

GENERAL NOTES

- THESE STRUCTURAL DRAWINGS HAVE BEEN PREPARED IN ACCORDANCE WITH THE 2018 NC STATE BUILDING CODE
- ROOF DESIGN LOADS
DEAD LOADS: DESIGN LIVE LOADS
ROOF: 20 PSF ROOF (BASIC) 20 PSF
GROUND SNOW LOAD: 10 PSF
Is 1.0
Ce 0.7
Ct 1.0
- FIRST FLOOR: 50 PSF
SECOND FLOOR OFFICE: 45 PSF
SECOND FLOOR CORRIDOR: 15 PSF
SECOND FLOOR DECK: 20 PSF
STAIRS: 20 PSF
- FIRST FLOOR: 100 PSF
SECOND FLOOR OFFICE: 50 PSF
SECOND FLOOR CORRIDOR: 80 PSF
SECOND FLOOR DECK: 75 PSF
STAIRS: 100 PSF
- RISK CATEGORY 2
EXPOSURE B
IMPORTANCE FACTOR: 1.0
INTERNAL PRESSURE: +/- 0.18
WIND BASE SHEAR: 15 K
16 K
- RISK CATEGORY 2
SEISMIC IMPORTANCE FACTOR: 1.0
MAPPEL SPECTRAL RESPONSE ACCELERATIONS: Ss = 0.240
S1 = 0.103
- SITE CLASS: S1
SPECTRAL RESPONSE COEFFICIENTS: Sds = 0.256
S1 = 0.164
- SEISMIC DESIGN CATEGORY: C
BASIC SEISMIC FORCE RESISTING SYSTEM: PLYWOOD SHEARWALLS
DESIGN BASE SHEAR: 12 K
SEISMIC RESPONSE COEFFICIENT Cs: 0.039
RESPONSE MODIFICATION FACTOR R: 6.5
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE
- THE GENERAL CONTRACTOR SHALL COMPARE THE ARCHITECTURAL AND STRUCTURAL DRAWINGS AND REPORT ANY DISCREPANCY BETWEEN AND WITHIN EACH SET OF DRAWINGS TO THE PROJECT ARCHITECT AND ENGINEER PRIOR TO THE FABRICATION AND INSTALLATION OF ANY STRUCTURAL MEMBERS.
- WHERE STRUCTURAL MEMBERS OR CONNECTION DETAILS ARE INDICATED AT ONE CONDITION THEY SHALL APPLY AT ALL SIMILAR CONDITIONS.
- THE STRUCTURAL MEMBERS OF THIS PROJECT HAVE BEEN DESIGNED BY THE STRUCTURAL ENGINEER TO RESIST THE REQUIRED CODE VERTICAL AND LATERAL FORCES THAT COULD OCCUR IN THE FINAL COMPLETED STRUCTURE ONLY. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL REQUIRED BRACING DURING CONSTRUCTION TO MAINTAIN THE STABILITY AND SAFETY OF ALL STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PROCESS UNTIL THE STRUCTURE IS TIED TOGETHER AND COMPLETED.
- SOIL BEARING CAPACITY SHALL BE 2000 PSF MINIMUM VERIFIED AT TIME OF CONSTRUCTION BY A GEOTECHNICAL ENGINEER.
- CONCRETE FOR FOUNDATIONS SHALL BE NORMAL WEIGHT 3,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS
CONCRETE FOR SLABS ON GRADE SHALL BE NORMAL WEIGHT 4,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
MAXIMUM SLUMP SHALL BE 4"
ALL CONCRETE EXPOSED TO WEATHER SHALL BE AIR ENTRAINED.
CONCRETE WORK SHALL CONFORM TO ACI 318 (REINF. CONCRETE) AND/OR 318.1 (PLAIN CONCRETE)
- REINFORCING BARS SHALL CONFORM WITH ASTM A 615. ALL BARS SHALL BE GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 82 AND ASTM A 185. REBAR SUPPORT DEVICES SHALL CONFORM TO THE CRSI MANUAL OF STANDARD PRACTICE. PROVIDE CORNER BARS FOR ALL CONTINUOUS BARS AT BUILDING CORNERS LAP 50 BAR DIA. EACH END. LAP CONTINUOUS BARS 50 BAR DIAMETERS. LAP WELDED WIRE FABRIC ONE SQUARE + 2' AT ALL SHEET EDGES
- ANCHOR BOLTS SHALL BE ASTM F 1554 GRADE 36 ROD THREADED HOT DIPPED GALVANIZED.
- LAP CONTINUOUS REINFORCING BARS 50 BAR DIAMETERS UNLESS NOTED OTHERWISE. PROVIDE CORNER BARS IN ALL WALLS AND FOOTINGS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM-A 552 OR A992 GRADE 50, UNLESS NOTED OTHERWISE. ALL OTHER STEEL AND MISCELLANEOUS STEEL SHALL CONFORM TO ASTM-A36. STRUCTURAL TUBE COLUMNS SHALL CONFORM TO ASTM A-500, GRADE B, AND STRUCTURAL PIPE COLUMNS SHALL CONFORM TO ASTM A-501 OR ASTM A-53, TYPES E OR S, GRADE 50. DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE AISC CODE AND DETAILING MANUAL. NO STRUCTURAL MEMBERS SHALL BE SPICED EXCEPT AS SHOWN ON APPROVED SHOP DRAWINGS. ALL SHOP AND FIELD WELDING SHALL BE BY A CERTIFIED WELDER AND SHALL CONFORM TO AWS STANDARDS.
- ALL WOOD FRAMING AND CONNECTIONS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE.
- TIMBER SHALL BE VISUALLY GRADED DIMENSIONED LUMBER CONFORMING TO THE GRADING RULES OF THE APPLICABLE AGENCY.
STRUCTURAL MEMBER: LUMBER GRADE
WALL STUDS: STUD GRADE SPF
BEAMS: NO. 2 SOUTHERN PINE
LAMINATED VENEER LUMBER (LVL): MICRO LAM 2.0E AS MANUFACTURED BY WEYERHAEUSER
TIMBERSTRAND STUDS (LSL): TIMBERSTRAND 1.5E AS MANUFACTURED BY WEYERHAEUSER
TJI JOISTS: TRUS JOIST TJI 360 AS MANUFACTURED BY WEYERHAEUSER
- ALL LUMBER IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.
- WALL STUDS SHALL BE 2x6 @ 16" O.C. EXCEPT AS INDICATED OTHERWISE.
- ALL FASTENERS INCLUDING ANCHOR BOLTS, WASHERS, SIMPSON CONNECTORS, BOLTS AND NAILS SHALL BE HOT DIPPED GALVANIZED. ALL NAIL SIZES AND QUANTITIES INDICATED ARE FOR COMMON NAILS.
- ALL SIMPSON CONNECTORS SHALL BE INSTALLED WITH TOTAL NUMBER AND SIZE OF FASTENERS TO DEVELOP FULL CAPACITY OF CONNECTOR IN ACCORDANCE WITH SIMPSON'S INSTALLATION INSTRUCTIONS.
- PREFABRICATED WOOD TRUSSES CONNECTED WITH LIGHT GAGE METALS PLATES SHALL BE DESIGNED AND FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE TRUSS PLATE INSTITUTE. SHOP DRAWINGS SHALL BE SUBMITTED AND SHALL INCLUDE AN ERECTION PLAN AND CALCULATIONS FOR EACH TRUSS DESIGN AND SHALL INDICATE THE DESIGN LOADS, SPACING, AND LATERAL BRACING REQUIREMENTS. THE SHOP DRAWINGS SHALL BE SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NORTH CAROLINA.

ROOF TRUSS	TOP CHORD DEAD LOAD	10 PSF
	TOP CHORD LIVE LOAD	20
	BOTTOM CHORD DEAD LOAD	10
	TOTAL LOAD	40 PSF
SEE PLAN FOR MECHANICAL ROOF TOP EQUIPMENT LOADING - VERIFY WITH FINAL EQUIPMENT TO BE INSTALLED		
WIND LOAD: ASCE7-10		
SNOW DRIFT LOAD: ASCE7-10		
FLOOR TRUSS	TOP CHORD DEAD LOAD	35 PSF
	TOP CHORD LIVE LOAD	50
	BOTTOM CHORD DEAD LOAD	10
	TOTAL LOAD	95 PSF

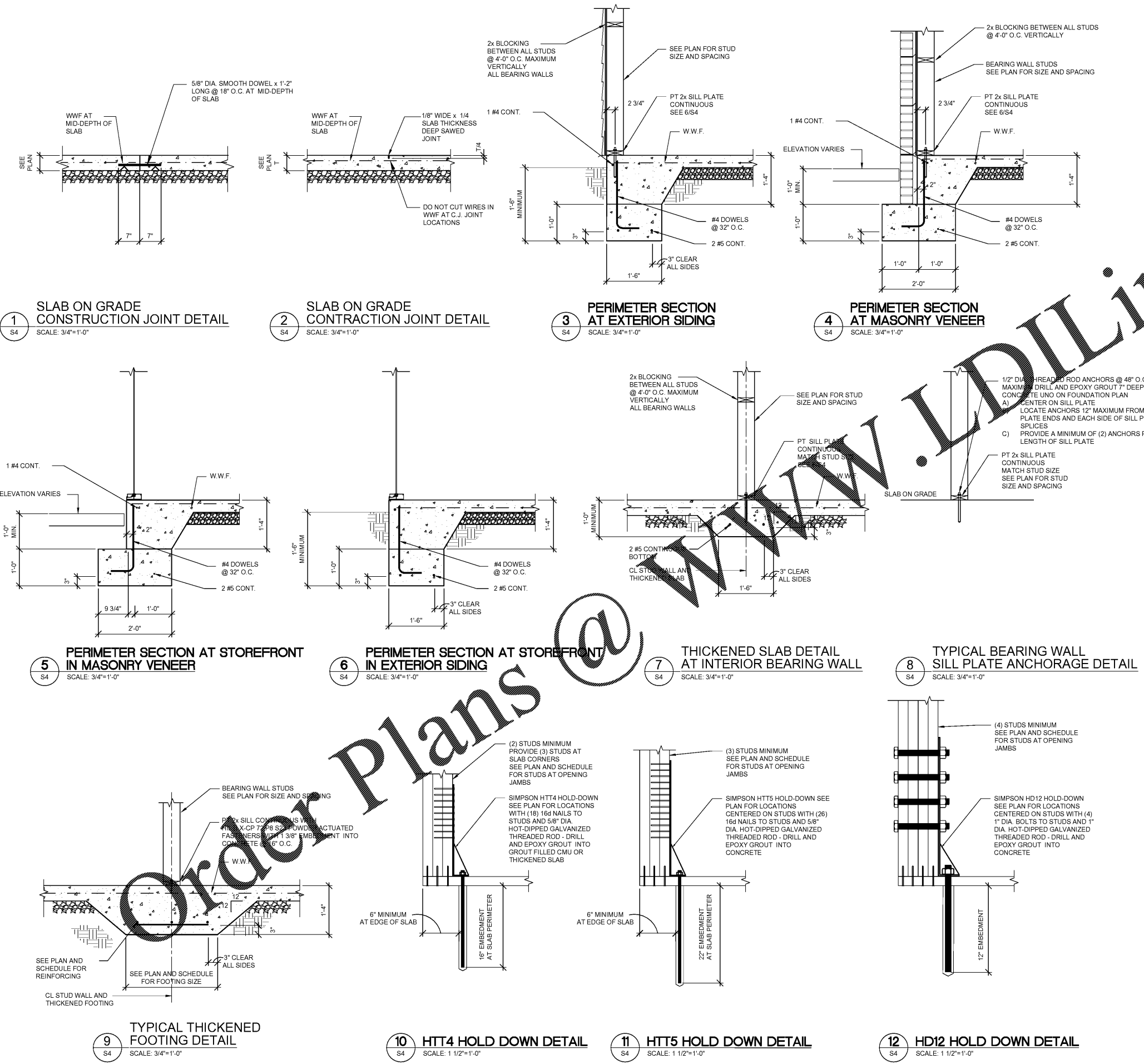
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GENERAL NOTES
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Order Plans @