

STRUCTURAL NOTES

APPLICABLE CODES AND DESIGN PRINCIPLES

1. LIVE LOADS ARE THOSE RECOMMENDED IN THE MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, SEI/ASCE 7-05.
2. "ULTIMATE STRENGTH DESIGN" (USD) PRINCIPLES HAVE BEEN USED IN THE DESIGN OF ALL REINFORCED CONCRETE MEMBERS, AND REINFORCED MASONRY WALLS.
3. "ELASTIC DESIGN" PRINCIPLES HAVE BEEN USED IN THE DESIGN OF ALL STRUCTURAL STEEL MEMBERS.

DEAD LOADS

1. DEAD LOADS HAVE BEEN ESTABLISHED FROM TABLE C1 OF SEI/ASCE 7-02, THE "AISC MANUAL OF STEEL CONSTRUCTION" (LATEST EDITION), THE "CRSI HANDBOOK" (LATEST EDITION), AND MANUFACTURER'S LITERATURE.

LIVE LOADS

1. ALL STRUCTURAL MEMBERS, AS SHOWN, HAVE BEEN DESIGNED TO SUPPORT IN PLACE DESIGN LOADS ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUPPORT OF ANY ADDITIONAL LOADS AND FORCES IMPOSED DURING MANUFACTURING, TRUCKING, ERECTING AND HANDLING, AND IMPOSED CONSTRUCTION LOADS, INCLUDING CRANE LOADS AND BUILDING MATERIAL STORAGE, IN EXCESS OF THE STATED DESIGN LOADS.

SOIL BEARING VALUES

1. THE SOIL BEARING VALUE IS ASSUMED TO BE 2000 PSF. (NO TEST BORINGS)

BACKFILL, COMPACTION, AND SOILS NOTES

1. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO BRACE FOUNDATION WALLS WHEN BACKFILLING AND WHEN THERE IS A POSSIBILITY OF DAMAGE BY EXCESS WATER.
2. BACKFILLING SHALL BE DONE IN A MANNER THAT WILL NOT DAMAGE THE WALLS AND SLABS TO REMAIN AND SHALL BE WELL TAMPED USING 8" LAYERS WITH 95% MAXIMUM DENSITY PER THE STANDARD PROCTOR TEST.
3. ALL PRECAUTIONS SHOULD BE TAKEN FOR ADEQUATE DRAINAGE PRIOR TO AND AFTER SUCH BACKFILLING.
4. BACKFILLING AGAINST WALLS OR SLABS TO REMAIN WILL NOT BE PERMITTED UNTIL SUPPORTING SLABS ARE IN PLACE OR UNTIL ADEQUATE BRACING ARRANGEMENTS ARE APPROVED BY THE ENGINEER.
5. SEE CIVIL DRAWINGS AND SPECIFICATIONS FOR GENERAL FILL REQUIREMENTS AND SOIL COMPACTION CRITERIA.

STRUCTURAL STEEL

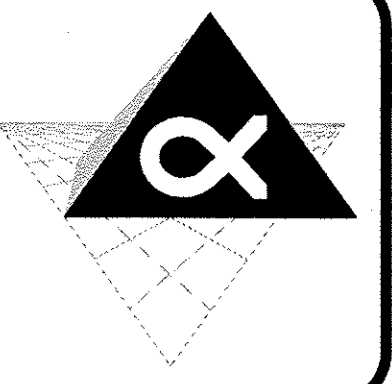
1. STRUCTURAL STEEL SHALL CONFORM TO AISC "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, PART I", FOR TYPE 1 AND TYPE 2 CONSTRUCTION. DETAILS FOR STRUCTURAL STEEL SHALL CONFORM TO STANDARDS SET FORTH IN "DETAILING FOR STEEL CONSTRUCTION/AISC".
2. ALL STRUCTURAL STEEL, BEAMS, AND PLATES SHALL MEET THE CRITERIA OF ASTM A992 AND SHALL HAVE MINIMUM YIELD STRENGTH OF 50 ksi. ALL STEEL TUBES SHALL BE A500 GRADE B.
3. SHOP CONNECTIONS SHALL BE WELDED.
4. FIELD CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS CONFORMING TO ASTM A325 (3/4" DIA.), U.O.N.
5. HIGH STRENGTH BOLTS SHALL BE TIGHTENED BY THE STANDARD IMPACT METHOD.
6. ALL BOLTS SHALL BE GALVANIZED.
7. ALL WELDING SHALL CONFORM TO "THE CODE FOR WELDING IN BUILDING CONSTRUCTION" OF THE AMERICAN WELDING SOCIETY AND THE APPROPRIATE SPECIFICATION REQUIREMENTS OF THE AISC CODE. WELDS SHALL BE INSTALLED BY WELDERS QUALIFIED IN ACCORDANCE WITH AWS PROCEDURES FOR WELDER CERTIFICATION.
8. THICKNESS OF WELDS SHALL BE AS SHOWN ON THE DRAWINGS, AS SPECIFIED BY AISC, OR AS REQUIRED BY AWS AND SHALL BE CLEARLY SHOWN ON ALL SHOP AND ERECTION DRAWINGS.
9. ALL STEEL ELEMENTS SHALL BE SHOP PRIMED AND FIELD PAINTED WITH RUST RESISTANT PAINT AFTER ALL ERECTION & DEMOLITION IS COMPLETE. PAINT SHALL BE SELECTED BY OWNER.

DEMOLITION OF EXISTING STRUCTURE

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE AND LOCAL HEALTH AND SAFETY REQUIREMENTS APPLICABLE FOR THIS PROJECT.
2. NO DEMOLITION WORK SHALL BEGIN UNTIL ALL HAZARDOUS MATERIALS ABATEMENT HAS BEEN COMPLETED.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL UTILITIES HAVE BEEN DISCONNECTED AND CAPPED AS REQUIRED PRIOR TO START OF DEMOLITION WORK. SEE CIVIL DRAWINGS FOR PROCEDURES AND DETAILS.
4. THE CONTRACTOR SHALL COMPLETE A PRE-DEMOLITION SURVEY OF ALL PROPERTIES WITHIN 100 FEET OF THE PROJECT PROPERTY LINES PRIOR TO COMMENCEMENT OF DEMOLITION. ALL PRE-EXISTING CONDITIONS SHALL BE DOCUMENTED AND PHOTOGRAPHED. COPIES OF ALL DOCUMENTATION AND PHOTOGRAPHS SHALL BE PROVIDED TO THE ARCHITECT PRIOR TO COMMENCEMENT OF DEMOLITION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER DISPOSAL OF ALL MATERIALS TO BE REMOVED PER THE PROJECT NOTES AND SPECIFICATIONS.

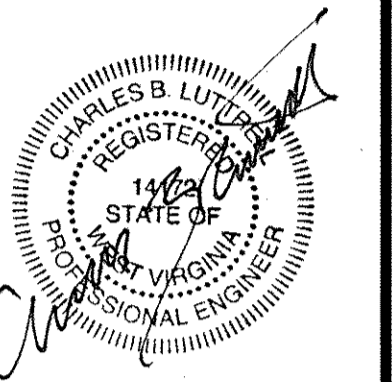
SPECIAL NOTES

1. ALL INFORMATION OF EXISTING CONSTRUCTION, INCLUDING CONSTRUCTION COMPOSITION AND DIMENSIONS, WAS TAKEN FROM OWNER FURNISHED DRAWINGS OF PAST CONSTRUCTION AND SHALL BE FIELD VERIFIED. DEVIATIONS FROM THOSE SHOWN SHALL BE FURNISHED TO THE ARCHITECT AND ENGINEER.
2. WHERE UNDERPINNING AND/OR SHORING IS REQUIRED, THE METHOD AND SEQUENCE SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO STARTING FIELD OPERATIONS. SEE SECTION 02150 OF THE PROJECT MANUAL.
3. SHOP DRAWINGS FOR ALL STRUCTURAL ITEMS ARE PART OF THE STRUCTURAL DESIGN. FAILURE BY THE CONTRACTOR TO SUBMIT SUCH DRAWINGS FOR REVIEW WILL DELAY PAYMENT FOR SUCH ITEMS AND WORK RELATED THERETO.
4. ALL CONTRACTOR PROPOSED STRUCTURAL SUBSTITUTIONS, INCLUDING CONCRETE ADDITIVES, SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ANY PERTINENT WORK AND PRIOR TO THE AWARD OF ANY SUBCONTRACTS.
5. SHOP DRAWINGS, TEST REPORTS, AND CERTIFICATIONS ARE REQUIRED FOR THE FOLLOWING STRUCTURAL ITEMS:
 - * MISCELLANEOUS AND STRUCTURAL STEEL SHOP DRAWINGS
 - * UNDERPINNING METHOD AND SEQUENCING
6. CONSTRUCTION METHODS, PROCEDURES, AND SEQUENCES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEANS TO MAINTAIN AND PROTECT THE STRUCTURAL INTEGRITY OF ALL CONSTRUCTION AT ALL STAGES.
7. OPEN EXCAVATION NEAR EXISTING FOUNDATIONS SHALL BE SHORED OR SLOPED AWAY FROM THE FOUNDATION AT A ONE-TO-ONE SLOPE WITH AT LEAST 3 FEET OF HORIZONTAL BARRIER DISTANCE FROM THE FOOTING AT FOUNDING ELEVATION, AS RECOMMENDED IN THE SOILS REPORT.
8. BOTH SURFACE AND SUBSURFACE DRAINAGE STRUCTURES SHALL BE INSTALLED AND MAINTAINED TO PREVENT SATURATION OF THE SLOPES DURING CONSTRUCTION, AS RECOMMENDED IN THE SOILS REPORT.
9. IMPOSED CONSTRUCTION LOADS, INCLUDING CRANE LOADS, IN EXCESS OF THE STATED DESIGN LOADS MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO THE IMPOSITION OF SUCH LOADS.



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REVISIONS	
ITEM	DATE

**STRUCTURAL
NOTES**

SCALE: AS NOTED

THE
CLARKSBURG STATE OFFICE BUILDING
WV GENERAL SERVICES DIVISION
PHASE ONE
CLARKSBURG, WEST VIRGINIA

DR'N.: DLF
P.M.: CBL P.I.C.: CBL
PROJ. NO.: 0810123.00
DATE: JULY 23, 2010
SHEET NO.:

S001