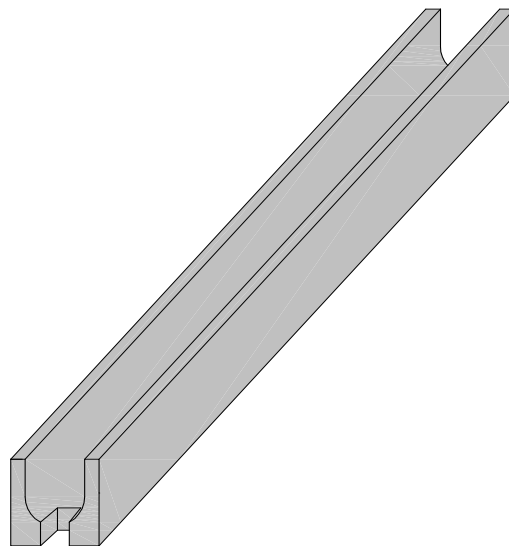




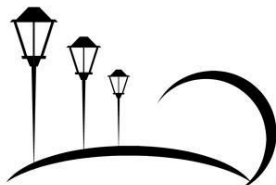
TrueLite[®]

U LINTEL

DESIGN GUIDE



TrueLite[®] **U Lintel**



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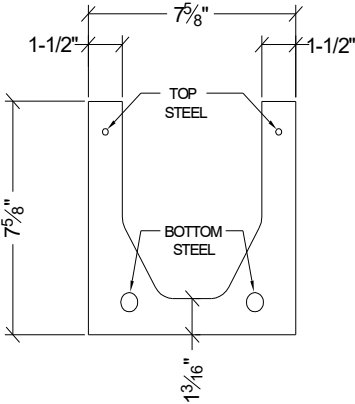
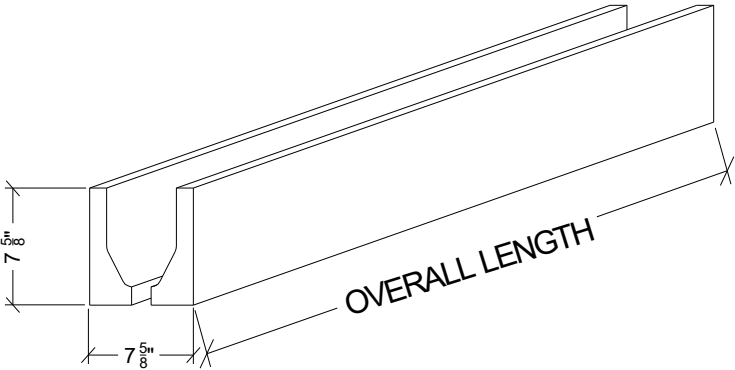
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Design Notes:

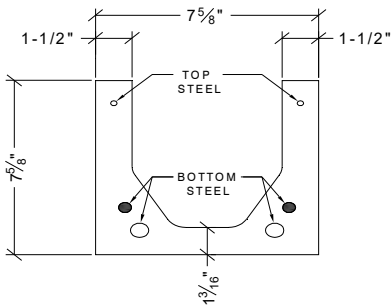
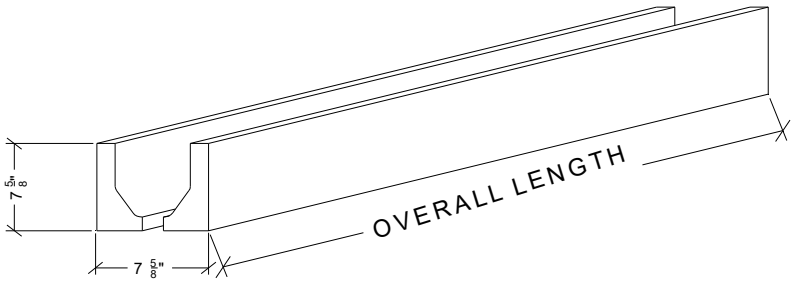
- 1) Standard bearing length is 7-5/8" for all lintels and is assumed for the allowable load tables.
- 2) Minimum bearing length is 4" for all lintels, with a 5% decrease in allowable load values.
- 3) Grout used for composite lintels shall conform to ASTM C476 with f`g=3000 psi, 3/8" max. aggregate diameter, and 8"-11" slump.
- 4) CMU for composite lintels shall meet ASTM C90 with 1900 psi minimum compressive strength.
- 5) Mortar for composite lintels shall meet ASTM C270 Type M or S
- 6) Lintel designs meet requirements of FBC 2023, ACI 318-19, TMS 402/602-22

8" PRECAST U LINTELS		
Overall Length	Top Steel	Bottom Steel
3'-0"	(2) #3 rebar	(2) #3 rebar
3'-4"		
3'-6"		
4'-0"		
4'-6"		
4'-8"		
5'-4"		
5'-10"	(2) #3 rebar	(2) #4 rebar
6'-0"		
6'-6"		
6'-8"		
7'-4"		
7'-6"	(2) #3 rebar	(2) #4 rebar
8'-0"		
8'-8"		
9'-4"		
10'-0"		
10'-6"	(2) #3 rebar	(2) #5 rebar
10'-8"		
11'-4"		
12'-0"		
13'-4"		
14'-0"		
14'-8"		



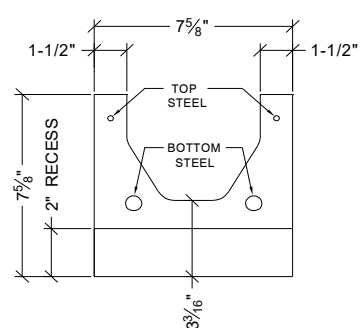
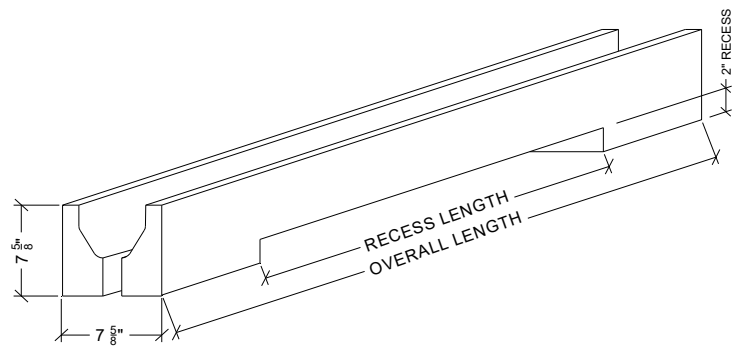
Rebar: ASTM A615 GRADE 60
 Wire: ASTM A510
 Concrete Strength: 6000 psi
 Self Weight: 24 plf

8" PRESTRESSED U LINTELS		
Overall Length	Top Steel	Bottom Steel
14'-8"	NONE	(2) 7/16" strand
15'-4"		
17'-4"		
19'-4"	(2) #3 rebar	(2) 7/16" strand
21'-4"	(2) #3 rebar	(2) 7/16" strand + (2) #4 rebar
22'-0"		
24'-0"		

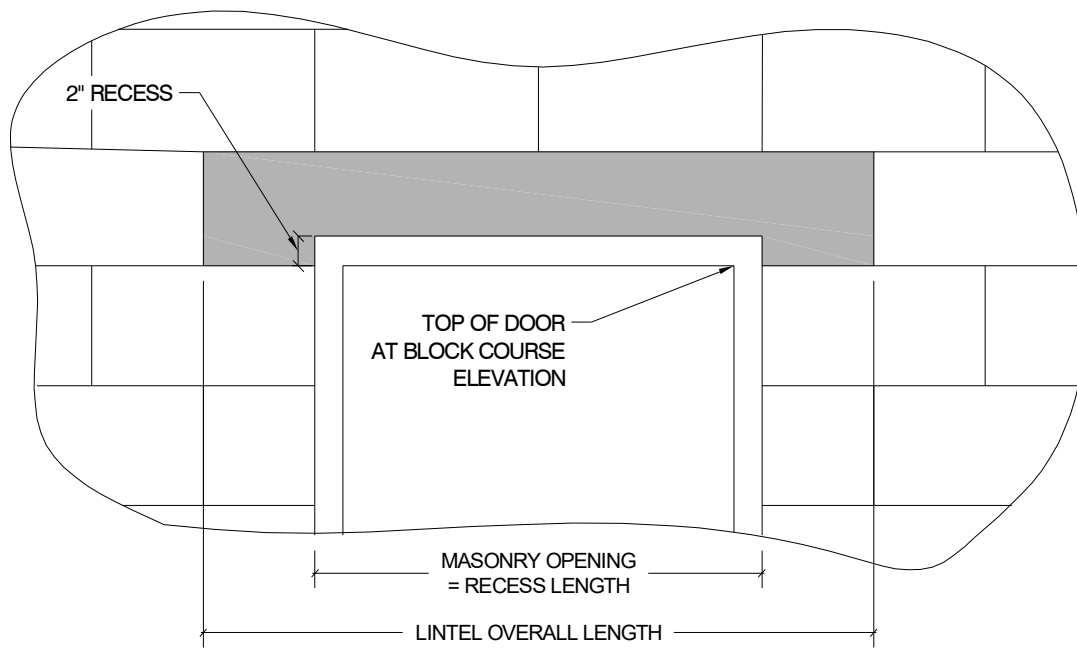


Rebar: ASTM A615 GRADE 60
 Wire: ASTM A510
 Strand: ASTM A416 GRADE 270
 Concrete Strength: 8000 psi
 Self Weight: 24 plf

8" PRECAST U LINTELS W/2" DOOR RECESS				
Overall Length	Recess Length	Door Size	Top Steel	Bottom Steel
3'-8"	2'-4"	2'-0"	(2) #3 rebar	(2) #3 rebar
4'-0"	2'-8"	2'-4"		
4'-4"	3'-0"	2'-8"		
4'-6"	3'-4"	3'-0"		
5'-8"	4'-4"	4'-0"		
5'-10"	4'-8"	3'-0" w/12" sidelite		
6'-8"	5'-4"	5'-0"	(2) #3 rebar	(2) #4 rebar
7'-0"	5'-8"	5'-4"		
7'-6"	6'-4"	6'-0"		
9'-8"	8'-4"	8'-0"		



Rebar: ASTM A615 GRADE 60
 Wire: ASTM A510
 Concrete Strength: 6000 psi
 Self Weight: 24 plf



TYPICAL USE

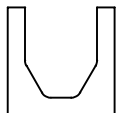
8" U-LINTELS

Notes: SWL values per FBC 2023, ACI 318-10, TMS 402/602-22

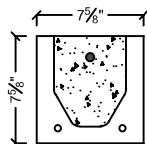
	8x12-0G	8x16-0G	8x20-0G	8x24-0G	8x28-0G	8x32-0G
	8x12-1G	8x16-1G	8x20-1G	8x24-1G	8x28-1G	8x32-1G
OAL, ft	SWL (plf)	SWL (plf)	SWL (plf)	SWL (plf)	SWL (plf)	SWL (plf)
4'-0"	4394	5745	7085	8419	9754	11089
	4394	5745	7085	8419	9754	11089
4'-6"	4666	5735	7077	8412	9746	11081
	5931	5735	7077	8412	9746	11081
5'-4"	2992	4275	5637	6999	8361	9723
	3789	6963	7065	8399	9734	11069
5'-10"	2379	3401	4485	5569	6653	7738
	3109	5328	7057	8392	9727	11061
6'-0"	2930	4934	6748	8355	9724	11059
	2930	4934	8573	8389	9724	11059
6'-6"	2504	4049	5536	6854	8173	9073
	2504	4049	6568	8382	9716	11051
6'-8"	2386	3816	5196	6434	7672	8516
	2386	3816	6084	8379	9714	11049
7'-6"	1939	2974	3906	4837	5768	6401
	1939	2977	4471	6750	9542	10735
8'-0"	1741	2627	3799	4820	5841	7256
	1741	2627	3853	5612	8384	10973
8'-6"	1507	2350	3269	4149	5030	6281
	1579	2350	3385	4801	6888	9514
9'-4"	1182	1875	2582	3281	3980	5038
	1368	1998	2815	3870	5312	7399
10'-6"	892	1417	1954	2485	3016	3812
	1149	1648	2274	3038	4013	5302
11'-4"	1031	1465	2000	2634	3418	4413
	1031	1465	2000	2364	3418	4413
12'-0"	952	1343	1822	2378	3052	3866
	952	1343	1822	2378	3052	3886
13'-4"	824	1152	1547	1993	2516	3060
	824	1152	1547	1993	2516	3060
14'-0"	733	1075	1438	1842	2311	2730
	733	1075	1438	1842	2311	2730
14'-8"	-	-	-	-	-	-
prestressed	794	1385	1915	2259	2526	2726
15'-4"	-	-	-	-	-	-
prestressed	720	1261	1740	2069	2329	2520
17'-4"	-	-	-	-	-	-
prestressed	555	960	1334	1620	1960	2059
19'-4"	-	-	-	-	-	-
prestressed	429	760	1045	1290	1521	1725
21'-4"	-	-	-	-	-	-
prestressed	348	608	854	1120	1366	1479
22'-0"	-	-	-	-	-	-
prestressed	324	560	790	1055	1294	1408
24'-0"	-	-	-	-	-	-
prestressed	260	455	664	893	1099	1229



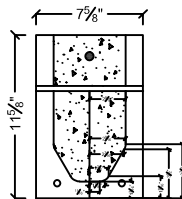
8" U LINTELS



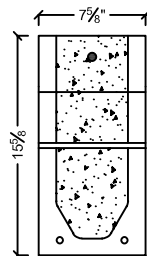
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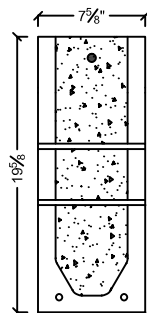
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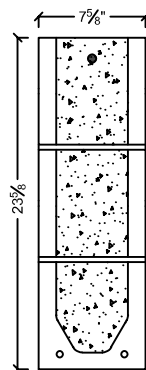
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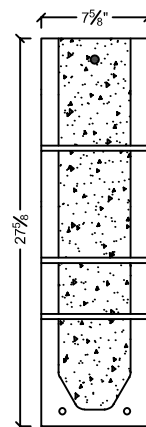
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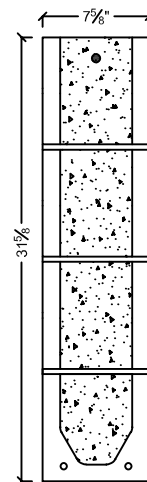
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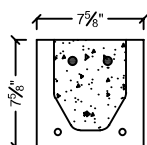
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U=U-lintel

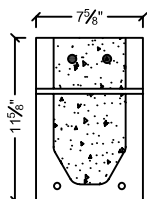
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no. of field-installed #5 top bars

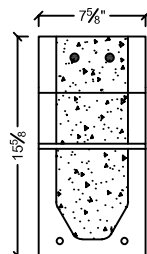
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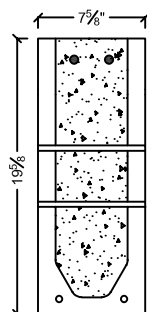
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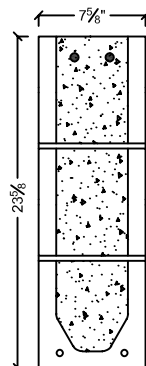
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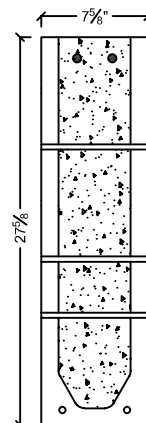
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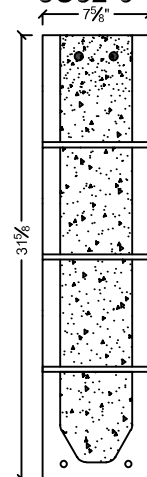
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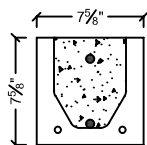
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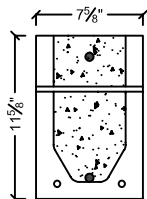
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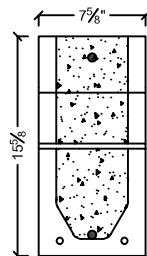
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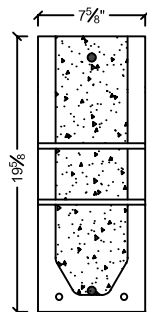
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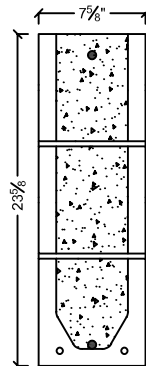
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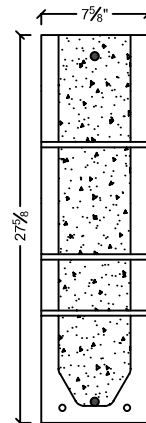
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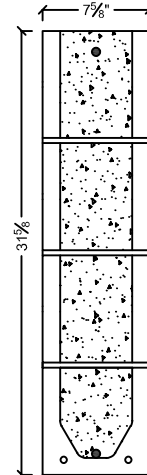
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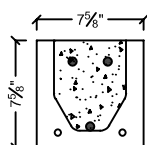
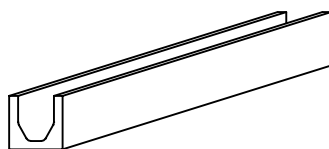
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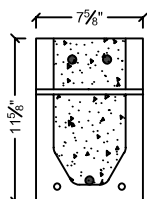
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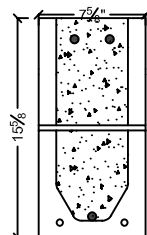
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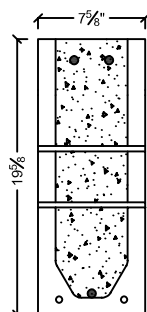
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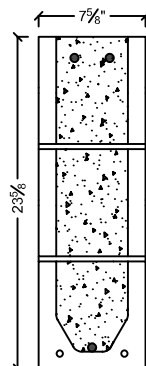
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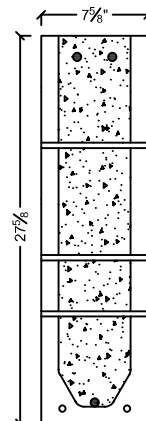
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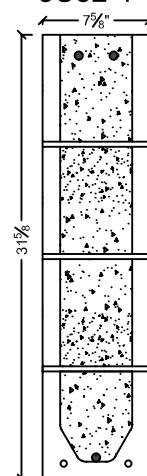
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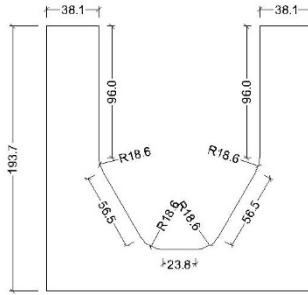


8U28-1-2



8U32-1-2

Appendix A



8U8 dim.s (mm)