

STEEL STAIRS, HANDRAILS AND GUARDRAILS

1. STEEL STAIRS ARE PRE-ENGINEERED UNLESS SPECIFICALLY DESIGNED AND DETAILED ON DRAWINGS. NOTES BELOW APPLY TO PRE-ENGINEERED STAIRS.
2. STAIRS, HANDRAILS AND GUARDRAILS SHALL BE DESIGNED TO MEET THE LOADS AND CONFIGURATION INDICATED ON THE CONTRACT DOCUMENTS. DETAILER SHALL SUBMIT COMPLETE DRAWINGS AND CALCULATIONS FOR ALL STAIRWAYS, STAIR STRINGERS, TREADS, LANDINGS, STAIR MEMBERS, HANDRAILS, GUARDRAILS, ETC.
3. DESIGN STAIRS, FRAMING MEMBERS, CONNECTIONS (INCLUDING THOSE TO BUILDING STRUCTURE), CHECKERED PLATES, HANDRAILS, GUARDRAILS, LANDINGS, ETC AND PROVIDE LATERAL RESTRAINT COMPLYING WITH CONTRACT DOCUMENTS AND GOVERNING CODES. BUILDING LATERAL RESISTING SYSTEM MAY BE UTILIZED FOR STAIR LATERAL RESTRAINT PROVIDED LOAD PATHS TO BUILDING LATERAL FORCE RESISTING SYSTEM ARE INDICATED IN CALCULATIONS AND CONNECTIONS ARE SHOWN ON SHOP DRAWINGS.
4. AT CONNECTIONS OF STRUCTURE, PROVIDE STABILIZING ELEMENTS SUCH AS BRACES, STIFFENER PLATES, ETC SO AS TO NOT IMPOSE ECCENTRIC LOADING, TWISTING OR WARPING TO STRUCTURAL MEMBERS. PROVIDE MATERIAL AND INSTALL STABILIZING ELEMENTS AT NO ADDITIONAL COST TO OWNER.
5. DETAILER SHALL SUBMIT CALCULATIONS INDICATING DESIGN CRITERIA, APPLIED LOADS AND CONNECTION DETAILS PRIOR TO SUBMITTING STAIR SHOP DRAWINGS AND FABRICATION. CALCULATIONS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MICHIGAN.
6. STAIRS SHALL BE DESIGNED FOR DEAD LOAD OF STAIR STRUCTURE AND FINISHES, 100 PSF LIVE LOAD AND RELEVANT LATERAL LOADS.
7. HANDRAILS AND GUARDRAILS SHALL BE DESIGNED FOR 200 LB CONCENTRATED AND 50 PLF LINE LOAD ACTING IN ANY DIRECTION ALONG THE TOP OF THE RAIL.
8. STAIR STRINGERS SHALL BE MITERED AND WELDED WITH FULL PENETRATION WELDS.
9. REFER TO ARCHITECTURAL DRAWINGS FOR STAIR, HANDRAIL AND GUARDRAIL DIMENSIONS, DETAILS AND OTHER REQUIREMENTS.