



BUILDING AND NEIGHBORHOOD COMPLIANCE DEPARTMENT (BNC)
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/building

NOTICE OF ACCEPTANCE (NOA)

Cast-Crete Corporation
P.O. Box 24567
Tampa, Florida 33623

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 BNC-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. BNC 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 Prestressed 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 February 17, 2006, signed and sealed by Craig Parrino, P.E., bearing the Miami-Dade County Product Control Renewal 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 renews NOA # 06-0222.01 and consists of this page 1, evidence submitted pages E-1, E-2, E-3, & E-4 as well as approval document mentioned above.

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



Helmy A. Makar
04/14/2011

NOA No. 11-0121.04
Expiration Date: 05/21/2016
Approval Date: 04/14/2011
Page 1

Cast-Crete Corporation

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 Prestressed 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 prestressing strand by The Crispin Company.*
3. *Mill Certified Inspection Report #20-8345 dated 11/13/95 for prestressing 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.*



Helmy A. Makar, P.E., M.S.
BNC, Product Control Unit Supervisor
NOA No. 11-0121.04
Expiration Date: 05/21/2016
Approval Date: 04/14/2011

Cast-Crete Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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.*
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 Prestressed 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.*

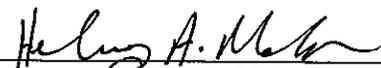
3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 03-0605.05

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.*



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

NOA No. 11-0121.04

Expiration Date: 05/21/2016

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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS:

1. *Calculations for Cast-Crete High Strength Precast and Prestressed 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 1, 2002.*
2. *Cast-Crete Quality System Manual for Prestressed Products dated 2002.*

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 February 20, 2006, signed by Craig Parrino, P.E.*



Helmy A. Makar, P.E., M.S.
BNC, Product Control Unit Supervisor
NOA No. 11-0121.04
Expiration Date: 05/21/2016
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Cast-Crete Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

5. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *None.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

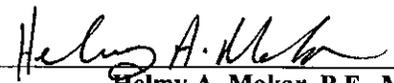
1. *By Miami-Dade Building and Neighborhood Compliance Department (BNC).*

E. MATERIAL CERTIFICATION

1. *None.*

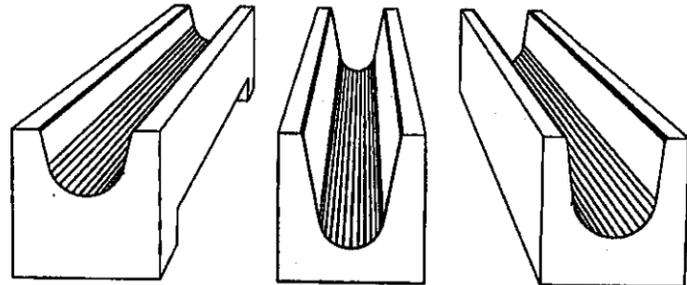
F. OTHER

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.*

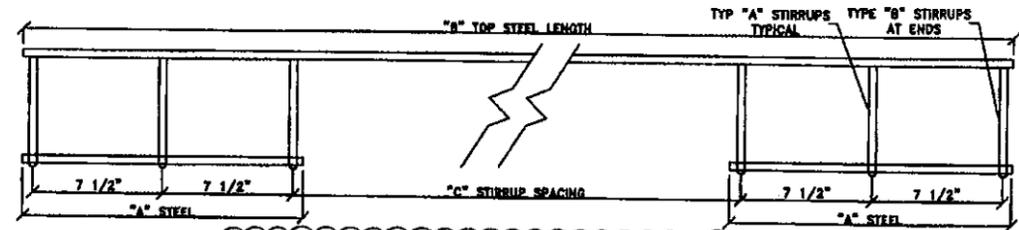
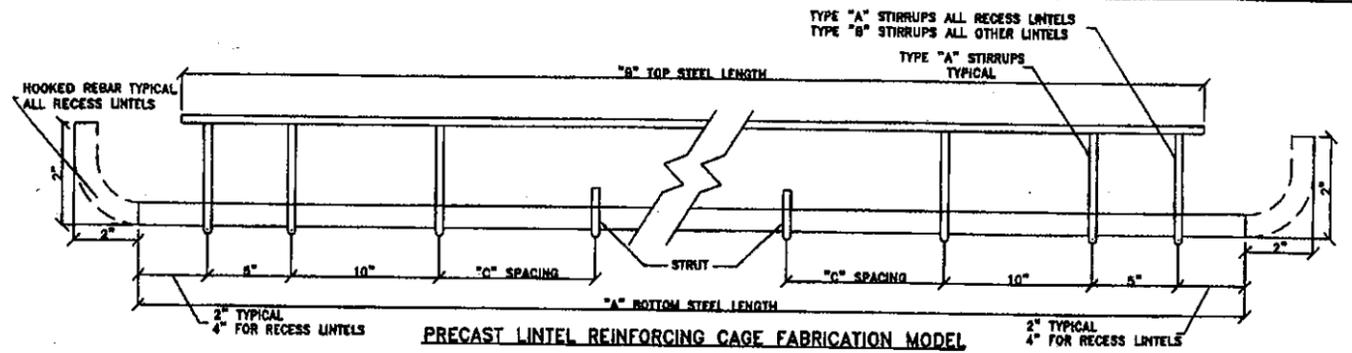


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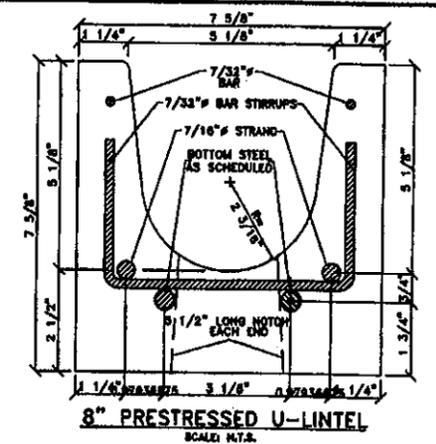
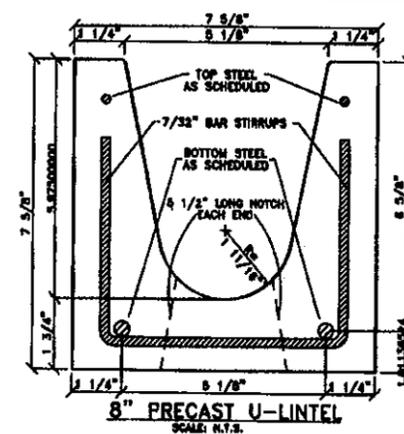
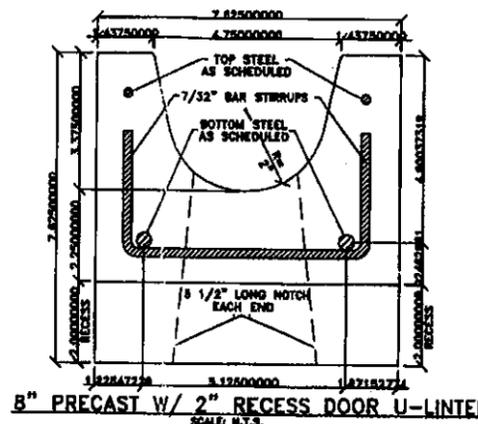
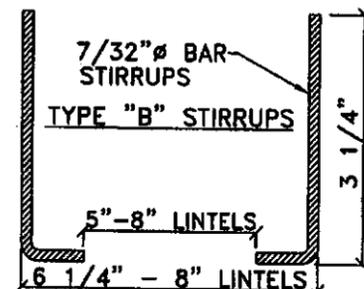
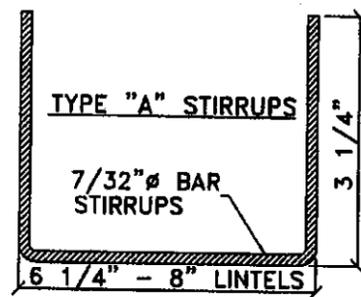
CAST-CRETE[®] HIGH STRENGTH PRECAST AND PRESTRESSED CONCRETE LINTELS



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



(SEE GENERAL NOTE 6 FOR SYNTHETIC FIBER OPTION)



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
22'-0"	0.200	811	7/32 BAR	1'-3"	7/32 BAR	21'-10"	5 @ 3'-10 3/8"	10
24'-0"	0.219	885	7/32 BAR	1'-3"	7/32 BAR	23'-10"	5 @ 4'-3 1/8"	10

8" PRECAST U-LINTEL DATA TABLE

LINTEL SIZE	VOLUME CY	WEIGHT LBS	"A" BOTTOM STEEL		"B" TOP STEEL		"C" SPACING	STIRRUPS/STIRRUPS
			TYPE	LENGTH	TYPE	LENGTH		
2'-10"	0.026	102	#3 REBAR	2'-9"	7/32 BAR	2'-6"	N/A	4
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

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	STIRRUPS/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	PLUS Hook	7/32 BAR	3'-10"	N/A	4
4'-0"	5'-8"	4'-4"	0.047	190	#3 REBAR	PLUS Hook	7/32 BAR	5'-0"	N/A	6
4'-4"	5'-10"	4'-8"	0.047	190	#3 REBAR	PLUS Hook	7/32 BAR	5'-2"	N/A	6
5'-0"	6'-8"	5'-4"	0.054	219	#4 REBAR	PLUS Hook	#3 REBAR	6'-0"	N/A	6
6'-0"	7'-6"	6'-4"	0.060	243	#4 REBAR	PLUS Hook	#3 REBAR	6'-10"	N/A	6
8'-0"	9'-8"	8'-4"	0.078	316	#4 REBAR	PLUS Hook	#3 REBAR	9'-0"	2'-0"	8

GENERAL NOTES:

- REINFORCING STEEL: 7/32 BAR ASTM A510; #3, #4, #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; $f'_c = 3500$ PSI FOR ALL PRECAST 8 INCH LINTELS.
- INITIAL PRESTRESS FORCE = $0.70 \times f_{pu}$.
- 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.

THIS PROPRIETARY INFORMATION IS PROVIDED FOR PRODUCT APPROVAL. IT IS PROTECTED BY COPYRIGHT LAWS AND CANNOT BE REPRODUCED OR DISTRIBUTED WITHOUT THE PRIOR WRITTEN CONSENT OF FECP CORPORATION.

Craig Parrino
2-20-2006

CRAIG PARRINO
8324 CR 579
SEFFNER, FL 33584
FL. P.E. LIC. NO. 44756

PRODUCT REVISED
in compliance with the Florida
Building Code
Acceptance No. 06-9222.01
Expiration Date 05/21/2011
By *William H. Miller*
Miami Dade Product Control
Division

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



TITLE: CAST-CRETE 8" LINTEL FABRICATION DETAILS

FILE NAME: OBSUB1.DWG	DRAWN BY: JOHN HOY	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	8U8	SAFE LOAD - POUNDS PER LINEAR FOOT							
			8F8-0B	8F12-0B	8F16-0B	8F20-0B	8F24-0B	8F28-0B	8F32-0B	
			8F8-1B	8F12-1B	8F16-1B	8F20-1B	8F24-1B	8F28-1B	8F32-1B	
2'-10" (34")	PRECAST	2231	3069	4605	6113	7547	8974	10394	11809	
3'-6" (42")	PRECAST	2231	3069	4605	6113	7547	8974	10394	11809	
4'-0" (48")	PRECAST	1966	2561	2751	3820	4890	5961	7034	8107	
4'-6" (54")	PRECAST	1599	1969	2110	2931	3753	4576	5400	6224	
5'-4" (64")	PRECAST	1217	1349	1438	1999	2560	3123	3686	4249	
5'-10" (70")	PRECAST	1062	1105	1173	1631	2090	2549	3009	3470	
6'-6" (78")	PRECAST	908	1238	2177	3480	3031	3707	4383	5061	
7'-6" (90")	PRECAST	743	1011	1729	2632	2205	2698	3191	3685	
9'-4" (112")	PRECAST	554	899	1160	1625	2564	3486	2818	3302	
10'-6" (126")	PRECAST	475	535	890	1247	2093	2777	2163	2536	
11'-4" (136")	PRECAST	362	582	945	1366	1846	2423	3127	4006	
12'-0" (144")	PRECAST	337	540	873	1254	1684	2193	2805	3552	
13'-4" (160")	PRECAST	296	471	755	1075	1428	1838	2316	2883	
14'-0" (168")	PRECAST	279	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 GR40 FIELD ADDED REBAR. SEE NOTE NO. 4

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

LENGTH	TYPE	SAFE LOAD PLF		
		8U8	8F8	REINF. CMU*
		2'-10" (34")	PRECAST	1293
3'-6" (42")	PRECAST	1025	1024	1830
4'-0" (48")	PRECAST	765	763	1365
4'-6" (54")	PRECAST	592	591	1057
5'-4" (64")	PRECAST	411	411	734
5'-10" (70")	PRECAST	340	339	607
6'-6" (78")	PRECAST	507	721	483
7'-6" (90")	PRECAST	424	534	357
9'-4" (112")	PRECAST	326	512	227
10'-6" (126")	PRECAST	284	401	178
11'-4" (136")	PRECAST	260	452	152
12'-0" (144")	PRECAST	244	402	135
13'-4" (160")	PRECAST	217	324	109
14'-0" (168")	PRECAST	205	293	98
14'-8" (176")	PRESTRESSED	N.R.	284	89
15'-4" (184")	PRESTRESSED	N.R.	259	82
17'-4" (208")	PRESTRESSED	N.R.	194	63
19'-4" (232")	PRESTRESSED	N.R.	148	51
21'-4" (256")	PRESTRESSED	N.R.	125	42
22'-0" (264")	PRESTRESSED	N.R.	116	39
24'-0" (288")	PRESTRESSED	N.R.	91	33

* SEE NOTE 18

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	
		8F8-2T	8F12-2T	8F16-2T	8F20-2T	8F24-2T	8F28-2T	8F32-2T	
2'-10" (34")	PRECAST	1972	3173	4460	5747	7034	8321	9608	
3'-6" (42")	PRECAST	1569	2524	3547	4569	5591	6613	7636	
4'-0" (48")	PRECAST	1363	2192	3079	3966	4853	5740	6627	
4'-6" (54")	PRECAST	1207	1940	2724	3508	4292	5077	5861	
5'-4" (64")	PRECAST	1018	1632	2290	2949	3607	4265	4924	
5'-10" (70")	PRECAST	909	1492	2093	2694	3295	3897	4498	
6'-6" (78")	PRECAST	835	1340	1880	2419	2959	3498	4038	
7'-6" (90")	PRECAST	727	1186	1634	2102	2571	3039	3508	
9'-4" (112")	PRECAST	591	851	1133	1471	1811	2152	2494	
10'-6" (126")	PRECAST	530	552	914	1185	1458	1732	2007	
11'-4" (136")	PRECAST	474	485	798	1034	1272	1510	1749	
12'-0" (144")	PRECAST	470	441	723	936	1151	1366	1582	
13'-4" (160")	PRECAST	418	373	606	783	962	1141	1321	
14'-0" (168")	PRECAST	384	346	559	723	887	1052	1218	
14'-8" (176")	PRESTRESSED	239	323	519	671	823	976	1129	
15'-4" (184")	PRESTRESSED	224	302	485	626	767	909	1052	
17'-4" (208")	PRESTRESSED	187	255	404	520	637	754	872	
19'-4" (232")	PRESTRESSED	162	222	347	446	546	646	746	
21'-4" (256")	PRESTRESSED	142	198	306	393	480	567	654	
22'-0" (264")	PRESTRESSED	137	192	295	378	461	545	629	
24'-0" (288")	PRESTRESSED	124	175	267	341	416	491	566	

(#) THE NUMBERS IN PARENTHESIS ARE PERCENT REDUCTIONS FOR GR40 FIELD ADDED REBAR. SEE NOTE NO. 4

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 06-0222-01
Expiration Date: 05/21/2011
By: Helmut A. M...
Miami Dade Product Control
Division

Craig Parrino
CRAIG PARRINO
6324 CR 579 2-20-06
SEFFNER, FL 33584
FL. P.E. LIC. NO. 44756

SEE GENERAL NOTES - SHEET 3 OF 3

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



TITLE: CAST-CRETE 8" LINTEL FABRICATION DETAILS

FILE NAME: DBSUB1.DWG	DRAWN BY: JOHN HOY	SCALE: NOT TO SCALE
DATE: 05/07/96	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 8RF6-1B	8RF10-0B 8RF10-1B	8RF14-0B 8RF14-1B	8RF18-0B 8RF18-1B	8RF22-0B 8RF22-1B	8RF26-0B 8RF26-1B	8RF30-0B 8RF30-1B
4'-4" (52")	PRECAST	1635	1749 1891	3355 3699	3280 5206	4349 6639	5421 8060	6493 9479	7567 10893
4'-6" (54")	PRECAST	1494	1596 1756	3063 3699	2992 5206	3968 6639	4946 8060	5924 9479	6904 10893
5'-8" (68")	PRECAST	866	920 1167	1770 2481	1716 4567	2277 6389	2839 8060 ⁽²⁾	3402 7917 ⁽¹⁹⁾	3966 9311 ⁽¹⁹⁾
5'-10" (70")	PRECAST	810	859 1113	1653 2342	1600 4242	2124 6639 ⁽¹⁰⁾	2649 8060 ⁽³⁰⁾	3174 7402 ⁽¹⁹⁾	3700 8706 ⁽¹⁹⁾
6'-8" (80")	PRECAST	797	901 901	1825 1825	3120 3120	5048 5048	7747 7915	9448 9479	7360 10893 ⁽³²⁾
7'-6" (90")	PRECAST	669	755 755	1490 1490	2459 2459	3776 3776	5743 5743	7239 8998 ⁽¹⁹⁾	5623 10893 ⁽⁴⁰⁾
9'-8" (116")	PRECAST	411	466 526	999 999	1588 1588	2253 2253	3129 4150	4091 4150	3146 5891 ⁽⁴⁷⁾

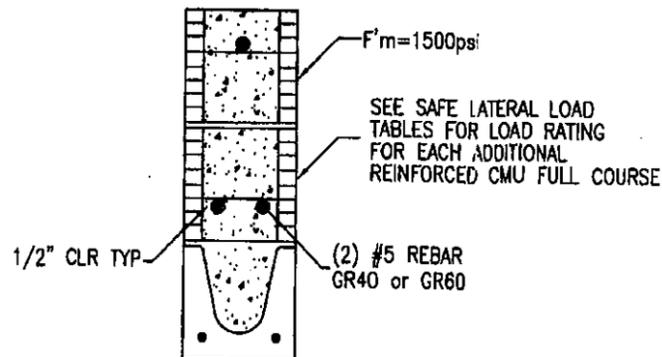
(#) THE NUMBERS IN PARENTHESIS ARE PERCENT REDUCTIONS FOR GR40 FIELD ADDED REBAR. SEE NOTE NO. 4

GENERAL NOTES

- Materials:
 - f'c 8" precast lintel = 3500 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 (19) w/ 15% reduction → 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 1610 or 1612 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.
- Additional lateral load capacity can be obtained by the designer by providing additional reinforced concrete masonry above the lintel. See sketch below:



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

LENGTH	TYPE	SAFE LOAD PLF		
		8RU6	8RF6	REINF. CMU*
4'-4" (52")	PRECAST	758	757	1365
4'-6" (54")	PRECAST	694	693	1249
5'-8" (68")	PRECAST	408	407	734
5'-10" (70")	PRECAST	382	381	687
6'-8" (80")	PRECAST	595	788	510
7'-6" (90")	PRECAST	509	674	393
9'-8" (116")	PRECAST	370	490	227

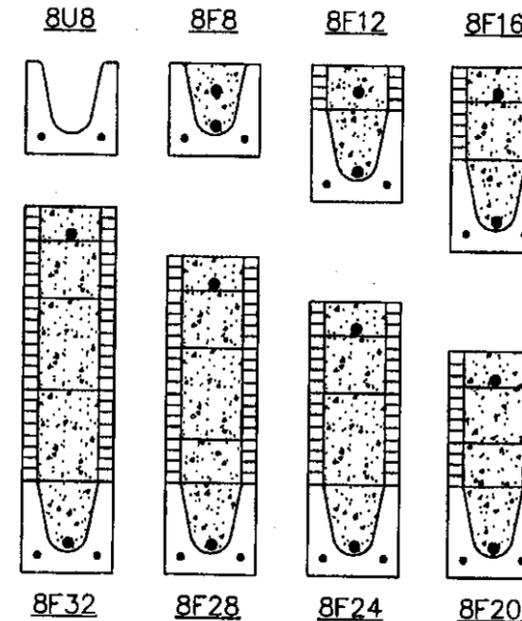
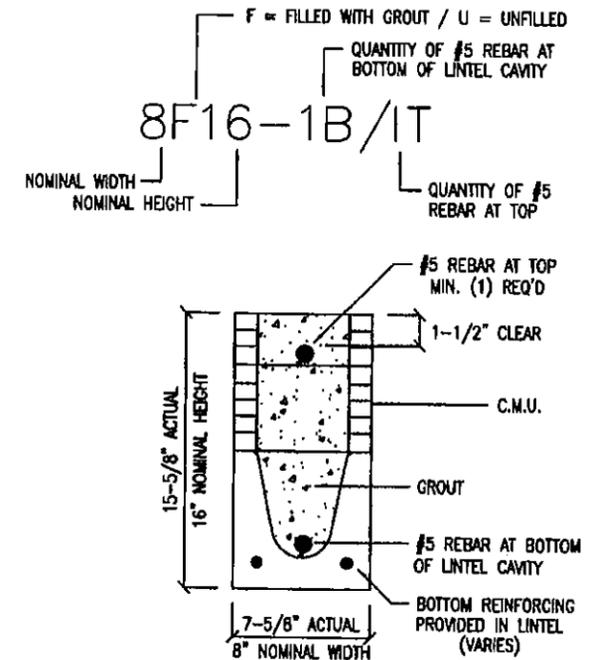
* SEE NOTE 18

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

LENGTH	TYPE	SAFE LOAD - POUNDS PER LINEAR FOOT							
		8RF6-1T 8RF6-2T	8RF10-1T 8RF10-2T	8RF14-1T 8RF14-2T	8RF18-1T 8RF18-2T	8RF22-1T 8RF22-2T	8RF26-1T 8RF26-2T	8RF30-1T 8RF30-2T	
4'-4" (52")	PRECAST	905 905	1748 1748	2635 2635	3522 3522	4409 4409	5296 5296	6183 6183	
4'-6" (54")	PRECAST	867 867	1675 1675	2525 2525	3374 3374	4224 4224	5074 5074	5924 5924	
5'-8" (68")	PRECAST	675 675	1301 1301	1960 1960	2618 2618	3277 3277	3935 3935	4594 4594	
5'-10" (70")	PRECAST	655 655	1262 1262	1900 1900	2538 2538	3176 3176	3815 3815	4453 4453	
6'-8" (80")	PRECAST	570 570	1012 1012	1651 1651	2204 2204	2758 2758	3312 3312	3865 3865	
7'-6" (90")	PRECAST	506 506	797 797	1462 ⁽⁶⁾ 1462	1952 ⁽⁷⁾ 1952	2442 ⁽⁸⁾ 2442	2931 ⁽⁹⁾ 2931	3257 3257	
9'-8" (116")	PRECAST	395 395	491 589	931 ⁽¹²⁾ 1135	1301 ⁽¹⁵⁾ 1514	1640 ⁽¹⁸⁾ 1893	1980 ⁽¹⁵⁾ 2272	2322 ⁽¹⁶⁾ 2652	

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TYPE DESIGNATION



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2-20-2006
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FL. P.E. LIC. NO. 44756

PRODUCT REVIEWED
in compliance with the Florida
Building Code
Acceptance No. 06-0222-01
Expiration Date 05/21/2011
By: *Helmut A. Mehn*
Miami Dade Product Control
Division

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