



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Cast-Crete USA, LLC
6324 County Road 579
Seffner, Florida 33584

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER- Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: "Cast-Crete" 8 inch High Strength Precast and Pre-stressed Concrete Lintels

APPROVAL DOCUMENT: Drawing No. FD8, titled "Cast-Crete 8" Lintel Fabrication Details", sheets 1 through 3 of 3, prepared by Craig Parrino, P.E., dated June 7, 1996, last revision dated June 12, 2014, signed and sealed by Craig Parrino, P.E., on January 22, 2019, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each lintel shall bear a permanent label with the manufacturer's name or logo and the Miami-Dade County logo.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # 17-0821.19 and consists of this page 1, evidence submitted pages E-1, E-2, E-3, E-4, E-5 & E-6 as well as approval document mentioned above.

The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**



Helmy A. Makar
03/28/2019

NOA No. 19-0130.13
Expiration Date: 05/21/2022
Approval Date: 03/28/2019
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #96-0613.01

A. DRAWINGS

1. *Drawing No. FD8, titled "Cast-Crete 8" Lintel Fabrication Details", prepared by Craig Parrino, P.E., dated 06/07/96, revision #1 dated 11/08/96, sheet 1 of 1, and Drawing No. LT8, titled "Cast-Crete 8" Lintel Safe Load Tables", prepared by Craig Parrino, P.E., dated 06/07/97, revision #4 dated 04/28/98, sheet 1 of 1, both drawings signed and sealed by Craig Parrino, P.E.*

B. TESTS

1. *Test report on flexural testing on Precast and Pre-stressed Concrete Lintels Filled Models, total of (36) concrete lintel specimens, per ASTM E-529-94, prepared by Applied Research Laboratories, Report No. 29702B, dated 07/30/97, signed and sealed by Christopher A. Hamon, P.E.*

C. CALCULATIONS

1. *Calculations for Cast-Crete 8-inch Lintels, dated 06/06/96, 349 pages, prepared by Craig Parrino, P.E., signed and sealed by Craig Parrino, P.E.*
2. *Calculations for Cast-Crete 8-inch Lintels, dated 11/11/96, 45 pages, prepared by Craig Parrino, P.E., signed and sealed by Craig Parrino, P.E.*

D. MATERIAL CERTIFICATIONS

1. *Mill Certified Inspection Report Silo #4 dated April 1996 for cement by Southdown Brooksville Cement Laboratory.*
2. *Mill Certified Inspection Report #20-8275 dated 06/20/95 for pre-stressing strand by The Crispin Company.*
3. *Mill Certified Inspection Report #20-8345 dated 11/13/95 for pre-stressing strand by The Crispin Company.*
4. *Mill Certified Inspection Report #2111-078240 dated 04/25/96 for #3 rebar by Ameristeel.*
5. *Mill Certified Inspection Report #84-M19614 dated 02/29/96 for #5 rebar by Birmingham Steel Corp.*
6. *Mill Certified Inspection Report #58-A66332 dated 01/28/96 for #4 rebar by Birmingham Steel Corp.*
7. *Mill Certified Inspection Report #84-M20749 dated 04/05/96 for #5 rebar by Birmingham Steel Corp.*
8. *Mill Certified Inspection Report #84-M19805 dated 03/06/96 for #4 rebar by Birmingham Steel Corp.*
9. *Mill Certified Inspection Report #84-M21208 dated 04/21/96 for #4 rebar by Birmingham Steel Corp.*
10. *Mill Certified Inspection Report #84-M20652 dated 04/03/96 for #5 rebar by Birmingham Steel Corp.*



Helmy A. Makar, P.E., M.S.
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11. *Mill Certified Inspection Report #84-M20749 dated 04/05/96 for #5 rebar by Birmingham Steel Corp.*
12. *Quality Control Manual for Cast-Crete Machine Made Precast Lintels dated 05/14/96.*
13. *Quality Control Manual for Pre-stressed Products dated 03/20/95.*

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #01-0209.03

A. DRAWINGS

1. *None.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. MATERIAL CERTIFICATIONS

1. *None.*

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 03-0605.05

A. DRAWINGS:

1. *Drawing No. FD8, titled "Cast-Crete 8" Lintel Fabrication Details", sheet 1 of 1, prepared by Craig Parrino, P.E., dated June 7, 1996, revision #2 dated January 28, 2003, and Drawing No. LT8, titled "Cast-Crete 8" Lintel Safe Load Tables", sheets 1 & 2 of 2, prepared by Craig Parrino, P.E., dated June 7, 1996, revision #5 dated March 24, 2003, all drawings are signed and sealed by Craig Parrino, P.E.*

B. TESTS:

1. *Test report on flexural testing on Precast Concrete Lintels Filled Models, total of (12) concrete lintel specimens, per ASTM E-529-94, prepared by Applied Research Laboratories, Report No. 30404B, dated 04/23/03, signed and sealed by Christopher A. Hamon, P.E.*

C. CALCULATIONS:

1. *Calculations for Cast-Crete High Strength Precast and Pre-stressed 8-inch Lintels, dated May 29, 2003, sheets 1.1 through 1.493 and 2.1 through 2.336, prepared by Craig Parrino, P.E., signed and sealed by Craig Parrino, P.E.*

D. MATERIAL CERTIFICATION:

1. *Quality System Manual for Cast-Crete Machine Made Precast Lintels revised on May 01, 2002.*
2. *Cast-Crete Quality System Manual for Pre-stressed Products dated 2002.*



Helmy A. Makar, P.E., M.S.

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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #06-0222.01

A. DRAWINGS

1. *Drawing No. FD8, titled "Cast-Crete 8" Lintel Fabrication Details", sheets 1 through 3 of 3, prepared by Craig Parrino, P.E., dated June 7, 1996, last revision dated February 17, 2006, signed and sealed by Craig Parrino, P.E.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade Building Code Compliance Office.*

E. MATERIAL CERTIFICATION

1. *None.*

F. OTHER

1. *Letter from Cast-Crete Corporation, dated 02/20/2006, signed by Craig Parrino, P.E.*

5. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 11-0121.04

A. DRAWINGS

1. *None.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade Building and Neighborhood Compliance Department (BNC).*

E. MATERIAL CERTIFICATION

1. *None.*

F. OTHER

1. *Letter from Cast-Crete Corporation, dated January 18, 2011, signed by Craig Parrino, P.E., certifying compliance with the Florida Building Code, 2007 Edition.*



Helmy A. Makar, P.E., M.S.

Product Control Section Supervisor

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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

6. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #12-0209.13

A. DRAWINGS

1. *Drawing No. FD8, titled "Cast-Crete 8" Lintel Fabrication Details", sheets 1 through 3 of 3, prepared by Craig Parrino, P.E., dated June 7, 1996, last revision dated February 17, 2006, signed and sealed by Craig Parrino, P.E., on March 22, 2012.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Department of Permitting, Environment, and Regulatory Affairs.*

E. MATERIAL CERTIFICATION

1. *None.*

F. OTHER

1. *Letter from Cast-Crete Corporation, dated 02/03/2012, signed and sealed by Craig Parrino, P.E., certifying compliance with the Florida Building Code, 2010 Edition.*

7. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #14-0903.02

A. DRAWINGS

1. *Drawing No. FD8, titled "Cast-Crete 8" Lintel Fabrication Details", sheets 1 through 3 of 3, prepared by Craig Parrino, P.E., dated June 7, 1996, last revision dated June 12, 2014, signed and sealed by Craig Parrino, P.E., on August 19, 2014.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *Calculations for High Strength Precast and Pre-stressed 8-inch Lintels, dated August 19, 2014, sheets 14.101 through 14.124, prepared, signed, sealed by Craig Parrino, P.E.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Department of Regulatory and Economic Resources (RER).*

E. MATERIAL CERTIFICATION

1. *None.*

F. OTHER

1. *Letter from Cast-Crete USA, Inc., dated August 19, 2014, signed and sealed by Craig Parrino, P.E., certifying compliance with the Florida Building Code, 2014 Edition.*



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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

8. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #16-0126.03

A. DRAWINGS

1. *None.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Department of Regulatory and Economic Resources (RER).*

E. MATERIAL CERTIFICATION

1. *None.*

F. OTHER

1. *Letter from Cast-Crete USA, Inc., dated January 13, 2016, signed and sealed by Craig Parrino, P.E., certifying compliance with the Florida Building Code, 2014 Edition.*

9. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #17-0227.15

A. DRAWINGS

1. *None.*

B. TESTS

1. *Verification Test report on flexural testing on Precast Concrete Lintels Filled Models, total of (8) concrete lintel specimens, per ASTM E-529-94, prepared by FTL, Report No. 16-0425.08, dated 01/26/17, signed and sealed by Idalmis Ortega, P.E.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Department of Regulatory and Economic Resources (RER).*

E. MATERIAL CERTIFICATION

1. *None.*



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Cast-Crete USA, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

10. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #17-0821.19

A. DRAWINGS

1. *None.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Department of Regulatory and Economic Resources (RER).*

E. MATERIAL CERTIFICATION

1. *None.*

F. OTHER

1. *Letter from Cast-Crete USA, Inc., dated August 08, 2017, signed and sealed by Craig Parrino, P.E., certifying compliance with the Florida Building Code, 2017 Edition.*

11. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. FD8, titled "Cast-Crete 8" Lintel Fabrication Details", sheets 1 through 3 of 3, prepared by Craig Parrino, P.E., dated June 7, 1996, last revision dated June 12, 2014, signed and sealed by Craig Parrino, P.E., on January 22, 2019.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE


1. *By Miami-Dade County Department of Regulatory and Economic Resources (RER).*

E. MATERIAL CERTIFICATION

1. *None.*

F. OTHER

1. *Article of Conversion for a name change.*



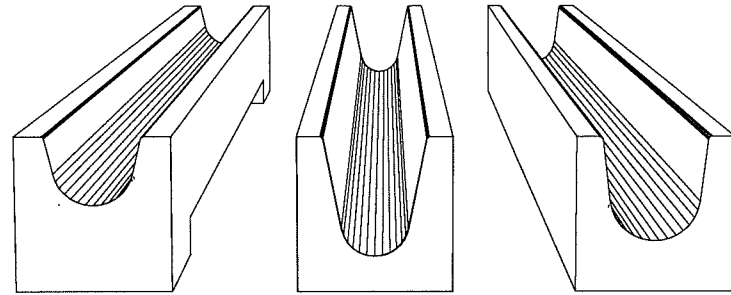
Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor

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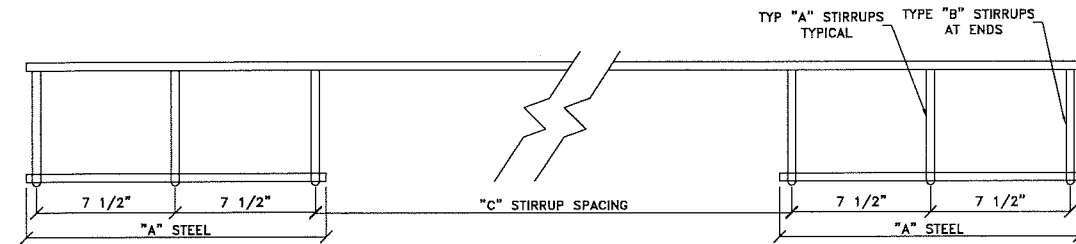
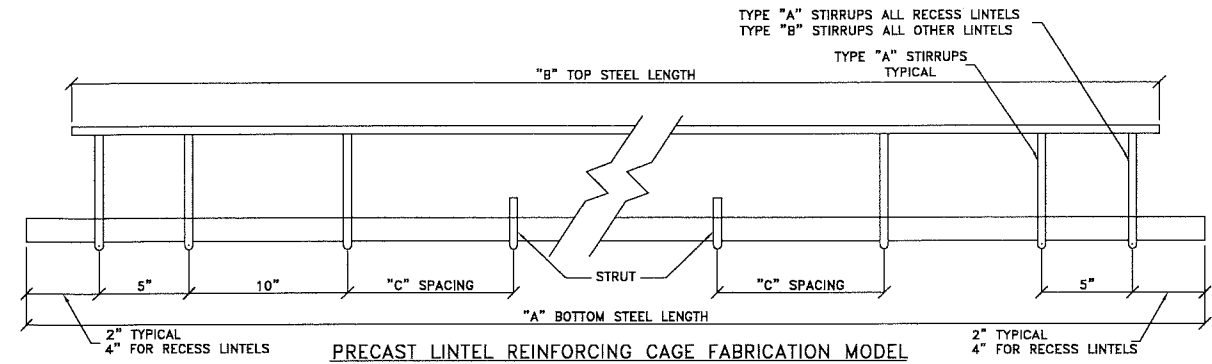
Expiration Date: 05/21/2022

Approval Date: 03/28/2019

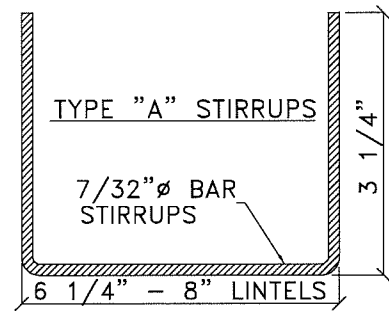
CAST-CRETE® HIGH STRENGTH PRECAST AND PRESTRESSED CONCRETE LINTELS



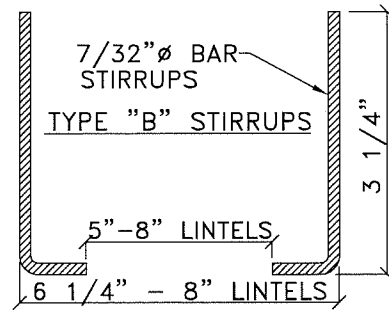
8" PRECAST W/ 2" RECESS DOOR U-LINTEL 8" PRECAST U-LINTEL 8" PRESTRESSED U-LINTEL



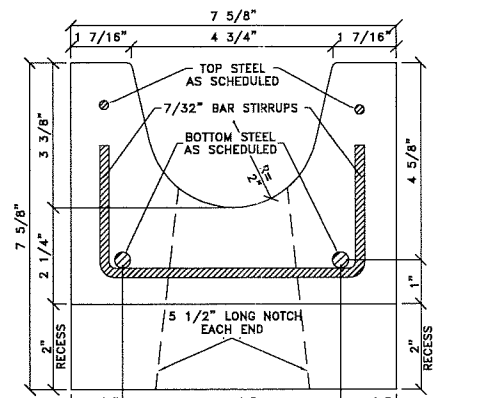
PRESTRESSED LINTEL REINFORCING CAGE FABRICATION MODEL



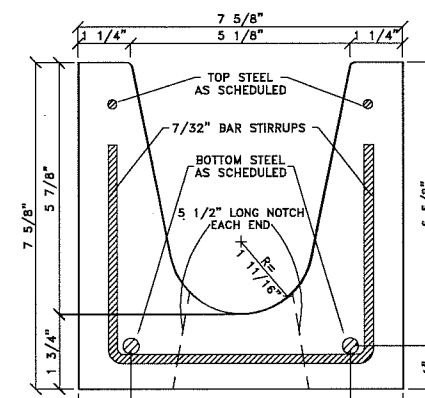
STIRRUP DETAILS
SCALE: N.T.S.



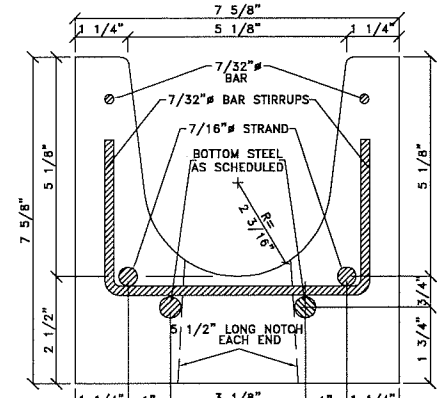
STIRRUP DETAILS
SCALE: N.T.S.



8" PRECAST W/ 2" RECESS DOOR U-LINTEL
SCALE: N.T.S.



8" PRECAST U-LINTEL
SCALE: N.T.S.



8" PRESTRESSED U-LINTEL
SCALE: N.T.S.

8" PRESTRESSED U-LINTEL DATA TABLE

LINTEL SIZE	VOLUME CY	WEIGHT LBS	"A" STEEL		"B" TOP STEEL		"C" SPACING	NO. OF STIRRUPS
			TYPE	LENGTH	TYPE	LENGTH		
14'-8"	0.134	542	7/32 BAR	1'-3"	7/32 BAR	14'-6"	4 @ 3'-0"	9
15'-4"	0.140	567	7/32 BAR	1'-3"	7/32 BAR	15'-2"	4 @ 3'-2"	9
17'-4"	0.158	639	7/32 BAR	1'-3"	7/32 BAR	17'-2"	4 @ 3'-8"	9
19'-4"	0.176	713	7/32 BAR	1'-3"	7/32 BAR	19'-2"	4 @ 4'-2"	9
21'-4"	0.194	787	7/32 BAR	1'-3"	7/32 BAR	21'-2"	5 @ 3'-8 3/4"	10
			#4 REBAR MIDSPAN	15'-0"				
22'-0"	0.200	811	7/32 BAR	1'-3"	7/32 BAR	21'-10"	5 @ 3'-10 3/8"	10
			#4 REBAR MIDSPAN	16'-0"				
24'-0"	0.219	885	7/32 BAR	1'-3"	7/32 BAR	23'-10"	5 @ 4'-3 1/8"	10
			#4 REBAR MIDSPAN	18'-0"				

8" PRECAST W/ 2" RECESS DOOR U-LINTEL DATA TABLE

LINTEL SIZE	OVERALL LENGTH	RECESS LENGTH	VOLUME CY	WEIGHT LBS	"A" BOTTOM STEEL		"B" TOP STEEL		"C" SPACING	NO. OF STIRRUPS
					TYPE	LENGTH	TYPE	LENGTH		
2'-8"	4'-4"	3'-0"	0.036	146	#3 REBAR	3'-10" PLUS HOOK	7/32 BAR	3'-8"	N/A	4
3'-0"	4'-6"	3'-4"	0.037	150	#3 REBAR	4'-0" PLUS HOOK	7/32 BAR	3'-10"	N/A	4
4'-0"	5'-8"	4'-4"	0.047	190	#3 REBAR	5'-0" PLUS HOOK	7/32 BAR	5'-0"	N/A	6
4'-4"	5'-10"	4'-8"	0.047	190	#3 REBAR	5'-4" PLUS HOOK	7/32 BAR	5'-2"	N/A	6
5'-0"	6'-8"	5'-4"	0.054	219	#4 REBAR	6'-0" PLUS HOOK	#3 REBAR	6'-0"	N/A	6
6'-0"	7'-6"	6'-4"	0.060	243	#4 REBAR	7'-0" PLUS HOOK	#3 REBAR	6'-10"	N/A	6
8'-0"	9'-8"	8'-4"	0.078	316	#4 REBAR	9'-2" PLUS HOOK	#3 REBAR	9'-0"	2'-0"	8

8" PRECAST U-LINTEL DATA TABLE

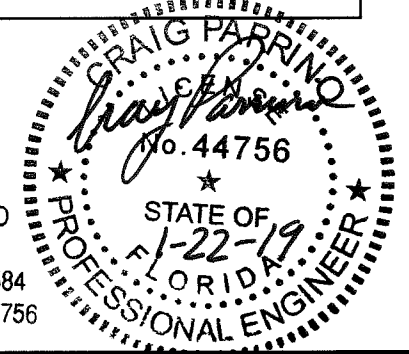
LINTEL SIZE	VOLUME CY	WEIGHT LBS	"A" BOTTOM STEEL		"B" TOP STEEL		"C" SPACING	NO. OF STIRRUPS
			TYPE	LENGTH	TYPE	LENGTH		
3'-6"	0.032	126	#3 REBAR	3'-5"	7/32 BAR	3'-2"	N/A	4
4'-0"	0.037	144	#3 REBAR	3'-11"	7/32 BAR	3'-8"	N/A	4
4'-6"	0.041	162	#3 REBAR	4'-5"	7/32 BAR	4'-2"	N/A	4
5'-4"	0.049	192	#3 REBAR	5'-3"	7/32 BAR	5'-0"	N/A	6
5'-10"	0.054	210	#3 REBAR	5'-9"	7/32 BAR	5'-6"	N/A	6
6'-6"	0.060	234	#4 REBAR	6'-5"	7/32 BAR	6'-2"	N/A	6
7'-6"	0.069	270	#4 REBAR	7'-5"	7/32 BAR	7'-2"	N/A	6
9'-4"	0.086	336	#4 REBAR	9'-3"	#3 REBAR	9'-0"	2'-0"	8
10'-6"	0.096	378	#4 REBAR	10'-5"	#3 REBAR	10'-2"	2'-0"	8
11'-4"	0.104	408	#5 REBAR	11'-3"	#3 REBAR	11'-0"	3'-0"	8
12'-0"	0.110	432	#5 REBAR	11'-11"	#3 REBAR	11'-8"	3'-0"	8
13'-4"	0.122	480	#5 REBAR	13'-3"	#3 REBAR	13'-0"	3'-0"	8
14'-0"	0.129	504	#5 REBAR	13'-11"	#3 REBAR	13'-8"	3'-0"	8

GENERAL NOTES:

- REINFORCING STEEL: 7/32 BAR ASTM A510; #3, #4, AND #5 REBAR GRADE 60 ASTM A615; 7/16 INCH DIAMETER 270KSI LOW-RELAXATION PRESTRESSING STRAND ASTM A416.
- CONCRETE STRENGTHS: $f'_c = 6000$ PSI FOR 8" PRESTRESSED LINTELS; $f'_c = 4000$ PSI FOR ALL PRECAST 8 INCH LINTELS.
- INITIAL PRESTRESS FORCE = $0.70 \times f_p \times A_p$.
- STRIPPING STRENGTH: PRESTRESSED LINTELS = 3500 PSI.
- NOTE: THE TOTAL NUMBER OF STIRRUPS REQUIRED IS COUNTED STARTING FROM EACH END OF THE REINFORCING CAGE; FOR EXAMPLE - NO. OF STIRRUPS = 4, THEN THE REINFORCING CAGE MODEL SHOWS 2 STIRRUPS FROM EACH END.
- 2.5 POUNDS OF POLYPROPYLENE FIBERS PER CU.YD. OF CONCRETE MAY BE USED IN LIEU OF PRESTRESSED LINTEL REINFORCING CAGE TO RESIST LIFTING AND HANDLING FORCES.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 19-0130-13
Expiration Date 05/21/2022
By *[Signature]*
Miami Dept Product Control

CRAIG PARRINO
6324 CR 579
SEFFNER, FL 33584
FL. P.E. LIC. NO. 44756



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NO.	BY	REVISION	DATE
1	CP	GENERAL REVISION NUMBER ONE	11/08/96
2	CP	GENERAL REVISION NUMBER TWO	1/28/03
3	CP	NAME CHANGE & SYNTHETIC FIBER OPTION	2/17/06
4	CP	GENERAL REVISION	6/12/14



TITLE: CAST-CRETE 8" LINTEL FABRICATION DETAILS			
FILE NAME: DBSUB1-14	DRAWN BY: CRAIG PARRINO, P.E. - REG. NO. 44756	SCALE: NOT TO SCALE	
DATE: 06/07/96	CHECKED BY: CRAIG PARRINO, P.E. - REG. NO. 44756	DRAWING No. FDB SHEET 1 OF 3	

SAFE GRAVITY LOADS FOR 8" PRECAST & PRESTRESSED U-LINTELS

LENGTH	TYPE	SAFE LOAD - POUNDS PER LINEAR FOOT							
		8U8	8F8-0B	8F12-0B	8F16-0B	8F20-0B	8F24-0B	8F28-0B	8F32-0B
3'-6" (42")	PRECAST	2231	3069	3719	5163	6607	8054	9502	10951
			3069	4605	6113	7547	8974	10394	11809
4'-0" (48")	PRECAST	1966	2561	2751	3820	4890	5961	7034	8107
			2693	4605	6113	7547	8974	10394	11809
4'-6" (54")	PRECAST	1599	1969	2110	2931	3753	4576	5400	6224
			2189	4375	6113	7547 (7)	8672	10294	11809
5'-4" (64")	PRECAST	1217	1349	1438	1999	2560	3123	3686	4249
			1663	3090	5365	7547 (36)	7342 (19)	8733 (19)	10127 (19)
5'-10" (70")	PRECAST	1062	1105	1173	1631	2090	2549	3009	3470
			1451	2622	4360	7168 (45)	6036 (19)	7181 (19)	8328 (20)
6'-6" (78")	PRECAST	908	1238	2177	3480	3031	3707	4383	5061
			1238	2177	3480	5381	8360	10394 (37)	8825 (14)
7'-6" (90")	PRECAST	743	1011	1729	2632	2205	2698	3191	3685
			1011	1729	2661	3898	5681	8467 (44)	6472 (15)
9'-4" (112")	PRECAST	554	699	1160	1625	2564	3486	2818	3302
			752	1245	1843	2564	3486	4705 (37)	6390 (47)
10'-6" (126")	PRECAST	475	535	890	1247	2093	2777	2163	2536
			643	1052	1533	2093	2781	3643 (36)	4754 (45)
11'-4" (136")	PRECAST	362	582	945	1366	1846	2423	3127	4006
			582	945	1366	1846	2423	3127	4006
12'-0" (144")	PRECAST	337	540	873	1254	1684	2193	2805	3552
			540	873	1254	1684	2193	2805	3552
13'-4" (160")	PRECAST	296	471	755	1075	1428	1838	2316	2883
			471	755	1075	1428	1838	2316	2883
14'-0" (168")	PRECAST	279	424	706	1002	1326	1697	2127	2630
			442	706	1002	1326	1697	2127	2630
14'-8" (176")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
15'-4" (184")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
17'-4" (208")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
19'-4" (232")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
21'-4" (256")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
22'-0" (264")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
24'-0" (288")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR

(#) THE NUMBERS IN PARENTHESIS ARE PERCENT REDUCTIONS FOR GRADE 40 FIELD ADDED REBAR. SEE GENERAL NOTE NO. 4 ON SHEET 3 OF 3.

SAFE LATERAL LOADS FOR 8" PRECAST & PRESTRESSED U-LINTELS

LENGTH	TYPE	SAFE LOAD PLF		
		8U8	8F8	RCMU *
3'-6" (42")	PRECAST	1025	1024	1598
4'-0" (48")	PRECAST	765	763	1309
4'-6" (54")	PRECAST	592	591	1073
5'-4" (64")	PRECAST	411	411	745
5'-10" (70")	PRECAST	340	339	616
6'-6" (78")	PRECAST	507	721	490
7'-6" (90")	PRECAST	424	534	363
9'-4" (112")	PRECAST	326	512	230
10'-6" (126")	PRECAST	284	401	180
11'-4" (136")	PRECAST	260	452	154
12'-0" (144")	PRECAST	244	402	137
13'-4" (160")	PRECAST	217	324	110
14'-0" (168")	PRECAST	205	293	100
14'-8" (176")	PRESTRESSED	N.R.	284	91
15'-4" (184")	PRESTRESSED	N.R.	259	83
17'-4" (208")	PRESTRESSED	N.R.	194	64
19'-4" (232")	PRESTRESSED	N.R.	148	52
21'-4" (256")	PRESTRESSED	N.R.	125	42
22'-0" (264")	PRESTRESSED	N.R.	116	40
24'-0" (288")	PRESTRESSED	N.R.	91	33

* SEE GENERAL NOTE NO. 18 ON SHEET 3 OF 3.

SAFE UPLIFT LOADS FOR 8" PRECAST & PRESTRESSED U-LINTELS

LENGTH	TYPE	SAFE LOAD - POUNDS PER LINEAR FOOT							
		8F8-1T	8F12-1T	8F16-1T	8F20-1T	8F24-1T	8F28-1T	8F32-1T	
3'-6" (42")	PRECAST	1569	2655	3524	4394	5263	6132	7001	
		1569	2655	3524	4394	5263	6132	7001	
4'-0" (48")	PRECAST	1363	2305	3060	3815	4570	5325	6079	
		1363	2305	3060	3815	4570	5325	6079	
4'-6" (54")	PRECAST	1207	2040	2707	3375	4043	4711	5379	
		1207	2040	2707	3375	4043	4711	5379	
5'-4" (64")	PRECAST	1016	1715 (11)	2276 (4)	2838	3399	3961	4522	
		1016	1715	2276	2838	3399	3961	4522	
5'-10" (70")	PRECAST	909	1567 (16)	2080 (13)	2593 (9)	3107 (6)	3620 (4)	4133 (3)	
		929	1567	2080	2593	3107	3620	4133	
6'-6" (78")	PRECAST	835 (12)	1407 (26)	1868 (21)	2329 (18)	2790 (16)	3251 (14)	3712 (12)	
		835	1407	1868	2329	2790	3251	3712	
7'-6" (90")	PRECAST	727 (23)	1065 (26)	1624 (31)	2025 (28)	2426 (26)	2827 (25)	3228 (24)	
		727	1224	1624	2025	2426	2827	3228	
9'-4" (112")	PRECAST	591	708 (25)	1136 (34)	1474 (34)	1815 (34)	2157 (34)	2500 (34)	
		591	862	1318	1643	1969	2294	2619	
10'-6" (126")	PRECAST	530	575 (24)	916 (33)	1188 (33)	1461 (33)	1736 (33)	2011 (33)	
		530	695	1180 (8)	1472 (4)	1763 (2)	2055	2346	
11'-4" (136")	PRECAST	474	504 (23)	800 (32)	1037 (32)	1274 (32)	1513 (32)	1753 (32)	
		494	607	1042 (10)	1372 (11)	1643 (6)	1915 (6)	2187 (5)	
12'-0" (144")	PRECAST	470 (9)	458 (23)	724 (31)	938 (32)	1153 (32)	1369 (32)	1585 (32)	
		470	550	940 (10)	1302 (15)	1560 (13)	1818 (11)	2075 (10)	
13'-4" (160")	PRECAST	418 (15)	386 (22)	607 (30)	785 (30)	964 (30)	1143 (31)	1323 (31)	
		428	460	780 (9)	1159 (21)	1418 (20)	1653 (19)	1887 (17)	
14'-0" (168")	PRECAST	384 (15)	358 (21)	560 (29)	724 (30)	889 (30)	1054 (30)	1220 (30)	
		410	425	717 (9)	1063 (21)	1358 (23)	1582 (22)	1807 (21)	
14'-8" (176")	PRESTRESSED	239	334 (21)	520 (29)	672 (29)	825 (29)	978 (29)	1131 (30)	
		246	395	663 (9)	980 (20)	1303 (26)	1518 (25)	1734 (24)	
15'-4" (184")	PRESTRESSED	224	313 (20)	486 (28)	627 (29)	769 (29)	911 (29)	1054 (29)	
		230	368	616 (9)	908 (20)	1240 (28)	1460 (27)	1668 (26)	
17'-4" (208")	PRESTRESSED	187	263 (19)	405 (26)	521 (27)	638 (27)	756 (27)	873 (27)	
		192	306	506 (8)	740 (19)	1005 (27)	1271 (31)	1473 (31)	
19'-4" (232")	PRESTRESSED	162	229 (17)	348 (25)	447 (25)	547 (25)	647 (25)	747 (25)	
		166	263	429 (6)	623 (18)	841 (26)	1059 (30)	1227 (30)	
21'-4" (256")	PRESTRESSED	142	204 (16)	307 (23)	393 (23)	480 (23)	568 (24)	655 (24)	
		142	232	373 (7)	537 (17)	721 (25)	905 (29)	1048 (29)	
22'-0" (264")	PRESTRESSED	137	197 (15)	295 (22)	379 (23)	462 (23)	546 (23)	630 (23)	
		137	223	358 (7)	513 (17)	688 (24)	863 (28)	999 (28)	
24'-0" (288")	PRESTRESSED	124	179 (14)	267 (21)	342 (21)	416 (21)	492 (21)	567 (22)	
		124	202	319 (7)	455 (18)	606 (23)	767 (27)	927 (27)	

(#) THE NUMBERS IN PARENTHESIS ARE PERCENT REDUCTIONS FOR GRADE 40 FIELD ADDED REBAR. SEE GENERAL NOTE NO. 4 ON SHEET 3 OF 3.

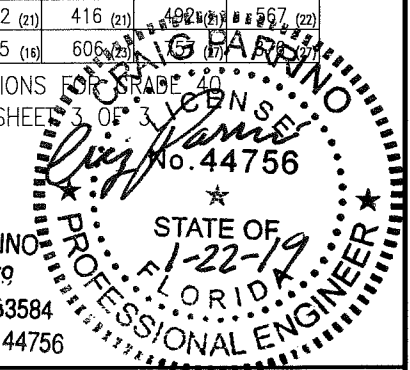
SEE GENERAL NOTES - SHEET 3 OF 3

NO.	BY	REVISION	DATE
△	CP	GENERAL REVISION NUMBER ONE	11/08/96
△	CP	RECESS TYPE DESIGNATION	12/30/96
△	CP	8U8 11'-4" THRU 14'-0"	11/08/96
△	CP	GENERAL REVISION	4/28/98
△	CP	GENERAL REVISION	3/24/03
△	CP	NAME CHANGE	2/17/06
△	CP	GENERAL REVISION	6/12/14



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 19-0130-13
Expiration Date 05/21/2022
By: *Hugh A. Nelson*
Miami Design Product Control

CRAIG PARRINO
6324 CR 579
SEFFNER, FL 33584
FL. P.E. LIC. NO. 44756



TITLE: CAST-CRETE 8" LINTEL FABRICATION DETAILS

FILE NAME: DBSUB2-14	DRAWN BY: CRAIG PARRINO, P.E. - REG. NO. 44756	SCALE: NOT TO SCALE
DATE: 06/07/96	CHECKED BY: CRAIG PARRINO, P.E. - REG. NO. 44756	DRAWING No. FDB SHEET 2 OF 3

SAFE GRAVITY LOADS FOR 8" PRECAST w/ 2" RECESS DOOR U-LINTELS

LENGTH	TYPE	SAFE LOAD - POUNDS PER LINEAR FOOT							
		8RU6	8RF6-0B	8RF10-0B	8RF14-0B	8RF18-0B	8RF22-0B	8RF26-0B	8RF30-0B
4'-4" (52")	PRECAST	1635	8RF6-1B	8RF10-1B	8RF14-1B	8RF18-1B	8RF22-1B	8RF26-1B	8RF30-1B
			1749	3355	3280	4349	5421	6493	7567
4'-6" (54")	PRECAST	1494	8RF6-1B	8RF10-1B	8RF14-1B	8RF18-1B	8RF22-1B	8RF26-1B	8RF30-1B
			1596	3063	2992	3968	4946	5924	6904
5'-8" (68")	PRECAST	866	8RF6-1B	8RF10-1B	8RF14-1B	8RF18-1B	8RF22-1B	8RF26-1B	8RF30-1B
			920	1770	1716	2277	2839	3402	3966
5'-10" (70")	PRECAST	810	8RF6-1B	8RF10-1B	8RF14-1B	8RF18-1B	8RF22-1B	8RF26-1B	8RF30-1B
			859	1653	1600	2124	2649	3174	3700
6'-8" (80")	PRECAST	797	8RF6-1B	8RF10-1B	8RF14-1B	8RF18-1B	8RF22-1B	8RF26-1B	8RF30-1B
			901	1825	3120	5048	7747	9448	7360
7'-6" (90")	PRECAST	669	8RF6-1B	8RF10-1B	8RF14-1B	8RF18-1B	8RF22-1B	8RF26-1B	8RF30-1B
			755	1490	2459	3776	5743	7239	5623
9'-8" (116")	PRECAST	411	8RF6-1B	8RF10-1B	8RF14-1B	8RF18-1B	8RF22-1B	8RF26-1B	8RF30-1B
			466	999	1568	2253	3129	4091	3146

(#) THE NUMBERS IN PARENTHESIS ARE PERCENT REDUCTIONS FOR GRADE 40 FIELD ADDED REBAR. SEE GENERAL NOTE NO. 4

SAFE LATERAL LOADS FOR 8" PRECAST w/ 2" RECESS DOOR U-LINTELS

LENGTH	TYPE	SAFE LOAD PLF		
		8RU6	8RF6	RCMU *
4'-4" (52")	PRECAST	758	757	1164
4'-6" (54")	PRECAST	694	693	1073
5'-8" (68")	PRECAST	408	407	655
5'-10" (70")	PRECAST	382	381	616
6'-8" (80")	PRECAST	595	788	464
7'-6" (90")	PRECAST	509	674	363
9'-8" (116")	PRECAST	370	490	214

* SEE GENERAL NOTE 18

SAFE UPLIFT LOADS FOR 8" PRECAST w/ 2" RECESS DOOR U-LINTELS

LENGTH	TYPE	SAFE LOAD - POUNDS PER LINEAR FOOT							
		8RF6-1T	8RF10-1T	8RF14-1T	8RF18-1T	8RF22-1T	8RF26-1T	8RF30-1T	
4'-4" (52")	PRECAST	8RF6-2T	8RF10-2T	8RF14-2T	8RF18-2T	8RF22-2T	8RF26-2T	8RF30-2T	
		905	1668	2362	3056	3751	4445	5140	
4'-6" (54")	PRECAST	8RF6-2T	8RF10-2T	8RF14-2T	8RF18-2T	8RF22-2T	8RF26-2T	8RF30-2T	
		867	1604	2272	2939	3607	4275	4943	
5'-8" (68")	PRECAST	8RF6-2T	8RF10-2T	8RF14-2T	8RF18-2T	8RF22-2T	8RF26-2T	8RF30-2T	
		675	1269 ⁽¹⁶⁾	1797	2326 ⁽⁵⁾	2854 ⁽²⁾	3382	3911	
5'-10" (70")	PRECAST	8RF6-2T	8RF10-2T	8RF14-2T	8RF18-2T	8RF22-2T	8RF26-2T	8RF30-2T	
		675	1269	1797	2326	2854	3382	3911	
6'-8" (80")	PRECAST	8RF6-2T	8RF10-2T	8RF14-2T	8RF18-2T	8RF22-2T	8RF26-2T	8RF30-2T	
		655	1207 ⁽¹⁶⁾	1746 ⁽¹¹⁾	2259 ⁽⁷⁾	2773 ⁽⁵⁾	3286 ⁽³⁾	2799 ⁽¹⁾	
7'-6" (90")	PRECAST	8RF6-2T	8RF10-2T	8RF14-2T	8RF18-2T	8RF22-2T	8RF26-2T	8RF30-2T	
		655	1233	1746	2259	2773	3286	2799	
9'-8" (116")	PRECAST	8RF6-2T	8RF10-2T	8RF14-2T	8RF18-2T	8RF22-2T	8RF26-2T	8RF30-2T	
		570	929 ⁽¹⁶⁾	1530 ⁽²²⁾	1980 ⁽¹⁹⁾	2429 ⁽¹⁶⁾	2879 ⁽¹⁵⁾	3329 ⁽¹⁴⁾	

(#) THE NUMBERS IN PARENTHESIS ARE PERCENT REDUCTIONS FOR GRADE 40 FIELD ADDED REBAR. SEE GENERAL NOTE NO. 4

GENERAL NOTES

- Materials:
 - f'c 8" precast lintel = 4000 psi
 - f'c prestressed lintel = 6000 psi
 - f'c grout = 3000 psi with maximum 3/8 inch aggregate
 - concrete masonry units (CMU) per ASTM C90 with minimum net area compressive strength = 1900 psi
 - rebar per ASTM A615 Grade 60
 - prestressing strand per ASTM A416 Grade 270 low relaxation
 - mortar per ASTM C270 Type M or S
- All safe load tables based on minimum 4 inch nominal bearing.

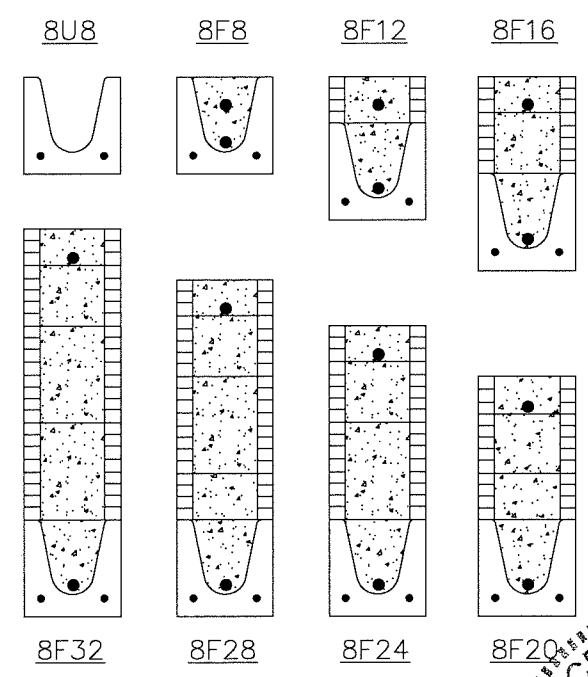
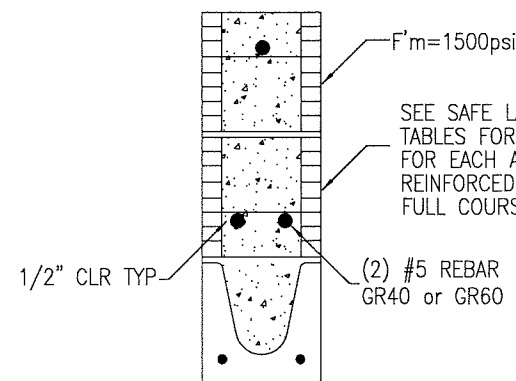
Exception: Safe loads for lintel type 8U8 and 8RU6 must be reduced by 20% if bearing length is less than 6 1/2 inches.
- Provide full mortar bed and head joints.
- The number in parenthesis indicates the percent reduction for grade 40 field added rebar.

Example: 7'-6" Lintel 8F32-1B safe gravity load = 6472 (.85) = 5501 plf
- All lintels meet or exceed L/360 deflection.

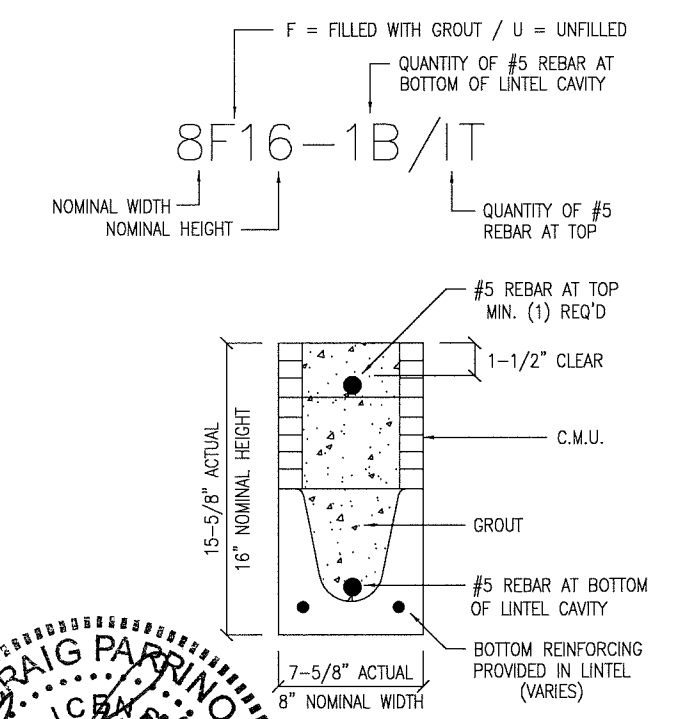
Exception: Prestress lintel type 8F8 17'-4" and longer meets or exceeds L/180 deflection. Use is limited to conditions meeting the Florida Building Code Sections 1604.3.1 as applicable
- Shore filled lintels as required.
- One #7 rebar may be substituted for two #5 rebars.
- Installation/attachment of lintel must comply with the architectural and/or structural documents.
- The designer may evaluate concentrated loads from the safe load tables by calculating the maximum resisting moment and shear at d-away from the face of support.
- N.R. = Not Rated
- Bottom field added rebar to be located at the bottom of the lintel cavity.

- Lintels are manufactured with 5-1/2" long notches at the ends to accommodate vertical cell reinforcing and grouting.
- The exterior surface of lintels installed in exterior concrete masonry walls shall have a coating of stucco applied in accordance with ASTM C-926 or other approved coating.
- Lintels loaded simultaneously with vertical (gravity or uplift) and horizontal (lateral) loads should be checked for the combined loading with the following equation:

$$\frac{\text{Applied vertical load}}{\text{Safe vertical load}} + \frac{\text{Applied horizontal load}}{\text{Safe horizontal load}} \leq 1.0$$
- For composite lintel heights not shown, use safe load from next lower height shown.
- For lintel lengths not shown, use safe load from next longest length shown.
- Safe loads are superimposed allowable loads.
- Safe loads based on rational design analysis per ACI 530 and ACI 318
- Additional lateral load capacity can be obtained by the designer by providing additional reinforced concrete masonry units (RCMU) above the lintel. See sketch below:



TYPE DESIGNATION



PRODUCT REVISED as complying with the Florida Building Code
 Acceptance No 19-0130.13
 Expiration Date 05/21/2022
 By *Heg A. Mohr*
 Material Product Control

CRAIG PARRINO
 No. 44756
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER

CRAIG PARRINO
 6324 CR 579
 SEFFNER, FL 33584
 FL. P.E. LIC. NO. 44756

NO.	BY	REVISION	DATE
△	CP	GENERAL REVISION NUMBER ONE	11/08/96
△	CP	RECESS TYPE DESIGNATION	12/30/96
△	CP	8U8 11'-4" THRU 14'-0"	11/08/96
△	CP	GENERAL REVISION	4/28/98
△	CP	GENERAL REVISION	3/24/03
△	CP	NAME CHANGE	2/17/06
△	CP	GENERAL REVISION	6/12/14

MEMBER OF

NATIONAL CONCRETE MASONRY ASSOCIATION

HIGH STRENGTH PRECAST AND PRESTRESSED CONCRETE LINTELS AND SILLS

USA, LLC.
 6324 County Road 579
 Seffner, Florida 33584
 Phone: 813-621-4641

TITLE: **CAST-CRETE 8" LINTEL FABRICATION DETAILS**

FILE NAME: DBSUB3-14	DRAWN BY: CRAIG PARRINO, P.E. - REG. NO. 44756	SCALE: NOT TO SCALE
DATE: 06/07/96	CHECKED BY: CRAIG PARRINO, P.E. - REG. NO. 44756	DRAWING No. FDB SHEET 3 OF 3