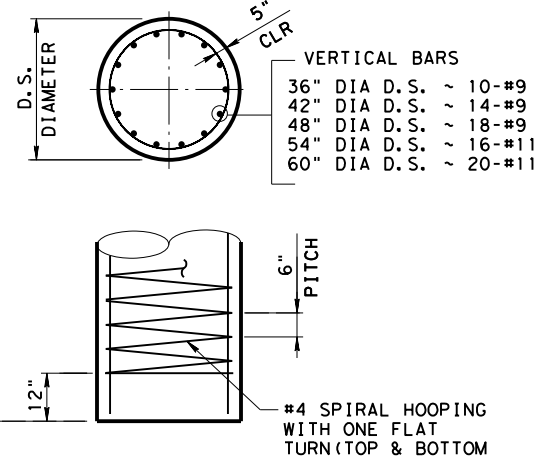
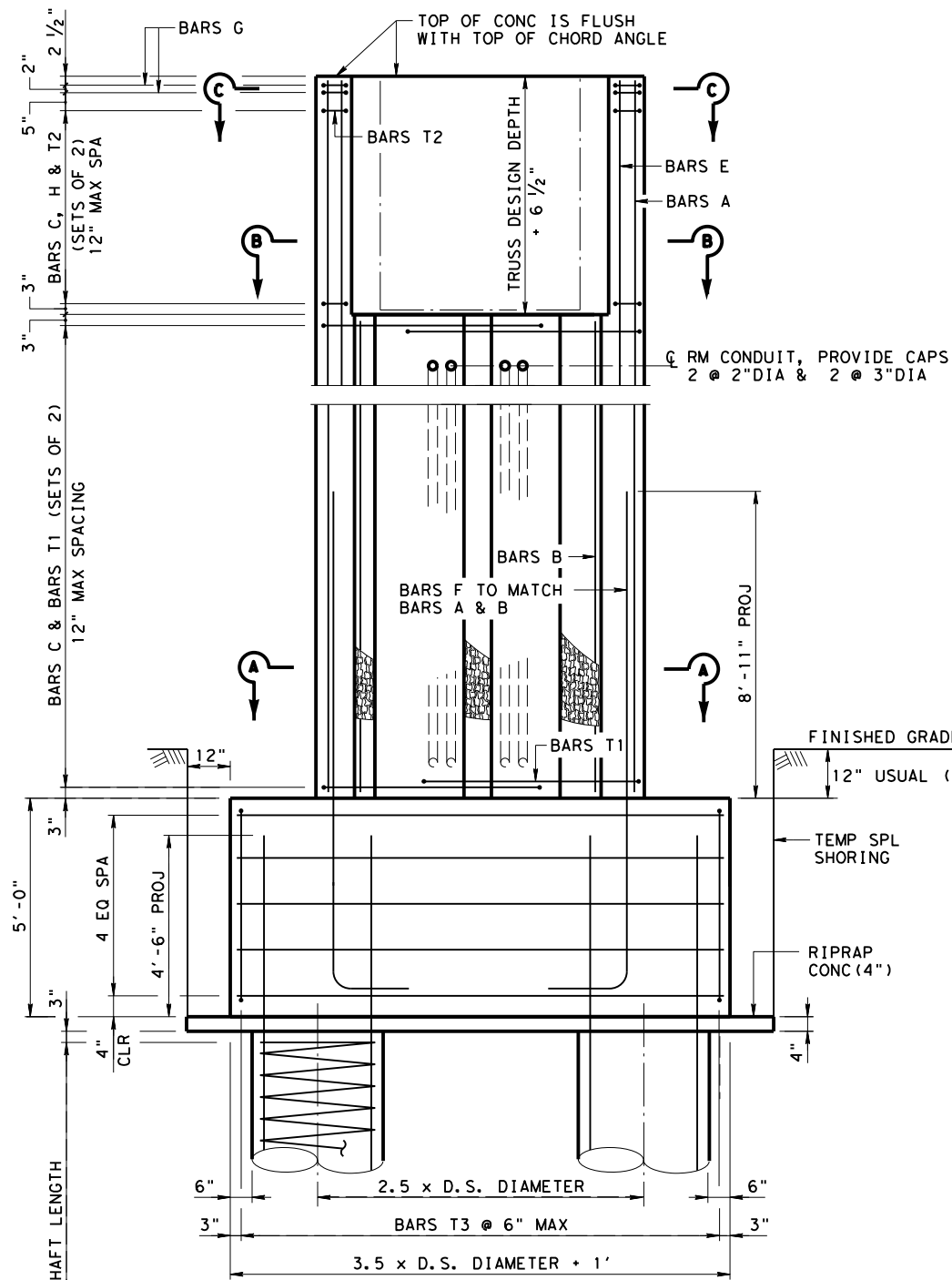
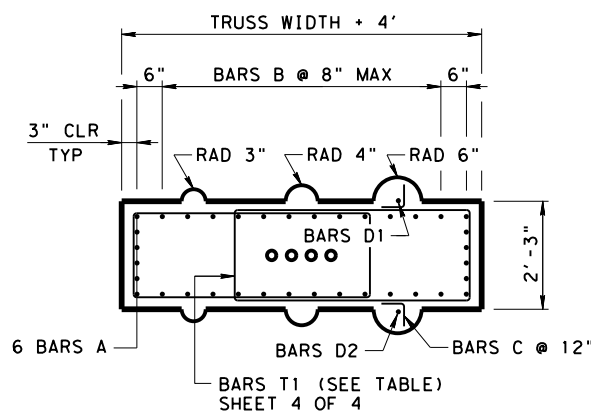
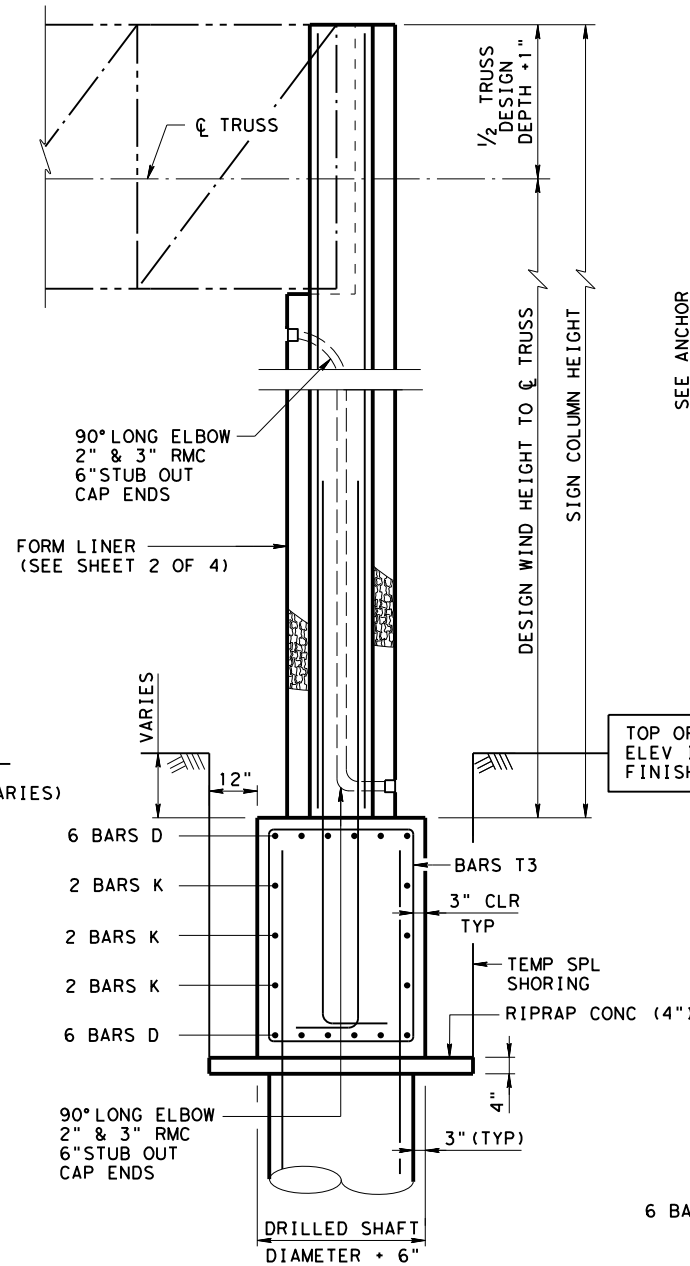


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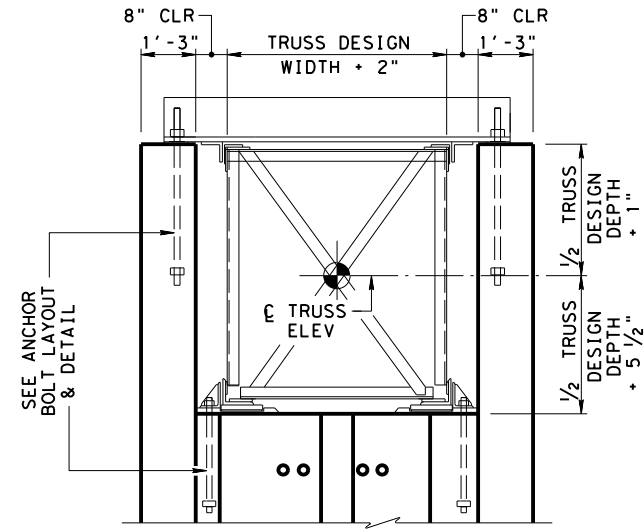
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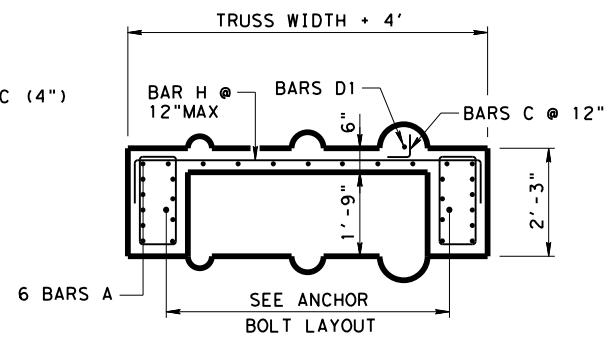
FRONT ELEVATION



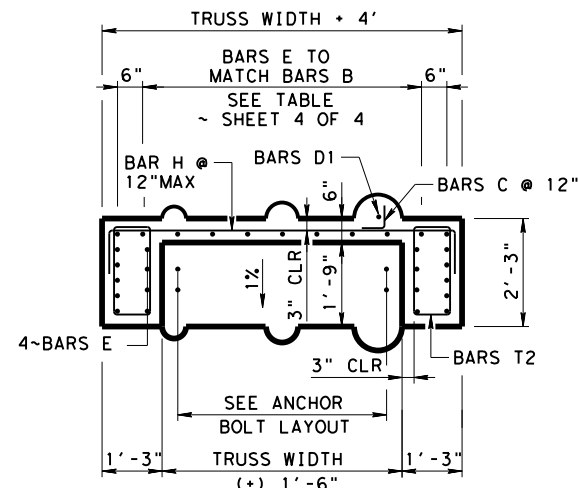
SECTION A-A



STRUSS ELEVATION



SECTION C-C



SECTION B-B

GENERAL NOTES:

1. CONCRETE SHALL BE CLASS "C" F'c = 3600 psi.
2. ALL REINFORCING SHALL BE ASTM A615 GRADE 60.
3. ALL DIMENSIONS OF THE REINFORCING BARS ARE TO ϕ OF BARS UNLESS OTHERWISE NOTED
4. CHAMFER ALL EXPOSED CORNERS $\frac{3}{4}$ ".
5. ANCHOR BOLT ASSEMBLIES AND ALL STEEL HARDWARE, INCLUDING CONDUIT IN THE COLUMNS ARE INCIDENTAL TO ITEM 650 OVERHEAD SIGN SUPPORTS.
6. ALL ANCHOR BOLTS SHALL BE A193-B7.
7. ALL STEEL HARDWARE SHALL BE GALVANIZED.
8. COMPONENTS OF THE STRUCTURE DESIGNED ACCORDING TO AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS AND /OR AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS.
9. FORM LINER IS "FRACTURED GRANITE" MODEL NO.110 PER SCOTT SYSTEMS INC.
10. CONCRETE COLUMNS ARE DESIGNED FOR THE EQUIVALENT AREA OF A 10'-0" DEEP SIGN PANEL OVER 100% OF THE SPAN LENGTH. DESIGN INCLUDES 3 POUNDS PER FOOT SQUARED FOR SIGN PANEL AND 20 POUNDS PER FOOT FOR LIGHTS AND 50 POUNDS PER FOOT FOR WALKWAYS OVER 100% OF THE SPAN LENGTH.

SHEET 1 OF 4



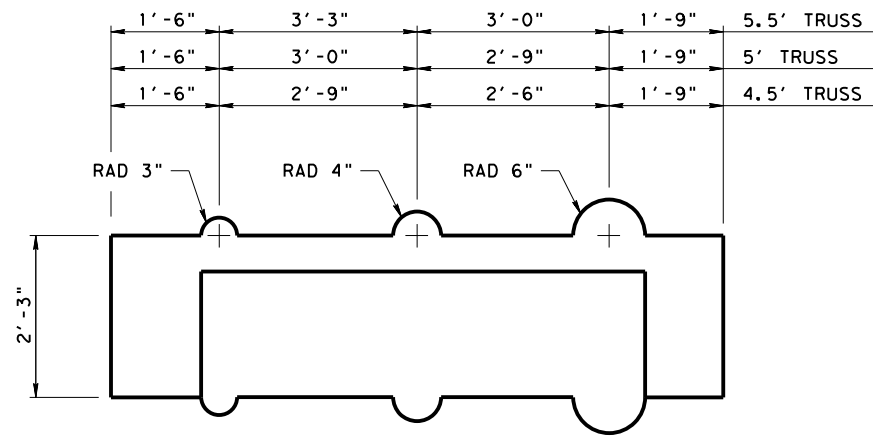
OVERHEAD SIGN BRIDGE COLUMN DETAILS VERTICAL SCHEME

OSB-VS-25 (HOU)

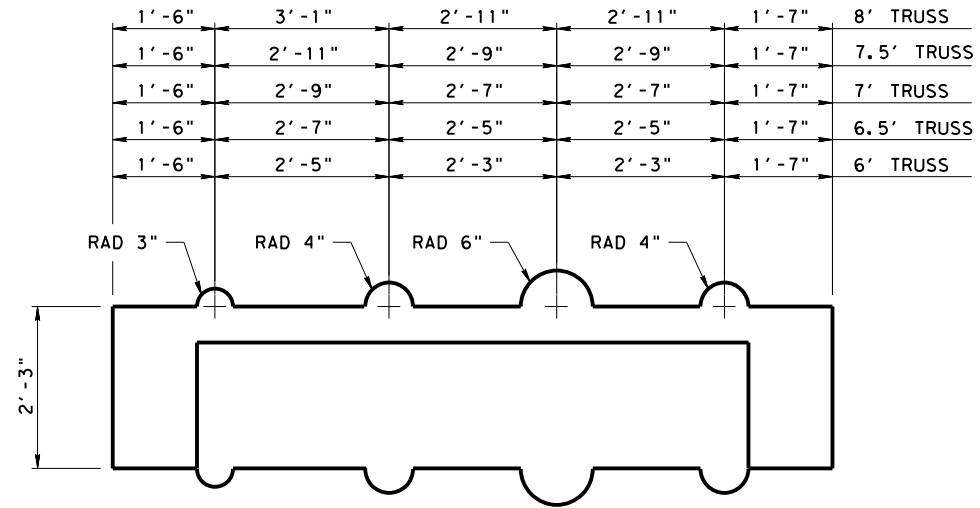
FILE: OSB-VS-25 (HOU). DGN	DW: TxDOT	CK: TxDOT	OW: TxDOT	CR: TxDOT
© TxDOT April 2025	CONT	SECT	JOB	HIGHWAY
REVISIONS				
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SMALL COLUMN

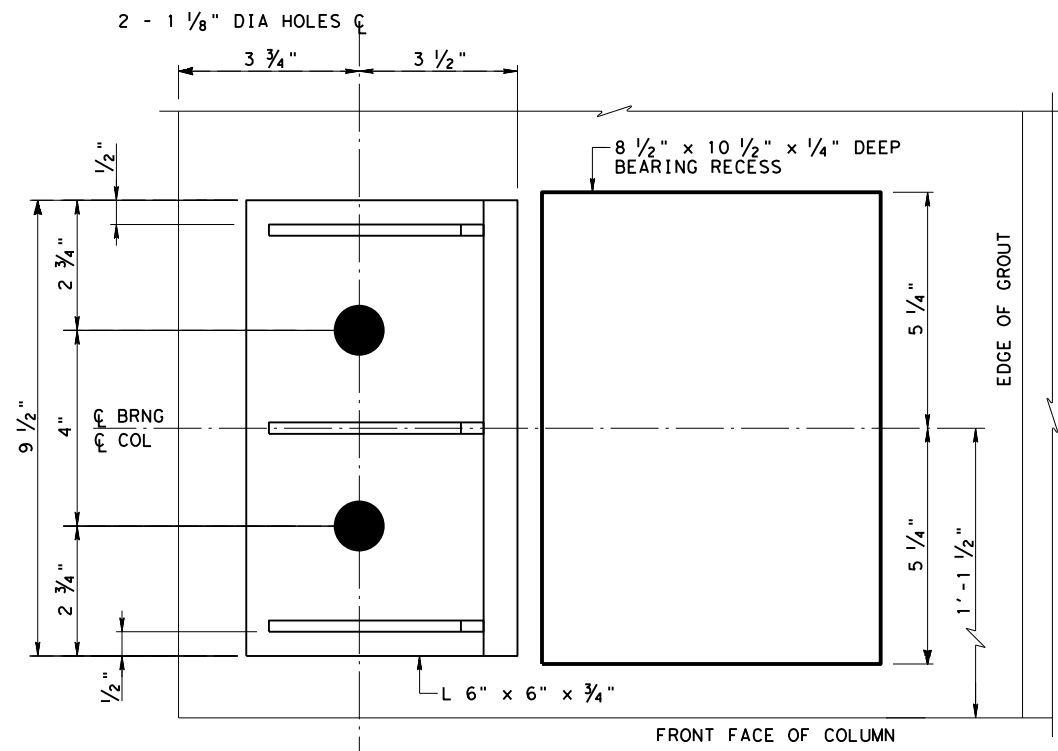


LARGE COLUMN

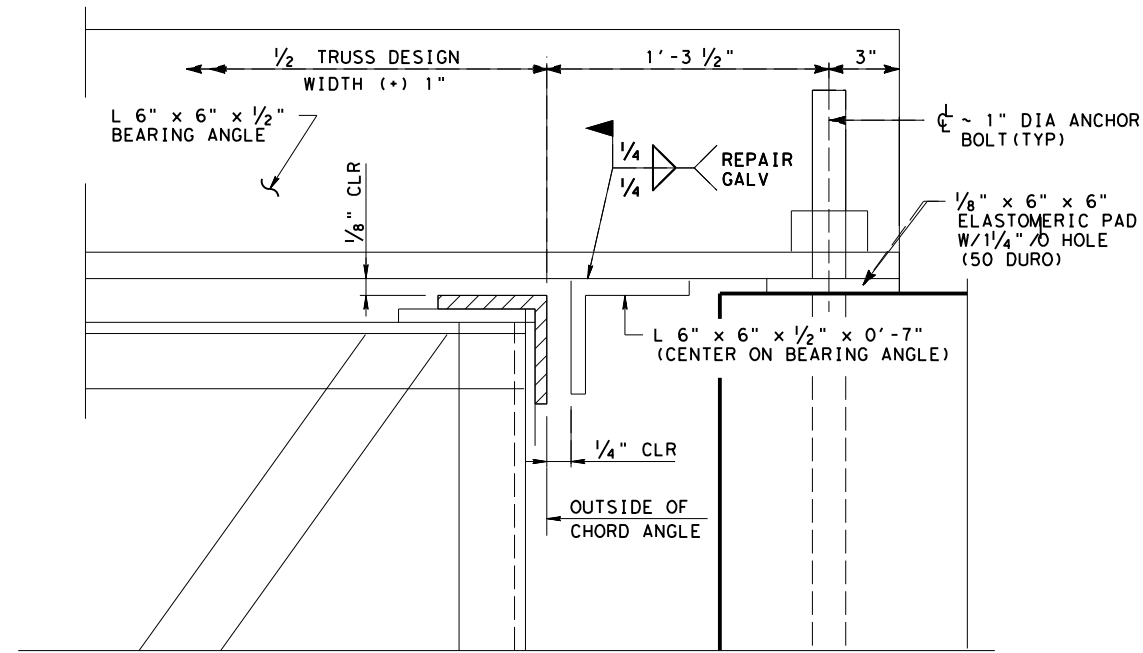
NOTE:
SMALL SIGN COLUMN
WILL REQUIRE FEWER
VERTICAL RELIEFS.

		Bridge Houston District Standard	
OVERHEAD SIGN BRIDGE COLUMN DETAILS VERTICAL SCHEME			
OSB-VS-25 (HOU)			
FILE: OSB-VS-25 (HOU).DGN	DN: TXDOT	CK: TXDOT	DW: TXDOT
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REVISIONS			
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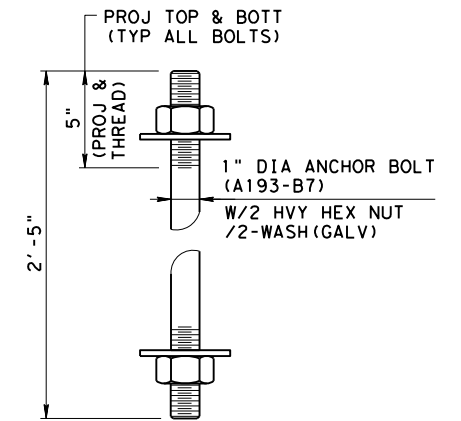


PLAN



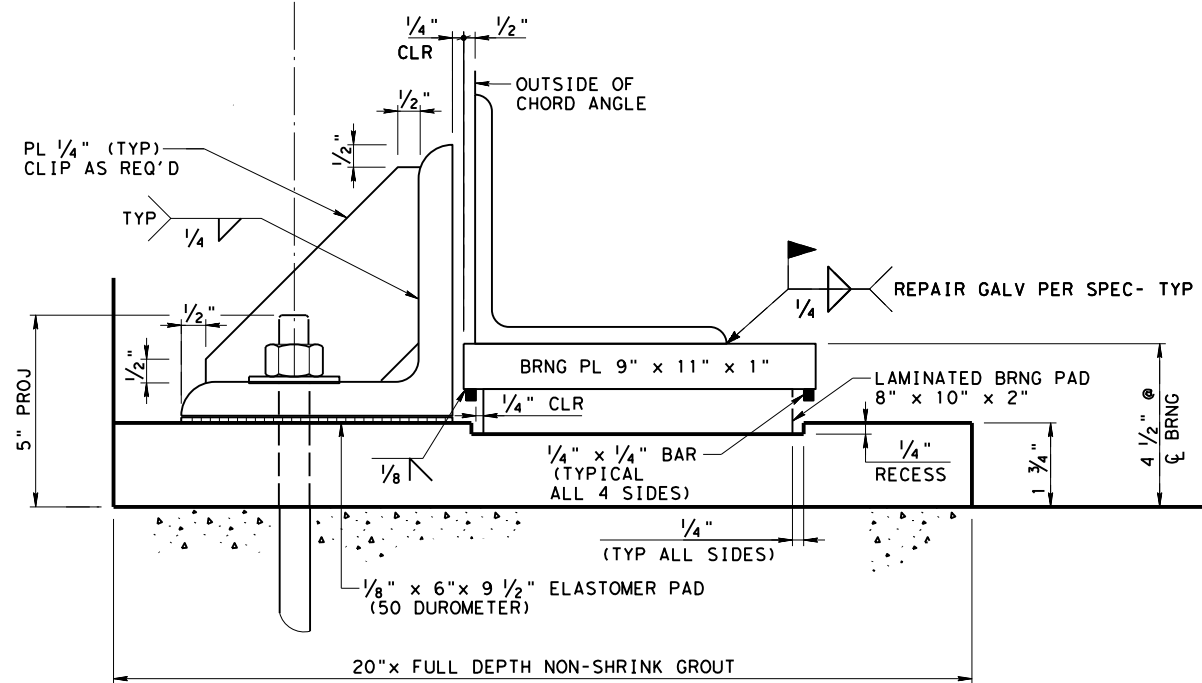
ELEVATION

UPPER LATERAL GUIDE AND BEARING PLATE DETAIL



ANCHOR BOLT DETAIL

6 TOTAL REQ'D PER COLUMN (2 TOP, 4 BOTTOM)
SNUG TIGHTEN ALL ANCHOR BOLT NUTS



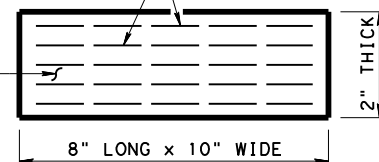
ELEVATION

LOWER LATERAL GUIDE AND BEARING PLATE DETAIL

NO DIRECT PAY FOR ELASTOMERIC PADS OR ANCHOR BOLTS
PAYMENT FOR SIGN BRIDGE TO INCLUDE LATERAL GUIDES

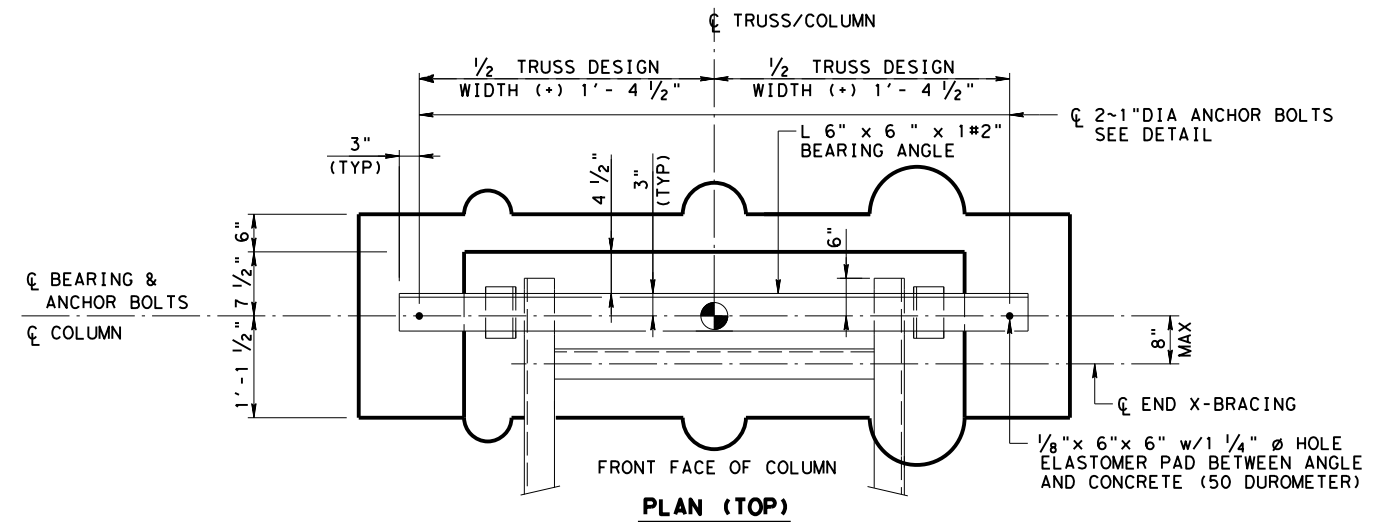
PLACE 0.105" THICK STEEL LAMINATES PARALLEL TO THE BOTTOM SURFACE OF THE PAD

50 DUROMETER ELASTOMER (6 ~ 1/4" THICK LAYERS)

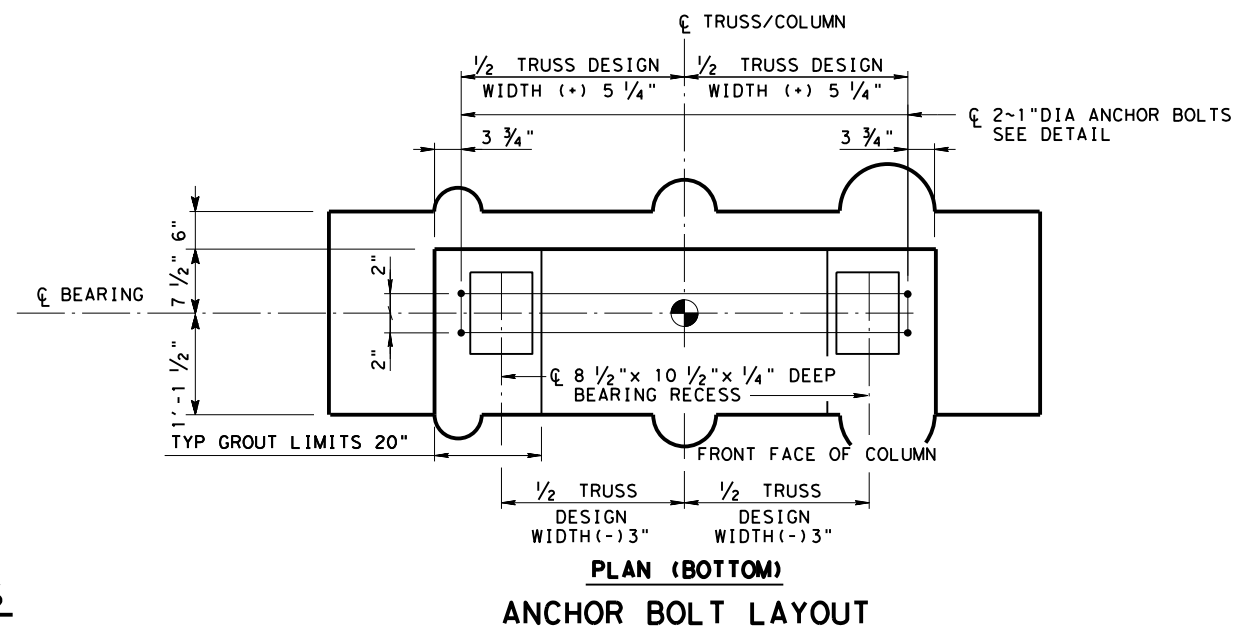


LAMINATED ELASTOMERIC BEARING DETAILS

* THE USE OF POLY ISOPRENE (NATURAL RUBBER) IS NOT ALLOWED



PLAN (TOP)



PLAN (BOTTOM)

ANCHOR BOLT LAYOUT

SHEET 3 OF 4



OVERHEAD SIGN BRIDGE COLUMN DETAILS VERTICAL SCHEME

OSB-VS-25 (HOU)

FILE: OSB-VS-25 (HOU). DGN	DN: TXDOT	CK: TXDOT	DW: TXDOT	CR: TXDOT
© TXDOT April 2025	CONT	SECT	JOB	HIGHWAY
REVISIONS				
04/2025: 2024 Spec Updates	DIST	COUNTY	SHEET NO.	
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DATE: FILE:

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DATE: FILE:

TABLE OF ESTIMATED FOOTING QUANTITIES (FOR ONE FOOTING)
36" DRILLED SHAFTS

BARS	NO.	SIZE	LENGTH	WEIGHT
D	12	#11	11'-2"	712
K	6	# 6	11'-2"	101
T3	23	# 5	15'-7"	374
* REINFORCING STEEL				LBS 1,187
TEMPORARY SPECIAL SHORING				SF 241
CL C CONC(SIGN FOOTING)				CY 7.5
RIPRAP CONC (4IN)				CY 0.9

TABLE OF ESTIMATED FOOTING QUANTITIES (FOR ONE FOOTING)
42" DRILLED SHAFTS

BARS	NO.	SIZE	LENGTH	WEIGHT
D	12	#11	12'-11"	824
K	6	# 6	12'-11"	116
T3	27	# 5	16'-7"	467
* REINFORCING STEEL				LBS 1,407
TEMPORARY SPECIAL SHORING				SF 269
CL C CONC(SIGN FOOTING)				CY 9.8
RIPRAP CONC (4IN)				CY 1.1

TABLE OF ESTIMATED FOOTING QUANTITIES (FOR ONE FOOTING)
48" DRILLED SHAFTS

BARS	NO.	SIZE	LENGTH	WEIGHT
D	12	#11	14'-8"	935
K	6	# 6	14'-8"	132
T3	30	# 5	17'-7"	550
* REINFORCING STEEL				LBS 1,617
TEMPORARY SPECIAL SHORING				SF 298
CL C CONC(SIGN FOOTING)				CY 12.5
RIPRAP CONC (4IN)				CY 1.4

TABLE OF ESTIMATED FOOTING QUANTITIES (FOR ONE FOOTING)
54" DRILLED SHAFTS

BARS	NO.	SIZE	LENGTH	WEIGHT
D	12	#11	16'-5"	1,047
K	6	# 6	16'-5"	148
T3	34	# 5	18'-7"	659
* REINFORCING STEEL				LBS 1,854
TEMPORARY SPECIAL SHORING				SF 326
CL C CONC(SIGN FOOTING)				CY 15.5
RIPRAP CONC (4IN)				CY 1.6

TABLE OF ESTIMATED FOOTING QUANTITIES (FOR ONE FOOTING)
60" DRILLED SHAFTS

BARS	NO.	SIZE	LENGTH	WEIGHT
D	12	#11	18'-2"	1,158
K	6	# 6	18'-2"	164
T3	37	# 5	19'-7"	756
* REINFORCING STEEL				LBS 2,078
TEMPORARY SPECIAL SHORING				SF 355
CL C CONC(SIGN FOOTING)				CY 18.8
RIPRAP CONC (4IN)				CY 1.9

* DOWEL BARS F ARE INCLUDED WITH SIGN COLUMN QUANTITIES

TABLE OF ESTIMATED COLUMN QUANTITIES (FOR ONE COLUMN)
4.5' x 4.5' TRUSS

BARS	NO.	SIZE	LENGTH	WEIGHT
A	12	#11	29'-10"	1,902
B	24	#11	24'-10"	3,166
C	55	# 4	1'-0"	37
D1	1	# 4	29'-10"	20
D2	1	# 4	24'-10"	17
E	20	# 9	8'-6"	578
F	36	#11	15'-6"	2,965
H	7	# 4	9'-11 1/2"	47
T1	52	# 5	15'-7 1/2"	847
T2	14	# 5	5'-10"	85
REINFORCING STEEL				LBS 9,664
CL C CONC(SIGN COLUMN)				CY 20.6

① QUANTITIES SHOWN ARE BASED ON A SIGN COLUMN HEIGHT OF 30'. FOR EACH LINEAR FOOT VARIATION IN HEIGHT MAKE THE FOLLOWING ADJUSTMENTS:

BARS A AND B LENGTH, 1'-0"
REINFORCING STEEL, 227 LB
CL C CONC(SIGN COLUMN), 0.76 CY.

TABLE OF ESTIMATED COLUMN QUANTITIES (FOR ONE COLUMN)
5.0' x 5.0' TRUSS

BARS	NO.	SIZE	LENGTH	WEIGHT
A	12	#11	29'-10"	1,902
B	24	#11	24'-4"	3,102
C	55	# 4	1'-0"	37
D1	1	# 4	29'-10"	20
D2	1	# 4	24'-4"	16
E	20	# 9	9'-0"	612
F	36	#11	15'-6"	2,965
H	8	# 4	10'-5 1/2"	56
T1	50	# 5	16'-4"	852
T2	16	# 5	5'-10"	97
REINFORCING STEEL				LBS 9,659
CL C CONC(SIGN COLUMN)				CY 21.5

② QUANTITIES SHOWN ARE BASED ON A SIGN COLUMN HEIGHT OF 30'. FOR EACH LINEAR FOOT VARIATION IN HEIGHT MAKE THE FOLLOWING ADJUSTMENTS:

BARS A AND B LENGTH, 1'-0"
REINFORCING STEEL, 228 LB
CL C CONC(SIGN COLUMN), 0.80 CY.

TABLE OF ESTIMATED COLUMN QUANTITIES (FOR ONE COLUMN)
5.5' x 5.5' TRUSS

BARS	NO.	SIZE	LENGTH	WEIGHT
A	12	#11	29'-10"	1,902
B	26	#11	23'-10"	3,292
C	54	# 4	1'-0"	36
D1	1	# 4	29'-10"	20
D2	1	# 4	23'-10"	16
E	21	# 9	9'-6"	678
F	38	#11	15'-6"	3,129
H	8	# 4	10'-11 1/2"	59
T1	50	# 5	16'-1 1/2"	841
T2	16	# 5	5'-10"	97
REINFORCING STEEL				LBS 10,070
CL C CONC(SIGN COLUMN)				CY 22.3

③ QUANTITIES SHOWN ARE BASED ON A SIGN COLUMN HEIGHT OF 30'. FOR EACH LINEAR FOOT VARIATION IN HEIGHT MAKE THE FOLLOWING ADJUSTMENTS:

BARS A AND B LENGTH, 1'-0"
REINFORCING STEEL, 238 LB
CL C CONC(SIGN COLUMN), 0.84 CY.

TABLE OF ESTIMATED COLUMN QUANTITIES (FOR ONE COLUMN)
6.0 x 6.0' TRUSS

BARS	NO.	SIZE	LENGTH	WEIGHT
A	12	#11	29'-10"	1,902
B	28	#11	23'-4"	3,471
C	54	# 4	1'-0"	36
D1	1	# 4	29'-10"	20
D2	1	# 4	23'-4"	16
E	22	# 9	10'-0"	748
F	40	#11	15'-6"	3,294
H	9	# 4	11'-5 1/2"	69
T1	48	# 5	17'-2 1/2"	862
T2	18	# 5	5'-10"	109
REINFORCING STEEL				LBS 10,527
CL C CONC(SIGN COLUMN)				CY 23.5

④ QUANTITIES SHOWN ARE BASED ON A SIGN COLUMN HEIGHT OF 30'. FOR EACH LINEAR FOOT VARIATION IN HEIGHT MAKE THE FOLLOWING ADJUSTMENTS:

BARS A AND B LENGTH, 1'-0"
REINFORCING STEEL, 251 LB
CL C CONC(SIGN COLUMN), 0.90 CY.

TABLE OF ESTIMATED COLUMN QUANTITIES (FOR ONE COLUMN)
6.5' x 6.5' TRUSS

BARS	NO.	SIZE	LENGTH	WEIGHT
A	12	#11	29'-10"	1,902
B	30	#11	22'-10"	3,639
C	53	# 4	1'-0"	35
D1	1	# 4	29'-10"	20
D2	1	# 4	22'-10"	15
E	23	# 9	10'-6"	821
F	42	#11	15'-6"	3,459
H	9	# 4	11'-11 1/2"	72
T1	48	# 5	18'-3 1/2"	916
T2	18	# 5	5'-10"	109
REINFORCING STEEL				LBS 10,988
CL C CONC(SIGN COLUMN)				CY 24.2

⑤ QUANTITIES SHOWN ARE BASED ON A SIGN COLUMN HEIGHT OF 30'. FOR EACH LINEAR FOOT VARIATION IN HEIGHT MAKE THE FOLLOWING ADJUSTMENTS:

BARS A AND B LENGTH, 1'-0"
REINFORCING STEEL, 264 LB
CL C CONC(SIGN COLUMN), 0.94 CY.

TABLE OF ESTIMATED COLUMN QUANTITIES (FOR ONE COLUMN)
7.0' x 7.0' TRUSS

BARS	NO.	SIZE	LENGTH	WEIGHT
A	12	#11	29'-10"	1,902
B	30	#11	22'-4"	3,559
C	53	# 4	1'-0"	35
D1	1	# 4	29'-10"	20
D2	1	# 4	22'-4"	15
E	23	# 9	11'-0"	860
F	42	#11	15'-6"	3,459
H	10	# 4	12'-5 1/2"	83
T1	46	# 5	19'-0"	912
T2	20	# 5	5'-10"	122
REINFORCING STEEL				LBS 10,967
CL C CONC(SIGN COLUMN)				CY 25.0

⑥ QUANTITIES SHOWN ARE BASED ON A SIGN COLUMN HEIGHT OF 30'. FOR EACH LINEAR FOOT VARIATION IN HEIGHT MAKE THE FOLLOWING ADJUSTMENTS:

BARS A AND B LENGTH, 1'-0"
REINFORCING STEEL, 266 LB
CL C CONC(SIGN COLUMN), 0.98 CY.

TABLE OF ESTIMATED COLUMN QUANTITIES (FOR ONE COLUMN)
7.5' x 7.5' TRUSS

BARS	NO.	SIZE	LENGTH	WEIGHT
A	12	#11	29'-10"	1,902
B	32	#11	21'-10"	3,712
C	52	# 4	1'-0"	35
D1	1	# 4	29'-10"	20
D2	1	# 4	21'-10"	15
E	24	# 9	11'-6"	938
F	44	#11	15'-6"	3,624
H	10	# 4	12'-11 1/2"	87
T1	44	# 5	18'-9 1/2"	862
T2	20	# 5	5'-10"	122
REINFORCING STEEL				LBS 11,317
CL C CONC(SIGN COLUMN)				CY 25.7

⑦ QUANTITIES SHOWN ARE BASED ON A SIGN COLUMN HEIGHT OF 30'. FOR EACH LINEAR FOOT VARIATION IN HEIGHT MAKE THE FOLLOWING ADJUSTMENTS:

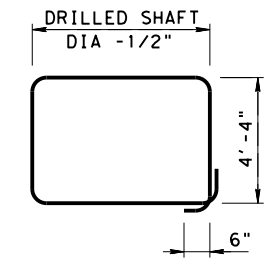
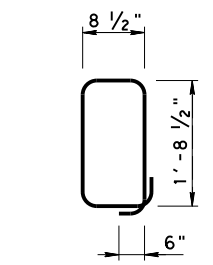
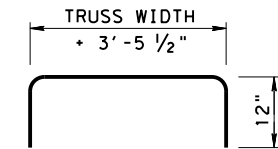
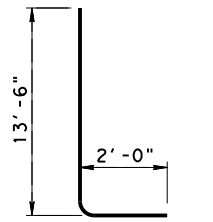
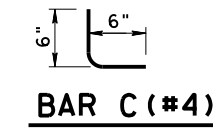
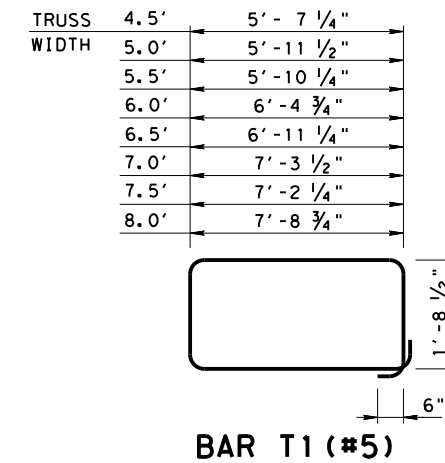
BARS A AND B LENGTH, 1'-0"
REINFORCING STEEL, 276 LB
CL C CONC(SIGN COLUMN), 1.02 CY.

TABLE OF ESTIMATED COLUMN QUANTITIES (FOR ONE COLUMN)
8.0' x 8.0' TRUSS

BARS	NO.	SIZE	LENGTH	WEIGHT
A	12	#11	29'-10"	1,902
B	34	#11	21'-4"	3,853
C	52	# 4	1'-0"	35
D1	1	# 4	29'-10"	20
D2	1	# 4	21'-4"	14
E	25	# 9	12'-0"	1,020
F	46	#11	15'-6"	3,789
H	11	# 4	13'-5 1/2"	99
T1	44	# 5	19'-10 1/2"	912
T2	22	# 5	5'-10"	134
REINFORCING STEEL				LBS 11,778
CL C CONC(SIGN COLUMN)				CY 26.3

⑧ QUANTITIES SHOWN ARE BASED ON A SIGN COLUMN HEIGHT OF 30'. FOR EACH LINEAR FOOT VARIATION IN HEIGHT MAKE THE FOLLOWING ADJUSTMENTS:

BARS A AND B LENGTH, 1'-0"
REINFORCING STEEL, 289 LB
CL C CONC(SIGN COLUMN), 1.06 CY.



Bridge Houston District Standard

OVERHEAD SIGN BRIDGE COLUMN DETAILS
VERTICAL SCHEME

OSB-VS-25 (HOU)

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SPAN (ft)	DESIGN WIND HEIGHT TO CL TRUSS (ft)	MAXIMUM DRILLED SHAFT AXIAL LOAD (kips)	MAXIMUM DRILLED SHAFT MOMENT (k-ft)	DRILLED SHAFT DIAMETER (in)	DRILLED SHAFT EMBEDMENT LENGTH (ft)			
					AVERAGE N (BLOWS/12") (SEE NOTE 8)			
					10	20	30	40
40	15	68	51	36	24	13	10	9
	20	85	83	36	29	16	12	10
	25	104	122	36	34	19	13	13
	30	123	171	36	40	22	15	15
	35	144	228	36	47	25	18	18
	40	165	294	36	53	28	20	20
	45	188	369	36	60	32	23	23
50	212	454	36	67	35	25	25	
50	15	74	51	36	25	14	10	9
	20	93	83	36	31	17	12	10
	25	113	122	36	37	20	14	13
	30	134	171	36	44	23	17	15
	35	157	228	36	51	27	19	18
	40	181	294	36	58	30	21	20
	45	206	369	36	65	34	24	23
50	232	454	36	73	38	26	25	
60	15	79	51	36	27	15	11	9
	20	100	83	36	33	18	13	11
	25	122	122	36	40	21	15	13
	30	145	171	36	47	25	18	15
	35	169	228	36	54	29	20	18
	40	195	294	36	62	33	23	20
	45	222	369	36	70	37	25	23
50	233	454	42	64	33	25	25	
70	15	84	51	36	29	16	12	9
	20	107	83	36	35	19	14	11
	25	130	122	36	43	23	16	13
	30	155	171	36	50	27	19	15
	35	181	228	36	58	31	21	18
	40	209	294	36	66	35	24	20
	45	238	369	36	75	39	27	23
50	248	454	42	68	35	25	25	
80	15	90	51	36	30	17	12	10
	20	114	83	36	38	20	15	12
	25	139	122	36	45	24	17	14
	30	166	171	36	53	28	20	16
	35	194	228	36	62	32	23	18
	40	223	294	36	71	37	26	20
	45	235	369	42	64	34	23	23
50	264	454	42	72	37	26	25	
90	15	95	51	36	32	17	13	10
	20	121	83	36	40	21	15	12
	25	148	122	36	48	25	18	14
	30	176	171	36	56	30	21	16
	35	206	228	36	66	34	24	19
	40	237	294	36	75	39	27	21
	45	249	369	42	68	35	25	23
50	279	454	42	76	39	27	25	

SPAN (ft)	DESIGN WIND HEIGHT TO CL TRUSS (ft)	MAXIMUM DRILLED SHAFT AXIAL LOAD (kips)	MAXIMUM DRILLED SHAFT MOMENT (k-ft)	DRILLED SHAFT DIAMETER (in)	DRILLED SHAFT EMBEDMENT LENGTH (ft)			
					AVERAGE N (BLOWS/12") (SEE NOTE 8)			
					10	20	30	40
100	15	106	55	36	35	19	14	11
	20	134	89	36	44	23	17	13
	25	165	132	36	53	28	20	15
	30	196	183	36	62	33	23	18
	35	229	244	36	72	38	26	20
	40	244	315	42	66	35	24	20
	45	276	395	42	75	39	27	23
50	289	485	48	69	36	25	25	
110	15	112	55	36	37	20	14	11
	20	142	89	36	46	25	17	14
	25	174	132	36	56	29	21	16
	30	207	183	36	66	34	24	19
	35	242	244	36	76	40	27	21
	40	257	315	42	70	36	25	20
	45	290	395	42	78	41	28	23
50	304	485	48	72	38	26	25	
120	15	118	55	36	39	21	15	12
	20	150	89	36	48	26	18	14
	25	184	132	36	59	31	22	17
	30	219	183	36	69	36	25	20
	35	256	244	36	81	42	29	22
	40	270	315	42	73	38	26	21
	45	286	395	48	68	35	25	23
50	319	485	48	75	39	27	25	
130	15	124	55	36	41	22	16	12
	20	158	89	36	51	27	19	15
	25	193	132	36	62	32	23	18
	30	213	183	42	58	31	21	17
	35	248	244	42	67	35	24	19
	40	283	315	42	77	40	28	21
	45	299	395	48	71	37	26	23
50	334	485	48	79	41	28	25	
140	15	133	60	36	43	23	16	13
	20	168	96	36	54	29	20	16
	25	206	141	36	65	34	24	19
	30	227	196	42	62	32	23	18
	35	263	261	42	71	37	26	20
	40	282	336	48	67	35	24	20
	45	317	421	48	75	39	27	23
50	354	516	48	83	43	30	25	

DESIGNER NOTE:
 THIS SHEET IS FOR DESIGNER'S USE
 IN DETERMINING DRILLED SHAFT DIAMETER,
 LOADS AND EMBEDMENT. DO NOT INSERT
 INTO PLANSET.

FOUNDATION DATA AND EMBEDMENT LENGTH TABLE

 Texas Department of Transportation		 Bridge Houston District Standard	
OVERHEAD SIGN BRIDGE FOUNDATION DATA AND EMBEDMENT SELECTION TABLE VERTICAL SCHEME OSB-VS-25 (HOU)			
FILE: OSB-VS-25 (HOU). DGN	DN: TXDOT	CK: TXDOT	DW: TXDOT
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REVISIONS 04/2025: 2024 Spec Updates Added Note 8		DIST	COUNTY
HOU		SHEET NO.	

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DATE: FILE:

SPAN(ft)	DESIGN WIND HEIGHT TO ϕ TRUSS (ft)	MAXIMUM DRILLED SHAFT AXIAL LOAD(kips)	MAXIMUM DRILLED SHAFT MOMENT(k-ft)	DRILLED SHAFT DIAMETER (in)	DRILLED SHAFT EMBEDMENT LENGTH (ft)			
					AVERAGE N (BLOWS/12") (SEE NOTE 8)			
					10	20	30	40
150	15	139	60	36	45	24	17	14
	20	176	96	36	56	30	21	16
	25	216	141	36	68	36	25	19
	30	236	196	42	64	34	23	18
	35	275	261	42	74	39	27	21
	40	293	336	48	70	36	25	20
	45	330	421	48	78	41	28	23
50	368	516	516	48	87	45	31	25
160	15	149	69	36	48	26	18	14
	20	189	110	36	60	32	22	17
	25	231	161	36	73	38	26	20
	30	238	223	48	57	30	21	17
	35	275	295	48	66	34	24	19
	40	313	379	48	74	39	27	21
	45	334	474	54	70	37	25	23
50	371	581	581	54	78	40	28	25
170	15	155	69	36	50	27	19	15
	20	197	110	36	63	33	23	18
	25	241	161	36	76	40	27	21
	30	248	223	48	59	31	22	17
	35	286	295	48	68	35	25	19
	40	325	379	48	77	40	28	21
	45	346	474	54	73	38	26	23
50	367	581	581	60	70	36	25	25
180	15	155	74	42	43	23	16	13
	20	194	117	42	53	28	20	16
	25	235	171	42	64	34	23	18
	30	261	236	48	62	33	23	18
	35	301	313	48	71	37	26	20
	40	324	401	54	69	36	25	20
	45	363	501	54	76	40	27	23
50	385	613	613	60	73	38	26	25
190	15	163	79	42	45	24	17	14
	20	204	125	42	56	29	21	16
	25	247	182	42	67	35	24	19
	30	291	250	42	79	41	28	22
	35	315	331	48	75	39	27	21
	40	339	424	54	72	37	26	20
	45	380	529	54	80	41	29	23
50	403	647	647	60	76	40	27	25
200	15	169	79	42	47	25	18	14
	20	211	125	42	58	30	21	17
	25	256	182	42	70	36	25	20
	30	302	250	42	82	42	29	23
	35	327	331	48	77	40	28	22
	40	351	424	54	74	38	27	21
	45	375	529	60	71	37	26	23
50	416	647	647	60	79	41	28	25

SPAN(ft)	DESIGN WIND HEIGHT TO ϕ TRUSS (ft)	MAXIMUM DRILLED SHAFT AXIAL LOAD(kips)	MAXIMUM DRILLED SHAFT MOMENT (k-ft)	DRILLED SHAFT DIAMETER (in)	DRILLED SHAFT EMBEDMENT LENGTH (ft)			
					AVERAGE N (BLOWS/12") (SEE NOTE 8)			
					10	20	30	40
210	15	178	84	42	49	26	18	15
	20	222	133	42	61	32	22	17
	25	269	193	42	73	38	26	20
	30	317	265	42	85	44	30	24
	35	342	349	48	81	42	29	22
	40	367	447	54	77	40	28	22
	45	392	557	60	74	39	27	23
50	434	681	60	82	42	29	25	
220	15	184	84	42	51	27	19	15
	20	230	133	42	63	33	23	18
	25	278	193	42	75	39	27	21
	30	307	265	48	73	38	26	20
	35	335	349	54	71	37	26	20
	40	379	447	54	80	41	29	22
	45	404	557	60	76	40	27	23
50	447	681	60	84	44	30	25	

1. DETERMINE DRILLED SHAFT DIAMETER AND MAXIMUM DRILLED SHAFT AXIAL LOAD (KIPS) FROM TABLE BASED ON SPAN LENGTH AND DESIGN WIND HEIGHT TO CENTERLINE OF TRUSS.
2. CONTACT THE HOUSTON DISTRICT LABORATORY FOR CONCISE DRILLED SHAFT EMBEDMENT LENGTH OR USE THE FOLLOWING ITERATIVE PROCEDURE.
3. MAKE AN INITIAL ESTIMATE OF THE DRILLED SHAFT EMBEDMENT LENGTH.
4. FROM SOIL EXPLORATION DATA, DETERMINE AN AVERAGE N VALUE (BLOWS/12") OF THE SOIL THROUGHOUT THE INITIAL EMBEDMENT LENGTH. USE A WEIGHTED-AVERAGE OF THE BLOW COUNT OF INDIVIDUAL STRATA.
5. USE TABLE TO DETERMINE THE REQUIRED DRILLED SHAFT EMBEDMENT LENGTH BASED ON AXIAL LOAD AND AVERAGE N.
6. IF THE REQUIRED EMBEDMENT LENGTH DIFFERS SIGNIFICANTLY FROM THE INITIAL ESTIMATED EMBEDMENT LENGTH, RETURN TO STEP 3 WITH THE REQUIRED EMBEDMENT LENGTH DETERMINED IN STEP 5 AND REPEAT STEPS 3, 4 & 5.
7. THE EMBEDMENT LENGTH TABLE IS BASED UPON THE GREATEST EMBEDMENT LENGTH DERIVED FROM MOMENT, UPLIFT, OR THE AXIAL LOAD IN THE DRILLED SHAFT.
8. TCP N-VALUE, REFER TO APPENDIX 2, TXDOT GEOTECHNICAL MANUAL-LRFD, APRIL 2024 FOR SPT N-VALUES AND TCP BLOW COUNTS CONVERSION

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OVERHEAD SIGN BRIDGE FOUNDATION DATA AND EMBEDMENT SELECTION TABLE VERTICAL SCHEME OSB-VS-25 (HOU)			
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FOUNDATION DATA AND EMBEDMENT LENGTH TABLE (CONT)