE IN ACCORDANCE WITH ACI-318, ACI-301 AND ASTM C94. WATER CONTENT SHALL BE CONTROLLED & MINIMIZED IN ACCORDANCE WITH ACI AS REFERENCED.
- MINIMUM CEMENT CONTENT SHALL BE 4-1/2 SACKS PER CUBIC YARD WITH A MAXIMUM SLUMP OF 5-1/2 INCHES AND A MINIMUM SLUMP OF 2-1/2 INCHES AND 15 PERCENT MAXIMUM FLYASH.
- ADMIXTURE: CHEMICAL MIXTURE, IF APPROVED OR CALLED FOR, SHALL BE IN ACCORDANCE WITH ASTM C-494. AIR ENTRAINING MIXTURE, IF REQUIRED OR CALLED FOR, SHALL BE IN ACCORDANCE WITH ASTM C-260.
- ALL CONVENTIONAL REINFORCING BARS SHALL BE GRADE 60 IN ACCORDANCE WITH ASTM A615, UNLESS NOTED OTHERWISE.
- STIRRUPS AND TIES: ASTM A-615, GRADE 40, UNLESS NOTED OTHERWISE.
- ALL REINFORCEMENT AND POST-TENSION STRANDS SHALL BE DESIGNED, DETAILED, AND INSTALLED IN ACCORDANCE WITH THE ACI "MANUAL OF STANDARD PRACTICES FOR DETAILING CONCRETE STRUCTURES" (ACI 315, LATEST EDITION) AND/OR THE P.T.I DESIGN & CONSTRUCTION MANUAL, (2ND AND 3RD EDITIONS).
- SELECT FILL MATERIAL SHALL BE CLEAN EARTH OF GOOD GRADATION AND FREE OF ALL OBJECTIONABLE AND FOREIGN OBJECTS. PLASTICITY INDEX SHALL BE 15 OR LESS AND HAVE A MAXIMUM LIQUID LIMIT OF 40, MAXIMUM AGGREGATE SIZE SHALL BE 3/4 INCH.

C. SITE PREPARATION

- IT IS CONTRACTORS RESPONSIBILITY TO LOCATE EXISTING UTILITIES PRIOR TO EXCAVATION. CONTRACTOR SHALL EXERCISE CAUTION DURING EXCAVATION TO AVOID DAMAGE TO UNDERGROUND UTILITIES. CONTRACTOR SHALL INFORM UTILITY OWNERS IN ADVANCE TO ENABLE THEM TO IDENTIFY AND LOCATE, REROUTE OR TO MAKE OTHER ADJUSTMENTS IN ORDER FOR WORK TO PROCEED WITH MINIMAL DELAYS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING OWNER AND ENGINEER IMMEDIATELY OF ANY SPECIAL OR UNANTICIPATED SOIL OR WATER CONDITIONS THAT ARE PRESENT ON-SITE. DO NOT PROCEED FURTHER WITH WORK UNTIL NOTIFIED TO DO SO.
- BEFORE ANY CONSTRUCTION BEGINS, PERFORM ROUGH GRADING AND CUT SWALES SO THAT GROUNDS WILL DRAIN AWAY FROM THE FOUNDATION AND OFF THE PROPERTY DURING ALL PHASES OF CONSTRUCTION. PRECAUTIONS SHALL BE TAKEN TO PROTECT OPEN EXCAVATIONS FROM EXCESSIVE LOSS OR GAIN IN NATURAL MOISTURE LEVEL DURING CONSTRUCTION. KEEP EXCAVATIONS MOIST DURING DRY WEATHER AND KEEP STORM WATER PUMPED OUT.
- PRIOR TO CONSTRUCTION, EXISTING GRADE WITHIN FOUNDATION LIMITS SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 6 INCHES IN ORDER TO REMOVE ALL BRUSH, ROOTS, VEGETATION, HUMUS AND ANY OBJECTIONABLE MATTER OR OBJECTS ENCOUNTERED. TREE STUMPS AND ROOTS SHALL BE GRUBBED TO A MINIMUM DEPTH OF 2 FEET BELOW GRADE AND DISTURBED SOIL SHALL BE HAND TAMPED.
- SCARIFIED AND GRUBBED AREAS ARE TO BE PROOF-ROLLED PRIOR TO PLACEMENT OF FILL AND CONSTRUCTION FORMS.
- AFTER SCARIFICATION AND PROOF-ROLLING, THE SITE CAN BE BROUGHT UP TO CONSTRUCTION LEVEL BY EITHER (A) CONSTRUCTING AN ENGINEERED PAD, (B) BY USING BAGGED FILL OR (C) CONSTRUCTING A PAD WITH SITE SPOILS.
- (A) CONSTRUCTING AN ENGINEERED PAD. IF AN ENGINEERED PAD IS TO BE CONSTRUCTED, SELECT STRUCTURAL FILL AS SPECIFIED IN NOTE B.8 IS TO BE PLACED IN LOOSE LIFTS NOT TO EXCEED EIGHT (8) INCHES IN THICKNESS. THE FILL IN EACH LIFT IS TO BE COMPACTED TO NOT LESS THAN 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM DENSITY TEST NO. D-698, METHOD A (STD. PROCTOR TEST). ALLOWABLE VARIATION IN MOISTURE CONTENT SHALL BE +/- 2% OF OPTIMUM MOISTURE CONTENT. THE FILL MATERIAL AND COMPACTION PROCESS SHALL BE CERTIFIED BY THE GEOTECHNICAL ENGINEER OF RECORD OR A QUALIFIED INDEPENDENT MATERIAL TESTING LABORATORY. THE CONTRACTOR SHALL ALSO SUBMIT COMPACTION TEST RESULTS TO THE FOUNDATION ENGINEER FOR APPROVAL AFTER THE PAD IS CONSTRUCTED TRENCHES FOR THE GRADE BEAMS CAN BE CUT INTO THE PAD, ENSURING THE SPECIFIED MINIMUM BEAM DEPTHS ARE SATISFIED.
- (B) USING BAGGED FILL. IF BAGGED FILL IS TO BE USED, SELECT STRUCTURAL FILL AS SPECIFIED IN NOTE B.8 IS TO BE PLACED IN PLASTIC-LINED BAGGING TO FORM BEAMS. SPECIFIED MINIMUM EXTERIOR AND INTERIOR BEAM DEPTHS ARE TO BE SATISFIED OR MUST BEAR ON LIMESTONE UNLESS NOTED OTHERWISE. IF FILL DEPTHS BELOW INTERIOR GRADE BEAMS EXCEED 4 FEET, CONCRETE PIERS (HARD POINTS) MUST BE PROVIDED AT BEAM INTERSECTIONS. REFERENCE PIER NOTE OR CALL ELD ENGINEERING IF DETAIL IS NOT PROVIDED.

F. LIMITATIONS

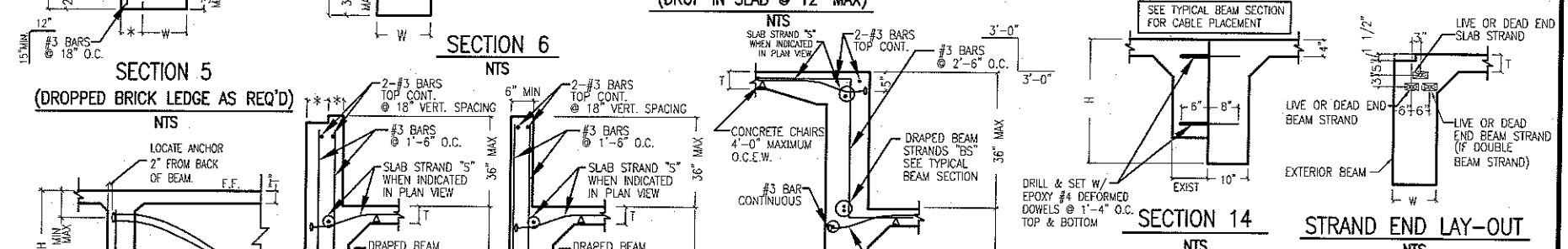
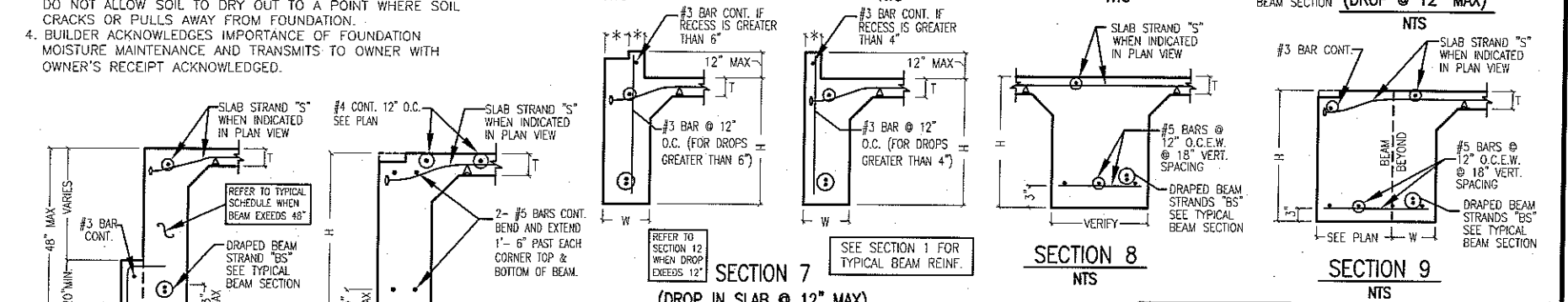
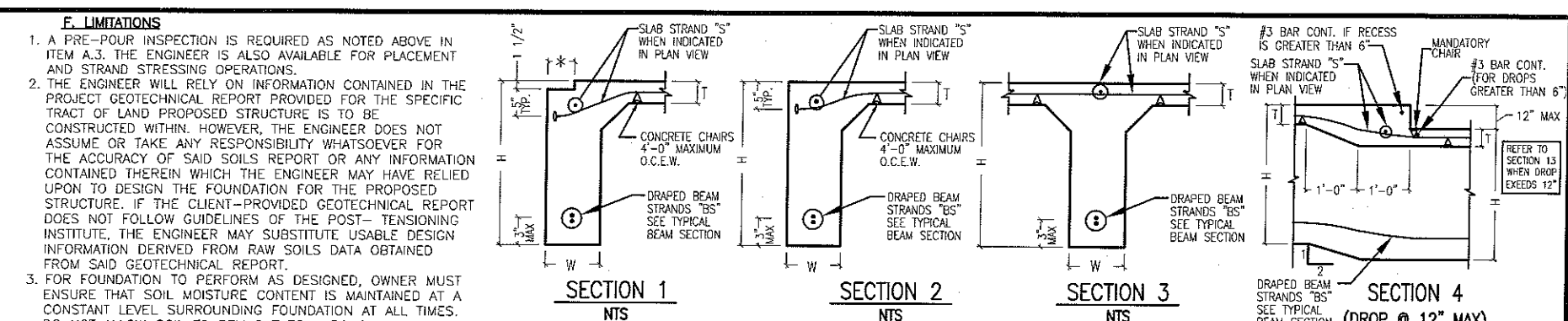
- A PRE-POUR INSPECTION IS REQUIRED AS NOTED ABOVE IN ITEM A.3. THE ENGINEER IS ALSO AVAILABLE FOR PLACEMENT AND STRAND STRESSING OPERATIONS.
- THE ENGINEER WILL RELY ON INFORMATION CONTAINED IN THE PROJECT GEOTECHNICAL REPORT PROVIDED FOR THE SPECIFIC TRACT OF LAND PROPOSED STRUCTURE IS TO BE CONSTRUCTED WITHIN. HOWEVER, THE ENGINEER DOES NOT ASSUME OR TAKE ANY RESPONSIBILITY WHATSOEVER FOR THE ACCURACY OF SAID SOILS REPORT OR ANY INFORMATION CONTAINED THEREIN WHICH THE ENGINEER MAY HAVE RELIED UPON TO DESIGN THE FOUNDATION FOR THE PROPOSED STRUCTURE. IF THE CLIENT-PROVIDED GEOTECHNICAL REPORT DOES NOT FOLLOW GUIDELINES OF THE POST-TENSIONING INSTITUTE, THE ENGINEER MAY SUBSTITUTE USABLE DESIGN INFORMATION DERIVED FROM RAW SOILS DATA OBTAINED FROM SAID GEOTECHNICAL REPORT.
- FOR FOUNDATION TO PERFORM AS DESIGNED, OWNER MUST ENSURE THAT SOIL MOISTURE CONTENT IS MAINTAINED AT A CONSTANT LEVEL SURROUNDING FOUNDATION AT ALL TIMES. DO NOT ALLOW SOIL TO DRY OUT TO A POINT WHERE SOIL CRACKS OR PULLS AWAY FROM FOUNDATION.
- BUILDER ACKNOWLEDGES IMPORTANCE OF FOUNDATION MOISTURE MAINTENANCE AND TRANSMITS TO OWNER WITH OWNER'S RECEIPT ACKNOWLEDGED.

D. CONSTRUCTION

- SITE GRADING AND DRAINAGE AROUND FOUNDATION SHALL BE MAINTAINED AT ALL TIMES IN SUCH A MANNER THAT SURFACE OR GROUND WATER WILL NOT COLLECT AROUND FOUNDATION. ADEQUATE POSITIVE DRAINAGE SHALL BE PROVIDED AND MAINTAINED SLOPING AWAY FROM FOUNDATION A MINIMUM OF 2-5% (1/4"-5/8 IN/FT) FOR A MINIMUM DISTANCE OF 5'-0" FROM FOUNDATION EDGE.
- FINAL GRADES SHALL HAVE POSITIVE DRAINAGE SLOPING AWAY FROM FOUNDATION AT THE ABOVE-PRESCRIBED PERCENTAGES. A MINIMUM OF 8" CLEARANCE (FREEBOARD) BETWEEN THE TOP OF THE SLAB AND/OR BRICK LEDGE AND THE FINAL GRADE SHALL BE MAINTAINED.
- A 4-INCH SAND OR SELECT FILL CUSHION LAYER UNDER SLAB SHALL BE PROVIDED UNLESS NOTED OTHERWISE. SEE NOTE C.6.(C) NO MORE THAN 20% MATERIAL SHALL PASS THROUGH A #200 SIEVE. MAXIMUM AGGREGATE SIZE SHALL BE 3/4 INCH. CUSHION NOT REQUIRED IF BUILDING PAD IS COMPACTED SELECT FILL OR IF THE PLASTICITY INDEX OF THE SUBGRADE IS 15 OR LESS.
- BEAM TRENCHES SHALL BE CLEAN AND FREE OF LOOSE SOIL AND DEBRIS. EXTERIOR BEAMS MUST PENETRATE UNDISTURBED SOIL OR PROPERLY COMPACTED SOIL 12" MINIMUM UNLESS SPECIFIED OTHERWISE ON PLAN SHEET OR UNLESS PIERS ARE SPECIFIED.
- A LAYER OF 6 MIL POLYETHYLENE VAPOR BARRIER WITH MINIMUM 24" LAPPED JOINTS SHALL BE PLACED UNDER SLAB AND INTERIOR BEAMS UNLESS NOTED OTHERWISE. THE VAPOR BARRIER SHALL EXTEND DOWN INTO THE EXTERIOR BEAMS NO MORE THAN 18" AND SHALL NOT COVER THE BOTTOM OR OUTSIDE FACE OF THE BEAM.
- SLAB TENDONS AND STEEL REINFORCEMENT SHALL BE SECURELY SUPPORTED TO PREVENT VERTICAL AND HORIZONTAL MOVEMENT DURING PLACEMENT OF CONCRETE AND SHALL BE SUPPORTED WITH PLASTIC CHAIRS OR BOLSTERS AT 4" MAXIMUM INTERVALS UNLESS APPROVED OTHERWISE. TENDONS SHALL BE TIED AT ALL INTERSECTIONS AND MAY NOT BE TIED USING S-HOOKS.
- MINIMUM LAP AND SPLICE LENGTH FOR A REINFORCEMENT BAR SHALL BE 40 TIMES THE DIAMETER OF THE LARGER BAR.
- CORNER BARS ARE REQUIRED IN BEAMS THAT CONTAIN STEEL REINFORCEMENT. CORNER BARS SHALL BE SIZED THE SAME AS THE LARGEST HORIZONTAL BEAM STEEL REINFORCEMENT. CORNER BARS SHALL BE 24" LONG AT EACH LEG AND PROVIDED AT EACH EXTERIOR (PERIPHERAL) BEAM CORNER WITH ONE AT TOP AND ONE AT BOTTOM, WITH A MAXIMUM VERTICAL SPACING OF 48".
- MINIMUM COVER OF 3 INCHES AT BOTTOM OF BEAM AND 1 1/2 INCHES AT BEAM SIDES SHALL BE PROVIDED FOR ALL BEAM REINFORCING. SLAB REINFORCEMENT SHALL HAVE MINIMUM 1 1/2 INCHES OF TOP COVER, UNLESS NOTED OTHERWISE.
- BEAM DIMENSIONS SHOWN ARE MINIMUM SIZE REQUIRED BY DESIGN AND MAY NOT BE REDUCED WITHOUT PRIOR APPROVAL OF THE ENGINEER UNLESS LIMESTONE (ROCK) IS ENCOUNTERED. IN SUCH CASE, BEAM DEPTH MAY BE REDUCED TO 12" MINIMUM, BUT MINIMUM FREEBOARD PRESCRIBED ABOVE IN D.2 MUST BE MAINTAINED.
- PLUMBING LINES SHALL NOT BE LOCATED INSIDE BEAMS, EXCEPT AT OR NEAR PERPENDICULAR CONFIGURATION TO BEAMS.
- CONTRACTOR SHALL REMOVE ANY STANDING WATER AND DEBRIS FROM FOUNDATION EXCAVATIONS PRIOR TO CONCRETE PLACEMENT.
- SAND OR GRAVEL BEDDING MATERIAL FOR UTILITIES SHALL NOT BE USED WITHIN 5' OF FOUNDATION EDGE. A CLAY PLUG SHALL BE PROVIDED TO PREVENT WATER INFILTRATION UNDER SLAB.
- WATER CUTOFF VALVES AND PIPE TRANSITIONS SHALL NOT BE INSTALLED WITHIN 5' OF FOUNDATION EDGE.
- IRRIGATION SYSTEMS SHALL NOT SPRAY DIRECTLY ON FOUNDATION.
- SIDEWALKS AND DRIVES SHALL BE GRADED TO SLOPE AWAY FROM FOUNDATION TO ELIMINATE AND PREVENT PONDING OF WATER.
- LANDSCAPING SHALL NOT AFFECT FINAL GRADE. EXCAVATION OF SOILS ADJACENT TO FOUNDATION FOR PURPOSE OF LANDSCAPING ARE PROHIBITED. LANDSCAPING SHALL BE PLACED ON TOP OF FINAL GRADE. SOLID LANDSCAPE EDGING SHALL NOT BE USED.
- FOR SOILS WITH A PLASTICITY INDEX GREATER THAN 15, TREES AND SHRUBS SHALL NOT BE LOCATED CLOSER TO FOUNDATION THAN A HORIZONTAL DISTANCE EQUAL TO THE ESTIMATED DRIP LINE OF MATURE TREE OR SHRUB WITHOUT INSTALLATION OF PIERS OR ROOT BARRIER. A ROOT BARRIER SHALL CONSIST OF A DEEPENED EXTERIOR BEAM 48" BELOW EXISTING GRADE OR TO LIMESTONE (ROCK) WITH A LENGTH OF ROUGHLY ONE HALF OF TREE OR SHRUBS MATURE HEIGHT CENTERED PERPENDICULARLY.

E. POST-TENSION CONSTRUCTION

- ALL STRANDS SHALL BE FABRICATED FROM 1/2" DIAMETER, 270 KSI LOW RELAXATION STRANDS IN ACCORDANCE WITH ASTM A416. STRANDS SHALL BE GREASED WITH A CORROSION INHIBITOR AND PROTECTED WITH A PLASTIC SHEATH. STRAND LENGTHS SHALL BE THE RESPONSIBILITY OF THE SUPPLIER. SLAB AREA, CONCRETE CALCS, AND STRAND COUNTS ARE FOR ESTIMATING PURPOSES ONLY. BUILDER SHALL VERIFY ALL QUANTITIES PRIOR TO CONSTRUCTION.
- ALL POST-TENSIONING MATERIALS WILL BE SUPPLIED BY A P.T.I. CERTIFIED PLANT. ALL STRANDS SHOULD BE TENSIONED BY P.T.I. CERTIFIED PERSONNEL.
- A MAXIMUM OF 1 INCH OF EXPOSED PRESTRESSING STEEL IS ALLOWED BEHIND THE STRESSING END ANCHORS AND A MAXIMUM OF 12 INCHES IS ALLOWED AT THE FIXED-END ANCHORS. IN ADDITION, RIPS AND TEARS 1 INCH OR LESS IN LENGTH MAY BE LEFT UNREPAIRED.
- EACH STRAND DURING STRESSING OPERATIONS SHALL BE INITIALLY STRESSED TO 33.0 KIPS AND SEATED AT 28.9 KIPS.
- SLAB OR BEAM TENDONS OVER 100 FEET IN LENGTH SHALL BE PROVIDED WITH "LIVE" ENDS AT BOTH ENDS, UNLESS APPROVED OTHERWISE.
- THE STRESSING OPERATION SHALL NOT BE PERFORMED UNTIL THE CONCRETE HAS ATTAINED A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI (USUALLY 5 TO 7 DAYS). STRESSING OPERATION SHALL NOT BE DELAYED MORE THAN 10 DAYS AFTER PLACEMENT OF CONCRETE.
- PROJECTING ENDS OF STRANDS SHALL BE CUT OFF AND CAPPED AFTER STRESSING HAS BEEN PROPERLY COMPLETED AND APPROVED BY THE OWNER'S REPRESENTATIVE. AFTER COMPLETION OF STRESSING OPERATION, THE EXCESS STRAND OR "PIGTAIL" SHALL BE CUT OFF, AND THE STRESSING POCKETS SHALL BE GROUTED FULLY WITH NON-SHRINK GROUT.



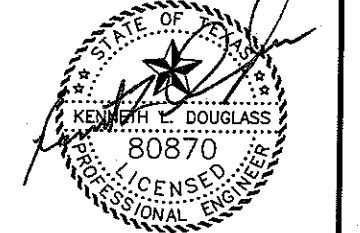
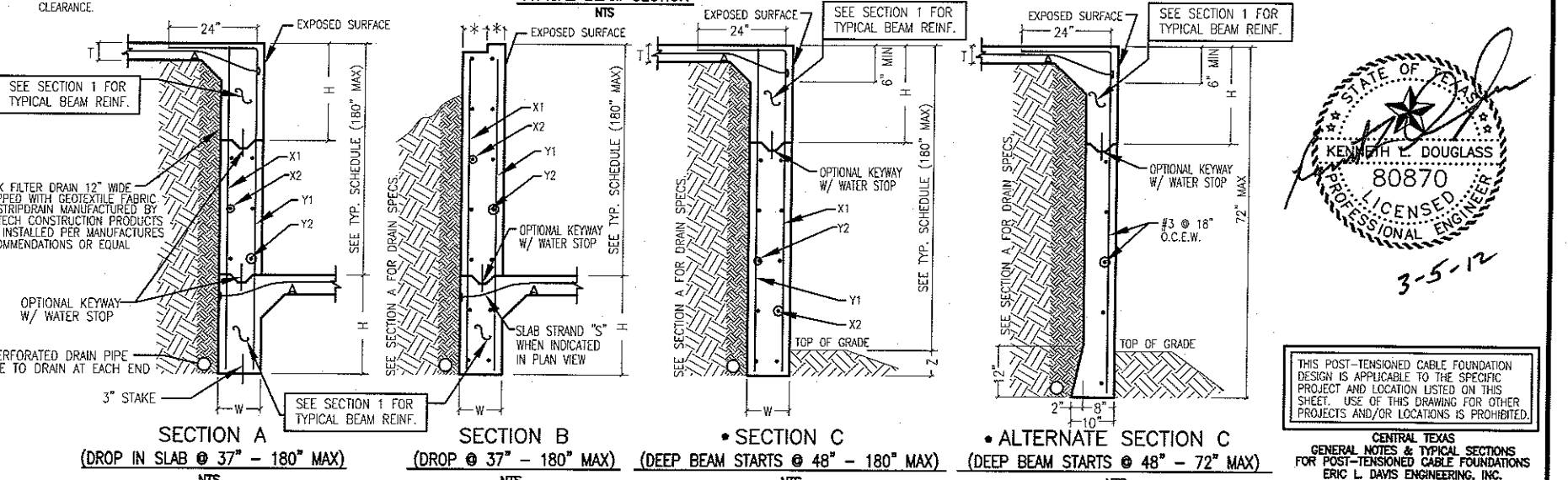
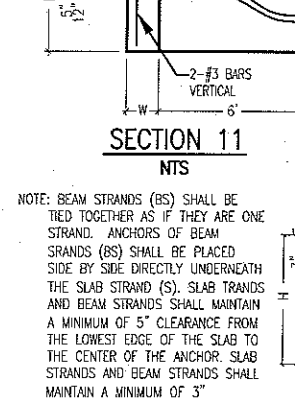
TYPICAL SCHEDULE

DEPTH/DROP	WIDTH	X1	X2	Y1	Y2	Z
37"-47"	10"	#3 @ 18"	#3 @ 24"	#3 @ 24"	#3 @ 24"	12" SOIL/ 1" ROCK
48"-72"	10"	#3 @ 18"	#3 @ 18"	#3 @ 18"	#3 @ 18"	12" SOIL/ 2" ROCK
73"-96"	10"	#4 @ 18"	#3 @ 18"	#4 @ 24"	#3 @ 18"	12" SOIL/ 2" ROCK
97"-132"	12"	#4 @ 12"	#3 @ 18"	#4 @ 24"	#3 @ 18"	16" SOIL/ 4" ROCK
133"-156"	14"	#5 @ 12"	#4 @ 18"	#4 @ 18"	#3 @ 18"	16" SOIL/ 4" ROCK
157"-180"	14"	#6 @ 12"	#4 @ 12"	#5 @ 24"	#3 @ 18"	4" ROCK

NOTE: SECTION C (DEEP BEAM) APPLIES AFTER 48" OF EXPOSED SURFACE TO TOP OF GRADE

NOTE: APPLY PIERS (HARD POINTS) AT INTERIOR BEAM INTERSECTIONS WHEN BAGGED FILL UNDER INTERIOR BEAMS IS ≥ 48", SEE NOTE C6B.

- PIERS (HARD POINTS):**
- ALL PIERS (HARD POINTS) LESS THAN 8 FEET DEEP SHALL BE 12" IN DIAMETER WITH 1-#5 BAR VERTICAL.
 - PIERS SHALL BE PLACED 12" INTO UNDISTURBED SOIL OR TO LIMESTONE.
 - FOR PIERS DEEPER THAN 8 FEET USE 4-#4 VERTICAL W/ #3 TIES @ 12" O.C. CONSULT ENGINEER FOR PIER DEPTHS GREATER THAN 15 FEET.



3-5-12

THIS POST-TENSIONED CABLE FOUNDATION DESIGN IS APPLICABLE TO THE SPECIFIC PROJECT AND LOCATION LISTED ON THIS SHEET. USE OF THIS DRAWING FOR OTHER PROJECTS AND/OR LOCATIONS IS PROHIBITED.

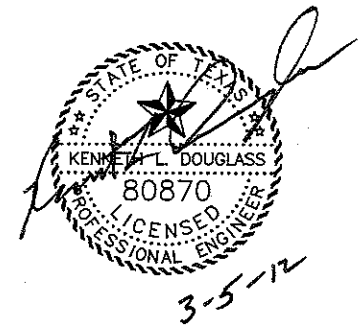
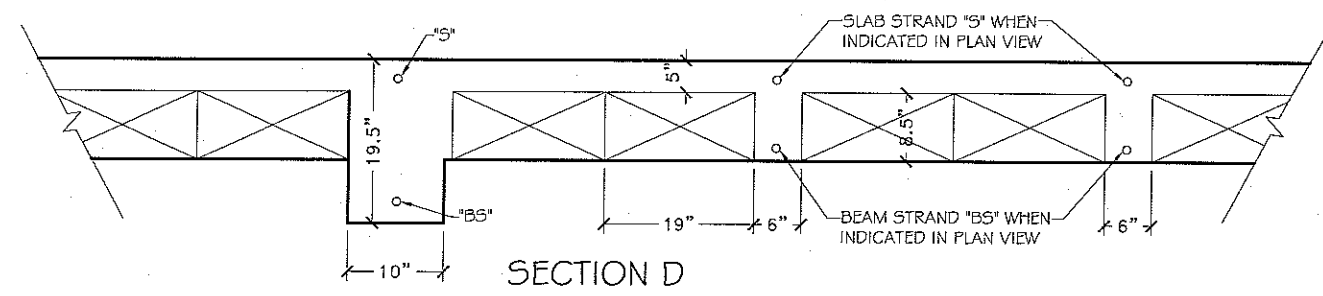
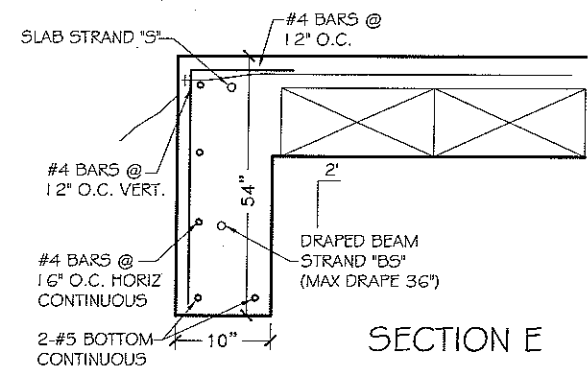
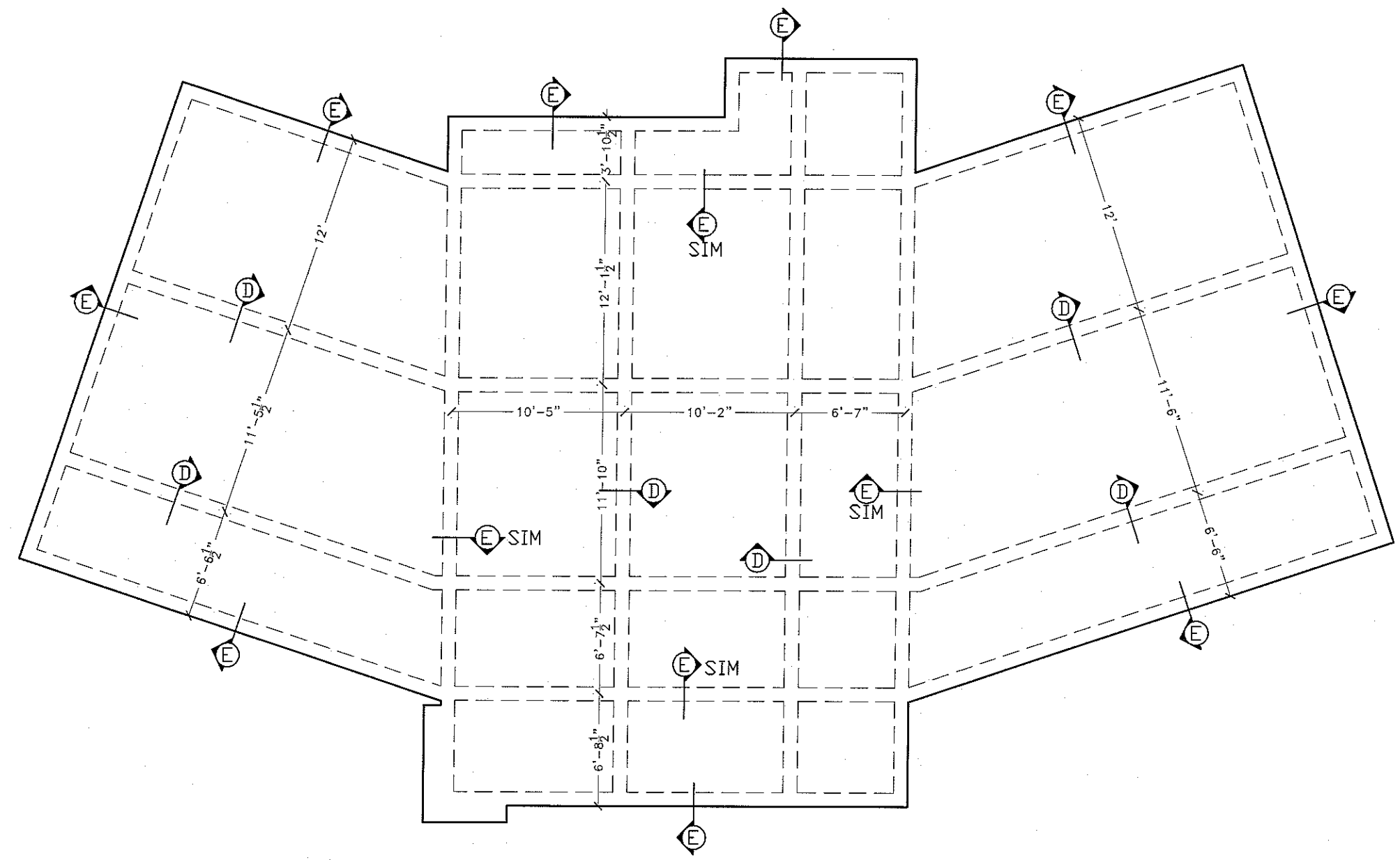
CENTRAL TEXAS
GENERAL NOTES & TYPICAL SECTIONS
FOR POST-TENSIONED CABLE FOUNDATIONS
ERIC L. DAVIS ENGINEERING, INC.
FIRM REGISTRATION #F-3987



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BEAM LAYOUT
 ENGINEERED FOR:

SHAWN CARROLL



- NOTES:
1. SLAB THICKNESS T = 5"
 2. E DEEP BEAM DEPTH H = 54"
 3. D DEEP BEAM DEPTH H = 19.5"
 4. DEEP BEAM WIDTH W = 10"
 5. SXX DENOTES SLAB STRAND.
 6. BSXX DENOTES BEAM STRAND.

BUILDER: SHAWN CARROLL	PLAN: CARROLL RESIDENCE
ADDITION: BASTROP COUNTY	ELD JOB NO.: HD112-118
ADDRESS: 170 HIDDEN BLUFF	DRAWN BY: KW
LOT: N/A	FIRM REGISTRATION #: 3987
CITY: SMITHVILLE, TEXAS	AREA: 2625 SQ. FT.

SCALE: 1/8" = 1'-0"

SHEET F02



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WAFFLEMAT BOX PLACEMENT
 ENGINEERED FOR

SHAWN CARROLL

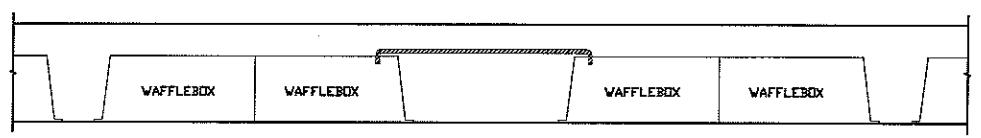
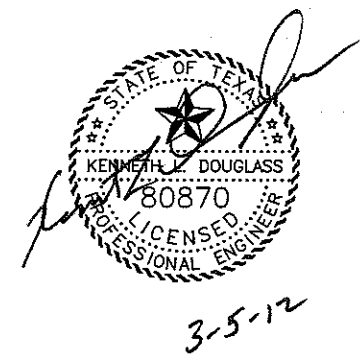
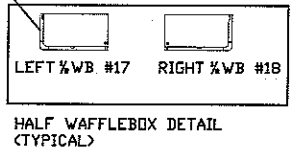
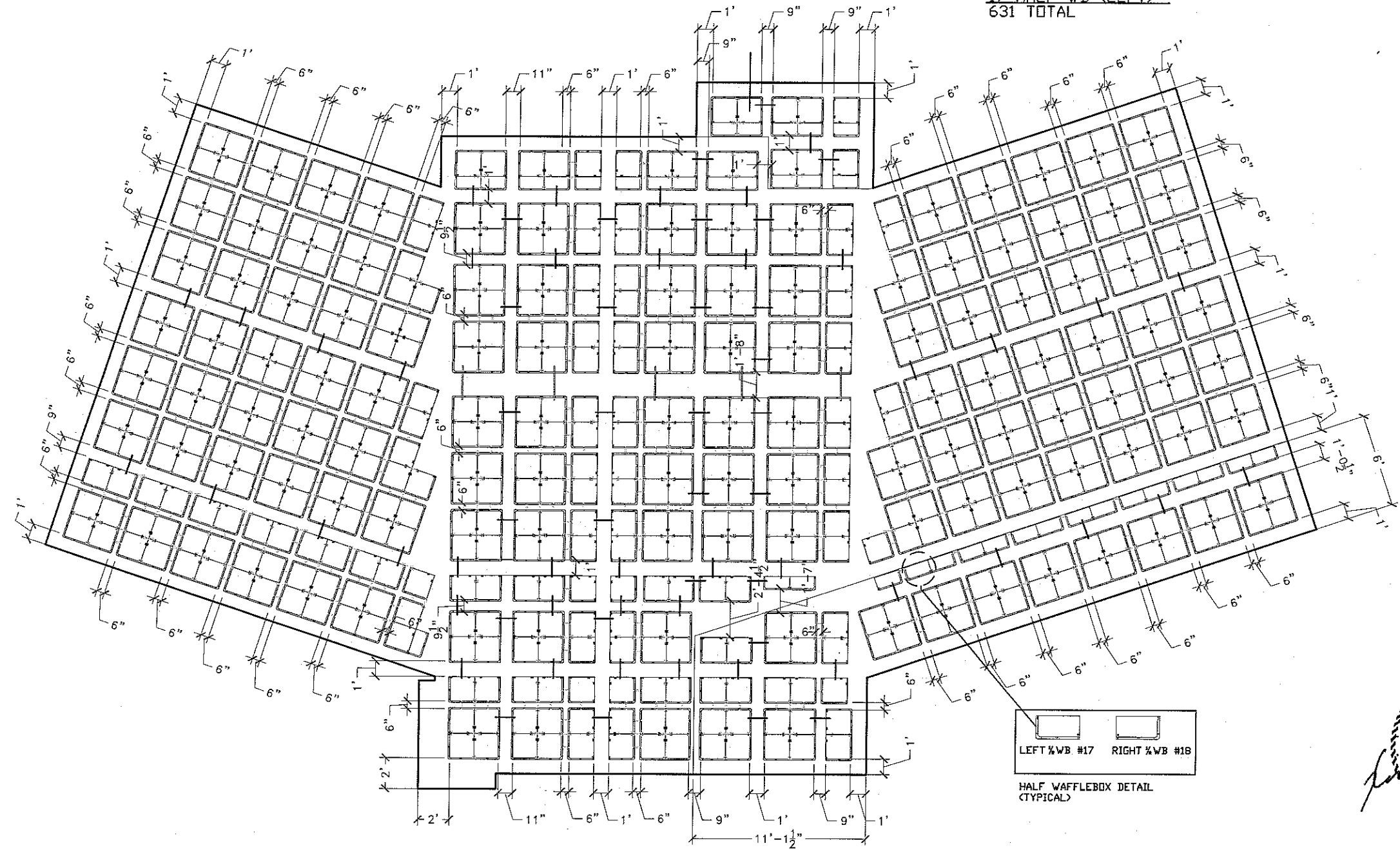
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BUILDER: SHAWN CARROLL
 ADDITION: BASTROP COUNTY
 ADDRESS: 170 HIDDEN BLUFF
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 CITY: SMITHVILLE, TEXAS

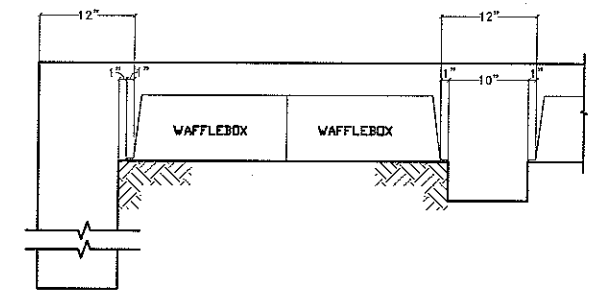
SCALE: 1/8"=1'-0"

SHEET F03

596 FULL WB
 35 HALF WB
 18 HALF WB (RIGHT)
 17 HALF WB (LEFT)
 631 TOTAL



REBAR TYPICAL SECTION DETAIL





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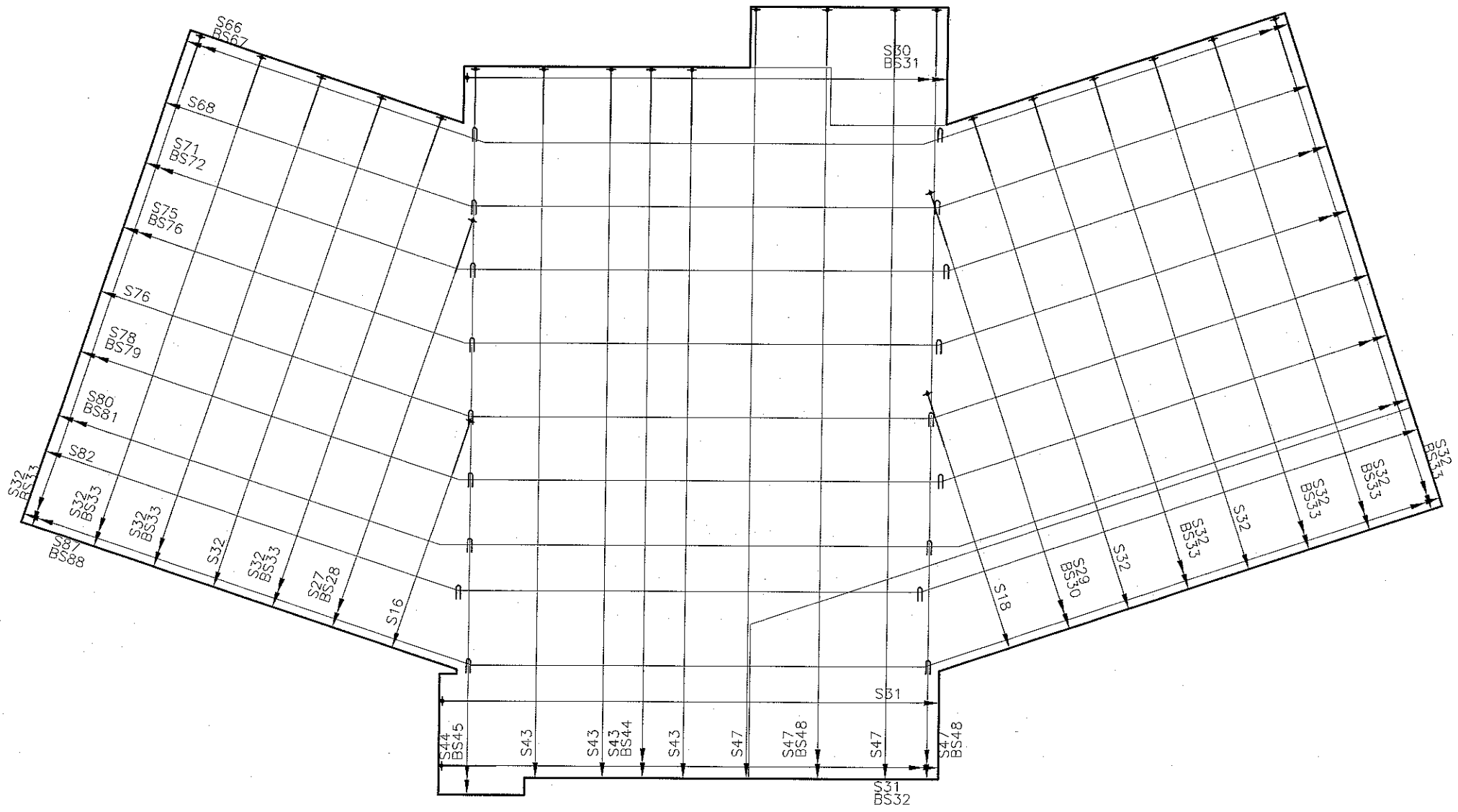
TENDON PLACEMENT
 ENGINEERED FOR

SHAWN CARROLL

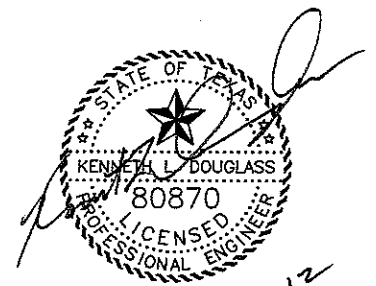
PLAN: CARROLL RESIDENCE
 ELD JOB NO.: HD112-118
 DRAWN BY: KW
 FIRM REGISTRATION #: 3987
 AREA: 2625 SQ. FT.

SCALE: 1/8"=1'-0"

SHEET F04



STRAND MATERIAL LIST				
Qty.	Strand Mark	-10% (in)	Elongation (in)	+10% (in)
1	S16	1"	1 1/16"	1 3/16"
1	S18	1 1/8"	1 1/4"	1 3/8"
1	S27	1 3/4"	1 15/16"	2 1/8"
1	S29	1 7/8"	2 1/8"	2 5/16"
1	S30	1 15/16"	2 3/16"	2 3/8"
2	S31	2 1/16"	2 1/4"	2 1/2"
11	S32	2 1/8"	2 5/16"	2 9/16"
4	S43	2 7/8"	3 3/16"	3 1/2"
1	S44	2 15/16"	3 1/4"	3 5/8"
4	S47	3 3/16"	3 1/2"	3 7/8"
1	S66	4 1/2"	5"	5 1/2"
1	S68	4 5/8"	5 1/8"	5 11/16"
1	S71	4 13/16"	5 3/8"	5 15/16"
1	S75	5 1/8"	5 11/16"	6 1/4"
1	S76	5 3/16"	5 3/4"	6 3/8"
1	S78	5 5/16"	5 15/16"	6 1/2"
1	S80	5 1/2"	6 1/16"	6 11/16"
1	S82	5 5/8"	6 1/4"	6 7/8"
1	S87	5 15/16"	6 5/8"	7 5/16"
1	BS28	1 3/4"	1 15/16"	2 1/8"
1	BS30	1 7/8"	2 1/8"	2 5/16"
1	BS31	1 15/16"	2 3/16"	2 3/8"
1	BS32	2 1/16"	2 1/4"	2 1/2"
8	BS33	2 1/8"	2 5/16"	2 9/16"
1	BS44	2 7/8"	3 3/16"	3 1/2"
1	BS45	2 15/16"	3 1/4"	3 5/8"
2	BS48	3 3/16"	3 1/2"	3 7/8"
1	BS67	4 1/2"	5"	5 1/2"
1	BS72	4 13/16"	5 3/8"	5 15/16"
1	BS76	5 1/8"	5 11/16"	6 1/4"
1	BS79	5 5/16"	5 15/16"	6 1/2"
1	BS81	5 1/2"	6 1/16"	6 11/16"
1	BS88	5 15/16"	6 5/8"	7 5/16"
Total Strand Quantity		58 EA		
Total Strand Length		2654 FT		



3-5-12