



**TYPICAL 12-INCH LINTEL
PRECAST CONCRETE**

GENERAL NOTES:

- 1.) CODES
 - 1.1 FLORIDA BUILDING CODE 8th EDITION, 2023 RESIDENTIAL SECTIONS R402.2 & R606.
 - 1.2 FLORIDA BUILDING CODE, 8th EDITION, 2023 BUILDING SECTIONS 1901.2 & 2107.
 - 1.3 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-19).
 - 1.4 BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (TMS 402-16).
 - 1.5 SPECIFICATIONS REQUIREMENTS FOR MASONRY STRUCTURES (TMS 602-16).
 - 1.6 AMERICAN SOCIETY OF CIVIL ENGINEERS MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES (ASCE 7-22).
- 2.) CONCRETE:
 - 2.1 CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS:
 - 2.1.1 PRE-CAST WITH STANDARD REINFORCEMENT - 6,000PSI
 - 2.1.2 PRE-CAST WITH PRESTRESS REINFORCEMENT - 6,000PSI
 - 2.1.3 GROUT PER ASTM C476 f'c=3,000PSI WITH MAXIMUM 3/8" AGGREGATE AND 8" TO 11" SLUMP.
 - 2.2 REINFORCING BARS:
 - 2.2.1 STEEL PLACED IN PRE-CAST LINTEL AT TIME OF FABRICATION ASTM A615 (GRADE 60).
 - 2.2.2 STEEL IN LINTEL AND KNOCKOUT BLOCK (PLACED IN FIELD) ASTM A615 (GRADE 40).
 - 2.3 PRESTRESS STANDS ASTM A416 7-WIRE, STRESS RELIEVED 270KSI.
 - 2.4 DETAIL REINFORCEMENT IN ACCORDANCE WITH ACI 315.
 - 2.5 CONCRETING OPERATIONS SHALL COMPLY WITH ACI STANDARDS.
- 3) MASONRY:
 - 3.1 CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO ASTM C-90, NORMAL WEIGHT WITH MINIMUM NET AREA COMPRESSIVE STRENGTH 2,000PSI.
 - 3.2 MORTAR SHALL CONFORM TO ASTM C-270 TYPE "M" OR "S".
 - 3.3 FULL MORTAR JOINTS ARE REQUIRED.
 - 3.4 MINIMUM AGGREGATE 28-DAY COMPRESSIVE STRENGTH OF CMU AND MORTAR SHALL NOT BE LESS THAN f'm = 2,000 PSI. MASONRY STRENGTH SHALL BE ESTABLISHED BY THE "UNIT STRENGTH METHOD" OR, ALTERNATIVELY BY THE "PRISM TEST METHOD" WHERE UNIT STRENGTH METHOD REQUIREMENTS HAVE NOT BEEN MET.
- 4) STRUCTURAL:
 - 4.1 SAFE LOAD VALUES ARE BASED ON LINTELS HAVING A BEARING OF 8" (WITH A MINIMUM ACCEPTABLE BEARING OF 4" FOR FILLED LINTELS AND 6 1/2" FOR UNFILLED LINTELS IN DIRECTION OF SPAN PER TMS 402-16 SECTION 4.3.4).
 - 4.2 SAFE LOAD VALUES ARE BASED ON RATIONAL DESIGN ANALYSIS PER ACI 318 AND TMS 402.
 - 4.3 DESIGNER MAY EVALUATE CONCENTRATED LOADS FROM THE SAFE LOAD TABLES BY CALCULATING MAXIMUM RESISTING MOMENT AND SHEAR AT d DISTANCE AWAY FROM THE FACE OF THE SUPPORT.
 - 4.4 LINTELS THAT ARE GREATER THAN 14'-0" CLEAR SPAN MUST BE PROVIDED TEMPORARY SUPPORT AND NOT BE REMOVED UNTIL TWO (2) DAYS AFTER GROUT PLACEMENT.
 - 4.5 FOR LINTEL LENGTH AT 6'-6" OR GREATER, VERTICAL CELL FILLED SOLID WITH GROUT AND MINIMUM ONE (1) #5 VERTICAL REBAR IS REQUIRED AT EACH END OF THE LINTEL.
 - 4.6 FOR COMPOSITE LINTEL HEIGHTS NOT SHOWN, USE SAFE LOAD FROM NEXT LOWER HEIGHT SHOWN.



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Samuel A. Greenberg, PE the date shown using a Digital
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 6423 RUBIA CIRCLE APOLLO BEACH - FLORIDA - 33512 PHONE - (813) 917 1524 8AM@DEPE@AOL.COM	8" x 8" PRECAST/PRESTRESSED LINTEL TABLE	
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