

1. GENERAL NOTES:

- CODES AND SPECIFICATIONS
 - GENERAL BUILDING CODE: INTERNATIONAL BUILDING CODE, 2015 EDITION
 - CONCRETE: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-08).
- THE GENERAL NOTES ARE NOT A SUBSTITUTE OR A REPLACEMENT FOR THE PROJECT SPECIFICATIONS. THESE NOTES ARE INTENDED AS A GUIDE TO THE DESIGN AND/OR CONSTRUCTION REQUIREMENTS ESTABLISHED FOR THIS PROJECT. NO CONTRACTOR SHOULD ATTEMPT TO DESIGN, BID, OR CONSTRUCT ANY PORTION OF THE WORK HEREIN WITHOUT CONSULTING THE PROJECT SPECIFICATIONS. THE MORE STRINGENT REQUIREMENT SHALL APPLY WHERE CONFLICTS OCCUR BETWEEN THESE NOTES AND THE SPECIFICATIONS, UNLESS A WRITTEN CLARIFICATION IS ISSUED BY THE STRUCTURAL ENGINEER.
- STRUCTURAL DRAWINGS ARE INTENDED TO BE USED IN CONJUNCTION WITH THE DRAWINGS OF OTHER CONSULTANTS AND TRADES. THE CONTRACTOR SHALL COORDINATE THE VARIOUS REQUIREMENTS.
- DO NOT SCALE THESE DRAWINGS.
- ALL DETAILS SHOWN ARE TYPICAL. SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS, UNLESS NOTED.
- CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO FABRICATION/CONSTRUCTION. THE STRUCTURAL ENGINEER AND ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO FABRICATION/CONSTRUCTION.
- FIREPROOFING OF STRUCTURAL ELEMENTS IS NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO THE DRAWINGS OF OTHER CONSULTANTS FOR SUCH INFORMATION.

2. SPECIAL INSPECTIONS:

- SPECIAL INSPECTOR (SI) SHALL BE RETAINED AND PAID BY THE OWNER.
- THE SPECIAL INSPECTOR SHALL BE FULLY QUALIFIED, APPROVED BY THE BUILDING OFFICIAL, REGISTERED BY APPLICABLE REGISTRATION BOARD IF REQUIRED AND ACCEPTABLE TO THE ARCHITECT.
- THE DUTIES OF THE SPECIAL INSPECTOR SHALL INCLUDE, BUT ARE NOT LIMITED TO, VERIFICATION OF CONSTRUCTION QUALITY CONTROL, TESTING, COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS, BUILDING CODE REQUIREMENTS, AND LOCAL BUILDING DEPARTMENT REQUIREMENTS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE PROPER NOTIFICATION TO THE SPECIAL INSPECTOR AND PROCEED WITH THE CONSTRUCTION ONLY AFTER THE SPECIAL INSPECTOR'S REVIEW AND APPROVAL.
- SPECIAL INSPECTOR'S SHALL KEEP RECORDS OF ALL INSPECTIONS AND TESTING. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE CODE OFFICIAL, AND TO THE REGISTERED DESIGN PROFESSIONAL OF RECORD. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CODE OFFICIAL AND THE DESIGN PROFESSIONAL OF RECORD. A FINAL REPORT OF INSPECTIONS DOCUMENTING COMPLETION OF ALL REQUIRED SPECIAL INSPECTION AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY. INTERIM REPORTS SHALL BE SUBMITTED PERIODICALLY WITH MINIMUM FREQUENCY OF TWO WEEKS.
- SPECIAL INSPECTIONS ARE REQUIRED FOR, BUT NOT LIMITED TO, THE ACTIVITIES AS INDICATED ON SHEET S1.02 PER THE 2015 INTERNATIONAL BUILDING CODE.
- FAILURE TO NOTIFY THE SPECIAL INSPECTOR MAY RESULT IN THE CONTRACTOR HAVING TO REMOVE WORK FOR THE PURPOSE OF INSPECTION AT THE CONTRACTOR'S EXPENSE.
- PREMATURE NOTIFICATION FOR INSPECTIONS WILL RESULT IN AN ADDITIONAL INSPECTION WITH THE EXPENSES AND FEES PAID BY THE CONTRACTOR.

3. CONSTRUCTION AND SAFETY:

- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL SAFETY REGULATIONS, PROGRAMS, AND PRECAUTIONS TO ALL WORK, PERSONS, AND PROPERTY ON AND/OR ADJACENT TO THE PROJECT AND SHALL PROTECT AGAINST ANY DAMAGE, INJURY, OR LOSS.
- MEANS AND METHODS OF CONSTRUCTION AND ERECTION OF STRUCTURAL MATERIALS ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY.
- THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED ON THE STRUCTURE. SUCH LOADS SHALL NOT EXCEED THE DESIGN LOAD OF THE STRUCTURE AT ANY TIME.
- THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION, AND ANY TEMPORARY BRACING OR SUPPORT REQUIRED TO ACCOMMODATE THE CONTRACTOR'S MEANS AND METHODS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

4. SUBMITTALS:

- ALL SHOP DRAWINGS MUST BE REVIEWED FOR "APPROVAL" AND STAMPED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL.
- SUBMIT EACH SET OF SHOP DRAWINGS ON THREE PRINTS ONLY. ONE PRINT WILL BE RETURNED TO THE CONTRACTOR. ALL PRINTS REQUIRED BY THE CONTRACTOR ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHOULD BE MADE AFTER APPROVED SHOP DRAWINGS ARE RETURNED. ALL ADDITIONAL PRINTS THAT ARE SUBMITTED WILL BE RETURNED UNMARKED.
- THE GENERAL CONTRACTOR SHALL SUBMIT FOR ENGINEER REVIEW SHOP DRAWINGS FOR THE FOLLOWING ITEMS. ITEMS MARKED (*) SHALL HAVE SHOP DRAWINGS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED. ITEMS MARKED (R) SHALL BE SUBMITTED FOR ENGINEER'S REVIEW ONLY.
 - REINFORCING STEEL
 - CONCRETE MIX DESIGNS
 - PRE-ENGINEERED METAL BUILDING

5. DESIGN LOADS:

- DEAD LOADS:
 ANY CHANGES IN CONSTRUCTION MATERIALS FROM THOSE SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS SHALL BE REPORTED BY THE GENERAL CONTRACTOR TO THE STRUCTURAL ENGINEER FOR VERIFICATION OF LOAD-CARRYING CAPACITY OF THE STRUCTURE.
- LIVE LOADS (PSF)
 LIVE LOAD REDUCTIONS HAVE BEEN APPLIED TO THE STRUCTURAL MEMBERS IN ACCORDANCE WITH THE BUILDING CODE.
- SNOW LOAD:
 ROOF-----20
 A. GROUND SNOW LOAD (Pg.)-----10 PSF
 B. IMPORTANCE FACTOR (I)-----1.0
 C. EXPOSURE FACTOR (Ce)-----1.0
 D. THERMAL FACTOR (Ct)-----1.0
- WIND LOADS:
 A. BASIC WIND SPEED (3-SECOND GUST)-----120 MPH
 B. WIND IMPORTANCE FACTOR (Iw)-----1.0
 C. WIND EXPOSURE-----C
 D. INTERNAL PRESSURE COEFFICIENT-----+/- 0.18
- SEISMIC LOADS:
 A. SEISMIC IMPORTANCE FACTOR (Ie)-----1.00
 B. MAPPED SPECTRAL RESPONSE ACCELERATIONS:
 Ss-----0.167
 S1-----0.091
 C. SITE CLASS-----D
 D. SPECTRAL RESPONSE COEFFICIENTS:
 Sds-----0.178
 Sd1-----0.146
 E. SEISMIC DESIGN CATEGORY-----C
 F. SEISMIC RESISTING SYSTEM-----BY PEMB

6. FOUNDATION NOTES:

- A GEOTECHNICAL ENGINEER, EMPLOYED BY THE OWNER, SHALL PROVIDE COMPACTED FILL REQUIREMENTS FOR THE BUILDING PAD AND REVIEW THE FOUNDATION BEARING SURFACE TO VERIFY THE ASSUMED BEARING PRESSURE. NOTED: DO NOT PLACE CONCRETE PRIOR TO GEOTECHNICAL ENGINEER'S APPROVAL.
- ASSUMED MAXIMUM BEARING PRESSURES-----2000 PSF
- ALL FOUNDATION BEARING SURFACES SHALL BE REVIEWED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE TO INSURE THEIR COMPLIANCE WITH PRESSURES NOTED. ALL BOTTOM ELEVATIONS ARE ESTIMATED AND MAY BE ADJUSTED IN THE FIELD BY THE GEOTECHNICAL ENGINEER.
- ALL AREAS TO HAVE SLABS ON GRADE SHALL BE PROOF ROLLED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT UNDER OBSERVATION OF THE GEOTECHNICAL ENGINEER AND APPROVED PRIOR TO PREPARATION FOR CONCRETE PLACEMENT.
- COMPACTED FILL WITHIN THE BUILDING AREA SHALL MEET THE REQUIREMENTS NOTED IN THE GEOTECHNICAL REPORT.

7. CONCRETE NOTES:

- CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS: 3000 PSI --- NORMAL WT. --- FOOTINGS AND SLAB ON GRADE.
- PEDESTAL, COLUMN AND WALL VERTICAL REINFORCING: BOWL TO FOUNDATION WITH HOOKED BARS OF SAME SIZE AND SPACING AS VERTICAL REINFORCING.
- EARTH SUPPORTED SLABS: 6" THICK, REINFORCED WITH 6X6 W2.9/W2.9 WF AT TOP THIRD OF SLAB, UNLESS NOTED. PROVIDE 4" OF COMPACTED GRANULAR MATERIAL SUCH AS CRUSHED STONE, GRAVEL, OR CLEAN SAND AS SPECIFIED IN THE GEOTECHNICAL REPORT.
- CONCRETING OPERATIONS SHALL COMPLY WITH ACI STANDARDS.

B. CONCRETE REINFORCING STEEL NOTES:

- REINFORCING BARS: ASTM A615 GRADE 60.
- WELDED WIRE FABRIC (WVF): ASTM A185. MINIMUM LAP AND EMBEDMENT TO BE THE GREATER OF ONE CROSS WIRE SPACING PLUS 2 INCHES OR 6 INCHES.
- REINFORCING STEEL SHOWN IN SECTIONS IS A SCHEMATIC INDICATING THAT REINFORCING EXISTS. SEE SCHEDULES, SECTION NOTES AND GENERAL NOTES FOR ACTUAL REINFORCING REQUIRED.
- REINFORCING BAR PLACING ACCESSORIES IN ACCORDANCE WITH ACI MATERIAL OF STANDARD PRACTICE WHERE CONCRETE IS EXPOSED TO FINISHED BUILDING. PROVIDE ACCESSORIES WITH RUSTPROOF LEGS.
- DETAIL REINFORCEMENT IN ACCORDANCE WITH ACI 318. REINFORCEMENT SHALL NOT BE WELDED UNLESS NOTED OR APPROVED BY THE ENGINEER.
- ALL SPLICES SHALL BE CLASS "B" TENSION LAP SPLICE, UNLESS NOTED.
- ALL REINFORCING WELDED "S" SPLICES SHALL BE SPLICED WITH CLASS "B" TENSION LAP SPLICE, UNLESS NOTED.
- PROVIDE WELDER BARS WITH CLASS "B" LAP SPLICE AT ALL FOUNDATION INTERSECTIONS AND CORNERS.
- CONCRETE COVERAGE OF REINFORCEMENT:
 FOOTINGS-----3" BOTTOM & SIDES, 2" TOP
 EXPOSED TO WEATHER-----1" BOTTOM & TOP
- FIELD BENDING OF CONCRETE REINFORCING STEEL IS NOT PERMITTED WITHOUT WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.

9. PREFABRICATED METAL BUILDING NOTES:

- METAL BUILDING MANUFACTURER SHALL BE A MEMBER OF METAL BUILDING MANUFACTURERS ASSOCIATION (MBMA) AND BE ACCREDITED BY INTERNATIONAL ACCREDITATION SERVICES (IAS). METAL BUILDING MANUFACTURER SHALL PROVIDE IAS ACCREDITATION DOCUMENTATION TO THE ARCHITECT.
- METAL BUILDING SHALL BE DESIGNED IN ACCORDANCE WITH "THE METAL BUILDING MANUFACTURERS ASSOCIATION'S DESIGN PRACTICES MANUAL."
- HEADED ANCHOR ROD SIZE, TOTAL LENGTH, AND LOCATION BY METAL BUILDING SUPPLIER. SEE SHEET S1.03 FOR ANCHOR ROD EMBEDMENT LENGTH. HEADED ANCHOR RODS SHALL BE PURCHASED AND INSTALLED BY THE CONTRACTOR. ANCHOR ROD INSTALLATION TOLERANCES, HOLE SIZES IN BASE PLATES, AND PLATE WASHERS TO BE COORDINATED BETWEEN METAL BUILDING SUPPLIER AND CONTRACTOR INSTALLING ANCHOR RODS.
- BEFORE FOOTING INSTALLATION, THE HEADED ANCHOR RODS EMBEDMENT LENGTHS MUST BE VERIFIED. THE FOOTING DEPTH SHALL BE THE SCHEDULED DEPTH OR THE HEADED ANCHOR ROD EMBEDMENT LENGTH PLUS 3 INCHES, WHICHEVER IS GREATER.
- HORIZONTAL FORCE TRANSFER FROM METAL BUILDING COLUMN BASE TO CONCRETE IS THE RESPONSIBILITY OF THE METAL BUILDING SUPPLIER.
- METAL BUILDING SUPPLIER TO VERIFY COLUMN LAYOUT. ANY CHANGES MUST BE SUBMITTED FOR REVIEW OF FOUNDATION DESIGN BEFORE CONSTRUCTION STARTS.
- GRAVITY DESIGN LOADS:
 A. LIVE LOAD: 20 PSF (REDUCIBLE AT RIGID FRAME RAFTERS AND COLUMNS ONLY)
 B. DEAD LOAD: WEIGHT OF STRUCTURE
 C. COLLATERAL LOAD: 5 PSF (DOES NOT INCLUDE ITEMS SUCH AS MECHANICAL SYSTEMS, ELECTRICAL SYSTEMS, CEILING, DUCTS, KITCHEN HOODS, OPERABLE WALLS, BASKETBALL GOALS, ETC.)
- DEFLECTION LIMITS FOR MEMBERS:
 A. ROOF PURLINS AND RAFTERS:
 1. DL SPAN/360
 2. LL SPAN/360
 3. TL SPAN/240
 B. GIRTS:
 1. SUPPORTING METAL PANELS
 A. HORIZONTAL DEFLECTION: SPAN/120
 2. SUPPORTING MASONRY
 A. HORIZONTAL DEFLECTION: SPAN/240 - BUT NOT GREATER THAN 1-1/2"
 C. OVERALL BUILDING DRIFT:
 1. FOR BUILDINGS WITHOUT SENSITIVE INTERIOR FINISHES AND WITHOUT RIGIDLY ATTACHED SENSITIVE MECHANICAL SYSTEMS: H/400
 2. H IS THE BUILDING EAVE HEIGHT.
 D. DEFLECTION AND DRIFT LIMITS ARE TO BE COMPARED WITH 15 YEAR WIND OCCURRENCE.
 E. DEFLECTION AND DRIFT DUE TO SEISMIC LOADS SHALL BE LIMITED IN ACCORDANCE WITH THE BUILDING CODE.
- ROOF PURLINS MUST BE CAPABLE OF RESISTING WIND PRESSURES (IN OR OUT) ASSUMING INTERIOR FLANGE UNBRACED EXCEPT FOR FLANGE BRACING IS PROVIDED.
- THE METAL BUILDING MANUFACTURER SHALL BE RESPONSIBLE FOR COMPLETE DESIGN OF THE METAL BUILDING STRUCTURAL FRAMING INCLUDING LAYERS DOWN TO THE FOUNDATION. THE DESIGN SHALL BE PERFORMED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
- BEFORE INSTALLATION OF FOUNDATION, METAL BUILDING SUPPLIER SHALL SUBMIT DESIGN LOADS AND COLUMN REACTIONS TO THE STRUCTURAL ENGINEER AND ARCHITECT FOR REVIEW. THE COLUMN FOUNDATION DESIGN HAS BEEN BASED ON REACTIONS INDICATED IN THE TABLE ON SHEET S1.03.
- METAL BUILDING DESIGN CALCULATION COVER SHEET AND ALL METAL BUILDING SHOP DRAWINGS AND ERECTION DRAWINGS SHALL BE SEALED AND SIGNED BY THE MANUFACTURER'S PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
- ALL CONNECTIONS OF THE STRUCTURAL STEEL MEMBERS TO THE METAL BUILDING SHALL BE DESIGNED BY THE METAL BUILDING SUPPLIER TO RESIST THE FORCES INDICATED ON THE DRAWINGS. CALCULATIONS FOR THESE CONNECTIONS STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
- ALL COLUMNS SHALL BE ANALYZED AND DESIGNED AS HAVING PINNED BASES.
- EXCEPT AS OTHERWISE APPROVED BY ARCHITECT, STRUCTURAL CLEARANCES SHALL BE MAINTAINED AS INDICATED IN THE CONSTRUCTION DOCUMENTS.
- STANDING SEAM STEEL DECK SHALL NOT BE CONSIDERED AS PROVIDING DIAPHRAGM RESISTANCE FOR LATERAL WIND LOADS.
- METAL BUILDING ENGINEER SHALL VISIT THE JOB SITE AT LEAST ONCE EVERY TWO WEEKS DURING ERECTION TO OBSERVE INSTALLATION OF METAL BUILDING FRAMING AND ISSUE REPORTS TO STRUCTURAL ENGINEER AND ARCHITECT.
- ALL DEVIATIONS FOR THE CONSTRUCTION DOCUMENTS ARE SUBJECT TO APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER. ALL DEVIATIONS SHALL BE EXPRESSLY LISTED AND DEFINED IN THE SHOP DRAWING SUBMITTAL. ARCHITECT AND STRUCTURAL ENGINEER ARE NOT RESPONSIBLE FOR DISCOVERY OF DEVIATIONS NOT LISTED, AND APPROVAL OF UNLISTED DEVIATIONS SHALL NOT BE IMPLIED.
- COORDINATE ROOF DESIGN WITH ROOF TOP MECHANICAL UNITS. SEE ARCH AND MECHANICAL DRAWINGS FOR UNIT LOCATION AND WEIGHTS.

Order Plans

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ISSUE DATE	CONSTRUCTION DOCUMENTS
4/17/17	REV 1
4/17/17	REV 2
4/17/17	REV 3
4/17/17	REV 4
4/17/17	REV 5
4/17/17	REV 6
4/17/17	REV 7
4/17/17	REV 8
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4/17/17	REV 50

BATTING CAGES FOR LEEDS CITY SCHOOLS
 LEEDS BOARD OF EDUCATION
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 GENERAL NOTES
 S1.01
 Sheet

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