

GENERAL STRUCTURAL NOTES

1. THE FOLLOWING NOTES APPLY TO ALL STRUCTURAL DRAWINGS.
2. ALL DESIGN AND CONSTRUCTION IS BASED ON AND SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE 2021 EDITION AND APPLICABLE LOCAL CODES.
3. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH WORK. FOR DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS, REFER TO ARCHITECTURAL DRAWINGS.
4. THE STRUCTURE SHOWN ON THESE DRAWINGS IS SELF-SUPPORTING ONLY IN ITS COMPLETED FORM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE DESIGN, ADEQUACY, SAFETY, AND STABILITY OF TEMPORARY ERECTION BRACING AND SHORING.
5. UNLESS NOTED, ELEVATIONS SHOWN ARE TO TOP OF FOUNDATIONS, SLABS OR STEEL BEAMS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES IN ORDER TO COMPLY WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS.
7. DO NOT SCALE DRAWINGS. USE ANNOTATED DIMENSIONS AS PROVIDED. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOR CLARIFICATION.
8. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW BY THE ARCHITECT AND ENGINEER PRIOR TO FABRICATION. ALL COMPONENTS SHALL BE COORDINATED BY THE GENERAL CONTRACTOR PRIOR TO SUBMISSION. SHOP DRAWINGS THAT HAVE NOT BEEN COORDINATED BY GENERAL CONTRACTOR (I.E. STRUCTURAL STEEL AND STEEL EMBEDS, STEEL JOISTS AND STEEL DECK) WILL BE REJECTED.

SUBGRADE PREPARATION AND STRUCTURAL FILL NOTES
(STRUCTURAL ONLY)

1. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING LA ONE CALL TO IDENTIFY ALL UTILITIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES.
2. CONTRACTOR TO LOCATE ALL UTILITIES AND VERIFY NO CONFLICTS EXIST WITH ANY PROPOSED STORMWATER AND/OR UTILITY ROUTING PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. IF ANY CONFLICTS ARE IDENTIFIED THE CONTRACTOR SHALL NOTIFY THE ARCHITECT FOR RESOLUTION PRIOR TO COMMENCEMENT OF CONSTRUCTION.
3. FOR AREAS IMMEDIATELY UNDER BUILDING PAD AND 5 FEET OUTSIDE OF BUILDING LINE, CONTRACTOR SHALL REMOVE ALL VEGETATION, TOPSOIL, ORGANIC MATTER AND EXISTING IMPROVEMENTS, INCLUDING FOUNDATIONS, GRAVEL, ASPHALT, AND CONCRETE PAVING, TO AN ELEVATION OF FOUR (4) FEET BELOW EXISTING GRADE. REMOVE ANY EXISTING FOUNDATIONS AND IN THEIR ENTIRETY AND BACKFILL WITH STRUCTURAL FILL PER DIRECTIONS BELOW. THE CUT DEPTH SHALL BE A MINIMUM; ADDITIONAL CUT SHALL BE ALLOWED AS REQUIRED FOR DRAINAGE OF THE EXCAVATION. DEPTH OF EXCAVATION SHALL BE POSITIVELY IDENTIFIED AND DOCUMENTED BY TESTING AGENCY AND PROVIDED TO ARCHITECT AND ENGINEER FOR REVIEW PRIOR TO INSTALLATION OF STRUCTURAL FILL MATERIAL.
4. ANY SOILS REMOVED WITHOUT THE PROPER AUTHORIZATION FROM THE ARCHITECT/ENGINEER WILL BE FILLED WITH STRUCTURAL FILL AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
5. DISPOSE OF ALL EXISTING SOILS/VEGETATION PER OWNER'S DIRECTIVE ACCORDING TO FEDERAL, STATE, AND LOCAL REGULATIONS.
6. AFTER ALL MATERIALS HAVE BEEN REMOVED TO THE PROPER SUBGRADE ELEVATION, THE CONTRACTOR SHALL PROOF ROLL THE SUBGRADE WITH A LOADED TANDEM AXLE DUMP TRUCK. ANY SUBGRADE FAILURES, "SOFT SPOTS", SHALL BE REMOVED AND REPLACED WITH STRUCTURAL FILL. ENGINEER TO BE ADVISED A MINIMUM OF 24 HOURS PRIOR TO PERFORMANCE OF PROOFROLL AND PROOFROLL TO BE OBSERVED BY TESTING AGENCY.

NO "EXTRAS" WILL BE AWARDED FOR EFFORTS NECESSARY TO REPAIR AREAS THAT FAIL PROOF ROLL AS A RESULT OF DEGRADATION BY EXPOSURE TO RAIN AND EXCESSIVE CONSTRUCTION TRAFFIC. THIS DETERMINATION WILL BE MADE SOLELY BY THE ARCHITECT/ENGINEER.

7. ALL STRUCTURAL FILL MATERIAL SHALL BE INSTALLED IN 6" THICK LOOSE LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY AT +/-2% OF THE OPTIMUM MOISTURE CONTENT (ASTM D 698). STRUCTURAL FILL MATERIAL SHALL BE A LIME-TREATED SILTY OR SANDY CLAY WITH A LIQUID LIMIT BETWEEN 30-42 AND A PLASTICITY INDEX (P.I.) BETWEEN 12 AND 22. PROPERTIES OF FILL MATERIAL ARE TO BE VERIFIED BY A TESTING AGENCY PRIOR TO INSTALLATION. LIME TREATMENT PERCENTAGE TO BE DETERMINED USING LA DOTR TR 416, REFER TO SECTION 31200 "EARTH MOVING" FOR FURTHER BIDDING DIRECTIONS. PROPOSED LIME MATERIAL AND APPLICATION RATE, BASED ON RESULTS OF TR 416, TO BE SUBMITTED FOR REVIEW BY ENGINEER PRIOR TO MIXING. LIME TO BE PIT MIXED - NO SITE MIXING PERMITTED.

BID SUBMISSION SHALL CONSIDER 19 LBS OF LIME (HYDRATED OR GRANULAR QUICKLIME) PER SQUARE YARD APPLIED TO A DEPTH OF 12". ANY REQUIRED INCREASE OR DECREASE OF APPLICATION RATE (BASED ON RESULTS OF TR 416 TESTING) WILL BE ADDRESSED BY A CONTRACT MODIFICATION AND CONSIDER (ONLY) THE COST OF THE QUANTITY CHANGE OF MATERIAL.

8. COMPACTION OF EACH LIFT SHALL BE VERIFIED BY LAB TEST PRIOR TO INSTALLING NEXT LIFT. A MINIMUM TESTING FREQUENCY OF ONE (1) TEST PER 2,500 SQUARE FEET, BUT NO LESS THAN 3 TESTS, PER LIFT SHALL BE PERFORMED. A QUALIFIED INDEPENDENT GEOTECHNICAL ENGINEERING TESTING AGENCY SHALL VERIFY PROPERTIES OF THE STRUCTURAL FILL MATERIALS AS WELL AS IN SITU COMPACTION OF FILL MATERIALS.

REFER TO SPECIFICATION SECTION 31200 "EARTH MOVING" FOR ADDITIONAL MATERIAL AND TESTING REQUIREMENTS

INITIAL (BORROW PIT) SOIL SAMPLE AND ANALYSIS, TR 416 TESTING, LIME TREATMENT OBSERVATION, AND POST LIME APPLICATION TESTING TO BE PROCURED BY CONTRACTOR. TO ENSURE PROPER AND TIMELY COORDINATION OF THIS EFFORT DURING THE SUBMITTAL PROCESS. TESTING AGENCY TO HAVE A LOUISIANA LICENSED CIVIL P.E. ON STAFF. SUBMIT THE LICENSE INFORMATION OF THIS INDIVIDUAL PRIOR TO THE PRE-CONSTRUCTION MEETING FOR REVIEW BY THE ENGINEER.

EXCAVATION DEPTH OBSERVATION, PROOFROLL OBSERVATION, AND COMPACTION TESTING TO BE PROCURED BY OWNER.

CONTRACTOR SHALL PROVIDE A UNIT PRICE (CUBIC YARD) FOR EXCAVATION OF EXISTING MATERIAL AND INSTALLATION AND COMPACTION OF LIME-TREATED STRUCTURAL FILL MATERIAL. THIS UNIT PRICE WILL INCLUDE BOTH EXCAVATION AND INSTALLATION OF THE MATERIAL.

9. CONTRACTOR IS TO MAINTAIN DRAINAGE PATHS TO SHED RUNOFF AWAY FROM ALL STRUCTURAL FILL AREAS UNTIL THEY ARE COMPLETED.
10. CONTRACTOR SHALL KEEP THE EXCAVATED AREAS, AND SURFACES OF IMPORTED FILL, FREE FROM STANDING WATER AT ALL TIME. SHOULD THIS EFFORT INCLUDE ADDITIONAL EXCAVATION, GRADING, PUMPING OF WATER, ETC., THIS WILL NOT BE CONSIDERED AN "EXTRA" AND NO CONTRACT MODIFICATIONS WILL BE AWARED.

SUBGRADE PREPARATION AND STRUCTURAL FILL NOTES BASED ON RECOMMENDATIONS CONTAINED IN GEOTECHNICAL REPORT (DUH FILE 25-032, DATED 19 NOVEMBER 2026) AS PREPARED BY DANIEL J. HOLDER, P.E., INC., LAKE CHARLES, LOUISIANA AS DIRECTED FOR USE BY THE ARCHITECT.

GENERAL FOUNDATION NOTES

1. REFER TO ARCHITECTURAL DRAWINGS FOR SLAB FINISHES, LEVEL LANDINGS, LEDGE LOCATIONS, DIMENSIONS AND DETAILS. VERIFY SLAB RECESSES, SLOPES AND LOCATIONS WITH ARCHITECTURAL PLANS.
2. REFER TO ARCHITECTURAL AND/OR M.E.P. DRAWINGS FOR ANY REQUIRED FINISHES, DEPRESSIONS, OR SPECIFIC ELEVATION REQUIREMENTS IN SLABS.
3. REFER TO ARCHITECTURAL AND/OR M.E.P. DRAWINGS FOR EXACT LOCATIONS AND DIMENSIONS OF ALL BLOCKOUTS, SLAB DEPRESSIONS, AND OBJECTS TO BE ENCASED/ EMBEDDED IN CONCRETE.
4. COORDINATE CONCRETE FINISHES, RECESSED AREAS, REVEALS, EMBEDDING ITEMS, SPECIAL JOINT PATTERNS, ETC. WITH THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. PROVIDE A 3/4 INCH CHAMFER AT ALL EXPOSED EDGE OF CONCRETE.
5. CONDUITS SHALL BE PLACED BELOW THE SLAB AND NOT WITHIN THE SLAB. VERTICAL PENETRATIONS ARE ALLOWED.
6. FINISH FLOOR ELEV. CALLED 0'-0" (VERIFY M.S.L. ELEVATION W/ CIVIL DRAWINGS).
7. CONCRETE SLAB CONTRACTION JOINTS SHALL BE SAWCUT. REFER TO TYPICAL DETAIL ON S-101. LOCATION AND SPACING OF INTERIOR SLAB CONTROL JOINTS SHALL BE AS INDICATED ON DRAWINGS. RE: SPEC. SECTION 033000 "CAST-IN- PLACE CONCRETE".
8. CONCRETE SLAB CONSTRUCTION JOINT MAY (AT CONTRACTOR'S OPTION) BE USED IN PLACE OF CONTRACTION JOINT AT TRANSITION BETWEEN 10" AND 5" SLAB THICKNESS TO ALLOW TWO (MAXIMUM) POURS. SLAB CONSTRUCTION JOINT SHALL BE KEYED / DOWELED TYPE WITH REMOVABLE STRIP FOR CREATION OF SEALANT RESERVOIR. REFER TO PLAN FOR LOCATION.

CONCRETE NOTES

1. ALL CONCRETE DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 318-19 (BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE) AND ACI 301-20 (SPECIFICATIONS FOR STRUCTURAL CONCRETE).
2. CONCRETE SHALL DEVELOP A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.
3. UNLESS OTHERWISE NOTED, CONCRETE COVER FOR REINFORCING STEEL SHALL BE 3".
4. NO ADDITIONAL WATER SHALL BE ADDED TO THE CONCRETE AT THE JOB SITE.
5. REFER TO SPECIFICATION SECTION 033000 "CAST-IN-PLACE CONCRETE" FOR FURTHER REQUIREMENTS.

REINFORCEMENT STEEL NOTES

1. REINFORCING STEEL AND ACCESSORIES SHALL BE DETAILED IN ACCORDANCE WITH ACI 315-18 (MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES) AND CRSI MSP-1 (MANUAL OF STANDARD PRACTICE), 29TH EDITION.
2. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60 (UNLESS NOTED).
3. ALL SPLICES, INCLUDING SPLICES FROM BARS LABELED CONTINUOUS, SHALL BE 48 BAR DIAMETERS UNLESS OTHERWISE NOTED.
4. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064 AND BE LAPPED TWO FULL PANELS AND TIED ON EACH SIDE.
5. LONGITUDINAL REINFORCING BARS IN FOOTINGS SHALL BE PLACED CONTINUOUS AT CORNERS AND THROUGH INTERSECTIONS BY MEANS OF CORNER BARS AND/OR SPLICE BARS.
6. FOR EVERY VERTICAL OR HORIZONTAL BAR DISCONTINUED BY AN OPENING, ONE BAR (MIN. OF 2 BARS) SHALL BE ADDED AT SIDE OF OPENING (HALF TO EACH SIDE - TYPICAL).
7. CONCRETE REINFORCING STEEL SHALL BE SUPPORTED AT SPECIFIED POSITION BY CONCRETE BLOCKS, CHAIRS, OR OTHER PRODUCTS MANUFACTURED SPECIFICALLY FOR THAT PURPOSE. REINFORCING SUPPORTS SHALL BE PLACED NOT MORE THAN 4'-0" ON CENTER.

P.E.M.B. COORDINATION NOTES

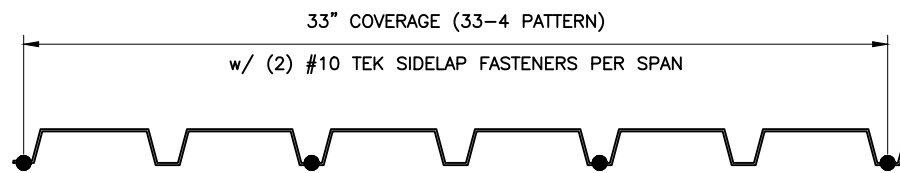
1. VERIFY ALL SLAB DIMENSIONS, INCLUDING DOOR LOCATIONS, WITH SLAB AND ANCHOR BOLT PLAN AS FURNISHED BY METAL BUILDING MANUFACTURER.
2. FOUNDATION LAYOUT AT COLUMNS IS BASED ON THE LOCATIONS/DEPTHS OF COLUMNS AS SHOWN ON ARCHITECTURAL DRAWINGS. IF ACTUAL COLUMN LOCATIONS ARE DIFFERENT THAN THOSE SHOWN ON SHEET S-100, AND FOUNDATION LAYOUT AND/OR REINFORCEMENT HAS TO BE MOVED OR OTHERWISE ADJUSTED TO ACCOMMODATE PEMB COLUMNS, CHANGES ARE TO BE APPROVED BY THE ARCHITECT, AND ANY CHANGES REQUIRED WILL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
3. VERIFY ALL ANCHOR ROD SIZES (INCLUDING BUT NOT LIMITED TO DIAMETER AND PROJECTION) AND LAYOUT WITH PEMB DRAWINGS PRIOR TO COMMENCEMENT OF FOUNDATION CONSTRUCTION.
4. COLUMN REACTIONS FOR P.E.M.B. SHALL BE PROVIDED TO ENGINEER FOR REVIEW PRIOR TO SUBMISSION OF CONCRETE REINFORCING SHOP DRAWINGS.

CONCRETE MASONRY NOTES

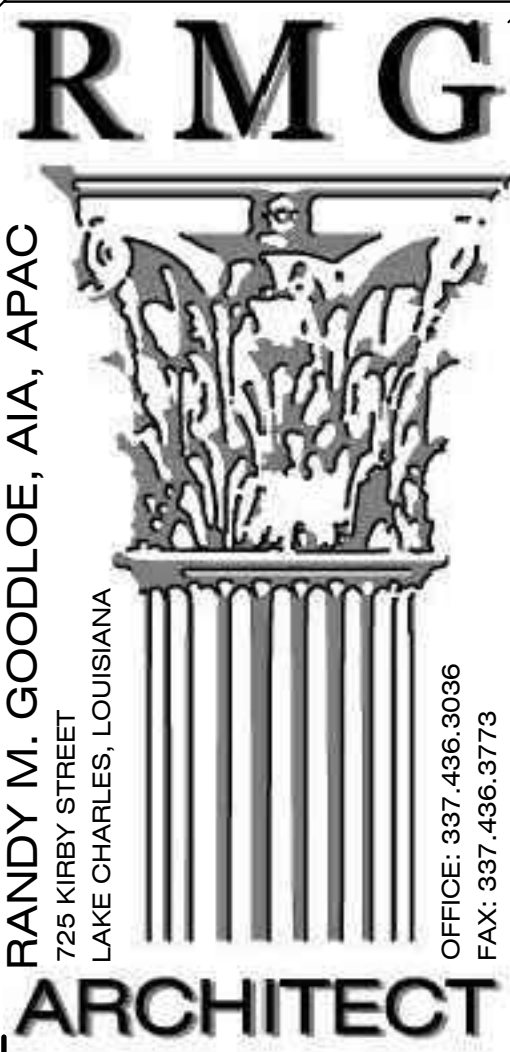
1. ALL MASONRY DESIGN AND CONSTRUCTION SHALL CONFORM TO ACI 530/ASCE 5/TMS 402 AND ACI 530.1/ASCE 6/TMS 602 (LATEST EDITIONS).
2. CONCRETE MASONRY UNITS SHALL BE NORMAL WEIGHT AND CONFORM TO ASTM C 90. REFER TO ARCHITECTURAL DRAWINGS FOR COURSING. F'M SHALL BE 1500 PSI (MIN. CMU COMPRESSIVE STRENGTH = 1900 PSI).
3. JOINT REINFORCING - TRUSS TYPE, 9 GAUGE SPACED VERTICALLY AT 16" UNLESS NOTED OTHERWISE AND CONFORM TO ASTM A 82. PROVIDE JOINT REINFORCING AT 2 ROWS AT 8" AT TOP AND BOTTOM OF OPENINGS, (EXTEND 24" BEYOND EDGE OF OPENING AT EACH SIDE) AND 2 ROWS AT 8" AT BOND BEAMS.
4. BOND BEAMS SHALL BE INSTALLED AT ELEVATIONS INDICATED AND GROUT LIFT AND GROUT POUR HEIGHTS SHALL BE LIMITED TO BOND BEAM ELEVATIONS. BOND BEAM REINFORCEMENT SHALL BE CONTINUOUS AT CONTROL JOINTS.
5. PROVIDE REINFORCING IN CONCRETE MASONRY GROUTED CELLS AT EACH SIDE OF OPENING, EQUAL TO THE REINFORCING DISPLACED. MINIMUM REINFORCING SHALL BE 1-#5 AT EACH SIDE UNLESS REINFORCED CONCRETE JAMB IS CALLED OUT.
6. MASONRY GROUT SHALL CONFORM TO ASTM C 476 WITH A MINIMUM COMPRESSIVE STRENGTH OF 3000 psi AT 28 DAYS. MAXIMUM AGGREGATE SIZE SHALL BE 3/8" PER ASTM C 39, AND SLUMP SHALL BE 10"-11".
7. CONCRETE MASONRY MORTAR SHALL BE TYPE "N" AND CONFORM TO ASTM C 270. REFER TO ARCHITECTURAL DWGS/SPECS. FOR ADDITIONAL REQUIREMENTS.
8. SPECIAL INSPECTION LEVEL B IN ACCORDANCE WITH "SPECIFICATIONS FOR MASONRY STRUCTURES (TMS 602-13 / ACI 530.1-13 / ASCE 6-13)" WILL BE REQUIRED. REFER TO PROJECT SPECIFICATIONS.

STRUCTURAL STEEL NOTES

1. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION WHICH INCLUDES THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, THE CODE OF STANDARD PRACTICE, AND THE AWS STRUCTURAL WELDING CODE (LATEST EDITIONS). SHOP DRAWINGS SHALL BE SUBMITTED TO ARCHITECT FOR APPROVAL PRIOR TO FABRICATION. SHOP DRAWINGS NOT COORDINATED WITH OTHER ASSOCIATED SCOPES OF WORK (I.E. - JOIST, DECK, ETC.) WILL BE REJECTED
2. ALL HOT ROLLED W-SHAPES AND CHANNELS SHALL MEET ASTM A992 SPECIFICATIONS (50 KSI YIELD). ALL OTHER HOT ROLLED SHAPES (I'S, L'S, ETC.) SHALL MEET ASTM A36 SPECIFICATIONS (36 KSI YIELD) EXCEPT PLATES SHALL BE 50 KSI YIELD WHERE SPECIFICALLY INDICATED ON THE DRAWINGS.
3. ALL STRUCTURAL TUBING SHALL MEET ASTM A500 GRADE C SPECIFICATIONS (50 KSI YIELD).
4. ALL STRUCTURAL STEEL SHALL RECEIVE A SHOP-APPLIED COAT OF RUST INHIBITIVE PRIMER (UNLESS NOTED OTHERWISE), REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS AND STRUCTURAL STEEL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. REFER TO ARCH FOR ANY ADDITIONAL FINISH REQUIREMENTS.
5. ALL BOLTS USED TO CONNECT STRUCTURAL MEMBERS SHALL BE 3/4"Ø ASTM F3125 GRADE A325 (U.N.O.), REFER TO SPECIFICATIONS FOR NUTS AND WASHERS. ALL ANCHOR RODS SHALL CONFORM TO ASTM F1554 (GRADE 55), REFER TO DETAILS FOR DIAMETER AND LENGTH.
6. FOR ALL BEAM CONNECTIONS NOT DETAILED USE CLIP ANGLES WITH 5/16" MINIMUM THICKNESS WITH 3/4"Ø MINIMUM A325 BOLTS AT EACH SIDE OF BEAM WEB. PROVIDE MAXIMUM ROW OF BOLTS USING STANDARD GAUGES PER BEAM DEPTH.
7. VERIFY BOS/TOS ELEVATIONS AND CLEAR DIMENSIONS OF MEMBERS AT ROUGH OPENINGS WITH ARCHITECTURAL DRAWINGS.
8. ALL STIFFENER R'S SHALL BE A MINIMUM 3/8" THICKNESS U.N.O.
9. WELDING ELECTRODES SHALL BE E70XX LOW HYDROGEN.
10. ALL EXPOSED WELDS TO BE GROUND SMOOTH TO RECEIVE PAINT PER ARCHITECT'S FINISHES. ALL FIELD WELDS SHALL BE GROUND SMOOTH AND GALVANIZING AND/OR PRIMER SHALL BE REPAIRED PER SPECS.
11. MINIMUM FILLET WELD SIZE SHALL BE 1/4" U.N.O.



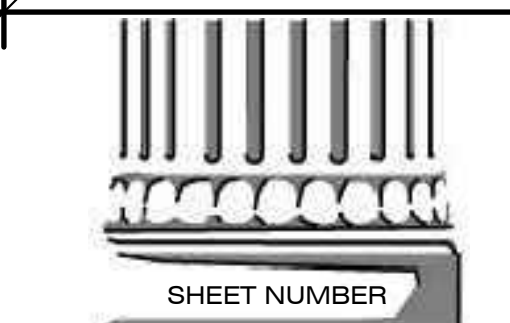
FLOOR DECK FASTENER LAYOUT
SCALE: NTS



NEW CONSTRUCTION
FORD PRO
FOR
MIKE WILLIS
2010 PATTON STREET, SULPHUR, LA 70665

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STRUCTURAL NOTES

