RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES** LEE'S SUMMIT, MISSOUR 03/09/2023 1 1:22:49 DING CODE(S): 2018 INTERNATIONAL BUILDING CODE WITH LOCAL AMENDMENTS 10. CONCRETE: ABOVE FINISH FLOOR JOIST JOINT **ALTERNATE** KIP (1000 LBS) DESIGN LOADS: A.B. ANCHOR BOLT CAST-IN-PLACE CONCRETE CONSTRUCTION SHALL COMPLY WITH THE APPLICABLE BUILDING ARCH LBS POUNDS ARCHITECTURAL PLANS CODE REQUIREMENTS, INDUSTRY GUIDES, AND REFERENCE STANDARDS INCLUDING, BUT NOT LLH LONG LEG HORIZONTAL A. FLOOR LIVE LOADS LONG LEG VERTICAL LLV MANUF MANUFACTURER a. FLOORS BALANCE a. ACI 301 - SPECIFICATIONS FOR STRUCTURAL CONCRETE MAS **MASONRY** BLDG BUIL DING ACI 305R - GUIDE TO HOT WEATHER CONCRETING MAX MAXIMUM PER PEMB SUPPLIER **BUILDING LINE** B. ROOF LIVE LOAD MIN MINIMUM ACI 306R - GUIDE TO COLD WEATHER CONCRETING BEAM **GENERAL NOTES** BOT MISC **MISCELLANEOUS** BOTTOM C. ROOF SNOW LOAD PER PEMB SUPPLIER ACI 318 - STRUCTURAL CONCRETE BUILDING CODE BRG BEARING TYPICAL DETAILS ACI 347 - GUIDE TO FORMWORK FOR CONCRETE BTWN **BETWEEN** N.S. NEAR SIDE PER PEMB SUPPLIER D. RAIN LOADS ACI SP-66 - ACI DETAILING MANUAL N.T.S. NOT TO SCALE CENTER LINE AWS D1.4 - STRUCTURAL WELDING CODE - REINFORCING STEEL C.G.S CENTER OF GRAVITY OF STRANDS O.C. ON CENTER S101 PER PEMB SUPPLIER FOUNDATION PLAN E. WIND LOADS CRSI - MANUAL OF STANDARD PRACTICE CAST-IN-PLACE CONCRETE O.F. **OUTSIDE FACE** OPNG CLR CLEAR OPENING PER PEMB SUPPLIER SEISMIC LOADS C.J. OPP **OPPOSITE CONTROL JOINT** B. ALL CONCRETE, UNLESS NOTED OTHERWISE, SHALL DEVELOP A 28 DAY COMPRESSIVE STRENGTH FOUNDATION SECTIONS COL PC PRECAST COLUMN PER PEMB SUPPLIER OF 4,500 PSI AND HAVE MAXIMUM WATER/CEMENT RATIO OF 0.45. G. DEAD LOADS **CONCRETE MASONRY UNIT** PEMB PRE ENGINEERED METAL BUILDING PSF CONC POUNDS PER SQUARE FOOT CONCRETE ALL FOUNDATION LOADS AND REACTIONS WERE SUPPLIED TO PMA ENGINEERING BY THE CONCRETE EXPOSED TO WEATHER, VEHICLES, AND/OR DEICING CHEMICALS SHALL BE CONT **CONTINUOUS** PSI POUNDS PER SQUARE INCH PRE-ENGINEERED METAL BUILDING (PEMB) SUPPLIER. THESE FOUNDATION LOADS AND REACTIONS AIR-ENTRAINED WITH 6% (+/-) 1.5% ENTRAINED AIR BY VOLUME AT POINT OF DISCHARGE. DO NOT CTR CENTER **POST TENSION** WERE PROVIDED IN A DRAWINGS PACKAGE FROM "TOPLINE STEEL BUILDINGS" DATED 10/24/2022. II ALLOW AIR CONTENT OF TROWELED FINISHED FLOORS TO EXCEED 3%. RAD DIAMETER RADIUS FOUNDATION LOADS AND REACTIONS HAVE BEEN UPDATED FROM THIS DRAWING PACKAGE, DO NOT REINF DEG REINFORCEMENT DEGREE PROCEED WITH CONSTRUCTION AND CONTACT PMA ENGINEERING FOR REVISED FOUNDATION NORMAL WEIGHT AGGREGATES SHALL COMPLY WITH ASTM C33 STANDARD SPECIFICATION FOR REF DIM DIMENSION REFERENCE REQUIREMENTS. A COPY OF THE DRAWINGS PACKAGE HAS BEEN ATTACHED SEPARATELY. CONCRETE AGGREGATES. COARSE AGGREGATE SHALL MEET THE DELETERIOUS SUBSTANCE AND DTL DETAIL RE: REFERENCE PHYSICAL PROPERTIES REQUIREMENTS OF ASTM C33, TABLE 4 FOR CLASS DESIGNATION 3S OR DWG **DRAWING** SCHED SCHEDULE STATEMENT OF SPECIAL INSPECTIONS BETTER. FINE AGGREGATE SHALL CONFORM TO ASTM C33. SECT E.F. **EACH FACE** SECTION SHT ELEV **ELEVATION** SHEET THIS STATEMENT OF SPECIAL INSPECTIONS IS IN ACCORDANCE WITH 1704.3 OF THE 2018 SIM EQ EQUAL SIMILAR THE CONCRETE SLAB-ON-GRADE HAS BEEN DESIGNED FOR THE FINAL USE AND NOT FOR INTERNATIONAL BUILDING CODE (2018 IBC). THE INTENT OF THIS SECTION IS THAT ALL SPECIAL SPA E.W. **EACH WAY** SPACING INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE PROVISIONS OF CHAPTER 17 OF CONSTRUCTION CONSIDERATIONS. CONTRACTOR SHALL COORDINATE THE SLAB DESIGN WITH **SPECS** SPECIFICATION **EXIST EXISTING** CONSTRUCTION NEEDS. THE SLAB DESIGN INDICATED ON THESE DRAWINGS IS TO BE THE 2018 IBC (2018 IBC) UNLESS SPECIFICALLY NOTED OTHERWISE. ADDITIONAL SPECIAL SQ EXP **EXPANSION** SQUARE CONSIDERED A MINIMUM. SUBMIT CHANGES TO THE SLAB DESIGN TO THE ENGINEER OF RECORD INSPECTIONS MAY BE REQUIRED BY LOCAL CODE OR BUILDING OFFICIAL, AND IT IS THE EXT **EXTERIOR** STD STANDARD RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ANY ADDITIONAL REQUIREMENTS ABOVE AND STL FND FOUNDATION STEEL BEYOND THE CODE REQUIRED SPECIAL INSPECTION INDICATED BELOW. SW SHEAR WALL FIN FINISHED IT IS THE INTENT OF THESE CONCRETE SPECIFICATIONS THAT THE CONTRACTOR SUPPLY T&B **TOP & BOTTOM** FLOOR B. THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH THE BUILDING CONCRETE MIXES WITH A MINIMUM AMOUNT OF WATER IN ORDER TO LIMIT PLASTIC SHRINKAGE T.O. TOP OF....(ADD ITEM) F.S. FAR SIDE CODE. CRACKING IN FRESHLY PLACED CONCRETE. IT IS EXPECTED THAT PRODUCING WORKABILITY FOR TYP TYPICAL FTG FOOTING CONCRETE MIXES WILL REQUIRE THE ADDITION OF WATER-REDUCING AND/OR U.N.O. **UNLESS NOTED OTHERWISE** F.V. FIELD VERIFY CONCRETE DESIGN MIX SUPER-PLASTICIZING CHEMICAL ADMIXTURES. VAR **VARIES** GAUGE PLACING OF CONCRETE AND REINFORCING STEEL VERT **VERTICAL** G.B. **GRADE BEAM** BOLTS AND ANCHORS EMBEDDED IN CONCRETE WITH GALV CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD PRIOR TO USE OF GALVANIZED CONCRETE FORMWORK W.W.F. WELDED WIRE FABRIC SELF-CONSOLIDATING CONCRETE MIX. HORIZ HORIZONTAL INSIDE FACE C. THE OWNER IS RESPONSIBLE FOR EMPLOYING ONE OR MORE SPECIAL INSPECTORS TO PERFORM CONCRETE SLUMP SHALL BE A MAXIMUM OF 4" +/- 1" (ASTM C143) AS DELIVERED IN THE FIELD. INSPECTIONS DURING CONSTRUCTION, BASED ON REQUIREMENTS OF ONE OR MORE DESIGN STRUCTURAL SHEET INDEX STRUCTURAL ABBREVIATIONS CONTRACTOR MAY USE CHEMICAL ADMIXTURES TO ATTAIN A MAXIMUM SLUMP OF 8" FOR WORKABILITY S001 S001 THE CONTRACTOR SHALL REQUEST SPECIAL INSPECTION OF THE ITEMS LISTED ABOVE PRIOR TO THOSE ITEMS BECOMING INACCESSIBLE AND UNOBSERVABLE DUE TO PROGRESSION OF THE NO WATER MAY BE ADDED TO THE CONCRETE MIX ON SITE. WORK. THE CONTRACTOR SHALL PROVIDE SAFE ACCESS TO THE JOB SITE AND ITEMS TO BE INSPECTED. SAFE ACCESS INCLUDES BUT IS NOT LIMITED TO LADDERS, SCAFFOLDING AND/OR J. FLY ASH MAY BE USED AT A RATE NOT TO EXCEED 25% OF THE TOTAL CEMENT CONTENT CONTRACTOR OPERATED LIFTS AS REQUIRED FOR SITE OBSERVATION. K. CHAMFER ALL EXPOSED CORNERS OF CONCRETE WALLS, BEAMS, AND COLUMNS 3/4". SPECIAL INSPECTOR SHALL PROVIDE BI-WEEKLY SPECIAL INSPECTION REPORTS AND SHALL DISTRIBUTE THESE REPORTS TO THE BUILDING OFFICIAL, OWNER, CONTRACTOR, ARCHITECT ALL CONTROL JOINTS IN CONCRETE SLABS-ON-GRADE SHALL BE CUT TO 1/4 OF THE DEPTH. CUT STRUCTURAL ENGINEER OF RECORD, AND MECHANICAL/ELECTRICAL/PLUMBING ENGINEER OF JOINTS AS SOON AS POSSIBLE AFTER CONCRETE HAS BEEN PLACED WITHOUT DISLODGING RECORD. SPECIAL INSPECTION REPORTING SHALL BE IN ACCORDANCE WITH SECTION 1704.2.4 OF AGGREGATE OR USE KEYED COLD JOINT. ALL DISCREPANCIES NOTED DURING INSPECTIONS SHALL BE BROUGHT TO THE IMMEDIATE M. THE UNIT POUR FOR SLABS SHALL NOT EXCEED 100 LINEAL FEET IN ANY ONE DIRECTION. CUT ATTENTION OF THE CONTRACTOR. IF LEFT UNCORRECTED, THESE DISCREPANCIES SHALL BE SLABS TO 1/4 THE DEPTH ON GRID LINES INTO AREAS OF ABOUT 150 SQUARE FEET. BROUGHT TO THE ATTENTION OF THE APPROPRIATE DESIGN PROFESSIONALS AND/OR BUILDING OFFICIAL. THE INSPECTOR IS NOT AUTHORIZED TO APPROVE DEVIATIONS FROM THE CONTRACT N. PRIOR TO PLACING CONCRETE IN ANY LOCATION, IT IS THE RESPONSIBILITY OF THE GENERAL DRAWINGS. CONTRACTOR TO HAVE THOROUGHLY CHECKED AND COORDINATED ALL DIMENSIONS, ELEVATIONS, OPENINGS, RECESSES, AND BLOCKOUTS SHOWN ON THE ARCHITECTURAL STRUCTURAL ENGINEER SITE OBSERVATIONS: STRUCTURAL, AND MECHANICAL DRAWINGS. IN THE EVENT ERRORS, CONFLICTS, OR OMISSIONS EXIST, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE ARCHITECT OR THE CONTRACT STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE, AND, EXCEPT ENGINEER FOR NECESSARY CORRECTIVE ACTION. WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY O. EMBEDDED ITEMS ARE TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR PRIOR TO RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, AND PLACING CONCRETE. THE ENGINEER SHALL NOT HAVE CONTROL NOR CHARGE OF, AND SHALL NOT BE RESPONSIBLE P. ANCHOR RODS SHALL BE HELD IN PLACE WITH A RIGID TEMPLATE. FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR Q. CONCRETE CURING SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF ACI 318-11 SECTION 5.11 OMISSION OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY AND STANDARD PRACTICE FOR CURING CONCRETE REPORTED BY COMMITTEE 308. OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. 11. FOUNDATIONS: PERIODIC SITE OBSERVATION BY FIELD REPRESENTATIVES OF PMA ENGINEERING IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN GENERAL A. FOUNDATIONS AND STRIP FOOTINGS ARE DESIGNED TO BEAR ON NON-EXPANSIVE SOIL CAPABLE ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION OF SUSTAINING A MINIMUM NET ALLOWABLE BEARING PRESSURE OF 2000 PSF. SHOULD NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OR QUANTITY OF THE WORK, BUT RATHER PERIODIC IN AN EFFORT TO GUARD THE OWNER AGAINST B. EXTERIOR AND BUILDING PERIMETER FOUNDATIONS AND STRIP FOOTINGS HAVE BEEN DESIGNED DEFECTS OR DEFICIENCIES IN THE WORK OF THE CONTRACTOR. TO BEAR AT OR BELOW THE LOCAL FROST DEPTH OF 36". PROVIDE FOOTING DEPTHS AS INDICATED IN THE DRAWINGS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS PRIOR TO FABRICATION. C. A SITE INVESTIGATION AND GEOTECHNICAL REPORT WAS NOT PREPARED FOR THIS SITE. THE SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND CIVIL DRAWINGS FOR OTHER PERTINENT FINISH EXCAVATION SHALL BE INSPECTED BY A REGISTERED SOILS ENGINEER TO VERIFY THE INFORMATION RELATED TO THE STRUCTURAL WORK AND COORDINATE AS REQUIRED. THESE BEARING CAPACITY. IF ADEQUATE BEARING IS NOT ENCOUNTERED AT THE SPECIFIED BEARING STRUCTURAL DRAWINGS ARE INTENDED TO BE UTILIZED AS A COMPLETE SET OF DOCUMENTS THAT ELEVATION, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER IMMEDIATELY. REPRESENT THE BUILDING'S STRUCTURAL SYSTEMS. NO SINGLE SHEET OR SERIES OF SHEETS IS INTENDED TO "STAND ALONE." THESE STRUCTURAL DRAWINGS ARE INTENDED TO BE INCLUDED IN A D. CONTRACTOR SHALL REMOVE EXISTING FOOTINGS AND FOUNDATIONS THAT ARE LOCATED COMPLETE SET OF CONSTRUCTION DOCUMENTS, INCLUDING, BUT NOT LIMITED TO: ARCHITECTURAL WITHIN THE FOOTPRINT OF THE NEW BUILDING. DRAWINGS, CIVIL DRAWINGS, AND MECHANICAL/ELECTRICAL/PLUMBING DRAWINGS. CONTRACTOR SHALL VERIFY COORDINATION OF THESE DRAWINGS WITH CONTENTS OF ABOVE DRAWING SETS SPECIFIED AND ONLY PROCEED WITH BIDDING AND CONSTRUCTION AFTER SUCH HAS TAKEN PLACE. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY UNUSUAL SOIL CONDITIONS THAT ARE IN VARIANCE WITH THE SPECIFIED BEARING CAPACITIES OR WHEN DIFFERENT BEARING MATERIAL IS DETAILS LABELED "TYP" OR "TYPICAL" ARE TO BE APPLIED AT LOCATIONS THAT ARE THE SAME OR EVIDENT AND THERE IS A QUESTION OF BEARING CAPACITY. SIMILAR TO THOSE SPECIFICALLY INDICATED. WHERE A DETAIL IS NOT INDICATED, THE DETAIL SHALL BE THE SAME AS FOR SIMILAR CONDITIONS OR AS SHOWN IN THE "TYPICAL DETAILS." CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF UNSUITABLE FILL MATERIAL OR ORGANIC MATERIAL REINFORCING STEEL: 12. SUBMITTALS: ALL REINFORCING STEEL SHALL BE ASTM A615 GRADE 60, EXCEPT WELDED REINFORCING WHICH SHALL BE ASTM A706 GRADE 60. A. ALL SHOP DRAWINGS AND SUBMITTALS MUST BE REVIEWED AND APPROVED BY THE B. ALL WELDED WIRE FABRIC SHALL BE ASTM A185 AND A82 COLD DRAWN WIRE. CONTRACTOR PRIOR TO SUBMITTAL. ENGINEER'S REVIEW OF SHOP DRAWINGS IS LIMITED TO CHECKING FOR GENERAL CONFORMANCE WITH DESIGN DRAWINGS AND STRENGTH OF C. ALL ACCESSORIES FOR SUPPORTING REINFORCING SHALL BE GALVANIZED OR HAVE COMPONENTS AND MATERIALS. CONTRACTOR IS RESPONSIBLE FOR ANY CHANGES FROM THE PLASTIC-COATED FEET. DESIGN DRAWINGS, QUANTITIES, DIMENSIONAL ERRORS, OR OMISSIONS IN THE SHOP DRAWINGS. PROVIDE CORNER BARS AT THE EXTERIOR FACE OF ALL WALL AND FOOTING CORNERS EQUAL TO B. ALL SHOP DRAWINGS MUST BE ORIGINAL DOCUMENTS AND SHALL NOT BE REPRODUCTIONS OF HORIZONTAL BARS. THESE CONTRACT DOCUMENTS. PROVIDE AT LEAST TWO VERTICAL #5 (MATCH BAR SIZE IN DRAWINGS) BARS AT ALL STEPS IN SUBMIT SHOP DRAWINGS DETAILING FABRICATION OF EACH MEMBER AND ITS CONNECTIONS. FOUNDATION WALLS, FOOTINGS, AND GRADE BEAMS. CONNECTION DRAWINGS ARE TO BE PREPARED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER. REINFORCING SHALL BE DETAILED, FABRICATED, PLACED, AND SUPPORTED IN ACCORDANCE WITH ACI 315, LATEST EDITION. D. CONTRACTOR SHALL SUBMIT STRUCTURAL SHOP DRAWINGS FOR THE FOLLOWING: G. STANDARD COVERAGE OF REINFORCING, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS: CONCRETE MIX DESIGN AND MATERIALS a. CAST AGAINST EARTH, PERMANENTLY EXPOSED TO WEATHER CONCRETE REINFORCING STEEL CONCRETE FORMWORK b. EXPOSED TO EARTH AND WEATHER (FORMED) NOT EXPOSED TO EARTH OR WEATHER: SLABS, WALLS 3/4" ALL LAP SPLICES SHALL BE CLASS B UNLESS NOTED OTHERWISE. J. FOR REINFORCING BAR LAP LENGTHS IN CONCRETE, SEE TABLE 5/S002.

STRUCTURAL GENERAL NOTES

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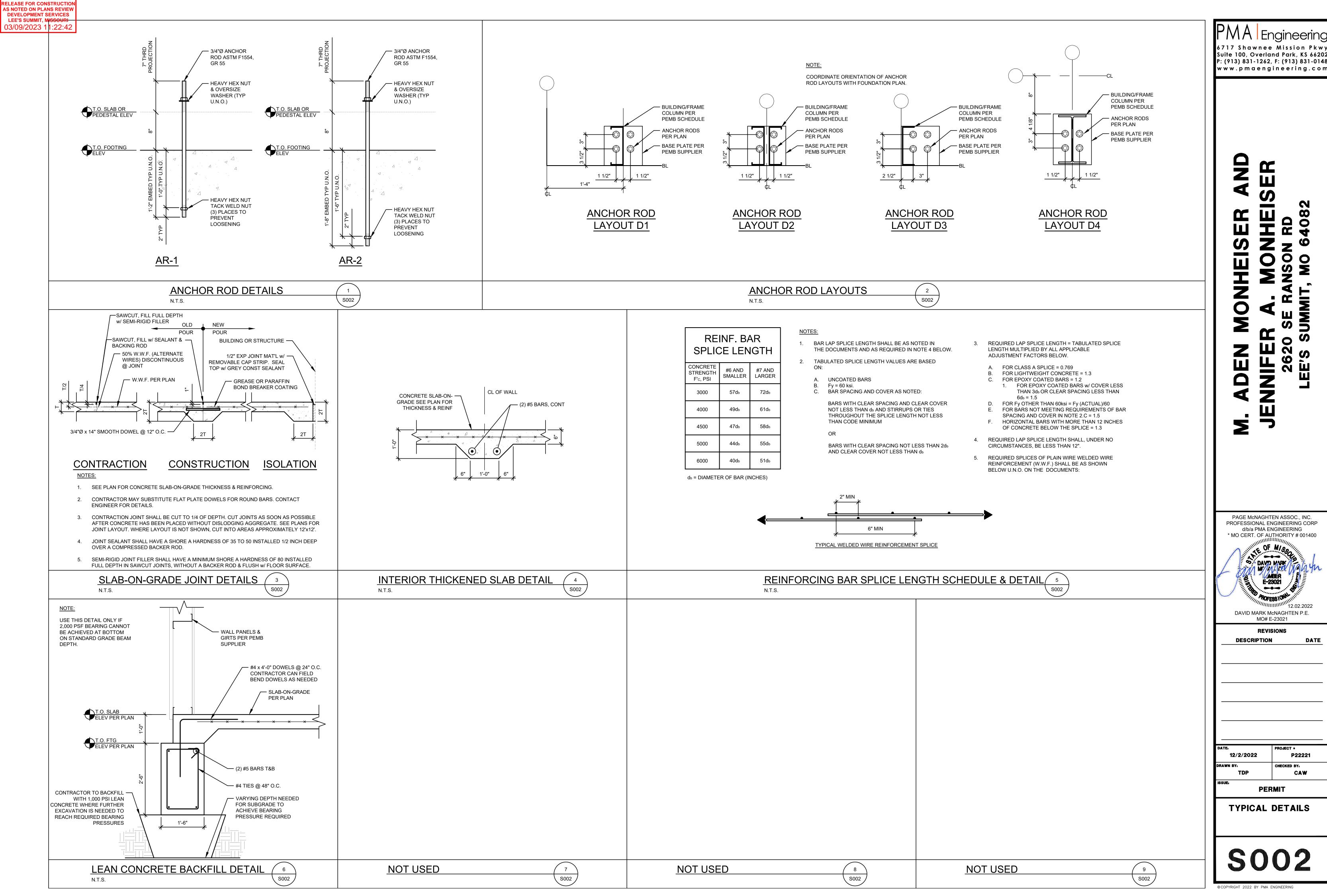
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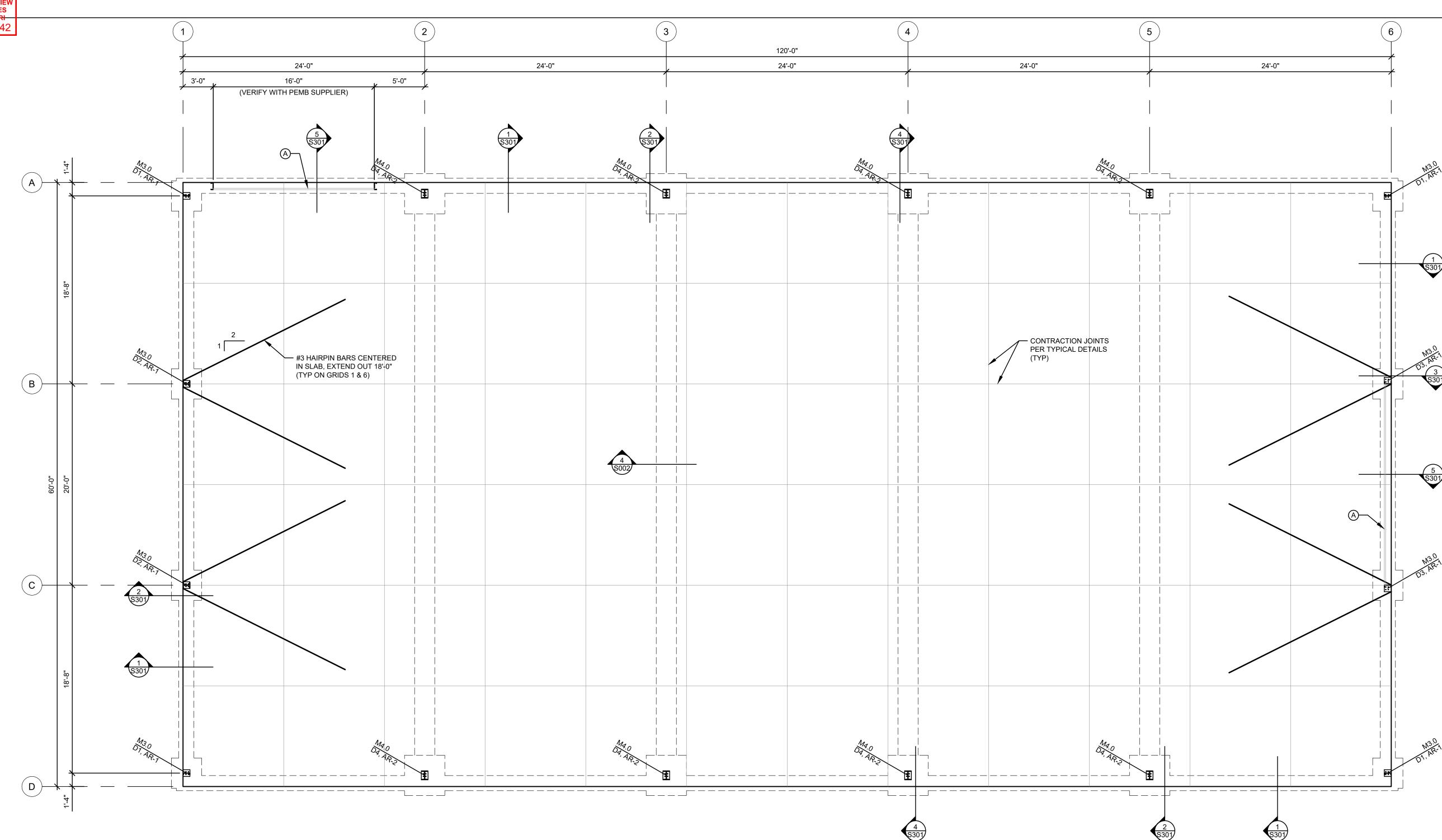
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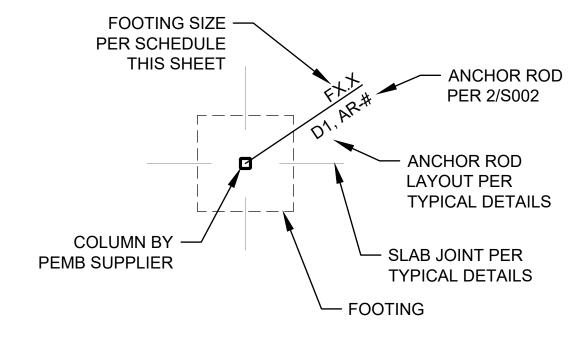
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AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/09/2023 11:22:42



FOOTING SCHEDULE - 2000 PSF SOIL BEARING				
MARK	SIZE	REINFORCING	NET LOAD CAPACITY (kips)	
M3.0	3'-0" x 3'-0" x 30"	-	18.0	
M4.0	4'-0" x 4'-0" x 30"	-	32.0	

**CONTINUE GRADE BEAM REINFORCING THROUGH ALL EXTERIOR MX.X FOOTINGS



FOOTING LEGEND

PLAN NOTES:

3/16" = 1'-0"

- 1. THE CONCRETE SLAB-ON-GRADE HAS BEEN DESIGNED FOR ITS FINAL USE AND NOT FOR CONSTRUCTION CONSIDERATIONS. CONTRACTOR SHALL COORDINATE SLAB DESIGN WITH CONSTRUCTION NEEDS. THE SLAB DESIGN INDICATED ON THESE DRAWINGS IS TO BE CONSIDERED A MINIMUM. SUBMIT CHANGES TO THE SLAB DESIGN TO THE E.O.R. FOR REVIEW.
- 6" CONCRETE SLAB-ON-GRADE w/ (1) LAYER 6x6-W4.0xW4.0 W.W.F. CENTERED IN SLAB OVER ASTM E 1745 CLASS A VAPOR BARRIER, OVER 4" GRANULAR LEVELING COURSE OVER PROPERLY PREPARED SUBGRADE. COORDINATE T.O. SLAB ELEVATION WITH ARCH / CIVIL DRAWINGS.
- PROVIDE #4 x 4'-0" SLAB DOWELS @ 24" O.C. AROUND ENTIRE BUILDING. CONTRACTOR MAY FIELD BEND DOWELS IF NEEDED.

PLAN REFERENCE NOTES:

A PROVIDE #4 DOWELS INTO EXTERIOR SLAB AT 12" O.C. AT DOORS. PROVIDE (3) DOWELS, MINIMUM. CONTRACTOR SHALL COORDINATE FINAL DOOR LOCATIONS WITH ARCHITECTURAL DRAWINGS.

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DAVID MARK McNAGHTEN P.E.
DAVID MARK MCNAGHTEN P.E.
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* MO CERT. OF AUTHORITY # 001400 OF M/SSOUPPING
d/b/a PMA ENGINEERING * MO CERT. OF AUTHORITY # 001400
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FOUNDATION PLAN

FOUNDATION PLAN 1 S101



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6717 Shawnee Mission Pkwy Suite 100, Overland Park, KS 66202 P: (913) 831-1262, F: (913) 831-0148 www.pmaengineering.com

M. ADEN MONHEISER AND
JENNIFER A. MONHEISER
2620 SE RANSON RD
LEE'S SUMMIT, MO 64082

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OF M/S

DAVY MARK
E-23021

T2.02.2022

DAVID MARK McNAGHTEN P.E.
MO# E-23021

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FOUNDATION SECTIONS

S301

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