STRUCTURAL NOTES

GENERAL NOTES

ALL WORK SHALL BE IN CONFORMANCE WITH STRUCTURAL DRAWINGS, SPECIFICATIONS AND THE REQUIREMENTS OF THE 2020 FLORIDA BUILDING CODE ("THE BUILDING CODE" REFERENCED IN THE FOLLOWING NOTES).

1.-TO THE BEST OF OUR KNOWLEDGE, THE STRUCTURAL DRAWINGS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE GOVERNING BUILDING CODE.

2.-CONSTRUCTION IS TO COMPLY WITH THE REQUIREMENTS OF THE GOVERNING BUILDING CODE NOTED ABOVE AND ALL OTHER APPLICABLE FEDERAL, STATE, AND LOCAL CODES, STANDARDS, REGULATIONS, AND LAWS 3.-THE CONTRACTOR SHALL COMPARE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL DRAWINGS BEFORE COMMENCING WITH THE WORK AND SHALL

NOTIFY THE ARCHITECT AND ENGINEER OF ANY DISCREPANCIES REQUIRING CLARIFICATION OR REVISIONS. DO NOT SCALE STRUCTURAL DRAWINGS, REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN. SEE "DIMENSION" SECTION OF GENERAL NOTES FOR ADDITIONAL NOTES. 4.-THE CONTRACTOR SHALL USE STRUCTURAL DRAWINGS IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS TO COORDINATE LOCATION OF DEPRESSED SLABS, SLOPES, DRAINS, OUTLETS, RECESSES, OPENINGS, REGLETS, BOLT SETTINGS, SLEEVES, DIMENSIONS, ETC. (DRAWINGS ARE NOT TO BE SCALED).

5. DISCREPANCIES BETWEEN INFORMATION PRESENTED WITHIN PROJECT SPECIFICATIONS AND WITHIN STRUCTURAL NOTES ON PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE CONTRACTOR PRIOR TO PRESENTING HIS OR HER BID. IF SUCH A DISCREPANCY IS DISCOVERED SUBSEQUENT TO BIDDING, THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING THE OPTION SUBSEQUENTLY SELECTED BY THE ENGINEER AT NO ADDITIONAL COST.

6.-CONTRACTORS SHALL BE RESPONSIBLE FOR FINAL VERIFICATION OF ALL DIMENSIONS, ELEVATIONS, CLEARANCES, ETC. OF THE FRAMING SHOWN ON THE STRUCTURAL DRAWINGS AGAINST INFORMATION PROVIDED BY MANUFACTURER OF SELECTED MECHANICAL EQUIPMENT PRIOR TO PROCEEDING WITH ANY RELATED PORTION OF WORK. ITEMS REQUIRING SUCH REVIEW SHALL INCLUDE ELEVATORS (ELEVATOR PITS, BEAMS ABOVE ELEVATORS DOORS, ETC.), ESCALATORS, DUCTS, COOLING TOWERS, ETC. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY REMEDIAL WORK AND FOR ITS IMPACT ON THE

WORK SCHEDULE RESULTING FROM FAILURE TO PROVIDE EARLY NOTIFICATION OF SUCH CONFLICTS TO THE DESIGN TEAM. 7.-POTENTIAL CONFLICTS, ERRORS OR OMISSIONS PRESENT WITHIN THE DRAWINGS (WHETHER WITHIN STRUCTURAL DRAWINGS OR BETWEEN STRUCTURAL, ARCHITECTURAL, AND M.E.P DRAWINGS) SHALL BE IDENTIFIED BY THE CONTRACTOR DURING HIS/HER EARLY REVIEW OF THE PROJECT DOCUMENTS. SUCH CONFLICTS, ERRORS OR OMISSIONS SHALL BE COMMUNICATED TO THE ARCHITECT IN WRITING PRIOR TO COMMENCEMENT OF WORK. IN THE EVENT OF FAILURE TO PROVIDE SUCH A NOTICE AND SUFFICIENT TIME FOR A RESPONSE, THE CONTRACTOR SHALL BECOME RESPONSIBLE FOR COST OF ALL WORK OR REMEDIAL WORK RESULTING FROM SUCH CONFLICTS, ERRORS OR OMISSION, AS WELL AS FOR ITS IMPACT ON THE PROJECT

8.-ALL COSTS OF INVESTIGATION AND/OR REDESIGN, DUE TO CONTRACTOR MISLOCATION OR STRUCTURAL ELEMENTS OR OTHER LACK OF CONFORMANCE WITH THE PROJECT DOCUMENTS. SHALL BE AT THE CONTRACTOR'S EXPENSE.

9.-IN THE EVENT THAT CERTAIN DETAILS OF THE CONSTRUCTION ARE NOT FULLY SHOWN OR NOTED ON THE DRAWINGS. THEIR CONSTRUCTION SHALL BE OF THE SAME TYPE AS FOR SIMILAR CONDITIONS WHICH ARE SHOWN AND NOTED, SUBJECT TO THE STRUCTURAL ENGINEER'S APPROVAL. DETAILS LABELED "TYPICAL" APPLY TO ALL SITUATIONS THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED, WHETHER OR NOT THEY ARE KEYED IN AT EACH LOCATION. QUESTIONS REGARDING THE APPLICABILITY OF TYPICAL DETAILS SHALL BE RESOLVED BY THE PROJECT ARCHITECT.

10.-SEE THE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING: 10.1.-SIZE AND LOCATIONS OF ALL CONCRETE CURBS, FLOOR DRAINS, SLOPES, INSERTS, ETC. EXCEPT AS SHOWN.

10.2-SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS EXCEPT AS SHOWN. 10.3-SIZE AND LOCATION OF ROOF AND FLOOR OPENINGS. FLOOR AND ROOD PUNISHES. TYPES OF WATER PROOFING AND DAMP PROOFING.

10.4.-FINISHED FLOOR AND EXTERIOR ELEVATIONS.

10.5-DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.

10.6.-FIRE PROTECTION REQUIREMENTS.

10.7.-MISC. STEEL TUBES, CHANNELS, ANGLES, AND PLATES FOR METAL PANEL WALL AND CURTAIN WALL SUPPORT

10.8-EMBEDS FOR MISC METAL FRAMING AND CLADDING ANCHORAGE.

10.9-SIZE AND LOCATIONS OF MASONRY, DRYWALL, NON-LOAD BEARING PARTITIONS AND EXTERIOR WALL. PROVIDE SLIP CONNECTIONS THAT ALLOW VERTICAL MOVEMENT AT THE HEADS OF ALL SUCH PARTITIONS, CONNECTIONS SHALL BE DESIGNED TO SUPPORT THE TOP OF THE WALLS LATERALLY FOR THE CODE-REQUIRED LATERAL LOAD.

11.-SEE THE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:

11.1.-PIPE AND DUCT RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, ETC., EXCEPT AS SHOWN OR NOTED. 11.2.-ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS.

11.3.-CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES.

11.4.-ANCHOR BOLTS FOR MOTOR MOUNTS, EXCEPT AS SHOWN OR NOTED. 11.5-SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES (HOUSEKEEPING PADS). NOTE THAT HOUSEKEEPING PADS SHOWN ON THE STRUCTURAL

DRAWINGS ARE APPROXIMATE AND ARE INCLUDED FOR GENERAL REFERENCE ONLY. 12.-OPENINGS, POCKETS, ETC., LARGER THAN 6" SHALL NOT BE PLACED IN CONCRETE SLABS, DECKS, OR WALLS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS. NOTIFY THE STRUCTURAL ENGINEER WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC., LARGER THAN 6" WHICH ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS, BUT WHICH ARE LOCATED IN STRUCTURAL MEMBERS. 13.-ALL SUSPENDED MECHANICAL, ELECTRICAL, OR OTHER SYSTEM LOADS EXCEEDING 100 POUNDS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL BY

THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION UNLESS SPECIFICALLY DETAILED ON THE DRAWINGS. ANY REINFORCEMENT, ETC. REQUIRED BY SUCH LOADS SHALL BE BY THE TRADE REQUIRING THE EQUIPMENT. 14.-YHCE, CONSULTING ENGINEERS. INC. SHALL NEITHER HAVE CONTROL OVER OR CHARGE OF, NOR BE RESPONSIBLE FOR, THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, SINCE THESE

ARE SOLELY THE CONTRACTOR'S RIGHTS AND RESPONSIBILITIES UNDER THE CONTRACT DOCUMENTS HAS SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S OR ANY SUBCONTRACTOR'S FAILURE TO PERFORM THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL PROTECT ADJACENT PROPERTY, HIS OWN WORK, AND THE PUBLIC FROM HARM. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOBSITE SAFETY INCLUDING ALL SHAN REQUIREMENTS. 15 -THE STRUCTURE WAS DESIGNED TO BE SELF-SUPPORTING AND STABLE FOLLOWING INSTALLATION OF ALL COMPONENTS AS INDICATED ON THE

DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE METHOD AND SEQUENCE OF ERECTION PROCEDURES (INCLUDING IMPLEMENTATION OF TEMPORARY SHORING, BRACING, ETC.) AND TO ENSURE SAFETY THROUGH THE PERIOD OF CONSTRUCTION, CONTRACTOR AGREES THAT HE WILL HOLD OWNER, ARCHITECT, ENGINEER, AND/OR ANY OF THEIR EMPLOYEES OR AGENTS, HARMLESS FROM ANY AND ALL DAMAGE AND CLAIMS WHICH MAY ARISE BY A REASON OF ANY NEGLIGENCE ON THE PART OF THE CONTRACTOR, OR ANY OF HIS SUBCONTRACTORS, OR ANY MATERIAL AND EQUIPMENT SUPPLIERS, AND/OR ANY OF THEIR EMPLOYEES OR AGENTS, IN THE PERFORMANCE OF THIS CONTRACT. IN CASE ANY ACTION IS BROUGHT AGAINST THE OWNER, OR ARCHITECT, OR ENGINEER, OR ANY OF THEIR EMPLOYEES OR AGENTS, CONTRACTOR SHALL ASSUME LULL RESPONSIBILITY FOR DEFENSE THEREOF, TO THE FULL SATISFACTION OF THE LATTER PARTY.

16.-DO NOT PLACE CONCRETE WITHOUT APPROVED STRUCTURAL SHOP DRAWINGS MECHANICAL/ARCHITECTURAL SHOP DRAWINGS RELATED TO THE CONCRETE WORK. RELATED ITEMS INCLUDE LOCATIONS OF OPENINGS. PIPE SLEEVES, REGLETS, DOVETAIL SLOTS, DRIPS, INSERTS FOR MECHANICAL EQUIPMENTS, HUNG CEILINGS, AND ANY OTHER ITEMS REQUIRED TO BE INSTALLED AND/OR TO BE COORDINATED BY THE ARCHITECTURAL/MECHANICAL

17.-CONTRACTOR IS TO PROVIDE DURING CONSTRUCTION AND MAKE ALLOWANCE FOR DESIGN, DETAILING, AND PURCHASE, DURING BID PHASE FOR ALL MISCELLANEOUS STEEL REQUIRED FOR THE SUPPORT OF ARCHITECTURAL FEATURES THAT ARE NOT STRUCTURAL ITEMS TO THE BASE STRUCTURE. SUCH ITEMS INCLUDE MEP HANGINGS, CEILING, AND CURTAIN WALL SUPPORTS.

18.-SUPPLEMENT SKETCHES/DRAWINGS: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FORWARD A COPY OF ALL CORRESPONDENCE AFFECTING THE STRUCTURE TO THE PROJECT'S INSPECTOR THROUGHOUT THE DURATION OF CONSTRUCTION

CONCRETE:

A. ALL CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 318-14 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS." B. CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE AS FOLLOWS:

STRUCTURAL BEAMS ----- 5000 PSI MIN COLUMNS ----- 5000 PSI MIN

ALL OTHER CONCRETE -----3000 PSI

C. FORMWORK SHALL COMPLY WITH ACI 347R-14, " RECOMMENDED PRACTICE FOR CONCRETE WORK."

D. MIX DESIGNS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF ANY CONCRETE WORK. SUBMIT

STATISTICAL DATA FOR EACH CLASS OF CONCRETE E. NO WATER SHALL BE ADDED TO THE CONCRETE AT THE JOB SITE.

F. THE OWNER SHALL CONTRACT AN INDEPENDENT TESTING LABORATORY TO PER- FORM CONCRETE CYLINDER TESTS AS FOLLOWS: SIX CYLINDER TESTS FOR ANY 50 CUBIC YARDS OF CONCRETE POURED, OR FRACTION THEREOF FOR EACH CLASS OF CONCRETE POURED EACH DAY. ONE CYLINDER SHALL BE TESTED AT 3 DAYS AND 7 DAYS, THREE AT 28 DAYS, AND ONE RESERVED TO BE TESTED AT 56 DAYS IF REQUIRED. FOLLOW ASTM STANDARDS FOR SAMPLING AND TESTING. ONE SLUMP TEST SHALL BE TAKEN FOR EACH SET OF TEST CYLINDERS CAST. SLUMP TEST SHALL CONFORM WITH ASTM C 143. NO CONCRETE TEST WILL BE ACCEPTED IF CONCRETE IS TAMPERED WITH IN ANY WAY AFTER SAID

TEST IS PERFORMED. REPEAT TEST IF WATER IS ADDED AFTER INITIAL SAMPLING. G. TRANSPORTING, PLACING, CURING AND DEPOSITING OF CONCRETE SHALL COMPLY WITH ACI 301-16: SPECIFICATIONS FOR STRUCTURAL CONCRETE.

H. CONSTRUCTION JOINTS IN STRUCTURAL SLABS AND BEAMS SHALL BE LOCATED AT 1/3 OF THE SPAN WITH REINFORCING CONTINUOUS ACROSS THE JOINT. PROVIDE A CONTINUOUS 2 X 4 SHEAR KEY AT SLABS. AT BEAMS PROVIDE A 1 1/2" DEEP SHEAR KEY WITH A WIDTH 8" SMALLER THAN THE BEAM WIDTH AND A DEPTH 8" SMALLER THAN THE BEAM DEPTH. LOCATIONS SHALL BE APPROVED BY STRUCTURAL ENGINEER OF RECORD BEFORE POUR.

I. CONCRETE USED AT BALCONIES AND TERRACES SHALL HAVE A WATER/ CEMENT RATIO OF 0.40. K. MAXIMUM WATER/CEMENT RATIO FOR CONCRETE CONTAINING A SUPERPLASTICIZING ADMIXTURE SHALL BE 0.40. SLUMP AFTER ADDITION OF SUPERPLASTICIZER SHALL BE 6" +/- 1"

...1 1/2" TO TIES OR STIRRUPS

L. MINIMUM CONCRETE COVER FOR REINFORCEMENT: I. CONCRETE EXPOSED TO EARTH OR WEATHER

BEAMS AND COLUMNS..

#6 BARS AND LARGER. #5 BARS AND SMALLER... ...1 1/2' II. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WIH EARTH:

WIND ANALYSIS DESIGN PARAMETERS:

1.-WIND DESIGN HAS BEEN DONE IN ACCORDANCE WITH ASCE 7-16 AND 2020 FBC (7TH EDITION), HVHZ.

2.-EXPOSURE "D" 3.-RISK CATEGORY: II

4.-INTERNAL PRESSURE COEFFICIENT, GCpi= ;0.18. 5.-ULTIMATE WIND VELOCITY, V= 175 MPH

DIMENSIONS

1.-WHILE THE POSITION OF MOST CONCRETE, STEEL, AND DECKING MEMBERS ARE DEFINED DIRECTLY ON THE STRUCTURAL DRAWINGS THERE ARE INSTANCES WHERE REFERENCE MUST BE MADE TO ARCHITECTURAL OR OTHER DRAWINGS TO DEDUCE A DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR SUCH DIMENSIONAL COORDINATION AND CROSS REFERENCING.

2.-WITH THE POSITION OF MOST CONCRETE, MASONRY, STEEL, AND DECKING MEMBERS THUS FIXED. THE CONTRACTOR SHALL STILL NEED TO DEDUCE AND COMPUTE OTHER DIMENSIONS THAT ARE DERIVATIVE FROM THE BASIC DIMENSIONS. THESE MAY INCLUDE TRUE DISTANCE BETWEEN WORK POINTS, TRUE LENGTH, AND ORIENTATION OF MEMBERS, AND SO ON. SUCH DERIVATION OR DIMENSIONS IS THE RESPONSIBILITY OF THE CONTRACTOR.

3.-TO ENSURE ACCURACY OR THESE DERIVED DIMENSIONS, THE CONTRACTOR IS TO PRODUCE LAYOUT DRAWINGS FOR COORDINATION WITH OTHER TRADES, AS WELL AS DETAILED SHOP DRAWINGS, ALTHOUGH THEY WILL NOT BE CHECKED, THESE LAYOUT DRAWING ARE TO BE SUBMITTED AT THE SAME TIME AS THE RELEVANT SHOP DRAWING.

SHORING AND RESHORING

1.-SHORING AND RESHORING DRAWINGS SHALL BE PREPARED BY A STATE OF FLORIDA REGISTERED SPECIALTY ENGINEER WITH A MINIMUM OF TEN YEARS OF EXPERIENCE IN SHORING AND RESHORING DESIGN AND DETAILING. 2.-SHORING AND RESHORING DRAWINGS SHALL INCLUDE AT LEAST THE FOLLOWING ITEMS:

2.1.-LOCATION, SIZE, TYPE AND CAPACITY OF ALL SHORING.

2.2.-LOCATION, SIZE, TYPE, AND CAPACITY OF ALL RESHORING. 2.3-LOCATION, SIZE, AND TYPE OF ALL BLOCKING, MUD SILLS, TEMPORARY LATERAL BRACING AND OTHER ACCESSORIES REQUIRED TO

ADEQUATELY AND SAFELY SUPPORT AND BRACE THE STRUCTURE DURING CONSTRUCTION. 2.4.-INSTALLATION PROCEDURE, SEQUENCE OF INSTALLATION, LOAD RELIEF AND REMOVAL OF ALL SHORING AND RESHORING. 3.-SHORING AND RESHORING SUBMITTAL FOR APPROVAL SHALL INCLUDE AT LEAST TWO COPIES FOR THE BUILDING DEPARTMENT, ONE FOR THE ENGINEER OF RECORD, ONE FOR THE THRESHOLD INSPECTOR, AND ONE FOR THE ARCHITECT.

4.-DESIGN, DETAIL AND ERECT FORMS, SHORING AND RESHORING IN COMPLIANCE WITH ACI 347R-14, PROJECT SPECIFICATIONS, AND THESE NOTES. FORMS, SHORING AND RESHORING SHALL BE DESIGNED FOR THE WEIGHT OF THE FLOOR OR ROOF, A CONSTRUCTION LOAD OF 50 PSF, AND FOR THE CUMULATIVE LOADS OF THE SUPPORTED HORIZONTAL CONCRETE MEMBERS. USE A DESIGN FACTOR OF SAFETY OF 3 FOR WOOD SHORES AND 2 FOR METAL SHORES. 5.-THE MAXIMUM SUPERIMPOSED CONSTRUCTION LOAD APPLIED TO FLOORS SUPPORTING SHORES OR RESHORES SHALL NOT EXCEED 75%

OF THE DESIGN LIVE LOAD SPECIFIED FOR SLABS (AND JOISTS WHERE APPLICABLE) AND 60% OF THE LIVE LOAD SPECIFIED FOR BEAMS. NO CONSTRUCTION LOAD SHALL BE APPLIED TO ANY MEMBER UNTIL THE CONCRETE IS A MINIMUM OF 14 DAYS OLD AND THE 7 DAY STRENGTH THIS 70% OF THE SPECIFIED 28 DAY STRENGTH. 6.-FORMS MAY BE REMOVED 72 HOURS AFTER CONCRETE POUR PROVIDED THAT CONCRETE STRENGTH IS 70% OF THE SPECIFIED 28 DAY STRENGTH AND NOT LESS THAN 3500 PSI. RESHORE EACH BAY IMMEDIATELY AFTER FORMS ARE STRIPPED AND REMOVED. REMOVAL OF

FORMS IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR. REMOVAL OF FORMS SHALL BE CARRIED OUT IN SUCH A WAY AS TO

NOT DAMAGE THE STRUCTURE, INSURE SAFETY AND PREVENT CREEP DEFLECTION OF STRUCTURAL MEMBERS.

SHOP DRAWINGS AND SUBMITTALS

1.-THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE ARCHITECT'S REVIEW PRIOR TO COMMENCEMENT OF WORK. 2.-SHOP DRAWINGS WILL BE REVIEWED FOR COMPLIANCE WITH CONTRACT DOCUMENTS, CONSTRUCTION METHODS, DIMENSIONING AND OTHER TRADE REQUIREMENTS BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE PROJECT ENGINEER. DRAWINGS WITHOUT CONTRACTOR'S APPROVAL STAMP SHALL BE RETURNED WITHOUT ENGINEER'S REVIEW.

3.-IN CASE OF A CONFLICT. INFORMATION PRESENTED ON STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER THAT WITHIN SHOP DRAWINGS, UNLESS SPECIFICALLY ADDRESSED BY THE ENGINEER IN WRITING. 4.-THROUGH THE PROCESS OF A CURSORY REVIEW, ENGINEER ASSUMES NO RESPONSIBILITY FOR DIMENSIONS, QUANTITIES, ERRORS OR OMISSIONS. ANY ERRORS OR OMISSIONS IRRESPECTIVE OF ENGINEER'S COMMENTS OR DURATION OR THE REVIEW SHALL BE THE

RESPONSIBILITY OF AND MUST BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL SERVICE CHARGE EVEN IF SUCH WORK WAS DONE

IN ACCORDANCE WITH THE SHOP DRAWINGS 5.-THE ENGINEER RESERVES TEN WORKING DAYS FOR SHOP DRAWING REVIEW TIME (FROM THE DATE OF RECEIPT). IN CASES WHERE THE VOLUME OF SUBMITTED SHOP DRAWINGS IS VIEWED AS EXCESSIVE. THE ENGINEER RESERVES THE RIGHT TO NOTIFY THE OWNER. ARCHITECT. AND THE CONTRACTOR OR THE ADDITIONAL TIME REQUIRED TO PERFORM A QUALITY REVIEW. ALL STRUCTURAL SHOP DRAWINGS AND PRODUCT SUBMITTALS SHALL BE SUBMITTED ELECTRONICALLY IN FULL SIZE PDF FORMAT. HARD COPY SUBMITTAL WILL NOT

6.-REPRODUCTION OR ANY PORTION OF THE STRUCTURAL CONTRACT DRAWINGS FOR RESUBMITTED AS SHOP DRAWINGS IS PROHIBITED. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED AND RETURNED.

7.-ON FIRST SUBMITTAL, CLEARLY FLAG AND CLOUD ALL DIFFERENCES FROM THE CONTRACT DOCUMENTS ON RESUBMITTED, FLAG AND CLOUD ALL CHANGES AND ADDITIONS TO PREVIOUS SUBMITTAL; ONLY CLOUDED ITEMS WILL BE REVIEWED FOR RESUBMITTED SHOP DRAWINGS.

8.-THE CONTRACTOR SHALL SUBMIT, FOR REVIEW, DRAWINGS AND CALCULATIONS FOR ALL OF THE FOLLOWING ASSEMBLIES. THE DESIGN OF THESE ASSEMBLIES IS THE RESPONSIBILITY OF THE CONTRACTOR'S DELEGATED/ SPECIALTY ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION ALL SUBMITTALS SHALL BEAR THIS ENGINEER'S SEAL & SIGNATURE. REVIEW SHALL BE FOR GENERAL CONFORMANCE WITH THE PROJECT PARAMETERS AS INDICATED ON THE DRAWINGS AND THE GENERAL NOTES.

8.1.-NON-LOAD BEARING STUD WALL AND CURTAIN WALL SYSTEMS AND RELATED CONNECTIONS: DESIGN SHALL TAKE INTO ACCOUNT ALL VERTICAL AND LATERAL LOADS REQUIRED BY APPLICABLE BUILDING CODES. REFER TO SPECIFICATION FOR DETAILED REQUIREMENTS

8.2.-PROVIDE COMPLETE SHORING AND RE-SHORING DRAWINGS PREPARED BY OR UNDER THE DIRECT SUPERVISION OR A DELEGATED/SPECIALTY ENGINEER AND CONFORMING TO THE REQUIREMENTS OF THE SPECIFICATIONS AND THE BUILDING CODE. 9.-DELEGATED/SPECIALTY ENGINEER SUBMITTALS: SUBMITTALS SHALL BE PREPARED IN ACCORDANCE WITH THE BUILDING CODE. ENGINEERS NAME, LICENSE NUMBER AND BUSINESS ADDRESS SHALL BE LEGIBLY INDICATED ON ALL SIGNED AND SEALED DOCUMENTS. SPECIALTY ENGINEER SHALL BE SOLELY RESPONSIBLE FOR DIRECT CONTACT WITH THE BUILDING DEPARTMENT WHILE OBTAINING BUILDING DEPARTMENT'S APPROVAL FOR HIS/HER PORTION OR WORK (INCLUDING PROVIDING RESPONSES TO REVIEW COMMENTS, SUPPLYING ADDITIONAL CALCULATIONS AND PLANS, ATTENDING MEETINGS, ETC). DELEGATED/SPECIALTY ENGINEER IS DEFINED AS ONE WHO SPECIALIZES IN AND UNDERTAKES THE DESIGN OF STRUCTURAL COMPONENTS OR STRUCTURAL SYSTEMS INCLUDED IN A SPECIFIC SUBMITTAL PREPARED FOR THIS PROJECT AND IS AN EMPLOYEE OR OFFICER OR, OR CONSULTANT TO, THE

CONTRACTOR OR FABRICATOR RESPONSIBLE FOR THE SUBMITTAL 10.-IN ADDITION TO THE ABOVE. THE STRUCTURAL ENGINEER'S REVIEW OF DELEGATED/SPECIALTY ENGINEER SUBMITTAL IS LIMITED TO VERIFYING THAT THE SPECIFIED STRUCTURAL SUBMITTAL HAS BEEN FURNISHED, SIGNED AND SEALED BY THE DELEGATED /SPECIALTY ENGINEER AND THAT THE DELEGATED/SPECIALTY ENGINEER HAS UNDERSTOOD THE DESIGN INTENT AND USED THE SPECIFIED STRUCTURAL CRITERIA NO DETAILED CHECK OF CALCULATIONS WILL BE MADE. THE DELEGATED/SPECIALTY ENGINEER IS SOLELY RESPONSIBLE FOR HIS/HER DESIGN. INCLUDING BUT NOT LIMITED TO THE ACCURACY OF HIS/HER CALCULATIONS AND COMPLIANCE WITH THE APPLICABLE CODES AND STANDARDS.

11.-TOWER CRANE (SHOP DRAWINGS REQUIRED): FOUNDATIONS AND BRACING FOR THE CRANE SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER. SIGNED AND SEALED SET OF SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED TO THE THRESHOLD INSPECTOR FOR REVIEW PRIOR TO COMMENCEMENT OF CONSTRUCTION.LOCATION SHALL BE APPROVED BY THE ENGINEER/ARCHITECT. ADDITIONAL RE-DESIGN WORK REQUIRED AS A RESULT OF CONFLICT BETWEEN CRANE AND THE STRUCTURE SHALL BE BILLED TO THE CONTRACTOR BY THE ENGINEER OR RECORD AT AN HOURLY RATE. COST ADDITIONAL MATERIALS AND LABOR FOR THE STRUCTURAL REVISIONS ASSOCIATED WITH PLACEMENT OF CRANE SHALL BE COVERED BY THE CONTRACTOR.

DEMOLITION:

A. SUBMIT SCHEDULE INDICATING PROPOSED SEQUENCE OF OPERATION FOR SELECTIVE DEMOLITION WORK TO OWNER FOR REVIEW AND APPROVAL PRIOR TO COMMENCEMENT OF WORK. INCLUDE METHOD OF DEMOLITION AND PLAN FOR REMODELING WORK, COORDINATION FOR SHUT-OFF, COPPING, CONTINUATION OF UTILITY SERVICES AS REQUIRED. TOGETHER WITH DETAILS FOR DUST AND NOISE CONTROL

B. CERTIFICATION: SUBMIT COPY OF DEMOLITION FIRM CURRENT LICENSES.

C. COORDINATE WITH OWNER'S CONTINUING OCCUPANCY OF PORTIONS OF EXISTING BUILDING.

A. ACCURATELY RECORD ACTUAL LOCATIONS OF CAPPED UTILITIES, SUBSURFACE OBSTRUCTIONS, AND UNANTICIPATED STRUCTURAL MECHANICAL AND ELECTRICAL ELEMENTS UNCOVERED DURING DEMOLITION.

A. ORGANIZE AND PERFORM DEMOLITION WORK TO AVOID DAMAGE TO CONSTRUCTION INTENDED TO REMAIN. B. DEMOLITION AND TRANSPORTATION OF DEBRIS SHALL COMPLY WITH APPLICABLE CODES AND REGULATIONS GOVERNING THESE

OPERATIONS. FEES ARE PAID BY THE CONTRACTOR. C. CONDUCT DEMOLITION AND REMOVAL OPERATIONS IN AN EXPEDIENT MANNER, WITH PRECAUTIONS TAKEN TO PREVENT DEMOLITION SITE FROM BEING AN "ATTRACTIVE NUISANCE."

D. NOTIFY THE OWNER AND A/E OF ANY CONDITIONS CAPABLE OF AFFECTING THE SAFETY OF OCCUPANTS OF ADJACENT BUILDINGS, THE NORMAL USE OF THESE FACILITIES, OR THE PHYSICAL CONDITION OF THE STRUCTURES. - IN CASE OF ACCIDENTAL DISRUPTION OF UTILITIES OR THE DISCOVERY OF PREVIOUSLY UNKNOWN UTILITIES, STOP WORK IMMEDIATELY AND

NOTIFY THE OWNER AND A/E. - DO NOT CONTINUE WORK UNTIL OWNER, A/E AND CONTRACTOR AGREE ON A PLAN TO CORRECT THE SITUATION OR IDENTIFY UTILITY SERVICE

A. CONFORM TO FLORIDA BUILDING CODE 2014 FIFTH EDITION WITH LATEST REVISIONS, FOR DEMOLITION WORK. SAFETY OF STRUCTURES DUST CONTROL AND SAFEGUARDS REQUIRED DURING CONSTRUCTION. B. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK AND COMPLY WITH THEIR REQUIREMENTS.

C. DO NOT CLOSE OR OBSTRUCT EGRESS WIDTH TO EXISTS. D. DO NOT DISABLE OR DISRUPT BUILDING FIRE OR LIFE SAFETY SYSTEMS WITHOUT THREE (3) DAY PRIOR WRITTEN NOTICE TO THE OWNER. **JOB CONDITIONS** A. OWNER WILL BE CONTINUOUSLY OCCUPYING AREAS OF BUILDING AND SITE IMMEDIATELY ADJACENT TO AREAS OF SELECTIVE

DEMOLITION. CONDUCT DEMOLITION WORK IN MANNER THAT WILL MINIMIZE DISRUPTION OF OWNER'S NORMAL OPERATIONS. PROVIDE MINIMUM OF FIVE (5) WORKING DAYS ADVANCE NOTICE TO OWNER OF DEMOLITION ACTIVITIES. WHICH WILL SEVERELY IMPACT OWNER'S NORMAL OPERATIONS.

B. EXISTING WORK NOT SPECIFIED FOR REMOVAL THAT IS TEMPORARILY REMOVED, DAMAGED EXPOSED OR IN ANY WAY DISTURBED OR ALTERED BY REMOVAL WORK SHALL BE REPAIRED, PATCHED OR REPLACED TO THE OWNER AND A/E SATISFACTION AT NO ADDITIONAL COST TO THE BOARD.

C. PROVIDE BARRIERS AND WARNING DEVICES TO PROTECT THE PUBLIC AND USERS OF ADJACENT FACILITIES. WHERE SELECTIVE DEMOLITION WHICH WILL CREATE EXCESSIVE DUST OCCURS IMMEDIATELY ADJACENT TO OR WITHIN OCCUPIED

PORTIONS OF BUILDING, CONSTRUCT DUST-PROOF PARTITIONS OR BARRIERS TO MITIGATE SPREAD OF AIRBORNE DUST OR DEBRIS. PROVIDE WEATHERPROOF CLOSURES FOR EXTERIOR OPENINGS RESULTING FROM SELECTIVE DEMOLITION WORK. IDENTIFY STUB OFF AND DISCONNECT UTILITY SERVICES THAT ARE NOT INDICATED TO REMAIN. REMAINING UTILITIES SHALL BE KEPT ACTIVE

DISCONNECT, REMOVE, CAP AND IDENTIFY DESIGNATED UTILITIES WITHIN DEMOLITION AREAS.

PROTECTIONS I FAVE ROOF AREAS BROOM CLEAN

DEMOLISH IN AN ORDERLY AND CAREFUL MANNER. PROTECT EXISTING SUPPORTING STRUCTURAL MEMBERS AND ALL ITEMS TO REMAIN. PROMPTLY REMOVE DEBRIS TO AVOID IMPOSING EXCESSIVE LOADS ON SUPPORTING WALLS, FLOORS OR FRAMING. IF UNANTICIPATED MECHANICAL, ELECTRICAL OR STRUCTURAL ELEMENTS WHICH CONFLICT WITH INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED INVESTIGATE MEASURE BOTH NATURE EXTENT OF THE CONFLICT. SUBMIT REPORT TO OWNER IN WRITTEN ACCURATE DETAIL **DISPOSAL OF DEMOLISHED MATERIALS**

REMOVE DEBRIS. RUBBISH OTHER MATERIALS RESULTING FROM SELECTIVE DEMOLITION OPERATIONS FROM BUILDING SITE. LEGALLY TRANSPORT AND DISPOSE OF MATERIALS OFF SITE ON A REGULAR BASIS. ACCUMULATION OF DEBRIS ON THE SITE WILL NOT BE ALLOWED.

IF HAZARDOUS MATERIALS ARE ENCOUNTERED DURING DEMOLITION OPERATIONS, COMPLY WITH APPLICABLE REGULATIONS LAWS. ORDINANCES CONCERNING REMOVAL, HANDLING AND PROTECTION AGAINST EXPOSURE OF ANY ENVIRONMENTAL POLLUTION. D. BURNING OF REMOVED MATERIALS WILL NOT BE PERMITTED ON PROJECT SITE.

A. REPAIR DEMOLITION PERFORMED IN EXCESS OF THAT REQUIRED. RETURN DAMAGED STRUCTURES, SURFACES TO REMAIN TO

OR DAMAGED BY SELECTIVE DEMOLITION WORK, TO MATCH EXISTING. A. UPON COMPLETION OF SELECTIVE DEMOLITION WORK, REMOVE TOOLS, EQUIPMENT, DEMOLISHED MATERIALS FROM SITE. REMOVE

CONDITIONS EXISTING PRIOR TO COMMENCEMENT OF SELECTIVE DEMOLITION WORK. REPAIR ADJACENT CONSTRUCTION SURFACES SOILED.

MASONRY NOTES

1.-ALL MASONRY WORK SHALL BE IN CONFORMANCE WITH THE SPECIFICATION SECTION 04200, THE FOLLOWING NOTES, AND THE

1.1.-ACI 530/ASCE 5, "BUILDING CODE REQUIREMENTS OR CONCRETE MASONRY STRUCTURES" 1.2.-ACI 5.30.1 /ASCE 6, "SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF LOAD-BEARING CONCRETE MASONRY".

COURSING, UNITS SHALL BE AT LEAST 8" LONG. BOND CORNERS BY LAPPING ENDS 8" IN SUCCESSIVE VERTICAL COURSES.

2.-ALL HOLLOW CONCRETE MASONRY UNITS (C.M.U.) SHALL BE NORMAL WEIGHT UNITS CONFORMING TO ASTM C90, TYPE 1 AGGREGATES SHALL CONFORM TO ASTM C331, ALL HOLLOW AND SOLID C.M.U. SHALL ATTAIN A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 1900 PSI AS DETERMINED BY A.S.T.M. 0-140. YIELDING A PRISM STRENGTH (E'M) OF 1500 PSI MINIMUM AS DETERMINED BY ASTM E447, USE 50% SOLID, NOMINAL 16" OR 12"x8"x16" CMU UNITS PER PLAN, SAW OUT UNITS WHICH ARE NOT IN MULTIPLES OF 8"

3 -EXCEPT WHERE STACK BOND IS INDICATED ON THE ARCHITECTURAL DRAWINGS: F.G. AT MAIN ENTRY AND LOBBY LAY LINITS IN RUNNING BOND USING TWO-CORE C.M.I.K THROUGHOUT THE PROJECT EXCEPT WHERE SOLID C.M.U. IS SPECIFIED IN THE CONTRACT DOCUMENTS OR REQUIRED FOR MAINTAINING A FIRE-RATED ASSEMBLY.

4.-PRIOR TO MASONRY CONSTRUCTION ONE SET OF THREE MASONRY PRISMS SHALL BE BUILT AND TESTED IN ACCORDANCE WITH A.S.T.M. E447. THE MATERIALS AND WORKMANSHIP USED TO BUILD THE PRISMS SHALL BE REPRESENTATIVE OF THOSE THAT WILL BE CONTAINED WITHIN THE ACTUAL PROJECT CONSTRUCTION. THE TEST RESULTS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW WITHIN 24-HOURS OF THE TEST.

5.-MASONRY CONSTRUCTION SHALL NOT COMMENCE UNTIL TEST RESULTS HAVE BEEN APPROVED BY BOTH THE ARCHITECT/ENGINEER AND THE GENERAL CONTRACTOR. ALL COSTS ASSOCIATED WITH THIS PRE-CONSTRUCTION TESTING SHALL BE BORNE BY THE GENERAL CONTRACTOR.

6.-MINIMUM EQUIVALENT SOLID THICKNESS, AS DETERMINED BY A.S.T.M. 0140, OF INDIVIDUAL C.M.U. AND FIRE-RATED C.M.U. WALLS

SHALL BE AS FOLLOWS: 6.1.-4" CMU.: 2.28" 6.5.-ONE HOUR FIRE -RATED WALL: 3.0" 6.2.-6" CMU.: 3.21" 6.6.-TWO HOUR FIRE -RATED WALL: 4.5" 6.3.-8" CMU.: 4.50" 6.7.-THREE HOUR FIRE-RATED WALL: 5.7"

6.8.-FOUR HOUR FIRE-RATED WALL: 6.7"

7.-WHERE A C.M.U. WALL IS SPECIFIED IN THE CONTRACT DOCUMENTS AS HAVING A PARTICULAR FIRE-RATING. THE MINIMUM EQUIVALENT SOLID THICKNESS, AS SHOWN HEREIN ABOVE, ASSOCIATED WITH THE SPECIFIED EIRE-RATING SHALL BE MAINTAINED FOR THE LULL HEIGHT AND LENGTH OF THE WALL WHETHER OR NOT THE NOMINAL C.M.U. THICKNESS VARIES WITHIN THE WALL

8.-ALL MORTAR SHALL CONFORM TO ASTM C270, TYPE N OR S, EXCEPT USE TYPE M MORTAR BELOW GRADE, WITH THE FOLLOWING CONSTITUENTS AND PROPORTIONS:

8.1.-PORTLAND CEMENT: ASTM C150 TYPE 1 8.2.-HYDRATED LIME ASTM C207. TYPE S.

8.3.-SAND: ASTM 0144

6.4.-12" CMU.: 5.70"

84-WATER POTABLE

8.5.-COLOR: AS PER ARCHITECT/ENGINEER. 8.6.-PROPORTIONS: ONE PART PORTLAND CEMENT. 1/4 TO 1/2 PARTS HYDRATED LIME, 21/4 TO 3 PARTS SAND - ALL MEASURED BY

VOLUME OF CEMENT. 8.7.-MASONRY CEMENT, BLENDED HYDRAULIC CEMENTS, ELY ASH, POZZOLANS AND GROUND GRANDULATED BLAST FURNACE SLAG SHALL NOT BE USED.

9.-MORTAR HEAD AND BED JOINTS SHALL BE 3/8" FOR THE THICKNESS. REMOVE MORTAR PROTRUSIONS EXTENDING 1/2" OR MORE INTO THE CELLS TO BE GROUTED.

9.1.-SOLID UNITS SHALL BE SET WITH LULL HEAD AND BED JOINTS. 9.2.-HOLLOW UNITS SHALL BE SET WITH LULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL LACE SHELLS 9.3.-FACE SHELL. WEBS ARE TO BE FULLY MORTARED IN ALL COURSES OF PIERS. COLUMNS. AND PILASTERS

9.4.-FULLY MORTAR IN THE STARTING COURSE AND WHERE AN ADJACENT CELL IS TO BE GROUTED. 10.-ALL GROUT SHALL CONFORM TO ASTM C476 WITH A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 3000 PSI AT THE END OF 28-DAYS AS DETERMINED BY ASTM C1019, A SLUMP AT POINT OP DISCHARGE OF 8 INCHES TO 10 INCHES AS DETERMINED BY ASTM C143 AND WITH THE FOLLOWING CONSTITUENTS AND PROPORTIONS:

10.1.-PORTLAND CEMENT: ASTM C150, TYPE 1. FLY ASH, POZZOLANS, AND GROUND IRON BLAST-FURNACE SLAG SHALL NOT BE USED 10.2.-AGGREGATES; ASTM C404. 10.3.-WATER: POTABLE.

10.4.-LINE GROUT PROPORTIONS: ONE PART PORTLAND CEMENT, 21/4" TO 3 PARTS FINE AGGREGATE ALL MEASURED BY VOLUME OF 10.5.-COARSE GROUT PROPORTIONS; ONE PART PORTLAND CEMENT, 21/4" TO 3 PARTS FINE AGGREGATE, 1 TO 2 PARTS COARSE

AGGREGATE (3/8" MAXIMUM STONE SIZE) - ALL MEASURED BY VOLUME OF CEMENT. 11.-ALL GROUTING PROCEDURES SHALL CONFORM TO ASTM C-476 AND NOMA "TEN SERIES #23A". ALL GROUT SHALL BE "FINE" UNLESS

OTHERWISE SPECIFIED ON PLANS OR DETAILS. 11.1.-MINIMUM COMPRESSIVE STRENGTH SHALL BE 3000 PSI IN 28 DAYS. 11.2.-AGGREGATE TO CONFORM TO ASTM C-404 FOR FINE GROUT, WITH SLUMP OP 8" TO 10".

11.3.-GROUT ALL MASONRY CONTAINING REINFORCING, ALL CELLS OF 4 HOUR RATED WALLS, AND WHERE INDICATED ON DRAWINGS. 11.4.-ALLOW MORTAR TO CURE 24 HOURS PRIOR TO GROUTING. 11.5.-PROVIDE CLEANOUT OPENINGS AT THE BASE OF CELLS CONTAINING REINFORCING STEEL TO CLEAN THE CELL AND TO TIE THE VERTICAL BAR TO THE DOWEL.

11.6.-IN HIGH-LIFT GROUTING, USE ECO" (MAX.) LIFT, WITH 1/2", HOUR TO 1 HOUR BETWEEN LIFTS, VIBRATE EACH LIFT AND RECONSOLIDATE THE PREVIOUS LIFT. 11.7.-USE LINE GROUT WHEN FILLING BOND BEAMS AND BLOCK CORES WHEN THE LEAST HORIZONTAL DIMENSION OF THE OPENING TO BE FILLED IS LESS THAN 4". 11.8-USE COARSE GROUT WHEN FILLING BOND BEAMS AND CORES WHEN THE LEAST HORIZONTAL DIMENSION OF THE OPENING TO BE

FILLED IS GREATER THAN OR EQUAL TO 4". 12.-HORIZONTAL JOINT REINFORCING SHALL BE INSTALLED IN EVERY OTHER COURSE. OVERLAP DISCONTINUOUS ENDS MINIMUM 6 INCHES, USE PREFABRICATED CORNERS AND TEES, JOINT REINFORCING SHALL CONFORM WITH THE FOLLOWING:

12.1.-TWO #9 GAUGE DEFORMED LONGITUDINAL STEEL WIRES CONFORMING TO ASTM A82. 12.2.-#12 GAUGE SMOOTH LADDER-TYPE STEEL CROSS WIRES CONFORMING WITH ASTM A82, WELDED TO THE LONGITUDINAL WIRES AT

12.3.-HOT-DIPPED GALVANIZED COATING AFTER FABRICATION CONFORMING TO ASTM A461, CLASS 1 13.-JOINT REINFORCING AND ANCHORS IN EXTERIOR WALLS SHALL CONFORM TO ASTM A153 CLASS B2, WITH A COATING THICKNESS OF

1.5 OZ/SF; CONFORM TO ASTM A641 FOR INTERIOR WALLS. EXTEND JOINT REINFORCING A MINIMUM OR 4" INTO TIE COLUMNS. 14.-REINFORCING SHALL BE ASTM A615. GRADE 60 KSI. EXCEPT AS OTHERWISE NOTED OR CALLED FOR ON PLANS AND DETAILS THE

FOLLOWING MINIMUM REINFORCEMENT SHALL BE PROVIDED IN ALL EXTERIOR AND INTERIOR C.M.U. WALLS BOTH BEARING AND NON-**BEARING:** 14.1.-VERTICALS: FOR INTERIOR CONDITION. (I) #5 BAR AT 48" ON CENTER, DOWELED 48 B.D. INTO THE FOUNDATION OR CONCRETE SLAB: FOR EXTERIOR CONDITION, (I) #5 AT 16" ON CENTER (UNO), DOWELED 16xB.D INTO THE FOUNDATION OR CONCRETE SLAB. 14.2.-HORIZONTALS: DUR-O-WALL JOINT REINFORCING AT 16 INCHES ON CENTER WITH PRE-FABRICATED CORNERS AT INTERSECTIONS. LAP JOINT REINFORCING A MINIMUM OF 8".

15.-OPENINGS REQUIRED IN MASONRY ELEMENTS AND NOT SHOWN IN THE STRUCTURAL CONTRACT DOCUMENTS SHALL BE INSTALLED ONLY WITH THE APPROVAL OF THE ENGINEER AND WITH THE PROPER LOOSE LINTELS OR ADDITIONAL REINFORCING AS SHOWN IN THE CONTRACT DOCUMENTS AT MISCELLANEOUS INTERIOR DOOR AND WINDOW OPENINGS PROVIDE LOOSE LINTELS, REINFORCED CONCRETE LINTEL BEAMS, ETC. AS REQUIRED. HOT DIP GALVANIZED (G90) ALL LINTELS INCLUDING RELIED ANGLE, SHELL ANGLES, ETC. AT EXTERIOR WALL, PROVIDE LINTELS OR HEADERS WITH MINIMUM 8" BEARING OVER ALL MASONRY OPENINGS.

16.-ALL BOND BEAMS, MASONRY LINTELS, KNOCK-OUT WEB BLOCK, REINFORCED VERTICAL CORES, AND ALL OTHER CORES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE GROUTED SOLID, THE GROUT FILL SHALL BE VIBRATED. DO NOT USE MORTAR WHERE GROUT IS SPECIFIED.

16.1.-ALL CONCRETE BLOCK BELOW GRADE SHALL BE FILLED SOLID WITH GROUT.

16.2.-ALL PARAPET WALLS SHALL BE SOLIDLY GROUTED. 16.3.-ALL WALL SECTIONS AND PIERS LESS THAN 4 SQUARE FEET IN CROSS-SECTIONAL AREA TO BE FULLY GROUTED OR 100% SOLID MASONRY UNITS MAY BE USED IF MASONRY IS NOT REINFORCED. 16.4.-CONCRETE BLOCK BELOW BEAM BEARING POINTS SHALL BE FILLED SOLID FOR A MINIMUM OR TWO COURSES IN DEPTH AND A

COLUMN BEARS DIRECTLY ON A BLOCK WALL, FILL ALL BLOCKS SOLID WITHIN A WIDTH OF 32", CENTERED ON THE COLUMN. 17.-WHERE ANCHOR BOLTS, WEDGE ANCHORS, OR ANCHORS SET IN EPOXY ARE INSTALLED IN A MASONRY WALL, FILL CELLS WITH GROUT FOR BOLTED COURSE, ONE COURSE ABOVE AND TWO COURSES BELOW.

MINIMUM OF WIDTH 16" WIDER THAN THE BEARING PLATE BUT NOT LESS THAN 32" IN WIDTH, U.O.N. WHERE A STEEL PIPE OR TUBE

18.-PROTECT MASONRY WORK FROM COLD WEATHER IN ACCORDANCE WITH NCMA "TEK-SERIES 16-A".

21.-FOR ADDITIONAL REQUIREMENTS. NOTES. AND DETAILS SEE TYPICAL MASONRY DETAIL DRAWINGS.

19.-DURING MASONRY CONSTRUCTION, THE GENERAL CONTRACTOR SHALL DESIGN AND INSTALL TEMPORARY SHORING, BRACING AND SUPPORTS TO RESIST ALL DEAD, CONSTRUCTION AND LIVE LOADS, TO PROVIDE STABILITY FOR WALLS AND SUPPORTS FOR LINTELS. SHORING, BRACING, & SUPPORTS SHALL BE IN ACCORDANCE WITH NCMA "TEK SERIES #72" ALL DESIGNS SHALL BE PREPARED IN ACCORDANCE WITH THE "SPECIFICATIONS".

20.-ALL TEMPORARY SHORING, BRACING AND SUPPORTS SHALL REMAIN SECURELY IN PLACE UNTIL THE NEW PRIMARY STRUCTURAL COMPONENTS HAVE BEEN INSTALLED, CURED, AND CONNECTED SO AS TO PROVIDE THE PERMANENT BRACING AND SUPPORT.

ANCHORS IN CONCRETE AND MASONRY

ANCHORS SHALL BE SUBMITTED FOR APPROVAL BY EOR.

1.-POST INSTALLED ANCHORS SHALL BE USED ONLY WHERE SPECIFIED ON STRUCTURAL DRAWINGS. 2.-THE INSTALLATION OF POST INSTALLED ANCHORS AS REPAIR FOR MISSING OR MISPLACED CAST IN-PLACE ANCHORS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD (EOR). 3.-EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE SHALL NOT BE CUT UNLESS APPROVED BY THE EOR. 4.-POST-INSTALLED ANCHORS SPECIFIED ON THE DRAWINGS FORM THE BASIS OF DESIGN. SUBSTITUTIONS WITH EQUAL OR BETTER

5.-SUBMITTAL OF ALL PROPOSED PRODUCTS, WITH TECHNICAL DATA AND CURRENT ICC-ESR REPORTS IS REQUIRED FOR REVIEW AND APPROVAL BY EOR. ADDITIONAL CALCULATIONS FOR SPECIFIC APPLICATIONS MAY BE REQUIRED BY THE EOR. 6.-ALL ANCHORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII) IN CONJUNCTION WITH EDGE DISTANCE, SPACING AND EMBEDMENT DEPTH AS INDICATED ON THE DRAWING 7.-THE CONTRACTOR SHALL ARRANGE FOR A MANUFACTURER'S FIELD REPRESENTATIVE TO PROVIDE INSTALLATION TRAINING FOR ALL PRODUCTS TO BE USED, PRIOR TO COMMENCEMENT OF WORK. ONLY TRAINED INSTALLERS SHALL PERFORM POST INSTALLED ANCHOR INSTALLATION. A RECORD OF TRAINING SHALL BE KEPT ON SITE AND BE MADE AVAILABLE TO THE EOR AND INSPECTOR AS

8.-ADHESIVE ANCHORS INSTALLED IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATIONS TO SUPPORT SUSTAINED TENSION LOADS SHALL BE PERFORMED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER (AAI) AS CERTIFIED THROUGH ACI/CRSI (ACI 318). PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO COMMENCEMENT OF INSTALLATION.

9.-ADHESIVE ANCHORS MUST BE INSTALLED IN CONCRETE AGED A MINIMUM OF 21 DAYS (ACI 318). 10.-POST-INSTALLED ANCHORS UTILIZED IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E OR F SHALL ADDITIONALLY BE QUALIFIED PER THE PROVISIONS FOR EARTHQUAKE LOADING IN THE APPLICABLE ACCEPTANCE CRITERIA.

CONCRETE ANCHORS:

11.-MECHANICAL ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH AC 355.2 AND ICC-ES AC193 FOR CRACKED AND UNCRACKED CONCRETE.

12.-ADHESIVE ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308

FOR CRACKED AND UNCRACKED CONCRETE. 13.-CAST-IN-PLACE INSERTS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC446 FOR CRACKED AND UNCRACKED CONCRETE.

MASONRY ANCHORS:

14.-MECHANICAL ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES OR AC106. 15.-ADHESIVE ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITHICC-ES AC58.

16.-POWER ACTUATED FASTENERS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC70.

AND PER THE CURRENT

POWER ACTUATED FASTENERS:

SPECIAL INSPECTION: 17.-SPECIAL INSPECTION REQUIREMENTS:

17.2.-ADHESIVE ANCHORS INSTALLED IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS SHALL BE CONTINUOUSLY INSPECTED DURING INSTALLATION BY AN INSPECTOR SPECIALLY APPROVED FOR THAT PURPOSE BY THE BUILDING OFFICIAL

17.1.-PROVIDE SPECIAL INSPECTION FOR ALL MECHANICAL AND ADHESIVE ANCHORS PER THE APPLICABLE BULDING CODE

THIS SET OF DRAWINGS MUST BE USED WITH THE ARCHITECTURAL AND ALL REMAINING DISCIPLINES INCLUDING MEP.

1.-DUNNAGE STEEL AND CONCRETE PADS NOT SHOWN WITH THIS SET. THE CONTRACTOR TO REVIEW ARCHITECTURAL AND MEP DRAWINGS AND CARRY AN ALLOWANCE.

2.-FLOOD BARRIERS AND REQUIRED STRUCTURE AND CONNECTIONS ARE NOT SHOWN IN THIS SUBMISSION. CONTRACTOR TO REFER TO ARCHITECTURAL DRAWINGS.

3.-SHEET PILING NOT SHOWN ON THIS DRAWINGS (MEANS AND METHODS/SPECIALTY DESIGN ITEM).

4.-WATERPROOFING IS BY OTHERS. REFER TO ARCHITECTURAL DRAWINGS FOR WATERPROOFING 5.-THE 'LOCKABLE DOWELS' USED ON THE PT FLOORS ARE PRODUCTS ENGINEERED BY OTHERS. HALFEN USA, INC PRODUCTS SHALL BE USED OR APPROVED EQUIVALENT. THE SPECIALTY ENGINEER SHALL PROVIDE FL-PE SIGNED AND SEALED DRAWINGS

AND CALCULATIONS TO ACCOMMODATE THE GRAVITY LOADS AND LATERAL (DIAPHRAGM LOADS) AS PROVIDED BY EOR. 6.-WHEN PROTECTION OF REBAR IS REQUIRED, SUCH AS THE CASE OF BALCONIES AND EXPOSED AMENETIES DECK (LEVEL 15) AND POOL DECK (LEVEL55), GALAVANIZED REBAR IS TO BE PROVIDED AND NOT DCI ADDITIVES.

7.-THE CONSTRUCTION JOINTS, WHERE THE LOCKABLE DOWELS ARE INSTALLED, ARE TO BE JOGGED 4" EVERY 3'-0".

DEFERRED DESIGNS

-ATTACHMENT OF GLASS RAILING AND ALUMINUM RAILING (SECTION 05520 & 05522) TO THE CONCRETE STRUCTURE. -ATTACHMENT OF STEEL LADDERS TO THE CONCRETE STRUCTURE (SECTION 05500) -PRE ENGINEERED STRUCTURAL STEEL TRUSSFRAMES FOR MAINTENANCE BUILDING.

TEMPORARY WORK NOTES

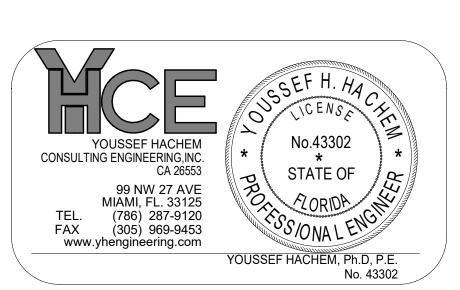
1.-ALL TEMPORARY WORK SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE APPLICABLE BUILDING CODE.

2.-IT IS THE CONTRACTOR'S RESPONSIBILITY TO DESIGN AND PROVIDE PROPER SHEETING, SHORING, AND BRACING WHEREVER NECESSARY. SHOP DRAWINGS SHALL BE PREPARED BY A LICENSED PROFESSIONAL ENGINEER AND RETAINED BY THE CONTRACTOR. TEMPORARY BRACING OR THE STEEL FRAME REQUIRED TO MAINTAIN PLUMBNESS AND STABILITY DURING CONSTRUCTION WILL BE THE RESPONSIBILITY OF THE STEEL ERECTOR.

3.-CONSTRUCTION LOADS SHALL NOT EXCEED THE CODE REDUCED DESIGN LIVE LOAD PER SQUARE FOOT. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND/OR BRACING TO SUPPORT ANY LOADS WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH.

4.-THE DRAWINGS INDICATE THE COMPLETED STRUCTURE. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ALL TEMPORARY MEASURES NECESSARY FOR ERECTION.

	STRUC	CTURAL SHEET INDEX
	SHEET No.	SHEET NAME
	D101	DEMOLITION PLAN
\wedge	S007	GÉNERAL NOTÉS \
<u>/1\</u>	S101	GROUND FLOOR FRAMING PLAN
	\$102	ROOF FRAMING PLAN
\wedge	S201 \	WINDOWS & DOORWIND DESIGN PRESSURE
<u>/1%</u>	S202	WINDOWS & DOOR, WIND DESIGN PRESSURE
	\$301	SECTIONS
	S302	SECTIONS
	S303	SECTIONS
	S501	TYPICAL DETAILS
	S502	TYPICAL DETAILS
	S601	SCHEDULES



8950 SW 74TH Court

Suite 1204

Miami, FL 33156 786-391-2646 Qualifier: Frik I lovd Myers State of Florida:

Erik Lloyd Myers

State of Florida:

Sign & Seal:

OWNER:

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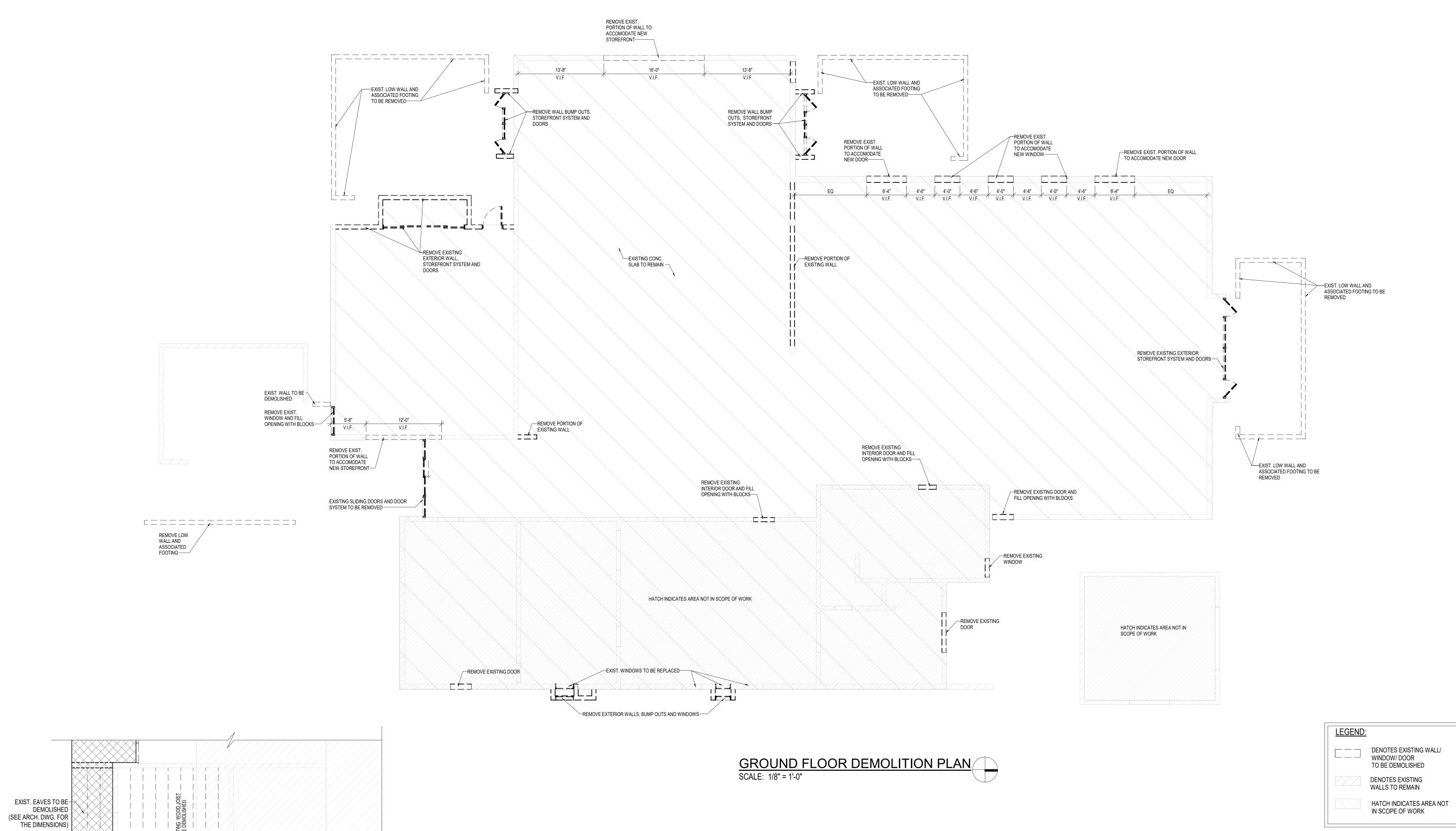
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DATE 04-03-2023

SHEET NUMBER

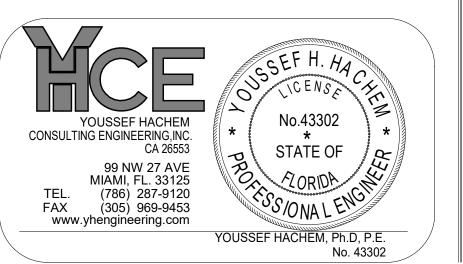
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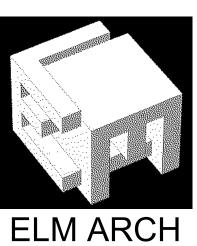
PROJECT NUMBER 19119



ROOF DEMOLITION PLAN
SCALE: 1/8" = 1'-0"







8950 SW 74TH Court Suite 1204 Miami, FL 33156 786-391-2646

Qualifier: Erik Lloyd Myers State of Florida: AR 93574

Sign & Seal: Erik Lloyd Myers State of Florida: AR 93574

OWNER:

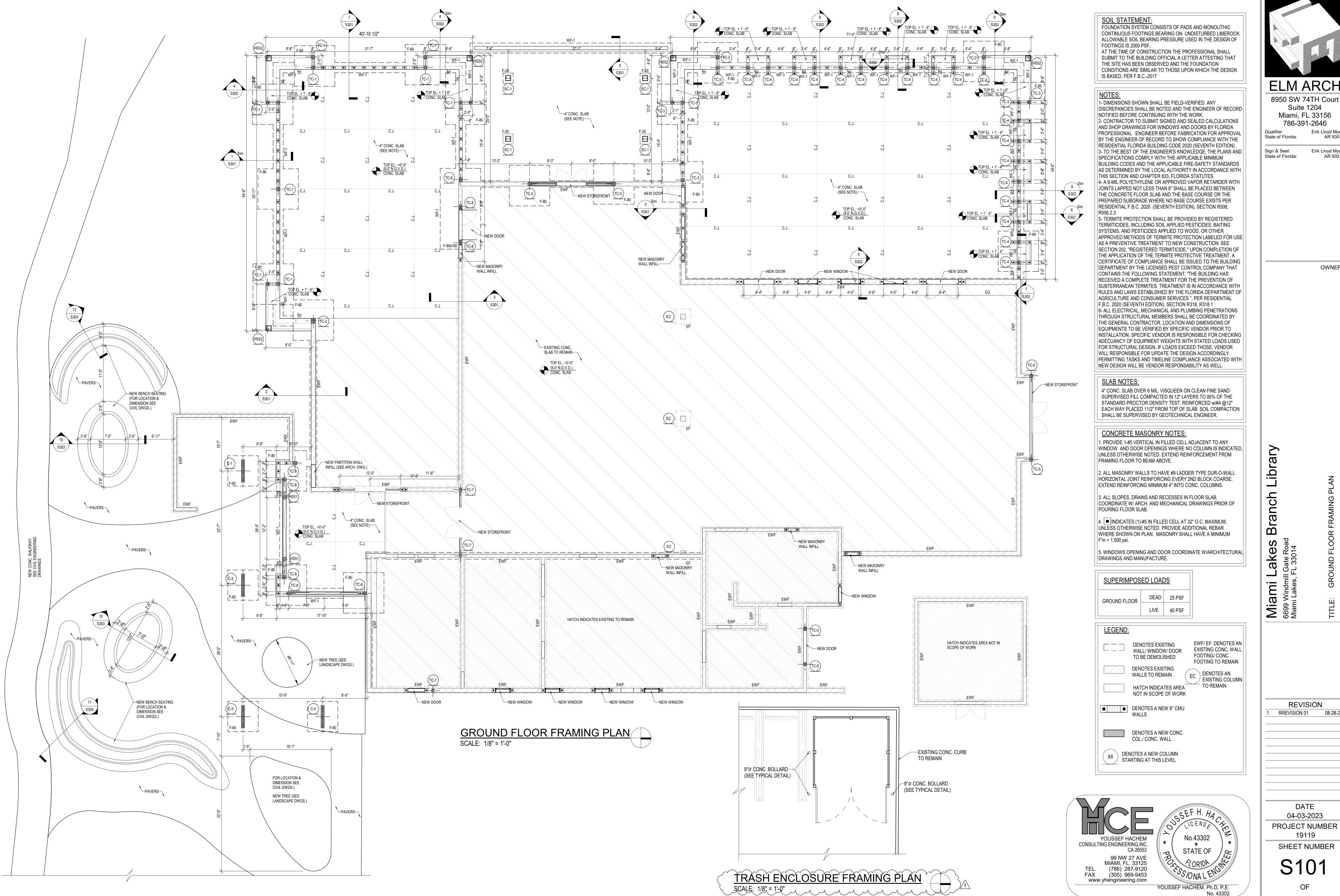
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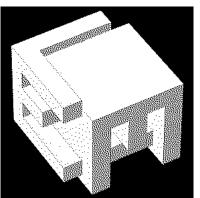
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SHEET NUMBER

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ELM ARCH

786-391-2646 Erik Lloyd Myers

AR 93574

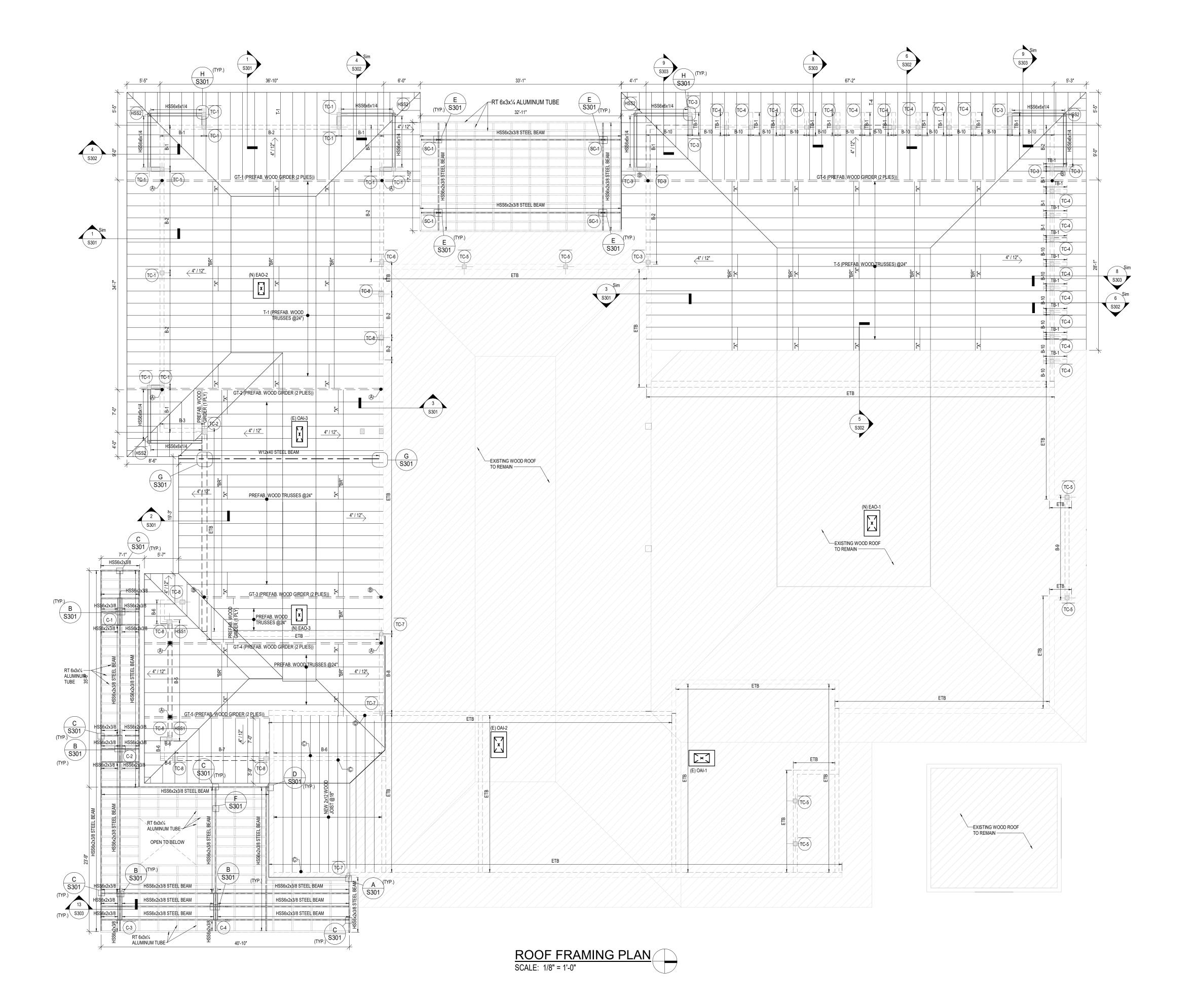
Erik Lloyd Myers

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04-03-2023 PROJECT NUMBER 19119



1- DIMENSIONS SHOWN SHALL BE FIELD-VERIFIED. ANY DISCREPANCIES SHALL BE NOTED AND THE ENGINEER OF RECORD NOTIFIED BEFORE CONTINUING WITH THE WORK. 2- CONTRACTOR TO SUBMIT SIGNED AND SEALED CALCULATIONS AND SHOP DRAWINGS FOR WINDOWS AND DOORS BY FLORIDA PROFESSIONAL ENGINEER BEFORE FABRICATION FOR APPROVAL BY THE ENGINEER OF RECORD TO SHOW COMPLIANCE WITH THE RESIDENTIAL FLORIDA BUILDING CODE 2020 (SEVENTH EDITION). 3- TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE-SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH THIS SECTION AND CHAPTER 633, FLORIDA STATUTES. 4- TERMITE PROTECTION SHALL BE PROVIDED BY REGISTERED TERMITICIDES, INCLUDING SOIL APPLIED PESTICIDES, BAITING SYSTEMS, AND PESTICIDES APPLIED TO WOOD, OR OTHER APPROVED METHODS OF TERMITE PROTECTION LABELED FOR USE AS A PREVENTIVE TREATMENT TO NEW CONSTRUCTION. SEE SECTION 202, "REGISTERED TERMITICIDE." UPON COMPLETION OF THE APPLICATION OF THE TERMITE PROTECTIVE TREATMENT, A CERTIFICATE OF COMPLIANCE SHALL BE ISSUED TO THE BUILDING DEPARTMENT BY THE LICENSED PEST CONTROL COMPANY THAT CONTAINS THE FOLLOWING STATEMENT: "THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. TREATMENT IS IN ACCORDANCE WITH RULES AND LAWS ESTABLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES.", PER RESIDENTIAL F.B.C. 2020 (SEVENTH EDITION), SECTION R318, R318.1 5- ALL ELECTRICAL, MECHANICAL AND PLUMBING PENETRATIONS THROUGH STRUCTURAL MEMBERS SHALL BE COORDINATED BY THE GENERAL CONTRACTOR. LOCATION AND DIMENSIONS OF EQUIPMENTS TO BE VERIFIED BY SPECIFIC VENDOR PRIOR TO INSTALLATION. SPECIFIC VENDOR IS RESPONSIBLE FOR CHECKING ADECUANCY OF EQUIPMENT WEIGHTS WITH STATED LOADS USED FOR STRUCTURAL DESIGN, IF LOADS EXCEED THOSE, VENDOR WILL RESPONSIBLE FOR UPDATE THE DESIGN ACCORDINGLY. PERMITTING TASKS AND TIMELINE COMPLIANCE ASSOCIATED WITH NEW DESIGN WILL BE VENDOR RESPONSABILITY AS WELL.

WOOD TRUSS NOTES:

1. TRUSS MANUFACTURER TO PROVIDE DEAD, LIVE, AND WIND UPLIFT REACTIONS FOR ALL TRUSSES AND GIRDERS. 2. STRAP ALL "PIGGYBACK" TRUSSES WITH 14 GA. BY 1" GALV. STEEL STRAPS TO EA. SUPPORTING TRUSS W/ 4-16d NAILS INTO "PIGGYBACK" TRUSS AND INTO SUPPORTING TRUSSES. STRAP BY NU-VUE .

3. AS THE ENGINEER OF RECORD OF THIS DESIGN, I HEREBY STATE THAT THE NET WIND UPLIFT REACTIONS SHOWN IN THIS PLAN SHALL SUPERSEDE THOSE SHOWN IN THE TRUSS MANUFACTURER SHOP DRAWINGS AND ENGINEERING CALCULATIONS. THE NET WIND UPLIFT REACTIONS WERE CALCULATED BY MYSELF, CONSIDERING LOCATION, TRIBUTARY AREAS, HEIGHT, AND ROOF SLOPE IN ACCORDANCE WITH THE ASCE 7-10 CODE FOR A 175 MPH WIND VELOCITY. THE CONNECTORS NOTED IN PLAN EXCEED THE NET WIND UPLIFT REACTIONS SHOWN IN PLAN.

4. MAIN ROOF PLYWOOD SHEATHING SHALL BE EXTENDED UNDER ALL VALLEY TRUSSES.

5. BRACING FOR THE ROOF SYSTEM IS DESIGNED FOR BOTH POSITIVE AND NEGATIVE PRESSURE AND MEETS THE REQUIREMENTS OF CHAPTER 23 F.B.C. 2319.17.2.4 6. OVERSTRESSING OF WOOD FOR WIND DESIGN IS ALLOWED BUT NOT TO OVERSTRESS TRUSS METAL PLATES, WHICH IS NOT ALLOWED BY ASCE 7-16. 7. FOR WATER PROOFING DETAILS SEE ARCHITECTURAL DRAWINGS.

"X": DIAGONAL "X" BRACING COMPOSED OF 2x4'S NAILED TO TRUSSES w/2-16d NAILS @ EACH POINT OF CONTACT, AS PER TPI HIB 91, PAGE 4. SEE DETAIL ON S502. "BR": CONT. 2x4 WOOD BRACING NAILED TO TOP OF EACH TRUSS BOTTOM CHORD w/2-16d NAILS SPACING EQUALLY AS NOTED,

WOOD TRUSSES REACTION

MAX. 10'-0". SEE DETAIL ON S502.

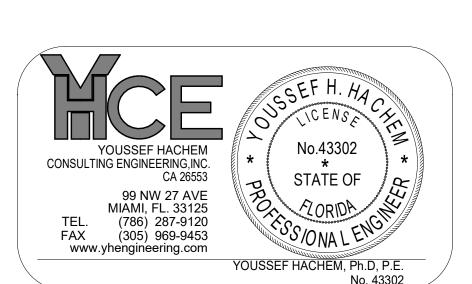
RD+L: DENOTES DEAD LOAD PLUS LIVE LOAD WOOD JOIST REACTION

N.W.U.: DENOTES NET WIND UPLIFT WOOD JOIST REACTION

SUPERIMPOS	ED LOAI	<u>os</u>
ROOF	DEAD	30 PSF
	LIVE	30 PSF

<u>LEGEND:</u> DENOTES EXISTING WALLS TO REMAIN DENOTES A NEW CONCRETE COLUMN OR WALL BELOW

> DENOTES A NEW COLUMN ENDING AT THIS LEVEL



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> Miami, FL 33156 786-391-2646 Erik Lloyd Myers

State of Florida: AR 93574 Erik Lloyd Myers

Sign & Seal: State of Florida:

OWNER:

Branch

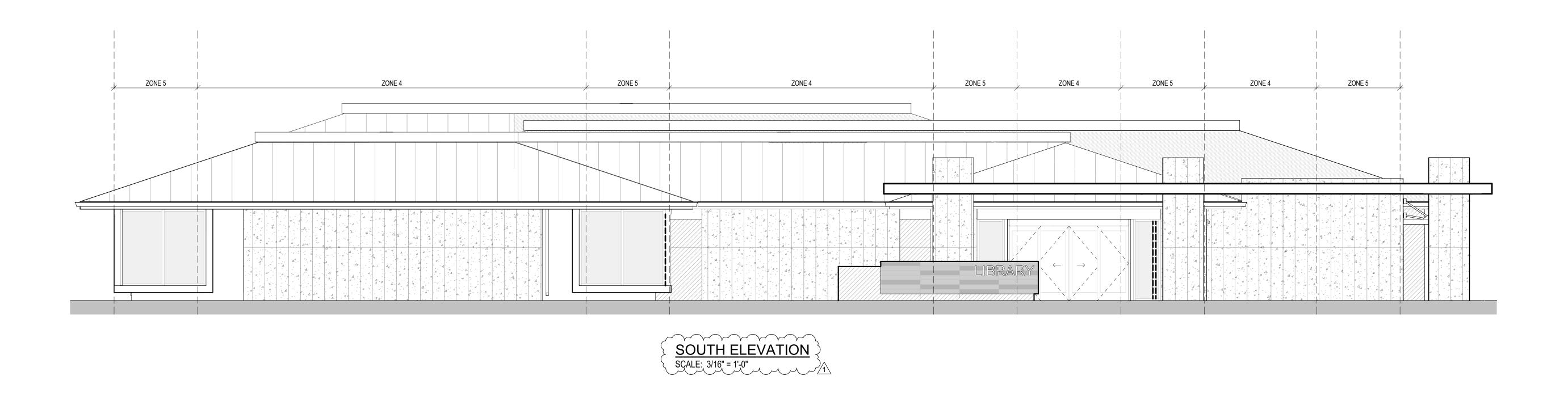
Lakes nill Gate Road s, FL 33014 Miami Lakes,

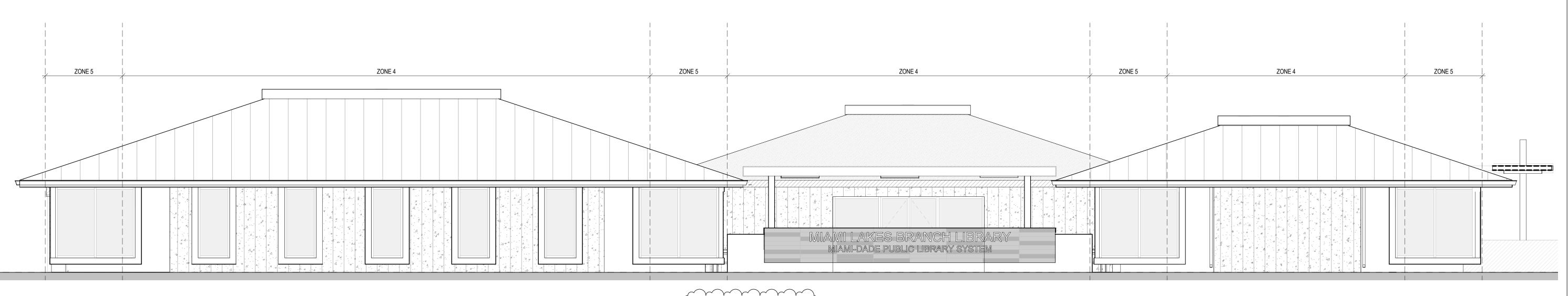
REVISION

DATE 04-03-2023 PROJECT NUMBER 19119

SHEET NUMBER

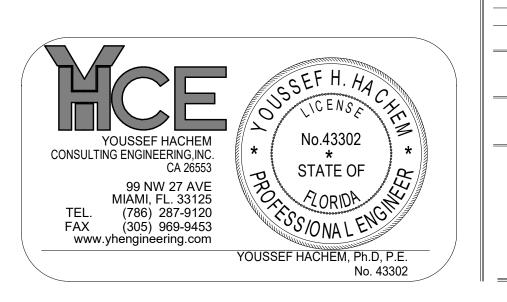
S102 OF

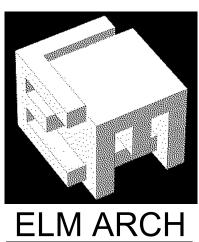




WEST ELEVATION
SCALE: 3/16" = 1'-0"

DOOR & WIN	IDOW WIND PRESSUR	E (PSF)
	WINDOWS/DOOR WII CALCULATED USING DIRECTIONALITY FAC	A WIND
	ZO	NE
	ZONE 4	ZONE 5
WINDOWS & TRANSOMS (AREA 50 SQ.FT)	+45.06 -51.19	+41.27 -72.08
DOORS/WINDOWS (AREA 100 SQ.FT)	+42.33 -49.21	+38.77 -65.97





8950 SW 74TH Court Suite 1204 Miami, FL 33156 786-391-2646

Qualifier: Erik Lloyd Myers State of Florida: AR 93574

Sign & Seal: Erik Lloyd Myers
State of Florida: AR 93574

OWNER:

FL 33014

Miami Lakes Branch

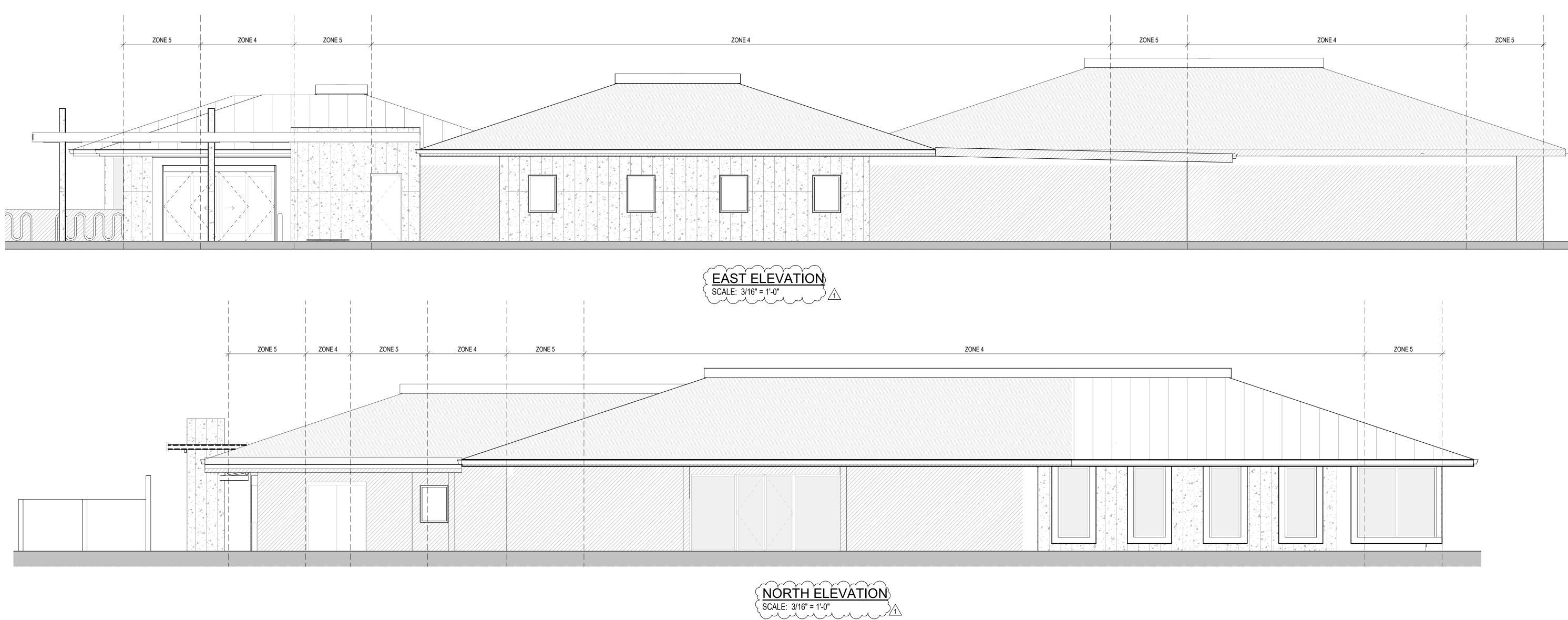
REVISION 01 08-28-23

DATE

DATE 04-03-2023 PROJECT NUMBER 19119

SHEET NUMBER

OF



DOOR & WINDO	W WIND PRESS	SURE (PSF)
	WINDOWS/DOOR WII CALCULATED USING DIRECTIONALITY FAC	A WIND
	ZO	NE
	ZONE 4	ZONE 5
WINDOWS & TRANSOMS (AREA 50 SQ.FT)	+45.06 -51.19	+41.27 -72.08
DOORS/WINDOWS (AREA 100 SQ.FT)	+42.33 -49.21	+38.77 -65.97

	D UPLIFT PRESSURE E FEET EFECTIVE ARE	,
ZONE	PRESSURES(PSF)	OVERHANG PRESSURES(PSF)
1	-48.38	-71.39
2 e	-63.03	-115.83
2r)	-79.18	-115.83
3	-180.35	-115.18

	UPLIFT PRESSURE (0 100 SQUARE FEET TC IECTIONS)	
ZONE	PRESSURES(PSF)	OVERHANG PRESSURES(PSF)
1	-53.47	-71.35
2e	-76.13	-115.38
2r)	-76.13	-115.38
3	+45.06	-119.58

ROOF LOAD NOTES:

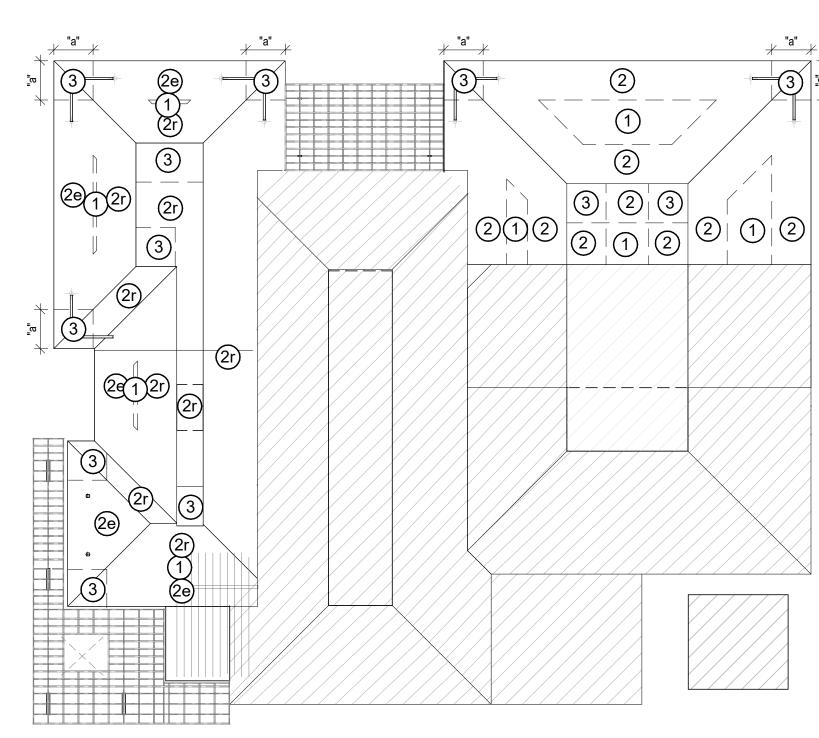
1) WIND LOADS:

ASCE 07-16 WIND VELOCITY, V = 175 MPH CATEGORY EXPOSURE "D" COEF.OF INTERNAL PRESSION GCpi=0.18 MEAN ROOF HEIGHT = 20.5ft BASIC WIND PRESSURE 43.49 PSF Kd = 0.85 KH = 1.088 Kz=1 qh = 43.49a = 8.2 ft

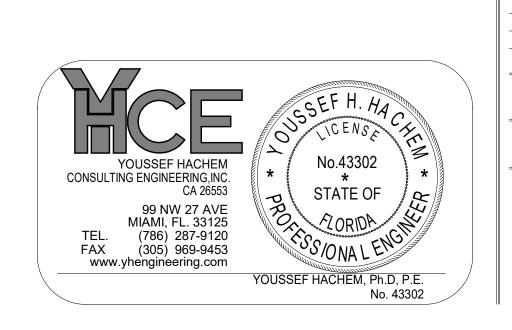
GRAVITY LOADS:

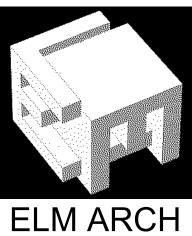
DEAD LOAD:	
SEAM TILES:	12 PSF
19/32" PLYWOOD	3 PSF
FRAMING	3 PSF
CEILING, MECH & ELECT	6 PSF

LIVE LOAD: ROOF (NON-ACCESIBLE): 30 PSF TOTAL LOAD:..



ROOF WIND PRESSURE DIAGRAM SCALE: N.T.S.





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Sign & Seal: State of Florida: Erik Lloyd Myers AR 93574

OWNER:

Branch Miami Lakes E

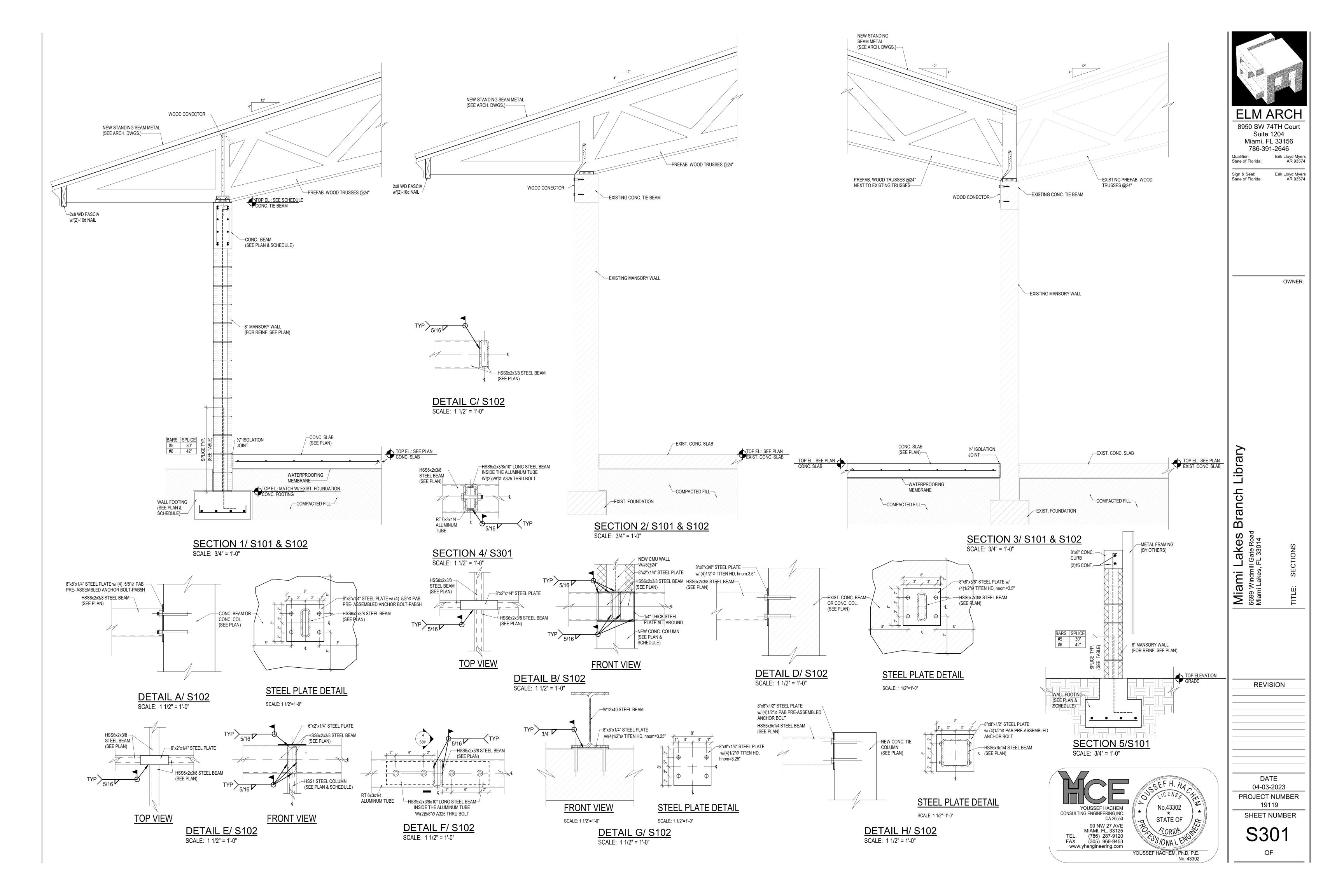
REVISION

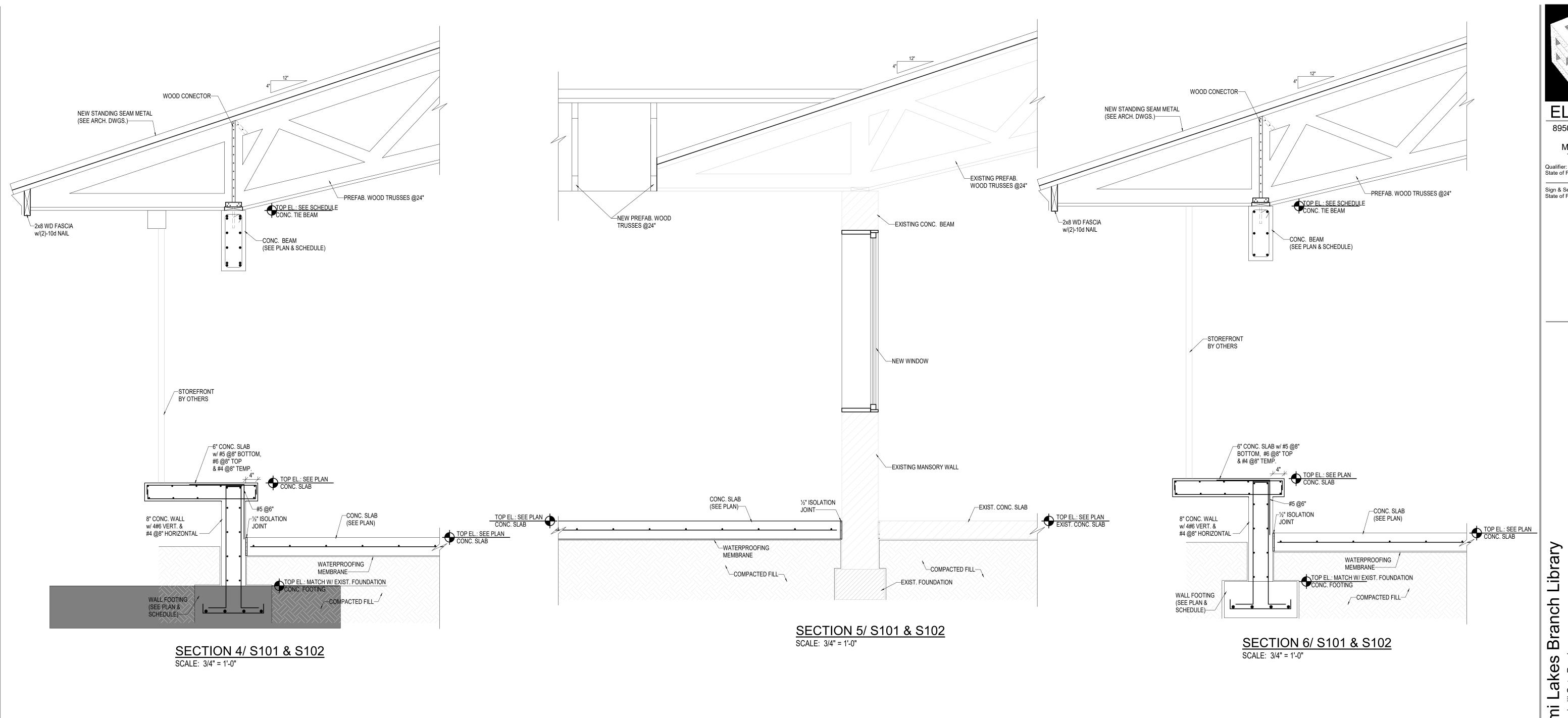
RREVISION 01 08-28-23

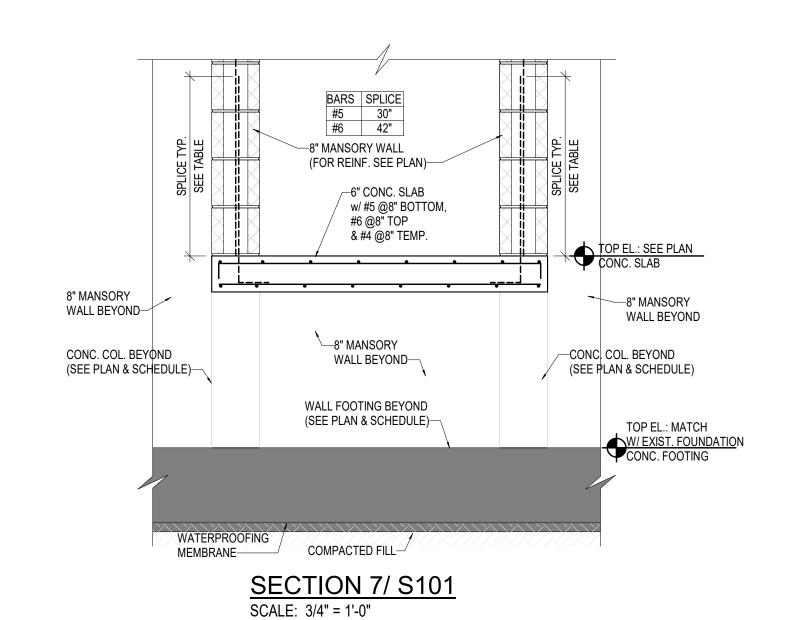
DATE 04-03-2023 PROJECT NUMBER

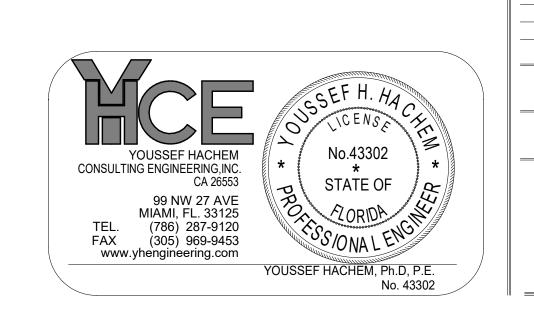
19119 SHEET NUMBER

S202 OF









ELM ARCH

8950 SW 74TH Court Suite 1204 Miami, FL 33156 786-391-2646

Qualifier: Erik Lloyd Myers
State of Florida: AR 93574

Sign & Seal: Erik Lloyd Myers
State of Florida: AR 93574

OWNER:

Miami Lakes Branch Library

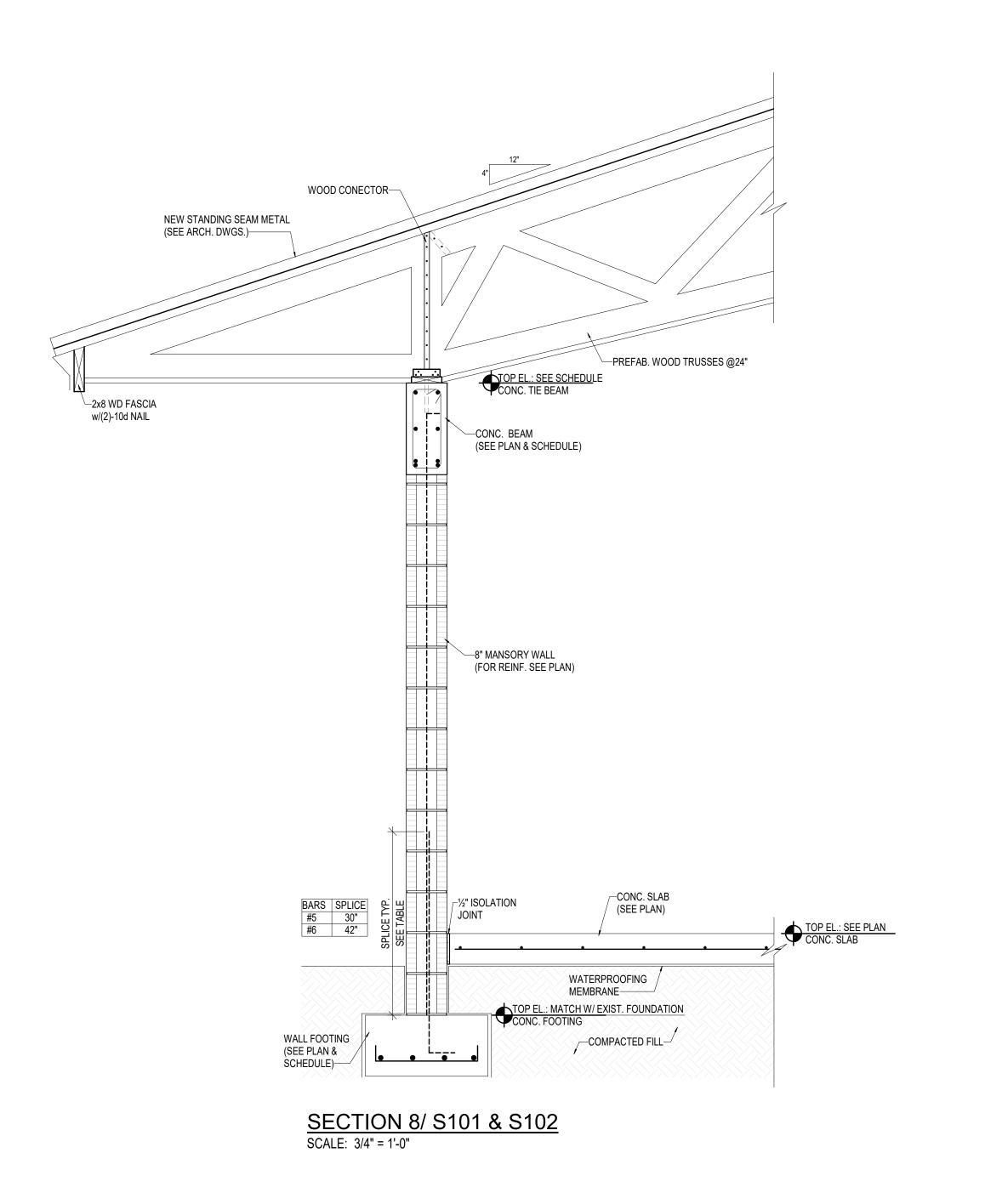
REVISION

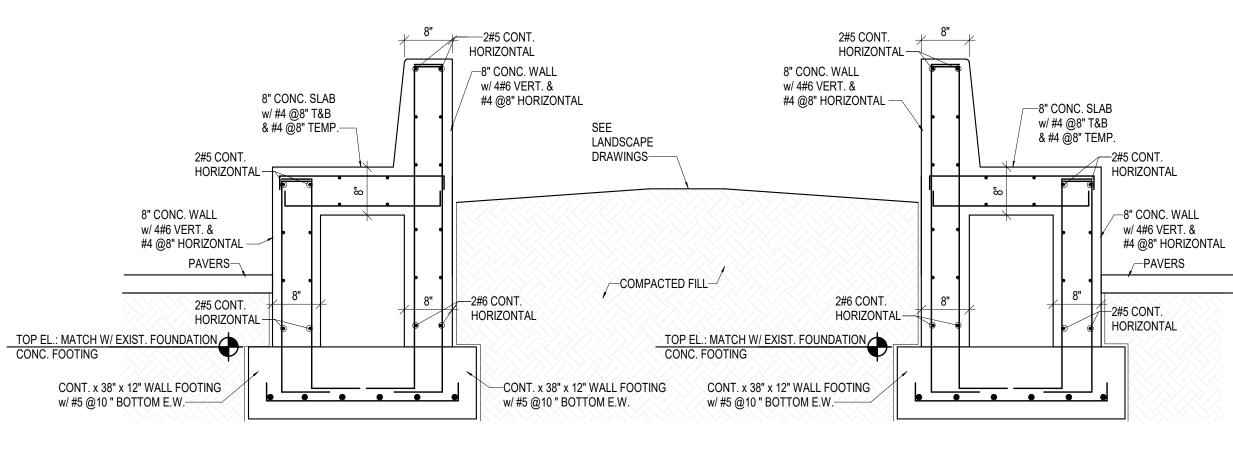
DATE 04-03-2023

PROJECT NUMBER 19119
SHEET NUMBER

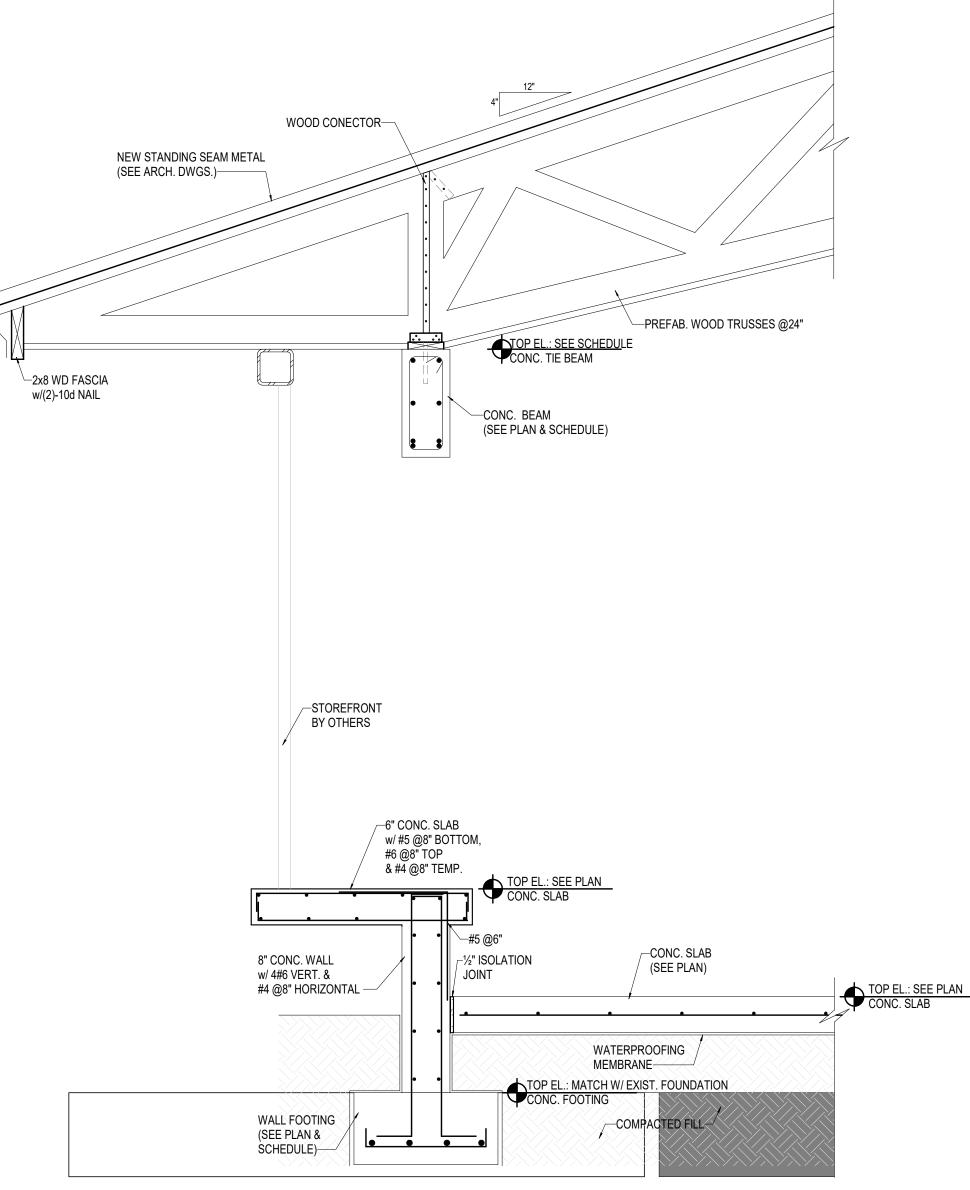
\$302

OF

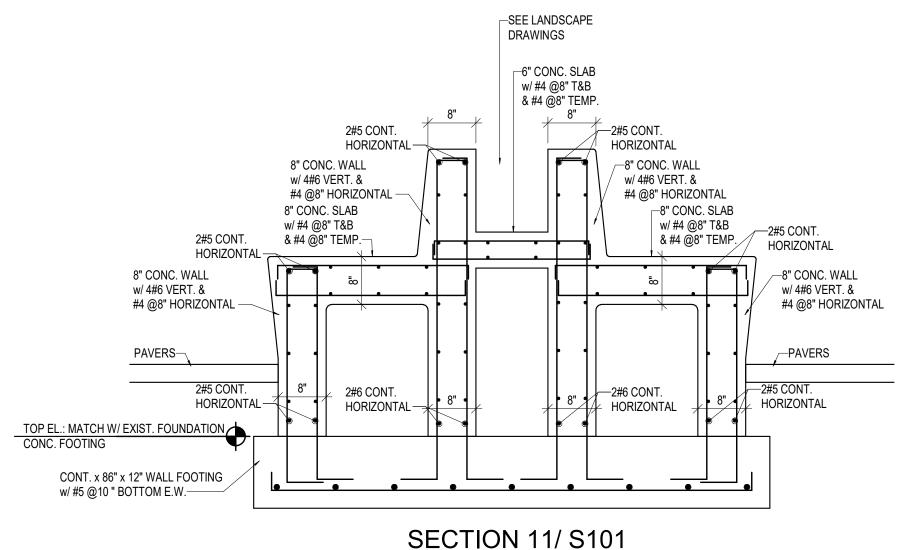


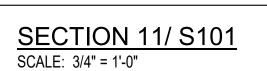


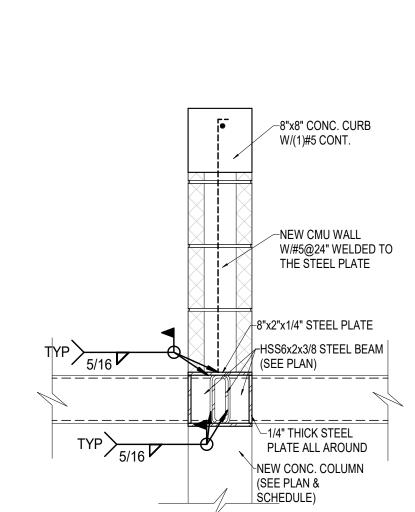
<u>SECTION 10/ S-101</u> SCALE: 3/4" = 1'-0"



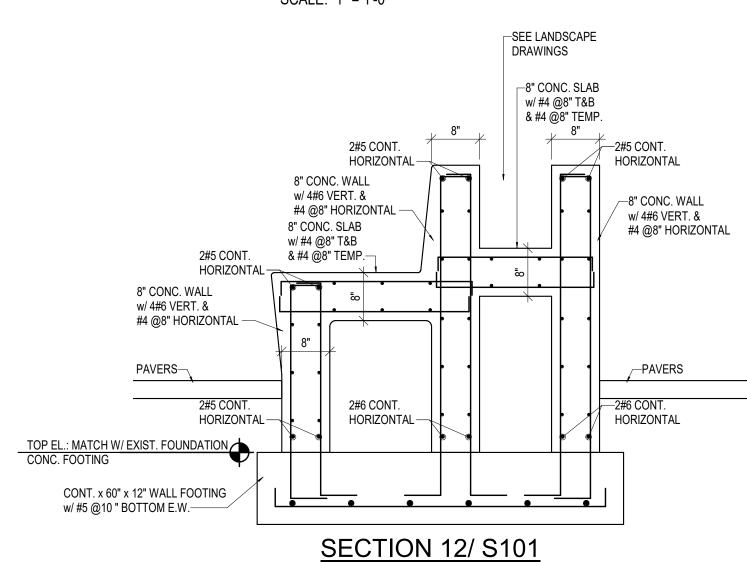
SECTION 9/ S101 &S102 SCALE: 3/4" = 1'-0"





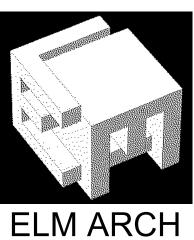


SECTION 13/ S102 SCALE: 1" = 1'-0"



SCALE: 3/4" = 1'-0"





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OWNER:

Lib Branch

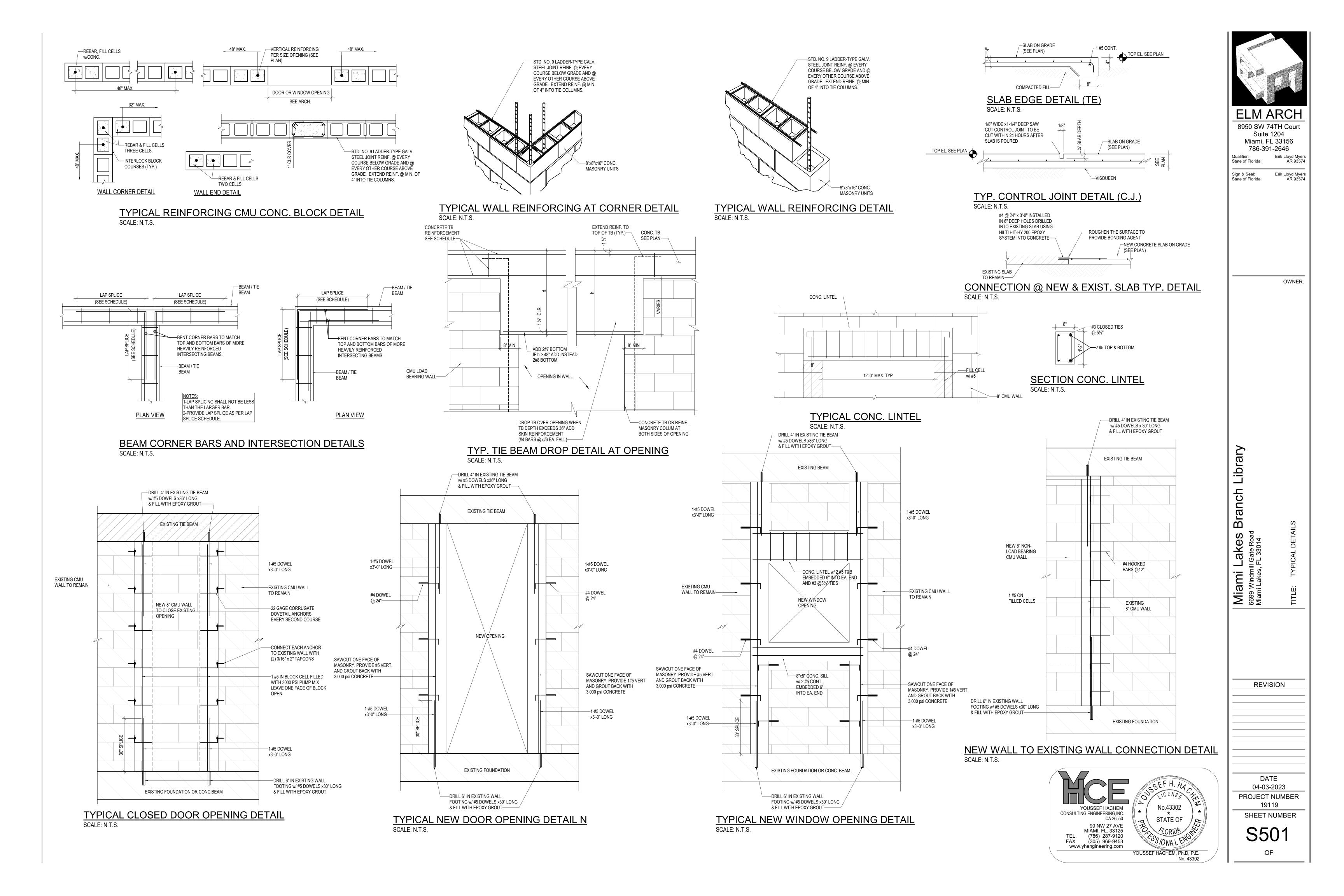
Miami Lakes E Miami Lakes E Miami Lakes, FL 33014

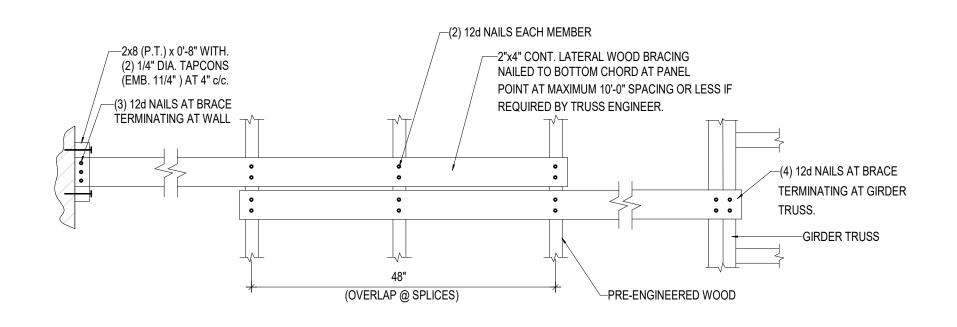
REVISION

DATE 04-03-2023 PROJECT NUMBER 19119

SHEET NUMBER S303

OF





-4" CONC. SLAB

(SEE PLAN)

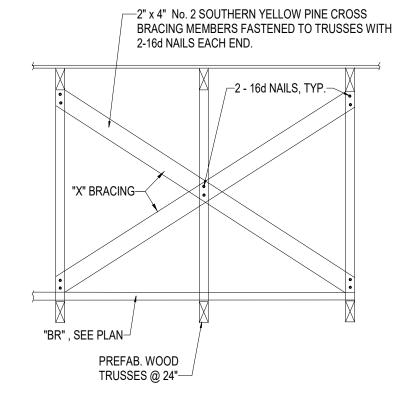
-EXIST. CONC. SLAB ON

GRADE TO BE CUT

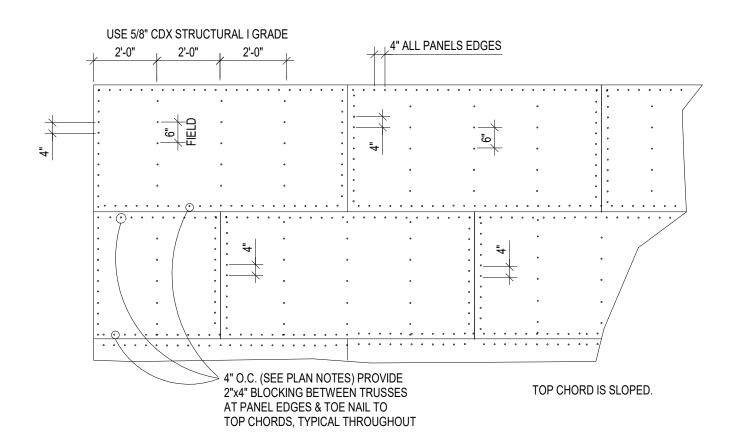
TYPICAL LATERAL BRACING DETAIL SCALE: N.T.S.

SLAB INFILL

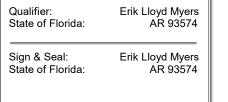
EXIST. CONC. SLAB ON GRADE TO BE CUT——



TYPICAL "X" BRACING DETAIL SCALE: N.T.S.



PLYWOOD SHEATHING NAILING PATTERN SCALE: N.T.S.



ELM ARCH

8950 SW 74TH Court

Suite 1204

Miami, FL 33156

786-391-2646

OWNER:

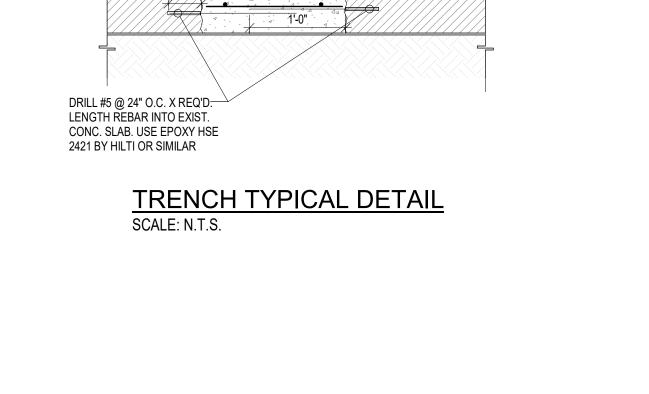
Miami Lakes Branch Library
6699 Windmill Gate Road
Miami Lakes, FL 33014

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DATE 04-03-2023 PROJECT NUMBER

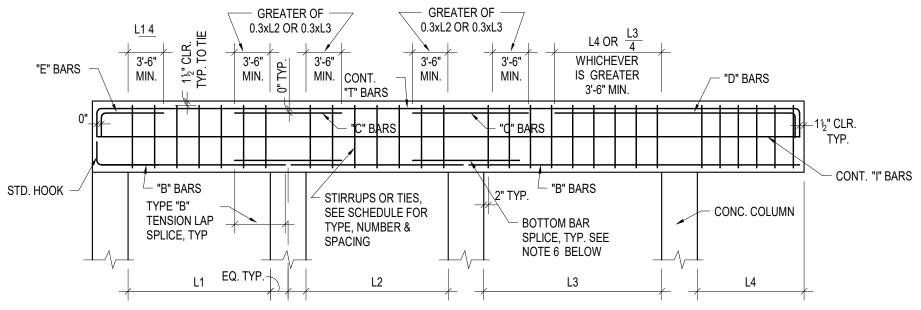
19119
SHEET NUMBER
\$502

99 NW 27 AVE MIAMI, FL. 33125 TEL. (786) 287-9120 FAX (305) 969-9453 www.yhengineering.com





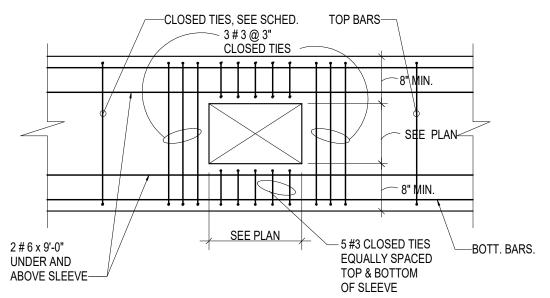
					CC	NCRE	ETE B	EAM SCHE	DULE			
		WIDTH		BOTTOM	TOP	REINFORCI	NG	MID BARS		STIRRUF	PS	
MARK	TOP ELEVATION	WIDTH (IN)	DEPTH (IN)	REINFORCING "B" BARS	"T" BARS	"C" BARS	"E" BARS	"I" BARS EA. FACE	SIZE	TYPE	SPACING	REMARKS
B-1	9' - 0"	8"	16"	2#8+2#6**	2#8+2#6			2#4	#4	1	@8" O.C.	** IN TWO LAYERS
B-2	9' - 0"	8"	16"	2#8+2#6**	2#8+2#6			2#4	#4	I	@8" O.C.	** IN TWO LAYERS
B-3	9' - 0"	8"	16"	2#8**	2#8**			2#4	#4	I	@8" O.C.	** IN TWO LAYERS
B-5	9' - 0"	10"	12"	3#5+3#5**	3#5			2#4	#4	I	@8" O.C.	** IN TWO LAYERS
B-6	9' - 0"	10"	12"	2#5	2#5			2#4	#4	I	@8" O.C.	
B-7	9' - 0"	10"	12"	2#8+2#6*	2#8			1#4	#4	I	@8" O.C.	* IN A SECOND LAYER
B-8	9' - 0"	8"	12"	2#6**	2#6			1#4	#4	I	@8" O.C.	** IN TWO LAYERS
B-9	10' - 0"	8"	12"	2#6**	2#6			1#4	#4	I	@8" O.C.	** IN TWO LAYERS
B-10	9' - 0"	8"	16"	2#6+2#5*	2#5			1#4	#4	I	@8" O.C.	* IN A SECOND LAYER
TB-1	9' - 0"	8"	12"	2#5	2#5				#4	1	@8" O.C.	



TYPICAL BEAM BAR PLACING DIAGRAM

NTS

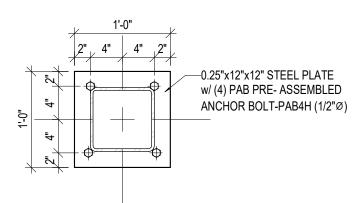
- NOTES:
 1.-PLACE A MAXIMUM OF 2 BARS PER LAYER IN 8"-WIDE BEAMS.
- 2.-ALL TOP & BOTTOM BARS SHALL BE CONT. WHERE NECESSARY, LAP SPLICE TOP BARS IN MIDDLE 3RD OF SPAN & LAP SPLICE BOTTOM BARS @ SUPPORTS. LAP SPLICE SHALL BE MIN. 3'-6", SPLICE TOP BARS AT MID SPAN W/ CLASS "B" TENSION LAP SPLICES.
- 3.-SPLICE "I" BARS AT SUPPORTS W/ CLASS "B" TENSION LAP SPLICES.
- 4.-PLACE "C" BARS OVER RIGHT-HAND SUPPORT, UNLESS NOTED IN REMARKS.
- 5.-"I" BARS AS SCHEDULED SHALL BE PLACED EACH SIDE OF BEAM.
 6.-PROVIDE 14 OF THE AREA OF THE BOTTOM REINFORCING OF THE ADJACENT SPAN WITH THE HIGHEST AREA OF BOTTOM REINFORCING,
- BUT NOT LESS THAN TWO BARS. BAR SIZE NO LESS THAN A #5 BAR. WHERE ADJACENT BEAMS ARE DIFFERENT IN DEPTH PLACE THE SPLICE BAR AT THE LEVEL OF THE BOTTOM BARS OF THE SHALLOWEST BEAM.
- 7.-ALL LAP SPLICE SHALL BE CLASS "B" TENSION LAP SPLICE, THE LONGER SPLICE LENGTH SHALL BE USED FOR BARS OF DIFFERENT SIZE.
 8.-"L" INDICATES THE LARGER OF ADJACENT SPANS.
- 9.-WHERE BOTTOM BARS ARE INDICATED AS CONT. w/ADJACENT SPANS, SPLICES, WHERE NEEDED, SHALL BE MADE AT SUPPORTS.
 10.-ALL TOP BARS TO BE HOOKED AT EA END WITH STANDARD HOOK SPECIFIED FOR TENSION, SEE SCHEDULE.

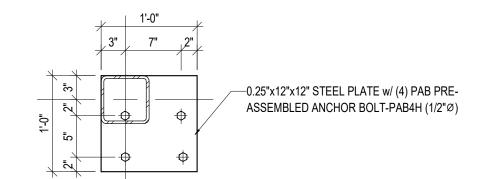


TYP. CONCRETE BEAM SLEEVE DETAIL

SCALE: 3/4" = 1'-0"

			STEEL C	OLUMN SCHEDULE		
MARK	DESCRIPTION	BASE PLATE	TOP PLATE	ANCHORS AT BASE	ANCHORS AT TOP	REMARKS
HSS1	HSS 8"x8"x1/2"	0.25"x12"x12"	-	(4) PAB PRE-ASSEMBLED ANCHOR BOLT-1/2" DIAM. PAB4H EMBEDMENT 4" IN CONCRETE	-	
HSS2	HSS 6"x6"x1/2"	0.25"x12"x12"	-	(4) PAB PRE-ASSEMBLED ANCHOR BOLT-1/2" DIAM. PAB4H EMBEDMENT 4" IN CONCRETE	-	
SC-1	W8x15	0.25"x12"x12"	-	(4) PAB PRE-ASSEMBLED ANCHOR BOLT-1/2"	-	





HSS1 BASE PLATE DETAIL SCALE: 1" = 1'-0"

HSS2 BASE PLATE D	ETAIL
SCALE: 1" = 1'-0"	

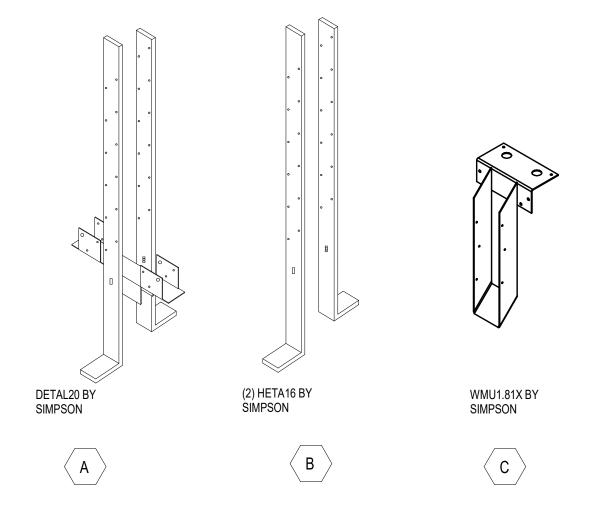
	CONCRET	E COLUM	N SCHEDU	ILE
MARK	SIZE	REINFOI	RCEMENT	REMARKS
IVIAINN	SIZL	VERTICAL	TIES OR CAP	INLIVIAINIO
C-1	8"x54"	12#6	#3 @12" O.C	
C-2	8"x54"	12#6	#3 @12" O.C	
C-3	8"x54"	12#6	#3 @12" O.C	
C-4	8"x54"	12#6	#3 @12" O.C	
TC-1	8" x 8"	4#6	#3 @8" O.C	
TC-2	10" x 12"	4#6	#4 @8" O.C	
TC-3	8" x 8"	4#6	#4 @8" O.C	
TC-4	8" x 8"	4#5	#3 @8" O.C	
TC-5	8" x 8"	4#5	#3 @8" O.C	
TC-6	8" x 10"	4#6	#3 @8" O.C	
TC-7	6" x 8"	4#6	#4 @8" O.C	
TC-8	8" x 10"	4#6	#4 @8" O.C	
	1			

2712

SC-1 BASE PLATE DETAIL SCALE: 1" = 1'-0"

		FO	OTING SC	HEDULE		
MARK	SIZE L X W X THICKNESS	BO	ГТОМ	TC	REMARKS	
		SHORT BAR	LONG BAR	SHORT BAR	LONG BAR	
F-20	4'-0" x 4'-0" x 12"	6#6	6#6			
F-60	6'-0" x 6'-0" x 12"	10#5	10#5			
F-80	8'-0" x 8'-0" x 14"	12#5	12#5			
F-80x160	8'-0" x 16'-0" x 14"	12#5	12#5			
WF-1	CONT. x 36" x 12"	#5 @6"	4#8			

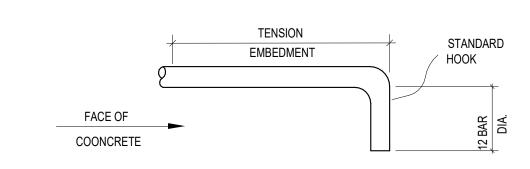
			CONNECT	OR SCHED	ULE		
MARK	CONNECTOR	CONN	ECTOR ALLOWA	NAIL SIZE &	N.O.A./FL		
		UPLIFT	DOWN	LATERAL LOAD PARALLEL	LATERAL LOAD PERPENDICULAR	CUANTITY	APPROVAL
(A)	DELTA 20	2480	-	2000	1505	(18) 10d x 1½"	
(B)	(2) HETA 16	2700	-	1350	1520	(12) 16d	
<u>C</u>	WMU1.81X	545	3380			(2) 0.162x 3 1/2 DUPLEX	



	CONCRETE	CENTER TO CENTER BAR SPACING				
	COVER	< 2 DB	> 2 DB , 3 BB	> 3 DB		
BEAMS, COLUMNS	< 1 DB	CASE 2	CASE 2	CASE 2		
	> 1 DB	CASE 2	CASE 1	CASE 1		
ALL OTHER	< 1 DB	CASE 2	CASE 2	CASE 2		
ALL OTTLIN	> 1 DB	CASE 2	CASE 2	CASE 1		

TENSION LAP SPLICES									
F'c (PSI)	4000	5000	6000	7000	8000				
BAR SIZE									
#4	37"	33"	30"	29"	26"				
#5	47"	42"	37"	36"	33"				
#6	56"	50"	44"	43"	39"				
#7	81"	73"	65"	63"	57"				
#8	93"	83"	73"	71"	65"				
#9	105"	94"	83"	54"	74"				
#10	118"	106"	96"	90"	83"				

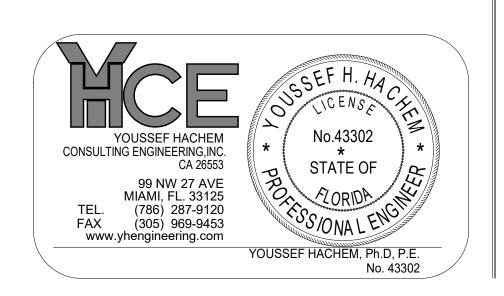
							NT LEN					
BAR	f'c = 300	00 psi	fc = 4000) psi	f'c = 500	00 psi	f'c = 600	0 psi	f'c = 700	00 psi	f'c = 8000 ps	
SIZE	TOP	BOT	TOP	BOT	TOP	BOT	TOP	BOT	TOP	BOT	TOP	ВОТ
#4	12"	8"	10"	7"	9"	6"	9"	6"	9"	6"	9"	6"
# 5	14"	10"	13"	9"	12"	8"	10"	7"	10"	7"	10"	7"
# 6	17"	12"	14"	10"	13"	9"	13"	9"	12"	8"	12"	8"
#7	20"	14"	17"	12"	16"	11"	14"	10"	13"	9"	13"	9"
#8	23"	16"	20"	14"	17"	12"	16"	11"	16"	11"	14"	10"
# 9	26"	18"	21"	15"	20"	14"	19"	13"	17"	12"	16"	11"
# 10	28"	20"	24"	17"	23"	16"	20"	14"	19"	13"	17"	12"
# 11	31"	22"	27"	19"	24"	17"	23"	16	21"	15"	20"	14"

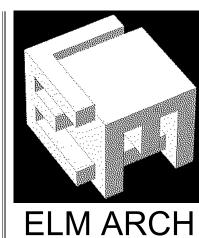


TYPICAL TENSION EMBEDMENT DETAIL
N.T.S.

		DL+LL REACTION (Lbs)	NET UPLIFT REACTION (Lbs)			
MARK —	LEFT	INTER	RIGHT	LEFT		RIGHT	
GT-1	1043	-	1043	1008	-	1008	
GT-2	914	-	914	452	-	452	
GT-3	700	-	700	675	-	675	
GT-4	700	-	700	675	-	675	
GT-5	700	-	700	675	-	675	
GT-6	2562	-	2562	1738	-	1738	
T-1	1008	-	1008	687	-	687	
T-2	1616	-	1616	1500	-	1500	
T-3	646	-	646	593	-	593	
T-4	809	-	809	790	-	790	
T-5	2627	-	2627	2568	-	2568	

NOTE: REFERENCE FOR LEFT AND RIGHT SUPPORT SHALL BE TAKEN WHEN THE OBSERVER INSIDE THE BUILDING IS FACING WEST OR FACING SOUTH.





8950 SW 74TH Court Suite 1204 Miami, FL 33156 786-391-2646

786-391-2646

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Sign & Seal: Erik Lloyd Myers
State of Florida: AR 93574

OWNER:

Branch Library

Miami Lakes Brandmill Gate Road Miami Lakes, FL 33014

REVISION

DATE 04-03-2023 PROJECT NUMBER 19119

S601

SHEET NUMBER