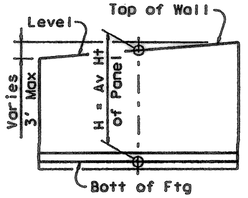
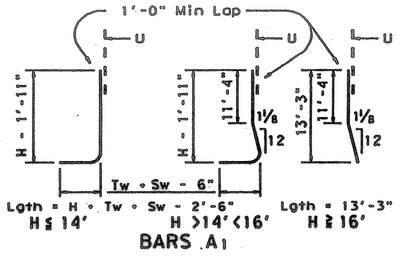
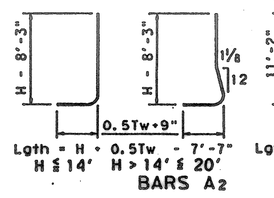


H DEFINITION

Wall Height "H"	PROPERTIES: WALL DIMENSIONS						Max Soil Press	A1 ~ 26 #5 at 15" c-c		A2 ~ 25 #6 at 15" c-c		A3 ~ 25 #7 at 15" c-c		A4 ~ 26 #8 at 15" c-c		A5 ~ 25 #9 at 15" c-c		A6 ~ 25 #11 at 15" c-c		A7 ~ 26 #11 at 15" c-c		B ~ 26 #5 at 15" c-c		C					D (#5) at 12" c-c		Dowel F at 12" c-c		H (#5) at 12" c-c		T (#5) at 12" c-c		U ~ 26 #5 at 15" c-c		QUANTITY FOR ONE 32' PANEL		Wall Height "H"
	Fw	Tw	Sw	Hw	Ft	Kw		Lgth	Wt	Lgth	Wt	Lgth	Wt	Lgth	Wt	Lgth	Wt	Lgth	Wt	Lgth	Wt	Lgth	Wt	Size	No	Spa	Lgth	Wt	No	Wt	No	Wt	No	Wt	No	Wt	No	Wt	CONC (CY)	REINF (LB)	
(Ft)							T/SF																																		
1	0	0	1'-0"	0	0	0	0.10																						2	66	2	16					1'-4"	36	1.2	118	1
2	1'-8"	8"	1'-0"	0	9"	9"	0.11																						2	66	3	24					3'-4"	90	3.6	246	2
3	2'-0"	1'-0"	1'-0"	0	9"	9"	0.15																						4	131	4	32	2	66	2	66	5'-4"	145	5.1	440	3
4	2'-8"	1'-4"	1'-0"	4"	1'-0"	9"	0.21	3'-10"	104															3'-6"	95	26	#4	15"	1'-10"	32	5	164	5	40	2	66	2	66	7'-4"	199	7.4	766	4
5	3'-6"	1'-9"	1'-0"	9"	1'-0"	9"	0.23	5'-3"	142															4'-6"	122	26	#4	15"	2'-3"	39	7	230	6	48	2	66	3	99	8'-4"	226	9.6	972	5
6	4'-3"	2'-2"	1'-0"	1'-1"	1'-0"	9"	0.24	6'-8"	181															5'-6"	149	26	#4	15"	2'-8"	46	9	296	7	56	3	99	3	99	8'-4"	226	11.6	1152	6
7	5'-0"	2'-6"	1'-0"	1'-6"	1'-0"	9"	0.27	8'-0"	217															6'-6"	176	26	#4	15"	3'-0"	52	10	329	8	64	3	99	3	99	8'-4"	226	13.7	1262	7
8	5'-8"	2'-10"	1'-0"	1'-10"	1'-0"	9"	0.30	9'-4"	253															7'-6"	203	26	#4	15"	3'-4"	58	12	394	9	72	3	99	4	131	8'-4"	226	15.7	1436	8
9	6'-4"	3'-2"	1'-0"	2'-2"	1'-0"	9"	0.33	10'-8"	284															8'-6"	231	26	#4	15"	3'-8"	64	13	427	10	80	3	99	4	131	8'-4"	226	17.7	1542	9
10	7'-0"	3'-6"	1'-0"	2'-6"	1'-0"	9"	0.36	12'-0"	325	4'-2"	156													9'-6"	258	38	#4	10"	4'-0"	102	15	493	11	88	4	131	4	131	8'-4"	226	19.6	1910	10
11	7'-9"	3'-10"	1'-0"	2'-11"	1'-0"	9"	0.39	13'-4"	362	5'-4"	200													10'-6"	285	38	#6	10"	4'-4"	247	17	553	12	96	4	131	5	164	8'-4"	226	21.7	2264	11
12	8'-6"	4'-3"	1'-0"	3'-3"	1'-0"	9"	0.40	14'-9"	400	6'-7"	247													11'-6"	312	38	#6	10"	4'-9"	271	19	624	13	104	4	131	5	164	8'-4"	226	23.8	2479	12
13	9'-2"	4'-7"	1'-0"	3'-7"	1'-0"	9"	0.43	16'-1"	436	7'-8"	288	6'-9"	345											12'-6"	339	38	#7	10"	5'-1"	395	20	657	14	112	5	164	6	197	8'-4"	226	25.8	3159	13
14	9'-10"	4'-11"	1'-0"	3'-11"	1'-0"	1'-0"	0.47	17'-5"	472	8'-11"	335	8'-1"	413											13'-6"	366	38	#8	10"	5'-5"	550	22	723	14	112	5	164	6	197	8'-4"	226	28.2	3558	14
15	10'-6"	5'-3"	1'-1 1/8"	4'-1 1/8"	1'-0"	1'-0"	0.50	18'-10"	511	10'-1"	379	9'-6"	485											14'-6"	393	38	#9	10"	5'-9"	743	24	789	15	120	6	197	7	230	8'-4"	226	30.3	4040	15
16	11'-2"	5'-7"	1'-2"	4'-5"	1'-3"	1'-3"	0.55	13'-3"	359	11'-2"	419	10'-11"	558	8'-5"	584									15'-6"	420	38	#9	10"	6'-1"	786	25	821	16	128	6	197	7	230	8'-4"	226	36.0	4728	16
17	11'-10"	5'-11"	1'-3 1/8"	4'-7 1/8"	1'-3"	1'-3"	0.58	13'-3"	359	12'-5"	466	12'-4"	630	9'-10"	683									16'-6"	447	38	#9	10"	6'-5"	829	27	887	17	136	7	230	7	230	8'-4"	226	38.5	5123	17
18	12'-6"	6'-3"	1'-4"	4'-11"	1'-6"	1'-3"	0.63	13'-3"	359	13'-7"	510	13'-9"	703	11'-2"	775									17'-6"	475	38	#9	10"	6'-9"	872	29	953	18	144	7	230	8	263	8'-4"	226	44.3	5510	18
19	13'-3"	6'-7"	1'-5"	5'-3"	1'-6"	1'-6"	0.66	13'-3"	359	14'-9"	554	15'-2"	775	12'-8"	879									18'-6"	502	38	#9	10"	7'-2"	926	30	986	18	144	7	230	8	263	8'-4"	226	48.1	5844	19
20	13'-10"	6'-11"	1'-6 1/4"	5'-4 3/4"	1'-6"	1'-6"	0.70	13'-3"	359	15'-11"	598	16'-7"	847	14'-1	978									19'-6"	529	38	#10	10"	7'-5"	1213	32	1051	19	152	8	263	8	263	8'-4"	226	50.9	6479	20
21	14'-6"	7'-3"	1'-7"	5'-8"	1'-9"	1'-6"	0.75	13'-3"	359	11'-2"	419	18'-0"	920	15'-5"	1070	9'-7"	815							20'-6"	556	38	#10	10"	7'-9"	1267	34	1117	20	160	8	263	9	296	8'-4"	226	57.7	7468	21
22	15'-2"	7'-7"	1'-8 1/8"	5'-10 7/8"	1'-9"	1'-6"	0.78	13'-3"	359	11'-2"	419	19'-5"	992	16'-11"	1174	10'-11"	928							21'-6"	583	38	#10	10"	8'-1"	1322	35	1150	21	168	8	263	9	296	8'-4"	226	61.0	7880	22
23	16'-0"	8'-0"	1'-9 1/4"	6'-2 3/4"	1'-9"	1'-6"	0.79	13'-3"	359	11'-2"	419	20'-11"	1069	18'-5"	1278	12'-4"	1048							22'-6"	610	76	#8	5"	8'-6"	1725	37	1216	22	176	9	296	10	329	8'-4"	226	64.8	8751	23
24	16'-6"	8'-3"	1'-10 5/8"	6'-4 5/8"	2'-0"	1'-6"	0.86	13'-3"	359	11'-2"	419	22'-3"	1137	19'-9"	1371	13'-7"	1155							23'-6"	637	76	#8	5"	8'-9"	1776	39	1281	23	184	9	296	10	329	8'-4"	226	72.4	9170	24
25	17'-3"	8'-7"	1'-11 1/4"	6'-8 1/4"	2'-0"	1'-6"	0.89	13'-3"	359	11'-2"	419	12'-2"	622	21'-2"	1469	15'-0"	1275	5'-1"	675					24'-6"	664	76	#8	5"	9'-2"	1860	40	1314	24	192	9	296	10	329	8'-4"	226	76.4	9700	25
26	18'-0"	9'-0"	2'-0 1/8"	6'-11 1/8"	2'-3"	1'-6"	0.93	13'-3"	359	11'-2"	419	12'-2"	622	22'-8"	1574	16'-4"	1388	6'-1"	808					25'-6"	692	76	#8	5"	9'-6"	1928	42	1380	25	200	10	329	11	361	8'-4"	226	85.2	10286	26
27	18'-6"	9'-4"	2'-1 1/4"	7'-0 3/4"	2'-3"	1'-6"	0.97	13'-3"	359	11'-2"	419	12'-2"	622	24'-1"	1672	17'-8"	1502	7'-1"	941					26'-6"	719	76	#9	5"	9'-10"	2541	44	1446	26	208	10	329	11	361	8'-4"	226	89.0	11345	27
28	19'-3"	9'-7"	2'-2 3/8"	7'-5 5/8"	2'-3"	1'-9"	1.00	13'-3"	359	11'-2"	419	12'-2"	622	25'-5"	1764	19'-0"	1615	8'-1"	1074					27'-6"	746	76	#9	5"	10'-1"	2606	45	1478	27	216	10	329	12	394	8'-4"	226	94.5	11848	28
29	20'-0"	10'-0"	2'-3 1/2"	7'-7 1/2"	2'-3"	1'-9"	1.02	13'-3"	359	11'-2"	419	12'-2"	622	27'-0"	1874	20'-5"	1735	9'-1"	1206					28'-6"	773	76	#9	5"	10'-5"	2692	47	1544	28	224	11	361	12	394	8'-4"	226	99.2	12429	29
30	20'-6"	10'-4"	2'-4 5/8"	7'-9 3/8"	2'-3"	1'-9"	1.06	13'-3"	359	11'-2"	419	12'-2"	622	14'-4"	995	21'-9"	1849	10'-1"	1339	17'-0"	2348			29'-6"	800	76	#10	5"	10'-9"	3516	49	1610	29	232	11	361	12	394	8'-4"	226	103.3	15070	30
31	21'-3"	10'-7"	2'-5 3/4"	8'-2 1/4"	2'-3"	1'-9"	1.09	13'-3"	359	11'-2"	419	12'-2"	622	14'-4"	995	23'-0"	1955	11'-1"	1472	18'-4"	2533			30'-6"	827	76	#10	5"	11'-2"	3652	50	1643	31	248	11	361	13	427	8'-4"	226	108.2	15739	31
32	22'-0"	11'-0"	2'-6 1/2"	8'-5 1/2"	2'-6"	1'-9"	1.13	13'-3"	359	11'-2"	419	12'-2"	622	14'-4"	995	24'-5"	2075	12'-1"	1605	19'-10"	2740			31'-6"	854	76	#10	5"	11'-6"	3761	52	1708	32	256	12	394	13	427	8'-4"	226	118.9	16441	32



BARS A1



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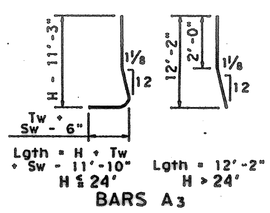

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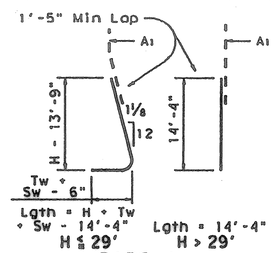

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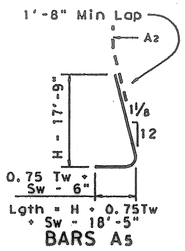

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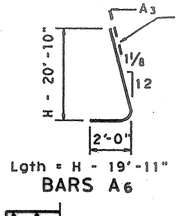

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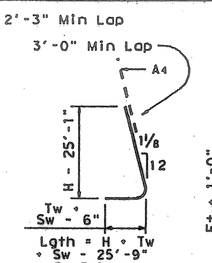

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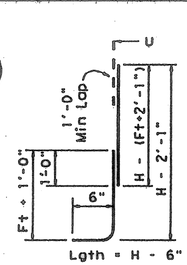

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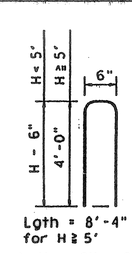
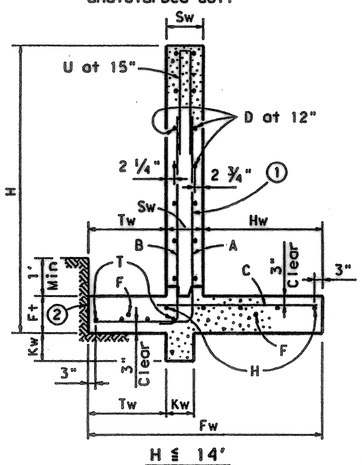
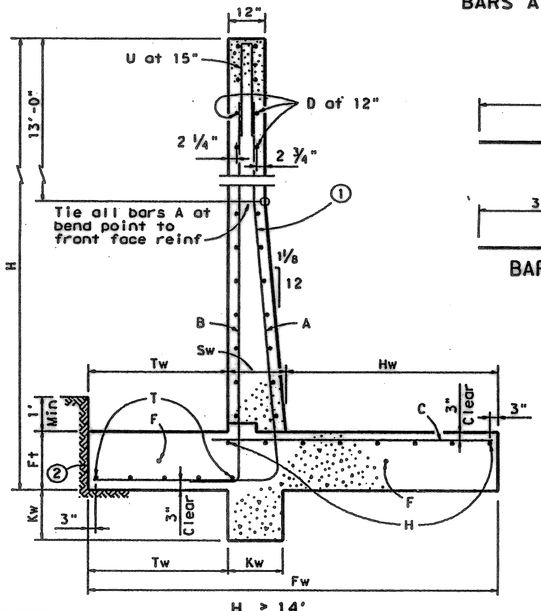


BARS U

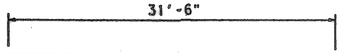


H ≤ 14'

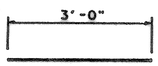


H > 14'

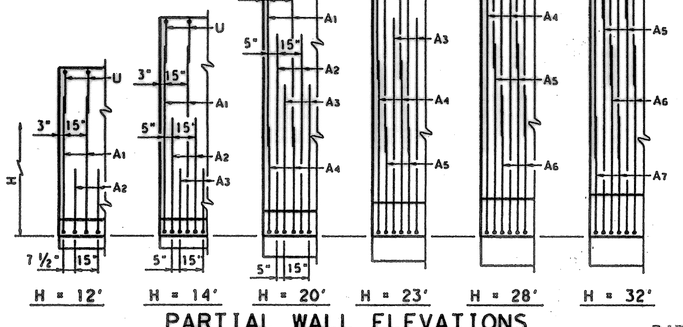
SECTIONS



BARS D, H, T



BARS F



PARTIAL WALL ELEVATIONS

(Showing vertical reinforcing pattern in back face)

① Place vertical bars inside of horizontal bars (Typ both faces)

② Place footing toe against undisturbed soil

GENERAL NOTES:

All concrete to be Class "C".
All reinforcing steel to be Grade 60.
For notes and details not shown on this sheet see sheet RW2.
Quantities are based on "H" being average height of panel.
Retaining Walls are designed to be coded as follows on Retaining Wall Layout Sheets.

HC - 21 - 28
LA - 28 - 32

- Panel Length ~ 32' is standard; 28' requires special quantities
- Average Height "H" of panel
- Design - A = no surcharge or slope above wall; B = slopes up to 4:1; C = traffic surcharge and/or slopes up to 2.5:1
- Footing pressure design ~ L = low, H = high

DISCLAIMER:
The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

LEVELS DISPLAYED
PATH:

Texas Department of Transportation
Bridge Division

RETAINING WALLS

RW 1 (L) A

FILE: rwstde05.dgn	DN: TxDOT	CK: TxDOT	DW: GHO	CK: MPM
©TxDOT April 2002	DISTRICT	FEDERAL AID PROJECT		SHEET
REVISIONS				
	COUNTY	CONTROL	SECT	JOB	HIGHWAY

AS BUILT
DATE 12/14/05

SD-01