

A. DESIGN

- STRUCTURAL DESIGN CONFORMS TO THE 2018 INTERNATIONAL BUILDING CODE) AS ADOPTED BY THE CITY OF LEES SUMMIT, MISSOURI
- DESIGN LOADS:
 - FLOOR LOADS:
 - GROUND SNOW LOAD =20 PSF
 - LIVE LOADS =10 PSF (AT VERTICAL SURFACES)
 - DEAD LOADS =85 PSF
 - COLLATERAL LOAD =3 PSF
 - WIND LOADS
 - PER ASCE7-16 AND IBC 2018 =115 MPH
 - SEISMIC LOAD (EQUIVALENT LATERAL FORCE)
 - SEISMIC USE GROUP = III
 - SPECTRAL RESPONSE: =20%g, SD1 =6%g
 - SOIL SITE CLASS = "D"
 - LATERAL SYSTEM = OTHER (R=3.0)
- FOUNDATIONS ARE SPREAD FOOTINGS DESIGNED FOR AN ALLOWABLE BEARING OF 1500 PSF.
- COMPACTION TEST WILL SHALL BE TAKEN PRIOR TO PLACEMENT OF FOOTINGS AND SLAB.

B. EARTHWORK

- COMPACT FILL OF LOW PLASTICITY IN 8" LAYERS, TO NOT LESS THAN 95% NOR MORE THAN 100 PERCENT OF STANDARD PROCTOR DENSITY AT A MOISTURE CONTENT WITHIN 1 TO +3% OF OPTIMUM MOISTURE.

C. CONCRETE

- ALL CONCRETE SHALL MEET THE FOLLOWING REQUIREMENTS:
 - f_c = 4000 PSI (28 DAY COMPRESSIVE STRENGTH)
 - MAX. SLUMP = 5" +/- 1"
 - MAX. WATER/CEMENT RATIO = 0.50
 - AIR ENTRAINMENT = 6% +/- 1%
- REINFORCING STEEL SHALL BE ACCORDANCE WITH ASTM A-615 SPECIFICATIONS AND SHALL BE GRADE 60.
- ALL CONTINUOUS REINFORCING IN FOUNDATIONS SHALL BE LAP SPLICED 48 BAR DIAMETERS MINIMUM.
- SLABS ON GRADE SHALL BE REINFORCED AS SHOWN ON THE DRAWINGS. PLACE ON 6" OF CLEAN GRANULAR FILL AND 10MIL VAPOR BARRIER. THICKNESS AS INDICATED ON THE PLANS.
- REINFORCING SHALL BE PLACED USING METAL CHAIRS OR CONCRETE BLOCKS @5'-0" O.C.. CLAY BRICKS ARE NOT ALLOWED.
- CONCRETE COVER OVER MAIN REINFORCING SHALL BE AS SHOWN ON THE PLANS. WHERE NOT SHOWN, COVER AS REQ'D BY ACI 318-02 SECTION 7.7.
- WHERE NOT SPECIFICALLY CALLED OUT, REINFORCEMENT SHOULD MATCH SIMILAR CONDITIONS. ALL CONCRETE IS TO BE FULLY REINFORCED PER ACI SPECIFICATIONS.
- ALL SAW CONTROL JOINTS ARE TO BE CUT AS SOON AS POSSIBLE AFTER THE FLOOR SLAB IS PLACED, SUCH THAT NO SURFACE DEFECTS ARE MADE FROM FLOOR TRAFFIC. ALL CONCRETE FLOORS ARE TO BE WET CURED FOR 72 HOURS IMMEDIATELY AFTER PLACEMENTS, AS PER THE RECOMMENDATIONS OF ACI 302, UNLESS OTHERWISE NOTED.

D. STEEL

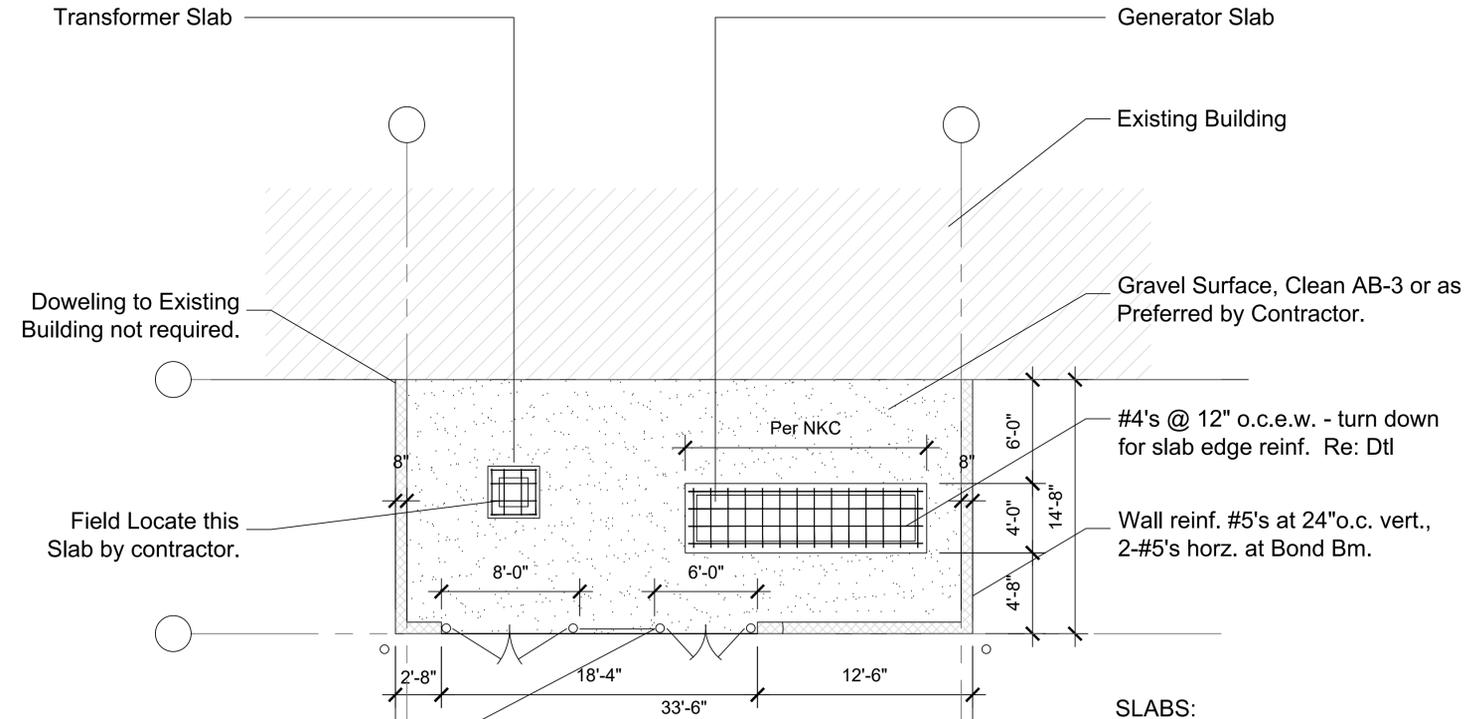
- METAL USED SHALL BE FY=36 KSI, AND EXPOSED PLATE.
- A325N FOR CONNECTION BOLTS, A36 FOR ANCHOR BOLTS.
- A307 THREADED ROD FOR ALL WALL PENETRATIONS

E. WOOD

- LVL'S SHALL HAVE DESIGNED TO RESIST MOISTURE AND OTHER AFFECTS OF WEATHERING. PAINTING OR OTHER MEANS OF WEATHER PROTECTION BY OTHERS
- DESIGN BENDING STRESS OF ALL WOOD MATERIALS SHALL BE F'b= 1,800 PSI OR BETTER
- WOOD DECKING SHALL BE SOUTHERN PINE, TREATED, AND ATTACHED WITH A MINIMUM OF 2-3/8" X8" LAG SCREWS, RECESSED INTO DECKING FOR A SMOOTH SURFACE FINISH. SURFACE PROTECTION FROM THE ELEMENTS BY OTHERS.

E. GENERAL

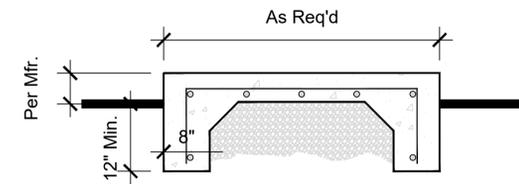
- SEE ARCHITECTURAL FOR ITEMS NOT SHOWN HEREIN. VERIFY THE SIZE AND LOCATIONS OF ALL ELEMENTS.
- CONTRACTOR MUST NOTIFY THE ENGINEER OF ANY CONDITIONS THAT ARE NOT AS SHOWN IN THE DRAWINGS OR SPECIFICATIONS. 500 LBS OR CONCRETE REINFORCEMENT SHALL BE ALLOCATED TO THE ENGINEER OF RECORD FOR PLACEMENT IF REQUIRED.
- PROVIDE ADEQUATE SHORING DURING CONSTRUCTION TO RESIST FORCES SUCH AS WIND AND UNBALANCED LOADS DUE TO CONSTRUCTION.
- REVIEWER REQUIRES TWO (2) WEEKS OR 10 BUSINESS DAYS FOR REVIEW OF ALL SHOP DRAWINGS. DRAWING REVIEW IS FOR CONFORMITY TO CONCEPT AND NOT A DETAILED REVIEW FOR ACCURACY.



Exist'g Chain Link Gates and Fences to Remain.

General Placement of the Generator Compound by Contractor.

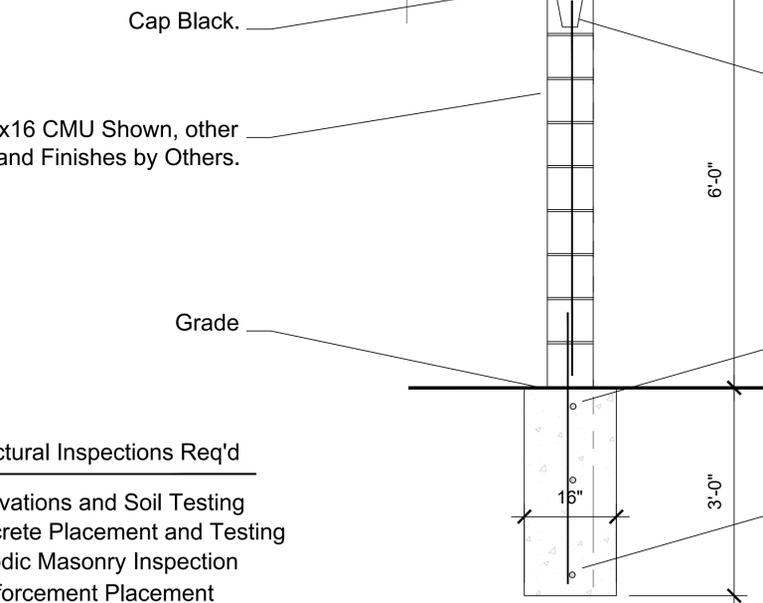
SLABS:
Slabs shall be a min. of 5" thick. All concrete shall be air entrained with f'c=4,000 psf in 28 days. Top of slab shall be as required by Generator Recommendation.



Typ. Slab Section
Wall reinf. #5's at 24"o.c. vert., 2-#5's horz. at Bond Bm.

Ftg reinf. 3- #5's Horz. with #5's - 5' Vert. Dowels @ 24"o.c., 2-#5's Lap 12" min. Mortar f'c=1,400 typ S, Grout reinf'd cells

All Ftg's Trenched with min. brg. 2,000 psf.



- Special Structural Inspections Req'd**
- Excavations and Soil Testing
 - Concrete Placement and Testing
 - Periodic Masonry Inspection
 - Reinforcement Placement

LORAC Design Group,
Structural Engineers, LLC
Missouri Cert. of Authority: E-2005032846-D
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Lee's Summit, Missouri
P.816.529-4019

NEW GENERATOR COMPOUND
Home Depot Store, 651 SE Oldham Rd. - Rear Lot
Lee's Summit, Missouri 64081



Joseph A. Towns, PE, SE, RA
Missouri Lic. E-22017

REVISIONS

DATE: 05.1.23

SHEET NO.

S-1.01