

GENERAL CONSTRUCTION

- NOTES, TYPICAL DETAILS, AND SCHEDULES APPLY TO ALL STRUCTURAL WORK, UNLESS NOTED OTHERWISE. TYPICAL DETAILS ARE TO BE USED FOR ALL CONDITIONS WHERE THE DETAIL IS APPLICABLE. WHETHER OR NOT WORK ON PLAN. TYPICAL DETAILS MAY BE SLIGHTLY ALTERED IF REQUIRED DUE TO PROJECT CONDITIONS, ONLY WHEN SUBMITTED AND THE ENGINEER'S APPROVAL IS OBTAINED PRIOR TO PERFORMING THE WORK.
- ALL DIMENSIONS AND ELEVATIONS SHOWN ON STRUCTURAL DRAWINGS, WITH THE EXCEPTION OF STRUCTURAL MEMBER SIZES, ARE GENERAL. DIMENSIONS OF OTHER DISCIPLINES, ANY DIMENSIONS OR ELEVATIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHOULD BE OBTAINED FROM THE DRAWINGS OF THE OTHER DISCIPLINES. STRUCTURAL DRAWINGS ARE NOT STANDALONE DOCUMENTS AND SHOULD BE USED IN CONJUNCTION WITH, AND COORDINATED WITH THE SPECIFICATIONS, ARCHITECTURAL DRAWINGS AND ALL OTHER DISCIPLINE DRAWINGS. IF THERE IS A DISCREPANCY BETWEEN DRAWINGS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER AND ARCHITECT PRIOR TO PERFORMING THE WORK.
- IF DIFFERENCES OCCUR WITHIN OR BETWEEN DRAWINGS AND SPECIFICATIONS REGARDING MATERIALS, STRENGTHS OR QUANTITIES, THE BETTER MATERIAL, HIGHER STRENGTH, AND GREATER QUANTITY INDICATED, SPECIFIED OR NOTED SHALL BE PROVIDED.
- REPRODUCTIONS OF STRUCTURAL DRAWINGS FOR SUBMITTAL AS SHOP DRAWINGS IS PROHIBITED, UNLESS WRITTEN APPROVAL IS REQUESTED BY THE CONTRACTOR AND IT IS GRANTED BY SLATE STRUCTURAL ENGINEERS.
- DO NOT SCALE DRAWINGS TO OBTAIN DIMENSIONAL INFORMATION.
- THESE DRAWINGS DO NOT DEFINE SCOPE OF CONTRACTOR OR SUBCONTRACTOR CONTRACTS.
- AT ALL TIMES, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONDITIONS OF THE JOBSITE INCLUDING MEANS AND METHODS OF CONSTRUCTION AND SAFETY OF PERSONS AND PROPERTY. THE ENGINEER'S PRESENCE OR REVIEW OF WORK AT THE JOBSITE IS FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT ONLY AND IS NOT EVER TO BE CONSTRUED AS A REVIEW OF MEANS AND METHODS OF CONSTRUCTION AND SAFETY METHODS.
- THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ALLOWABLE CONSTRUCTION LOADS AND FOR PROTECTING THE COMPLETED OR INCOMPLETE STRUCTURAL FRAMING FROM DAMAGE DUE TO TEMPORARY CONSTRUCTION LOADINGS.
- COSTS OF INVESTIGATION AND/OR REDESIGN DUE TO CONTRACTOR ERRORS WILL BE AT THE CONTRACTOR'S EXPENSE.
- ANY APPROVED CONTRACTOR REQUESTED CHANGES TO THESE DRAWINGS WILL BE DONE AT NO COST TO THE OWNER. APPROVAL OF CONTRACTOR REQUESTED CHANGES IN NO WAY STATES OR IMPLIES APPROVAL OF A CHANGE IN SCOPE OR CHANGE IN CONTRACT COST.
- UNLESS EXPLICITLY NOTED AS "ISSUED FOR BID", THESE DRAWINGS ARE NOT SUITABLE FOR OBTAINING BIDS FROM GENERAL OR SUBCONTRACTORS. BIDDING OF DRAWINGS PRIOR TO DESIGN COMPLETION AND "ISSUED FOR BID" IS DONE AT THE SOLE RISK OF THE BIDDING CONTRACTOR. ADDITIONS OR CORRECTIONS TO THESE DRAWINGS THAT ARE BID PRIOR TO DESIGN COMPLETION AND "ISSUED FOR BID" WILL NOT BE CONSIDERED AS DESIGN ERRORS OR OMISSIONS. STRUCTURAL DESIGN, BY NATURE, CANNOT BE COMPLETE PRIOR TO COMPLETION OF ARCHITECTURAL AND MECHANICAL DRAWINGS.
- ALL REFERENCES TO WATERDAMP-PROOFING, FIREPROOFING, AND UTILITIES ON THE STRUCTURAL DRAWINGS ARE FOR REFERENCE ONLY. SEE ARCHITECTURAL DRAWINGS, SPECIFICATIONS, AND OTHER DOCUMENTS FOR ALL WATERDAMP-PROOFING, FIREPROOFING AND UTILITY DETAILS AND REQUIREMENTS. COORDINATE ALL UNDERGROUND UTILITY REQUIREMENTS WITH ALL UTILITIES SHALL BE ABOVE-GROUND FOOTING AND NOT LOCATED WITHIN THE FOOTINGS. NOTIFY ENGINEER OF RECORD IF OTHERWISE.
- IF THE EXISTING FIELD CONDITIONS DO NOT PERMIT THE INSTALLATION OF THE WORK IN ACCORDANCE WITH THE DETAILS SHOWN, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY. THE CONTRACTOR MUST PROVIDE A SKETCH OF THE CONDITION WITHIN 48 HOURS OF THE DISCOVERY OF THE CONDITION. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR THE EXISTING FIELD CONDITIONS TO THE ORIGINAL CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A SKETCH OF THE CONDITION WITHIN 48 HOURS OF THE DISCOVERY OF THE CONDITION. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A SKETCH OF THE CONDITION WITHIN 48 HOURS OF THE DISCOVERY OF THE CONDITION.
- SUBMIT SHOP DRAWINGS SUCH THAT BY THE TIME THEY ARE RECEIVED BY SLATE STRUCTURAL ENGINEERS, THERE WILL BE AT LEAST 14 DAYS BEFORE REVIEWED SUBMITTALS WILL BE NEEDED. ANY REVIEW THAT IS REQUIRED MORE EXPEDIENTLY WILL BE AT THE CONTRACTOR'S EXPENSE. SHOP DRAWINGS SHALL BEAR THE CONTRACTOR'S STAMP OF APPROVAL CERTIFYING THAT HE HAS VERIFIED ALL FIELD MEASUREMENTS, CONSTRUCTION CRITERIA, MATERIALS AND SIMILAR DATA AND HAS CHECKED EACH DRAWING FOR COMPLETENESS, COORDINATION AND COMPLIANCE WITH THE CONTRACT DOCUMENTS. IF REVIEW OF AN INCOMPLETE SHOP DRAWING IS REQUIRED, THAT SHOP DRAWING SHALL BE CLEARLY MARKED AS INCOMPLETE. THE AREA THAT NEEDS TO BE REVIEWED SHALL BE CLEARLY NOTED WITH AN EXPLANATION FOR THE REASON FOR PARTIAL APPROVAL.
- IN NO CASE SHALL HEAVY EQUIPMENT BE PERMITTED CLOSER THAN 8'-0" FROM ANY FOUNDATION/BASEMENT WALL. IF THE CONTRACTOR DETERMINS IT IS NECESSARY TO OPERATE SUCH EQUIPMENT CLOSER THAN 8'-0", THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE AND, AT HIS OWN EXPENSE, PROVIDE ADEQUATE SUPPORTS OR WALL BRACES TO WITHSTAND THE ADDITIONAL LOADS IMPROPOSED FROM SUCH EQUIPMENT.
- SIZE AND/OR LOCATION OF OPENINGS, SLEEVES, CONCRETE HOUSEKEEPING PADS, INSERTS, DEPRESSIONS, ETC. SHOWN ON THE STRUCTURAL DOCUMENTS ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE CONTRACTOR IS SOLELY RESPONSIBLE TO COORDINATE ALL CONTRACT DOCUMENTS TO DETERMINE THE SIZE AND/OR LOCATION OF OPENINGS, SLEEVES, CONCRETE HOUSEKEEPING PADS, INSERTS, DEPRESSIONS, ETC.
- SIZE AND/OR LOCATION OF EXISTING STRUCTURES AND UTILITIES SHOWN ON THE STRUCTURAL DOCUMENTS ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE CONTRACTOR IS SOLELY RESPONSIBLE TO REPAIR THE EXISTING FIELD CONDITIONS TO THE ORIGINAL CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A SKETCH OF THE CONDITION WITHIN 48 HOURS OF THE DISCOVERY OF THE CONDITION. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A SKETCH OF THE CONDITION WITHIN 48 HOURS OF THE DISCOVERY OF THE CONDITION.
- THE CONTRACTOR SHALL SUBMIT SIGNED AND SEALED CALCULATIONS AND SHOP DRAWINGS BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED SHOWING DESIGNING OF METAL STRUITS, METAL BRACINGS AND CONNECTIONS TO STRUCTURE TAKING INTO ACCOUNT THE VERTICAL AND LATERAL LOADS STATED IN THE GOVERNING CODES, WHERE HEADERS OR OTHER TYPES OF STRUCTURAL MEMBERS HAVE BEEN DESIGNATED ON THE STRUCTURAL CONTRACT DOCUMENTS TO SUPPORT THE STAIRS, THE CONNECTIONS FROM THE STAIRS SHALL BE DESIGNED SO THAT NO ECCENTRIC OR TORSIONAL FORCES ARE IMPOSED ON THESE STRUCTURAL MEMBERS. IF ECCENTRIC CONNECTIONS ARE USED, CONTRACTORS SHALL PROVIDE BRACING ELEMENTS FOR ALL SUPPORTING STEEL TO ELIMINATE THE TORSIONAL EFFECTS OF THE ECCENTRIC CONNECTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ALL EMBEDDED ITEMS AND HARDWARE AS REQUIRED PER THE STAIR DESIGN.
- STRUCTURAL COMPONENTS ARE NOT DESIGNED FOR VIBRATING EQUIPMENT. MOUNT VIBRATING EQUIPMENT ON VIBRATION ISOLATORS, INERTIA PADS, ETC.
- EXACT LOCATIONS OF ROOF PENETRATIONS TO BE COORDINATED BY THE GENERAL CONTRACTOR BETWEEN STEELJOIST/DECK/HVAC SUBCONTRACTORS. SEE DETAIL FOR ROOF FRAME REQUIREMENTS.

EXISTING CONDITIONS/DEMOLITION

- SHORING, BRACING, PROTECTION, AND UNDERPINNING OF EXISTING AND ADJACENT STRUCTURES DURING CONSTRUCTION, INCLUDING ALL DESIGN RESPONSIBILITIES, IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. PROVIDE SIGNED AND SEALED CALCULATIONS AND SHOP DRAWINGS TO OWNER. PROTECT AND MAINTAIN THE INTEGRITY OF ADJACENT STRUCTURES, BUILDINGS AND STREETS.
- ALL EXISTING DIMENSIONS, ELEVATIONS, AND LOCATIONS OF EXISTING STRUCTURES, OR RELATIVE TO EXISTING STRUCTURES, THAT ARE SHOWN ON THE STRUCTURAL DOCUMENTS WILL BE VERIFIED BY FIELD MEASUREMENTS PERFORMED BY THE CONTRACTOR. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT AND ENGINEER.
- THE STRUCTURAL DOCUMENTS HAVE BEEN PREPARED BASED ON AVAILABLE KNOWLEDGE OF EXISTING CONDITIONS. IF DURING DEMOLITION, EXCAVATION, OR CONSTRUCTION, ACTUAL CONDITIONS ARE DISCOVERED TO DIFFER FROM THOSE INDICATED ON THE DOCUMENTS, THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED.
- ALL STRUCTURAL DEMOLITION MUST BE COORDINATED WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
- SELECTIVELY DEMOLISH STRUCTURAL COMPONENTS AS REQUIRED TO CONSTRUCT NEW WORK. PRIOR TO ANY DEMOLITION WORK, AN ENGINEERING SURVEY REPORT OF THE STRUCTURE TO BE DEMOLISHED SHALL BE OBTAINED. THE CONDITION OF THE FRAMING, FLOORS, AND WALLS. ANY ADJACENT STRUCTURE WHERE OCCUPANTS MAY BE EXPOSED SHALL BE SIMILARLY REVIEWED.
- WHERE NEW FRAMING IS TO BE CONNECTED TO AN EXISTING STRUCTURE WITH BRICK OR CMU VENEER, THE VENEER SHALL BE REMOVED SUFFICIENTLY TO PERMIT CONNECTION OF THE NEW FRAMING DIRECTLY TO THE BUILDING SUBSTRUCTURE. THE NEW BRICK OR CMU VENEER SHALL BE INSTALLED TO MATCH THE EXISTING ADJACENT SURFACES. MAINTAIN A 1/2" SEPARATION BETWEEN THE BRICK OR CMU AND THE NEW FRAMING, UNLESS NOTED OTHERWISE ON DRAWINGS. FILL GAPS WITH BACKER RODS AND SEALANTS.
- CONTRACTOR TO FIELD VERIFY ALL EXISTING FINISHED FLOOR ELEVATIONS PRIOR TO FABRICATION OF STEEL BEAMS. PROVIDE ALLOWANCE FOR ADDITIONAL LEVELING MATERIAL, IN AREAS OF BREAK THROUGH TO THE EXISTING FINISHED FLOOR TO ENSURE FINISHED FLOOR ELEVATION OF NEW MATCHES EXISTING.
- CONTRACTOR SHALL RETAIN INDIVIDUALS TO PERFORM SITE SAFETY DEMOLITION PLAN, ENGINEERING STUDY AND ALL OTHER SERVICES RELATED TO DEMOLITION IN ACCORDANCE WITH LOCAL JURISDICTION REQUIREMENTS.

STRUCTURAL SPECIAL INSPECTIONS

- THE QUALIFIED AGENCY RETAINED BY THE OWNER FOR THESE SPECIAL INSPECTION SERVICES SHALL BE APPROVED BY THE OWNER, THE ARCHITECT AND THE ENGINEER OF RECORD PRIOR TO START OF CONSTRUCTION. AN OUTLINE OF THE SCOPE OF SERVICES TO BE PERFORMED BY THE INSPECTING AGENCY IS TO BE SUBMITTED PRIOR TO THE START OF CONSTRUCTION.
- IN ACCORDANCE WITH SECTION 1704 OF THE INTERNATIONAL BUILDING CODE, AND ALL APPLICABLE STATE AND LOCAL REQUIREMENTS, AN INDEPENDENT APPROVED AGENCY SHALL MAKE PERIODIC AND/OR CONTINUOUS INSPECTIONS OF THE CONSTRUCTION PROCESS IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:

CONCRETE CONSTRUCTION	SECTION 1704.4, TABLE 1704.4	SECTION 1705.3, TABLE 1705.3
MASONRY CONSTRUCTION	SECTION 1704.5.1, TABLE 1704.5.1, 3	SECTION 1705.4, TABLE 1705.4, 3
WOOD CONSTRUCTION	SECTION 1704.6	SECTION 1705.5
SOILS	SECTION 1704.7, TABLE 1704.7	SECTION 1705.6, TABLE 1705.6
- IN ACCORDANCE WITH SECTIONS 1707.1 THROUGH 1707.5 (1705.12, 1705.12.1 THROUGH 1705.12.2) FOR IRC 2018 OR THE INTERNATIONAL BUILDING CODE AND ALL APPLICABLE STATE AND LOCAL REQUIREMENTS, AN INDEPENDENT APPROVED AGENCY SHALL MAKE PERIODIC AND/OR CONTINUOUS SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE OF THE CONSTRUCTION PROCESS.

FOUNDATIONS

- NO GEOTECHNICAL REPORT IS PROVIDED. BOTTOM OF FOOTINGS IS ASSUMED TO BEAR ON SOL. CAPABLE OF SAFELY SUPPORTING 2000 PSF. IN ADDITION TO CONSTRUCTION, THE SERVICES OF A QUALIFIED GEOTECHNICAL ENGINEER SHALL BE RETAINED. THE GENERAL CONTRACTOR IS HEREBY RESPONSIBLE FOR PERFORMING ALL EARTHWORK OPERATIONS IN STRICT ACCORDANCE WITH GEOTECHNICAL ENGINEERING REQUIREMENTS. IF THE FOUNDATION RECOMMENDATIONS AND/OR DESIGN VALUES DIFFER FROM THAT ASSUMED, MODIFICATION TO THE DESIGN/DRAWINGS MAY BE REQUIRED.
- SUBGRADE OF ALL FOOTINGS MUST BE INSPECTED UNDER THE SUPERVISION OF AND APPROVED BY A REGISTERED SOILS ENGINEER BEFORE PLACING ANY CONCRETE. APPROVAL IN WRITING MUST INDICATE THE SOIL IS ADEQUATE TO SAFELY SUSTAIN SPECIFIED SOIL BEARING PRESSURE.
- BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 3 FEET BELOW EXTERIOR FINISH GRADE. ALL FOOTING ELEVATIONS SHOWN ON PLAN ARE THE BEST APPROXIMATIONS BASED ON AVAILABLE DATA. GENERAL CONTRACTOR MAY ALTER FOOTING ELEVATIONS FOR REASONS INCLUDING, BUT NOT LIMITED TO, REVISED GEOTECHNICAL OR CIVIL INFORMATION, UNDESIGNED CONDITIONS, ACTUAL INVERT ELEVATIONS, CONSTRUCTIBILITY, ETC. CONTRACTOR SHALL NOTIFY ARCHITECT AND OBTAIN WRITTEN APPROVAL PRIOR TO ANY MODIFICATIONS.

CONCRETE

- REINFORCING STEEL SHALL BE WITHIN TOLERANCES SET FORTH IN A0111 AND HAVE THE SPECIFIED CLEAR COVER, UNLESS NOTED OTHERWISE ON DRAWINGS.

CONCRETE POURED AGAINST EARTH	3"
CONCRETE EXPOSED TO EARTH OR WEATHER	1 1/2"
#8 OR LARGER	1 1/2"
#4 OR SMALLER	1 1/2"
- CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:

COLUMNS (TIES AND MAIN REINFORCING)	1 1/2"
SLABS, WALLS, JOISTS	#4 OR #5 BARS
BEAMS (STRUTS) AND MAIN REINFORCING	#4 OR #5 BARS
- CLEAR COVER SHALL BE CLEARLY SHOWN ON ALL REINFORCING BAR DETAIL DRAWINGS.
- ALL CONCRETE SHALL BE READY-MIX AND HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF:

A. SPREAD FOOTINGS/WALL FOOTINGS/FOUNDATION WALL	3,000 PSI
B. BASEMENT WALLS/RETAINING WALLS	(MINIMUM OF 3,000 PSI)
C. PERISATOR WALL STRENGTH	3,500 PSI
D. SLAB-ON-GRADE	3,500 PSI
E. CONCRETE SLABS ON METAL DECK	3,500 PSI
- HAVE A MINIMUM OF 500 LBS. OF CEMENT PER CUBIC YARD. SLUMP AT POINT OF CONCRETE PLACEMENT SHALL BE 3 INCH MINIMUM AND 8 INCH MAXIMUM. CONCRETE EXPOSED TO WEATHER SHALL HAVE 5 PERCENT AIR ENTRAINMENT. CONCRETE NOT EXPOSED TO WEATHER SHALL NOT CONTAIN AN AIR-ENTRAINING AGENT. SUBMIT MIX DESIGNS FOR REVIEW.
- NORMAL-WEIGHT CONCRETE TO BE GIVEN A HAND-TROWELED FINISH SHALL NOT CONTAIN AN AIR-ENTRAINING AGENT. TOTAL AIR CONTENT FOR THIS CONCRETE SHOULD NOT EXCEED 3 PERCENT (AT POINT OF CONCRETE PLACEMENT). ALL CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST ACI BUILDING CODE (ACI 318), THE ACI DETAILING MANUAL (ACI 315), AND THE SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301).
- ALL REINFORCING STEEL SHALL BE MANUFACTURED FROM HIGH STRENGTH BILLET STEEL CONFORMING TO ASTM DESIGNATION A615 GRADE 60. WFF SHALL COMPLY WITH ASTM A185.
- LAP ALL REINFORCING BARS 62 DIAMETERS, LAP ALL WWF A MINIMUM OF SIX INCHES.
- ALL INSERTS AND SLEEVES SHALL BE CAST-IN-PLACE. THE CONTRACTOR SHALL VERIFY THE DIMENSIONS AND LOCATIONS OF ALL OPENINGS, PEE SLEEVES, ETC. AS REQUIRED BY ALL TRAKES BEFORE THE CONCRETE IS POURED. THE CONTRACTOR SHALL CONSULT THE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS, AS WELL AS THE STRUCTURAL DRAWINGS FOR THE LOCATION, NUMBER, AND SIZE OF ALL OPENINGS, SLEEVES, ETC. HOWEVER, OPENINGS, ETC. SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE INITIATED ONLY AFTER APPROVAL BY THE STRUCTURAL ENGINEER IS OBTAINED. DRAWINGS SHALL BE SUBMITTED FOR REVIEW SHOWING LOCATIONS AND DIMENSIONS OF ALL OPENINGS, SLEEVES, ETC. CAST-IN-PLACE CONCRETE SLAB FRAMES, WALLS, COLUMNS, AND FOUNDATIONS. THESE DRAWINGS SHALL BE COORDINATED BY THE CONTRACTOR. OPENINGS AND SLEEVES THROUGH CAST-IN-PLACE CONCRETE FRAMING IS PROHIBITED EXCEPT WHERE THOSE SLEEVES AND OPENINGS ARE SHOWN ON THE STRUCTURAL DRAWINGS OR WHERE THEY ARE NOTED ON THE APPROVED SLICES AND OPENING DRAWINGS THAT HAVE BEEN SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW. SAW-CUTTING, CORING, OR DRILLING OF SLEEVES OR OPENING THROUGH PREVIOUSLY CAST CONCRETE IS NOT PERMITTED EXCEPT WHERE SPECIFICALLY REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER.
- SUBMIT ALL REINFORCING SHOP DRAWINGS FOR REVIEW PRIOR TO ANY FABRICATION.
- THE CONTRACTOR SHALL INSTALL FLOOR LEVELING MATERIAL AND PERFORM OTHER CORRECTIVE MEASURES IN ALL AREAS, INCLUDING BUT NOT LIMITED TO, AREAS WHERE FLOOR FINISH PROVISIONS DO NOT COMPLY WITH THE FLATNESS AND LEVELNESS REQUIREMENTS.

MASONRY

- MASONRY UNITS SHALL BE TYPE N-1 MEDIUM WEIGHT ASTM C90 SOLID (GREATER THAN OR EQUAL TO 75 PERCENT SOLID MATERIAL) OR ASTM C90 HOLLOW GROUDED SOLID BELOW GRADE, ASTM C90 HOLLOW ABOVE GRADE WITH MINIMUM COMPRESSIVE STRENGTH OF 1900 PSI EXCEPT STARTWORKS AND ELEVATOR SHAFTS WHICH ARE TO BE C90 HOLLOW GROUDED SOLID FOR FILL HEIGHT. ALL CMU SHALL BE LAD IN A FULL BED OF MORTAR. CONSTRUCT COLUMN PILES INTERIALLY WITH FOUNDATION WALLS AND CONTINUE WALL REINFORCEMENT THROUGH THE REIN. GROUT COLUMN PILES AND WALLS MONOLITHICALLY.
- FOLLOWING ARE THE BLOCK STRENGTHS REQUIRED:

A. ASTM C90 SOLID 1600 PSI ON GROSS AREA OF INDIVIDUAL UNITS	5 PSF
B. ASTM C90 HOLLOW 1600 PSI ON NET AREA OF INDIVIDUAL UNITS	5 PSF
C. IVARY 3000 PSI ON NET AREA OF INDIVIDUAL UNITS	5 PSF
- ALL MORTAR SHALL BE ASTM C270 TYPE S WITH A MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI AT 28 DAYS. EXCEPT IVARY BLOCK WHICH SHALL BE LAD USING ASTM C270 TYPE M MORTAR WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS. FROM FIELD OBTAINED TEST CYLINDERS
- GROUT SHALL BE A HIGH SLUMP MIX IN ACCORDANCE WITH ASTM SPECIFICATION C478 HAVING A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI FROM FIELD OBTAINED TEST CYLINDERS.
- LAD UP MASONRY DESIGN F.M IS 1900 PSI FOR STANDARD CONCRETE MASONRY AND 2000 PSI FOR IVARY. IVARY COMPRESSIVE STRENGTH TO BE DETERMINED BY PRISM TEST METHOD IN ACCORDANCE WITH ASTM C1314.
- IVARY BLOCK UNITS SHALL BE MANUFACTURED BY FIZZANO BROTHERS OR APPROVED EQUAL.
- VERTICAL REINFORCING SHALL BE ASTM A615, GRADE 60 DEFORMED BARS. MINIMUM LAP SPICE LENGTHS TO BE PER TABLE 1 (U.N.O. ON PLAN) AND TABLE 1.1. FOLLOWING:

TABLE 1	TABLE 2
#3: 27"	#3: 15"
#4: 36"	#4: 20"
#5: 45"	#5: 25"
#6: 54"	#6: 30"
#7: 63"	#7: 30"
#8: 72"	#8: 40"
#9: 82"	#9: 40"

- MECHANICAL SPLICING DEVICES WHICH ARE RATED TO DEVELOP 125 PERCENT OF F Y OF THE BAR MAY BE SUBSTITUTED. SUBMIT PRODUCT DATA FOR ENGINEERING APPROVAL.
- ALL CONCRETE MASONRY SHALL BE CONSTRUCTED AND ERECTED IN ACCORDANCE WITH THE LATEST ACI MASONRY CODE (ACI 530/ASCE 5/ASCE 6/18) AND SPECIFICATIONS (ACI 530.1/ASCE 6/18) 6/18.
  - PROVIDE HOT-DIPPED GALVANIZED TRUSS TIE OR LADDER TYPE HORIZONTAL JOINT REINFORCEMENT, MINIMUM 1/4" GA. AT 16 INCHES ON CENTER VERTICAL IN ALL MASONRY WALLS. SPACE HORIZONTAL JOINT REINFORCEMENT AT 8 INCHES ON CENTER IN ALL PARASELS. USE SHOP FABRICATED SPECIAL PIECES AT ALL CORNERS AND TEES.
  - AS A MINIMUM, ALL CORES CONTAINING VERTICAL REINFORCING ARE TO BE GROUTED SOLID.

WOOD FRAMING

- ALL STRUCTURAL WOOD FRAMING SHALL BE HEM FIR #2 MINIMUM, STRESS GRADE LUMBER, OR APPROVED EQUAL. THE UNADJUSTED MINIMUM ALLOWABLE PROPERTIES ARE AS FOLLOWS:

FB = 850 PSI	FV = 150 PSI	E = 1,300,000 PSI
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- ALL STRUCTURAL WOOD FRAMING SHALL BE GRADED AND STAMPED BY AN ACCREDITED GRADING AGENCY IN ACCORDANCE WITH THE AMERICAN SOFTWOOD LUMBER STANDARD PS20.
- ALL CONNECTIONS FOR WOOD MEMBERS NOT SPECIFICALLY NOTED ON DOCUMENTS SHALL NOT BE LESS THAN THE NUMBER AND SIZE OF NAILS AS SPECIFIED IN THE GOVERNING BUILDING CODE.
- ALL LVL SECTIONS SHALL BE MICROLAM ENGINEERED LUMBER AS ENGINEERED AND MANUFACTURED BY LEVEL OR APPROVED EQUAL. THE MINIMUM ALLOWABLE PROPERTIES FOR LVL BEAMS ARE AS FOLLOWS:

FB = 2600 PSI	FV = 285 PSI	E = 1,900,000 PSI
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- ALL PSB SECTIONS SHALL BE PARALLAM ENGINEERED LUMBER AS ENGINEERED AND MANUFACTURED BY LEVEL OR APPROVED EQUAL. THE MINIMUM ALLOWABLE PROPERTIES FOR PSB BEAMS ARE AS FOLLOWS:

FB = 2500 PSI	FV = 290 PSI	E = 2,200,000 PSI
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- ALL PSB POSTS SHALL BE PARALLAM POSTS AS ENGINEERED AND MANUFACTURED BY LEVEL OR APPROVED EQUAL. THE MINIMUM ALLOWABLE PROPERTIES ARE AS FOLLOWS:

FB = 2,400 PSI	FC = 2,200 PSI	E = 1,800,000 PSI
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- ALL WOOD FRAMING AND WOOD FRAMING CONSTRUCTION SHALL COMPLY WITH SPECIFICATIONS AND CODES AS SPECIFIED BELOW:

A. AMERICAN INSTITUTE OF TIMBER CONSTRUCTION: TIMBER CONSTRUCTION MANUAL.
B. NATIONAL FOREST AND PAPER ASSOCIATION/AMERICAN WOOD COUNCIL: NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION.
C. APA-THE ENGINEERED WOOD ASSOCIATION: PLYWOOD DESIGN SPECIFICATION AND PANEL DESIGN SPECIFICATION.
D. AMERICAN WOOD-PRESERVERS ASSOCIATION STANDARDS.
E. NATIONAL LUMBER MANUFACTURERS ASSOCIATION: NATIONAL DESIGN SPECIFICATION FOR STRESS-GRADE LUMBER AND ITS FASTENINGS.
- ALL WOOD FRAMING CONNECTIONS SHALL BE MADE USING PREFABRICATED CONNECTORS. PROVIDE STAINLESS STEEL FASTENERS, ANCHORS AND CONNECTORS WITH TREATED WOOD. TIE NAILING IS NOT PERMITTED UNLESS NOTED OTHERWISE IN THE GOVERNING BUILDING CODE. SUBMIT MANUFACTURER'S DATA FOR REVIEW. FASTENERS SHALL BE AS MANUFACTURED BY SAMPSON STRONG-TIE OR APPROVED EQUAL.
- ALL WOOD TRUSS MEMBERS SHALL BE FABRICATED FROM KILN DRIED TONGUE AND GROOVE LUMBER OR APPROVED EQUAL.
- DESIGN, FABRICATION, AND INSTALLATION OF WOOD TRUSSEES AND SHEET METAL CONNECTIONS SHALL BE IN ACCORDANCE WITH THE FOLLOWING TRUSS PLATE INSTITUTE STANDARDS:

A. NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION - ANSI/TP-1, LATEST EDITION.
B. RECOMMENDED DESIGN AND CONSTRUCTION OF TEMPORARY BRACING OF METAL PLATE CONNECTED WOOD TRUSSES, CDS-89.
C. GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING AND BRACING OF METAL PLATE CONNECTED WOOD TRUSSES, LATEST EDITION.
- WOOD TRUSSES ARE TO BE DESIGNED FOR THE WOOD FABRICATOR BY A PROFESSIONAL ENGINEER. SEALED CALCULATIONS ALONG WITH TRUSS SUBMITTAL PACKAGE, INCLUDING A TRUSS LAYOUT SHOWING ALL BEARING WALLS/SUPPORTS AS DEFINED IN THE INTERNATIONAL BUILDING CODE, ARE TO BE SUBMITTED BY THE CONTRACTOR TO THE ARCHITECT FOR REVIEW. TRUSS FABRICATOR SHALL DESIGN AND PROVIDE PREFABRICATED HANGERS AS REQUIRED ON TRUSSES TO TRUSS CONNECTIONS. TRUSS FABRICATOR SHALL DESIGN AND PROVIDE PREFABRICATED HANGERS AS REQUIRED ON TRUSSES TO TRUSS CONNECTIONS. TRUSS FABRICATOR SHALL DESIGN AND PROVIDE PREFABRICATED HANGERS AS REQUIRED ON TRUSSES TO TRUSS CONNECTIONS. TRUSS FABRICATOR SHALL DESIGN AND PROVIDE PREFABRICATED HANGERS AS REQUIRED ON TRUSSES TO TRUSS CONNECTIONS.
- HEADERS AT NON-BEARING CONDITIONS SHALL BE AS FOLLOWS:

OPENING SIZE	HEADER
4" TO 4'-0"	2" X 4"
4'-0" TO 6'-0"	2" X 6"
6'-0" TO 9'-0"	2" X 8"
- FOR OPENING HEADERS IN NON-BEARING INTERIOR PARTITIONS, PROVIDE ONE JACK STUD AND ONE KING STUD, FOR OPENING HEADERS IN LOAD-BEARING INTERIOR PARTITIONS, PROVIDE TWO JACK STUDS AND ONE KING STUD, OR A POST AS SHOWN ON DRAWINGS.
- NAIL PILES OF BUILT-UP HEADERS, BEAMS, AND STUDS/POSTS TOGETHER WITH TWO ROWS OF 10" NAILS AT 12" SPACING, UNLESS NOTED OTHERWISE ON DOCUMENTS.
- PROVIDE MINIMUM CONTINUOUS SOLID BLOCKING OR CROSS-BRIDGING LINES AT 8'-0" OIC MAXIMUM SPACING FOR ALL FLOOR TRUSSEES. PROVIDE ADDITIONAL X-BRIDGING AS REQUIRED BY FABRICATOR. PROVIDE A MINIMUM OF ONE LINE OF BLOCKING/CROSS BRIDGING FOR ALL SPANS.
- PROVIDE STRUCTURAL PLYWOOD SHEATHING OR APPROVED EQUAL AT ALL SIDES OF CORNERS FOR WIND BRACING. CONNECTIONS OF PLYWOOD SHALL COMPLY WITH APA NAILING REQUIREMENTS FOR PLYWOOD SHEAR WALLS. NO MORE THAN 50% OF WALL SHEATHING JOINTS MAY COINCIDE WITH A CONNECTION LINE. PROVIDE ADDITIONAL BRACING AS REQUIRED TO PREVENT SILL PLATE BEARING-TYPE FAILURE FOR THE NOTED PLATE SPECIES.
- PROVIDE AN ADDITIONAL JOIST OR TRUSS UNDER ALL PARTITIONS PARALLEL TO JOISTS.
- PROVIDE PRESSURE TREATED OR WOLMANIZED LUMBER WHERE LUMBER IS IN CONTACT WITH CONCRETE AND/OR GROUTED MASONRY OR IS EXPOSED TO WEATHER.
- THE MINIMUM ALLOWABLE PROPERTIES FOR WOOD DECKING ARE AS FOLLOWS:

FB = 2600 PSI	FV = 285 PSI	E = 1,800,000 PSI
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- SHEATHING FOR ROOFS SHALL BE 5/8" APA RATED SHEATHING 32/16 EXPOSURE 1 OR SIMILARLY RATED ORIENTED STRAND BOARD (OSB). SHEATHING FOR FLOORS SHALL BE 3/4" APA RATED STURD-FLOOR 20 OIC EXPOSURE 1 T&G, OR SIMILARLY RATED ORIENTED STRAND BOARD (OSB).
- ALL JOINTS IN SHEATHING SHALL BE STAGGERED, ALL EDGES IN FLOOR SHEATHING SHALL BE TONGUE & GROOVE, FOR ROOF SHEATHING, USE PANEL CLIPS, TONGUE & GROOVE, LUMBER BLOCKING EDGE SUPPORTS AS RECOMMENDED BY APA. NAILING SHALL COMPLY WITH APA REQUIREMENTS FOR PLYWOOD FLOOR/ROOF DIAPHRAGMS, UNLESS NOTED OTHERWISE ON DRAWINGS.

STEEL

- ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST AISC CODE. ALL CONNECTIONS, INCLUDING AT 185 SECTIONS, SHALL BE DESIGNED AND DETAILED IN ACCORDANCE WITH THE LATEST AISC CODE. UNLESS INDICATED OTHERWISE ON CONTRACT DOCUMENTS, IN ADDITION TO THE SHEAR CONNECTION, INCLUDE AS A MINIMUM, 45X45 ANGLES TOP AND BOTTOM OR EPLATE AT ALL 185 BEAM/ROOF TO COLUMN CONNECTIONS. ALL WIDE FLANGE SHAPES SHALL BE ASTM A992. ALL OTHER STRUCTURAL STEEL SHALL BE ASTM A572 UNLESS NOTED OTHERWISE. ALL STEEL RECTANGULAR/SQUARE HOLLOW STRUCTURAL SECTIONS SHALL BE ASTM A500 GRADE C, F.Y. = 50 KSI. ALL STEEL ROUND HOLLOW STRUCTURAL SECTIONS SECTIONS SHALL BE ASTM A500 GRADE C, F.Y. = 48 KSI. ALL STEEL SHALL HAVE A SHOP COAT OF RUST INHIBITIVE PAINT. DELTEE PAINT ON ALL STEEL TO RECEIVE SPRAYED ON PREPROOFING AS NOTED ON ARCHITECTURAL DOCUMENTS. GROUT ALL WALL CAMBER UPWARD DURING FABRICATION AND ERECTION. ALL STEEL SHALL BE THOROUGHLY CLEANED IN ACCORDANCE WITH SSPC-SP3 PRIOR TO PAINTING.
- ALL SHOP AND FIELD WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS, AS DESCRIBED IN "AMERICAN WELDING SOCIETY'S STANDARD QUALIFICATION PROCEDURE", AWS 1, LATEST EDITION, TO PERFORM THE TYPE OF WORK REQUIRED.
- UNLESS OTHERWISE NOTED, ALL CONNECTIONS SHALL BE BOLTED WITH MINIMUM 3/4-INCH DIAMETER A325 OR A490 HIGH STRENGTH BEARING TYPE BOLTS OR WELDED. THE FABRICATOR IS RESPONSIBLE FOR THE SELECTION, DESIGN, AND DETAILING OF ALL CONNECTIONS, INCLUDING BUT NOT LIMITED TO MOMENT CONNECTIONS, BRACED FRAME CONNECTIONS, AND TRUSS CONNECTIONS, NOT FULLY DETAILED ON THE CONTRACT DRAWINGS. THIS INCLUDES TO DESIGN, DETAIL, FURNISH, AND INSTALL STIFFENERS, CONTINUITY PLATES, DOUBLER PLATES, OR OTHER NECESSARY ADDITIONAL LOCAL STRENGTHENING MEASURES AS REQUIRED. MEMBER SIZES INDICATED ON THE DRAWINGS ARE BASED ON MEMBER BEHAVIOR AWAY FROM CONNECTIONS. USE FULL DEPTH DOUBLE ANGLE CONNECTIONS ON ALL ORDER AND BEAM CONNECTIONS TO COLUMNS. BOLTS SHALL BE AT 3 INCH OIC VERTICALLY. NAIL BEAM CONNECTIONS MAY BE ONE-ENDED CONNECTIONS, UNLESS NOTED OTHERWISE. ALL GRAVITY MOMENT CONNECTIONS SHALL BE BOLTED WITH MINIMUM 3/4-INCH DIAMETER A325 OR A490 HIGH STRENGTH SLIP CRITICAL BOLTS OR WELDED.
- UNLESS OTHERWISE NOTED, DETAILS INDICATED ON DRAWINGS INDICATE GENERAL CRITERIA FOR DESIGN AND DETAILING OF CONNECTIONS. DETAILS INDICATED ON DRAWINGS ARE NOT INTENDED TO CONVEY COMPLETE CONNECTION SIZES, PLATE SIZES, WELD SIZES, NUMBER OF BOLTS, OR ANY OTHER SPECIFIC INFORMATION THAT IS OBTAINED THROUGH DESIGNING OF AN INDIVIDUAL CONNECTION FOR A GIVEN SET OF LOADS. THESE DETAILS DO NOT SHOW ERECTION AIDS. PROVIDE ERECTION AIDS AS REQUIRED AND REMOVE THEM AFTER WORK IS COMPLETE.
- ALL ANCHOR RODS TO BE ASTM F1554 GRADE 36, UNLESS NOTED OTHERWISE.
- ALL ALUMINUM AND STEEL MEMBERS SHALL BE TREATED OR PROPERLY SEPARATED TO PREVENT GALVANIC AND CORROSIVE EFFECTS.
- ALL STEEL WELDING RODS SHALL BE E70XX.
- SUBMIT ALL STEEL SHOP DRAWINGS FOR REVIEW PRIOR TO ANY FABRICATION. SHOP DRAWINGS SHALL SHOW COMPLETE BOLTING AND WELDING INFORMATION, BOTH SHOP AND FIELD. ALL WELDING INFORMATION SHALL USE AMERICAN WELDING SOCIETY SYMBOLS. SHOP OR FIELD SPLICING OF ANY STRUCTURAL STEEL SECTION WHERE NOT DETAILED ON THE CONTRACT DOCUMENTS IS STRICTLY PROHIBITED WITHOUT PRIOR WRITTEN APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD.
- STEEL FABRICATOR IS SOLELY RESPONSIBLE FOR SURVEYING AND VERIFICATION OF EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO THE LOCATION, ELEVATION, AND DIMENSIONS OF EXISTING WALLS AND FRAMING.
- ALL LINTELS AND SHELF ANGLES WITHIN EXTERIOR WALLS SHALL BE HOT DIP GALVANIZED.
- ANY POINTS OF WELDING SHALL BE TOUCHED UP IN THE FIELD WITH A ZINC-RICH PAINT BY THE STEEL ERECTOR.
- ALL EXPOSED STEEL, INCLUDING BUT NOT LIMITED TO DUNNAGE FRAMING, SCREEN WALL FRAMING, CANOPY FRAMING, ETC. SHALL BE HOT DIP GALVANIZED. ANY POINTS OF WELDING SHALL BE TOUCHED UP IN THE FIELD WITH A ZINC-RICH PAINT BY THE STEEL ERECTOR.
- PROVIDE WELDED STIFFENER PLATES ON BOTH SIDES OF THE WEB OF BEAMS AT POINTS OF CONCENTRATED LOADS INCLUDING BEAMS, SUPPORTING COLUMNS OR RUNNING OVER THE TOPS OF COLUMNS, OR OTHER BEAMS. MINIMUM STIFFENER PLATE THICKNESS SHALL BE 3/8 INCH OR FLANGE THICKNESS OF COLUMN ABOVE OR BELOW OR BEAM WEB THICKNESS ABOVE OR BELOW, WHICHEVER IS GREATER.
- ALL POST-INSTALLED EXPANSION ANCHORS FASTENED INTO CONCRETE SHALL BE HELIX/Kwik BOLT Z WITH MATERIAL TYPE, DIAMETER, AND EMBEDMENT PER DOCUMENT, UNLESS NOTED OTHERWISE. ALL POSTERIORLY INSTALLED ADHESIVE ANCHORS FASTENED INTO CONCRETE AND REINFORCING BAR DOWELING INTO CONCRETE SHALL USE HELIX/RE-500-V EPOXY ADHESIVE ANCHORING SYSTEM IN HAMMER-DRILLED HOLES WITH 1/8" DIA. TYPE, DIAMETER, EMBEDMENT, AND SPACING PER DOCUMENTS, UNLESS NOTED OTHERWISE.
- ALL PIPING RUNS LARGER THAN 4" DIAMETER SHALL BE HUNG DIRECTLY FROM STEEL BEAM/JOISTS AND NOT THE CONCRETE SLAB/METAL DECK SYSTEM. ALL PIPING RUNS LARGER THAN 4" DIAMETER SHALL BE FROM EACH STEEL BEAM/JOIST AND NOT BASED ON MAXIMUM ALLOWABLE SPAN OF PIPING. ANY SUPPLEMENTAL STEEL REQUIRED FOR BUILDING SYSTEMS (MECHANICAL, ELECTRICAL, PLUMBING, ETC.) IS NOT BY SLATE STRUCTURAL ENGINEERS.
- STEEL FABRICATOR/SUPPLIER SHALL COMPLY WITH THE PENNSYLVANIA STEEL PRODUCTS PROCUREMENT ACT.

DESIGN LOADS

- GRAVITY - DEAD LOADS  
ROOF DEAD LOAD  
W.R.T.  
CEILING  
MEP  
COLLATERAL  
TOTAL  
5 PSF  
5 PSF  
3 PSF  
3 PSF  
20 PSF
- GRAVITY - LIVE LOADS  
FLOOR LIVE LOAD  
ROOF LIVE LOAD  
100 PSF  
30 PSF  
30 PSF
- SNOW LOADS  
GROUNDS SNOW LOAD (PSI)  
SNOW EXPOSURE FACTOR (E)  
SNOW LOAD IMPORTANCE FACTOR (I)  
THERMAL FACTOR (T)  
FLAT ROOF SNOW LOAD (PSI)  
30 PSF  
1.0  
1.0  
1.0  
21 PSF
- LATERAL LOADS  
WIND  
BASIC WIND SPEED (3 SEC. GUST)  
RISK CATEGORY  
EXPOSURE CATEGORY  
10 MPH  
1  
C
- SEISMIC  
IMPORTANCE FACTOR (I)  
SHORT PERIOD SPECTRAL ACCELERATION (Ss)  
SECOND PERIOD SPECTRAL ACCELERATION (Ss1)  
RISK CATEGORY  
SEISMIC DESIGN CATEGORY  
SITE CLASSIFICATION  
SEISMIC FORCE-RESISTING SYSTEM  
RESPONSE MODIFICATION COEFFICIENT (R)  
DEFLECTION AMPLIFICATION FACTOR (Cd)  
SEISMIC BASE SHEAR (V)  
ANALYSIS PROCEDURE  
1.0  
0.149  
0.0869  
1  
B  
II  
1.34  
1.0K  
EQUVALENT LATERAL FORCE PROCEDURE

CONCRETE/STEEL LINTEL SCHEDULE

(NON-BEARING WALLS)

WIDTH OF OPENING	STEEL FOR EACH 4" OF WALL THICKNESS	REINF. CONC. FOR EACH 4" OF WALL THICKNESS	REMARKS
UP TO 2'-11"	L3 1/2x3 1/2x5/16	(1) #4 TOP & BOTTOM	
3'-0" TO 3'-11"	L4x3 1/2x5/16	(1) #4 TOP & BOTTOM	
4'-0" TO 5'-11"	L5x3 1/2x5/16	(1) #4 TOP & BOTTOM	
6'-0" TO 8'-0"	L6x3 1/2x5/16	(1) #5 TOP & BOTTOM	
8'-1" TO 10'-0"	L8x3 1/2x3/8	(1) #5 TOP & BOTTOM	

NOTES:

- ALL STEEL LINTELS SHALL BE ASTM A-36.
- ALL CONCRETE LINTELS SHALL BE 4000 PSI CONCRETE AT 28 DAYS WITH GRADE 60 REINFORCING.
- FILL CMU VOIDS SOLID (2) COURSES BELOW LINTEL BEARING.
- ALL LINTELS SHALL HAVE 8" MINIMUM BEARING U.N.O.
- ALL CONCRETE LINTELS SHALL BE 6" DEEP, U.N.O.

LINTEL SCHEDULE

(BEARING WALLS)

MARK	STEEL	REMARKS
L1	(2) 5 x 3-1/2 x 5/16 (LBB)	
.	.	.
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.	.	.
.	.	.

NOTES:

- ALL LINTELS SHALL HAVE 8" MINIMUM BEARING U.N.O.
- ALL LINTELS TO BE HOT-DIP GALVANIZED.

WALL FOOTING SCHEDULE

MARK	DIMENSIONS		REINFORCING
	WIDTH	DEPTH	
F20.12	2'-0"	1'-0"	(3) #4 LWB, #4@24" SWB

TYPICAL ABBREVIATIONS

A.B.	ANCHOR BOLT	L.P.	LOW POINT
A.F.F.	ABOVE FINISH FLOOR	L.W.	LIGHT WEIGHT
ADDL.	ADDITIONAL	LLH	LONG LEG HORIZONTAL
ALT.	ALTERNATE	LLV	LONG LEG VERTICAL
ARCH.	ARCHITECT	LWB	LONG WAY BOTTOM
B.C.E.	BOTTOM CHORD EXTENSION	M.E.P.	MECHANICAL ELECTRICAL PLUMBING
B.O.	BOTTOM OF	M.S.T.	METAL STUD TRUSS
BLDG.	BUILDING	MAX.	MAXIMUM
BM.	BEAM	MECH.	MECHANICAL
BOTT.	BOTTOM	MEZZ.	MEZZANINE
BRG.	BEARING	MFR.	MANUFACTURER
BSMT.	BASEMENT	MIN.	MINIMUM
BP.	BEARING PLATE	MISC.	MISCELLANEOUS
BTWN.	BETWEEN	MP.	MASONRY PIER
CL.	CENTERLINE	NBL.	NON BEARING LINTEL
CANT.	CANTILEVER	N.T.S.	NOT TO SCALE
CMU	CONCRETE MASONRY UNIT	N.W.	NORMAL WEIGHT
COL.	COLUMN	o/c	ON CENTER
CONC.	CONCRETE	P.A.F.	POWDER ACTUATED FASTENER
CONN.	CONNECTION	PL	PLATE
CONT.	CONTINUOUS	PC	PILE CAP
CTR.	CENTERED	P/C	PRECAST
Ø	DIAMETER	PSF	POUNDS PER SQUARE FOOT
DWG.	DRAWING	PSI	POUNDS PER SQUARE INCH
E.F.	EACH FACE	PTN.	PARTITION
E.O.D.	EDGE OF DECK	R.E.	RIGHT END
E.O.S.	EDGE OF SLAB	REINF.	REINFORCEMENT
E.W.	EACH WAY	REQ'D.	REQUIRED
EA.	EACH	RET'G.	RETAINING
EL.	ELEVATION	S.F.	STEP FOOTING
ELEV.	ELEVATOR	S.O.G.	SLAB ON GRADE
EMBED.	EMBEDMENT	SCHED.	SCHEDULE
EQ.	EQUAL	SECT.	SECTION
EQUIP.	EQUIPMENT	SIM.	SIMILAR
EWB	EACH WAY BOTTOM	SL	SLOPE
EWT	EACH WAY TOP	SPECS.	SPECIFICATIONS
Ex.	EXISTING	STIFF.	STIFFENER
EXIST.	EXISTING	STRUT.	STRUCTURAL
EXP.	EXPANSION	SWB	SHORT WAY BOTTOM
EXT.	EXTERIOR	T&B	TOP AND BOTTOM
FDN.	FOUNDATION	T.	TOP
FIN.	FINISH	T.O.	TOP OF
FLR.	FLOOR	T.O.C.	TOP OF CONCRETE
FT.	FEET	T.O.S.	TOP OF STEEL
FTG.	FOOTING	T.S.	THICKENED SLAB
GA.	GAGE	TCELE	TOP CHORD EXTENSION LEFT END
GALV.	GALVANIZED	TCERE	TOP CHORD EXTENSION RIGHT END
GB.	GRADE BEAM	TDS	TURN DOWN SLAB
H.P.	HIGH POINT	THK.	THICK OR THICKENED
HORIZ.	HORIZONTAL	TYP.	TYPICAL
I.F.	INSIDE FACE	U.N.O.	UNLESS NOTED OTHERWISE
IN.	INCHES	V.I.F.	VERIFY IN FIELD
INFO.	INFORMATION	V.	VERTICAL
INT.	INTERIOR	W.R.T.	WOOD ROOF TRUSS
JT.	JOINT	w/	WITH
k	KIP	WC	WET COLUMN
k-ft	KIP-FEET	WP	WALL PLATE
L.E.	LEFT END	WWF	WELDED WIRE FABRIC