RCB-014

O

α.

REVISION NO.

DATE

LOCATIONS TO THE CITY ENGINEER FOR APPROVAL. SEE TRANSVERSE CONSTRUCTION JOINT DETAIL ON THIS SHEET. THE QUANTITY FOR REINFORCING STEEL OF E1 AND E2 BARS DOES NOT INCLUDE LAP SPLICES IN THE LENGTH OF THE BARREL OR AT

BASIS OF PAYMENT

404-00 STRUCTURAL CONCRETE C.Y. 411-00 REINFORCING STEEL

982 PIPE RAILING

HL-93 LOADING OR OKLAHOMA DEPARTMENT OF TRANSPORTATION OVERLOAD TRUCK

SHV NRL (SPECIAL HAULING VEHICLE NOTIONAL RATING LOAD) ALL LOAD VEHICLES LISTED, EXCEPT HL-93 AND OKLAHOMA DEPARTMENT OF TRANSPORTATION OVERLOAD TRUCK, WERE

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 9TH EDITION AASHTO MANUAL FOR BRIDGE EVALUATION, 3RD EDITION, 2018, WITH 2019 INTERIM REVISIONS

COMPLY WITH THE REQUIREMENTS OF THE CURRENT THE CITY OF

PROVIDE A 1 1/2" CHAMFER ON ALL EXPOSED CONCRETE EDGES. USE SIZED LUMBER FOR ALL CHAMFER STRIPS. PROVIDE 2" MINIMUM CLEAR COVER FOR ALL REINFORCING STEEL UNLESS NOTED OTHERWISE. PLACE TRANSVERSE CONSTRUCTION JOINTS IN ALL CULVERTS 100 FT. OR MORE IN LENGTH AT A MAXIMUM SPACING OF 60 FT. SUBMIT

DESCRIPTION

UNIT

LBS. L.F.

TRANSVERSE CONSTRUCTION JOINTS WITHIN THE BARREL. COSTS FOR SPLICES WILL NOT BE MEASURED FOR PAYMENT AND WILL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR REINFORCING STEEL.

PIPE RAILING REQUIRED ON TOP OF HEADWALL AND WINGWALLS. SEE STD. RCB-015 PipeRailing.

TIE **BEFOR**

DESIGN DATA

H-20 TRUCK

HS-20 TRUCK

B2 BAR

B1 BAR

CLASS AA CONCRETE f'c = 4 K.S.I. REINFORCING STEEL fy = 60 K.S.I.

TYPE 3-3 (SPECIAL HAULING VEHICLE)

R.C.B. GENERAL NOTES

OKLAHOMA CITY STANDARD SPECIFICATIONS.

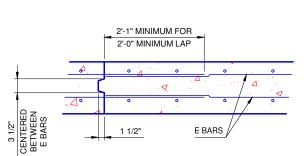
EV3 (TANDEM REAR AXLE EMERGENCY VEHICLE)

ANALYZED USING LOAD FACTOR DESIGN (LFD).

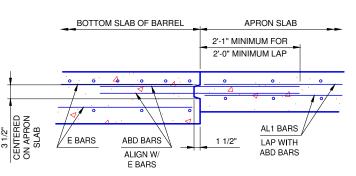
PLACE WD AND ABD BARS		
OR WINGWALLS AND APRON		
ED TO BARREL REINFORCING		
RE PLACING BARREL CONCRETE		

QUAN	TITIEC	1					7												REINFORCING STEEL																			$\overline{}$									
		4	S	EC1	10	N	⊩								_											KE	INFC	KUIN	6 31		_																
	BARREL DIMENSIONS		MENSIONS				A1 BARS				A2 BARS			A3 BARS			B1 BARS						B2 BARS							BARS		C2 BARS				C3 BARS				C4 BARS			E1 BARS AT 12" MAX.		E2 BARS AT 12" MAX.		
CONC. (C.Y.)	REINF. (LB.)	s	Н	т	U	wz	1210	SIZE SPA.	LENG	тн Р	IGHT ER T.	SIZE SPA.	LENGTH	WEIGH PER FT.		SPA.	LENGTH	WEIGHT PER FT.	SIZE SPA.	"X" (HORIZ.	"Y") (VERT.) LENGT	WEIGH H PER FT.		SPA.	"X" (HORIZ.)	"Y" (VERT.)	LENGTH	WEIGHT PER FT.	SIZE	SPA.	.ENGTH	WEIGHT PER FT.	SIZE	LENGT	WEIGHT H PER FT.	SIZE	LENG1	WEIG TH PEF FT.	₹ 🖔	SPA.	LENGTH	WEIGHT PER FT.	NO. SIZE	WEIGHT PER FT.	NO.	WEIGHT PER FT.
3.17	549.5	11'	3'	12"	13"	10" 10	" #	# 5 6"	36'-0)" 15	50.2	#6 6"	19'-0"	114.2	2 #5	12"	10'-11"	45.5	#5 6'	2'-8"	2'-10'	5'-6"	22.9	#5	5 6"	2'-8"	3'-10"	6'-6"	27.1	#5	6"	2'-10"	23.6	#5 6	5" 3'-10'	32.0	#4	12" 2'-5"	3.2	#4	12"	3'-10"	5.1	164 #4	109.6	24 #	4 16.0
3.30	568.7	11'	4'	12"	13"	10" 10	" #	# 5 6"	36'-0)" 15	50.2	#6 6"	19'-0"	114.2	2 #5	12"	10'-11"	45.5	#5 6'	2'-8"	2'-10'	5'-6"	22.9	#5	5 6"	2'-8"	4'-10"	7'-6"	31.3	#5	6"	2'-10"	23.6	#5 (6" 4'-10'	40.3	#4	12" 2'-5"	3.2	#4	12"	4'-10"	6.5	164 #4	109.6	32 #	4 21.4
3.42	587.9	11'	5'	12"	13"	10" 10	" #	# 5 6"	36'-0)" 15	50.2	#6 6"	19'-0"	114.2	#5	12"	10'-11"	45.5	#5 6'	2'-8"	2'-10'	5'-6"	22.9	#5	5 6"	2'-8"	5'-10"	8'-6"	35.5	#5	6"	2'-10"	23.6	#5 6	5'-10'	48.7	#4	12" 2'-5"	3.2	#4	12"	5'-10"	7.8	164 #4	109.6	40 #	4 26.7
3.64	610.5	11'	6'	12"	13"	11" 11	" #	# 5 6"	36'-4	l" 15	51.6	#6 6"	19'-2"	115.2	#5	12"	11'-0"	45.9	#5 6'	2'-9"	2'-10'	5'-7"	23.3	#5	5 6"	2'-9"	6'-10"	9'-7"	40.0	#5	6"	2'-10"	23.6	#5 6	6'-10'	57.0	#4	12" 2'-5"	3.2	#4	12"	6'-10"	9.1	164 #4	109.6	48 #	4 32.1
3.78	629.7	11'	7'	12"	13"	11" 11	" #	# 5 6"	36'-4	l" 15	51.6	#6 6"	19'-2"	115.2	2 #5	12"	11'-0"	45.9	#5 6'	2'-9"	2'-10'	5'-7"	23.3	#5	5 6"	2'-9"	7'-10"	10'-7"	44.2	#5	6"	2'-10"	23.6	#5 6	6" 7'-10'	65.4	#4	12" 2'-5"	3.2	#4	12"	7'-10"	10.5	164 #4	109.6	56 #	4 37.4
3.92	611.7	11'	8'	12"	13"	11" 11	" #	# 5 6"	36'-4	l" 15	51.6	#6 6"	19'-2"	115.2	2 #5	12"	11'-0"	45.9	#5 6'	2'-9"	2'-10'	5'-7"	23.3	#5	5 6"	2'-9"	8'-10"	11'-7"	48.3	#4	6"	2'-5"	12.9	#4 (8'-10'	47.2	#4	12" 2'-5"	3.2	#4	12"	8'-10"	11.8	164 #4	109.6	64 #	4 42.8
4.05	627.9	11'	9'	12"	13"	11" 11	" #	# 5 6"	36'-4	l" 15	51.6	#6 6"	19'-2"	115.2	2 #5	12"	11'-0"	45.9	#5 6'	2'-9"	2'-10'	5'-7"	23.3	#5	5 6"	2'-9"	9'-10"	12'-7"	52.5	#4	6"	2'-5"	12.9	#4 (5" 9'-10'	52.5	#4	12" 2'-5"	3.2	#4	12"	9'-10"	13.1	164 #4	109.6	72 #	4 48.1
4.34	658.3	11'	10'	12"	13"	12" 12	" #	# 5 6"	36'-8	3" 15	53.0	#6 6"	19'-4"	116.2	#5	12"	11'-1"	46.2	#5 6'	2'-10"	2'-10'	5'-8"	23.6	#5	5 6"	2'-10"	10'-10"	13'-8"	57.0	#4	6"	2'-5"	12.9	#4 (6" 10'-10	57.9	#5	12" 2'-10	" 5.9	#5	12" 1	10'-10"	22.6	164 #4	109.6	80 #	4 53.4
4.48	675.3	11'	11'	12"	13"	12" 12	" #	# 5 6"	36'-8	3" 15	53.0	#6 6"	19'-4"	116.2	2 #5	12"	11'-1"	46.2	#5 6'	2'-10"	2'-10'	5'-8"	23.6	#5	5 6"	2'-10"	11'-10"	14'-8"	61.2	#4	6"	2'-5"	12.9	#4 (5" 11'-10	63.2	#5	12" 2'-10	" 5.9	#5	12" 1	11'-10"	24.7	164 #4	109.6	88 #	4 58.8
3.74	791.0	12'	5'	12"	13"	11" 11	" #	# 6 6"	39'-4	l" 23	36.3	#7 6"	20'-10"	170.3	3 #4	6"	12'-0"	64.1	#6 6'	3'-2"	3'-3"	6'-5"	38.6	#6	6"	3'-2"	5'-10"	9'-0"	54.1	#5	6"	2'-10"	23.6	#5 6	5'' 5'-10'	48.7	#4	12" 2'-5"	3.2	#4	12"	5'-10"	7.8	176 #4	117.6	40 #	4 26.7
3.88	812.1	12'	6'	12"	13"	11" 11	" #	# 6 6"	39'-4	l" 23	36.3	#7 6"	20'-10"	170.3	3 #4	6"	12'-0"	64.1	#6 6'	3'-2"	3'-3"	6'-5"	38.6	#6	6"	3'-2"	6'-10"	10'-0"	60.1	#5	6"	2'-10"	23.6	#5 6	6'-10'	57.0	#4	12" 2'-5"	3.2	#4	12"	6'-10"	9.1	176 #4	117.6	48 #	4 32.1
4.01	834.5	12'	7'	12"	13"	11" 11	" #	# 6 6"	39'-4	l" 23	36.3	#7 6"	21'-0"	171.7	7 #4	6"	12'-0"	64.1	#6 6'	3'-2"	3'-3"	6'-5"	38.6	#6	6"	3'-2"	7'-10"	11'-0"	66.1	#5	6"	2'-10"	23.6	#5 6	5" 7'-10'	65.4	#4	12" 2'-5"	3.2	#4	12"	7'-10"	10.5	176 #4	117.6	56 #	4 37.4
4.27	821.7	12'	8'	12"	13"	12" 12	" #	# 6 6"	39'-8	3" 23	38.3	#7 6"	21'-0"	171.7	7 #4	6"	12'-1"	64.6	#6 6'	3'-3"	3'-3"	6'-6"	39.1	#6	6"	3'-3"	8'-10"	12'-1"	72.6	#4	6"	2'-5"	12.9	#4 (8'-10'	47.2	#4	12" 2'-5"	3.2	#4	12"	8'-10"	11.8	176 #4	117.6	64 #	4 42.8
4.42	839.7	12'	9'	12"	13"	12" 12	" #	# 6 6"	39'-8	3" 23	38.3	#7 6"	21'-0"	171.7	7 #4	6"	12'-1"	64.6	#6 6'	3'-3"	3'-3"	6'-6"	39.1	#6	6"	3'-3"	9'-10"	13'-1"	78.6	#4	6"	2'-5"	12.9	#4 (9'-10'	52.5	#4	12" 2'-5"	3.2	#4	12"	9'-10"	13.1	176 #4	117.6	72 #	4 48.1
4.57	857.8	12'	10'	12"	13"	12" 12	" #	# 6 6"	39'-8	3" 23	38.3	#7 6"	21'-0"	171.7	7 #4	6"	12'-1"	64.6	#6 6'	3'-3"	3'-3"	6'-6"	39.1	#6	6"	3'-3"	10'-10"	14'-1"	84.6	#4	6"	2'-5"	12.9	#4 (5" 10'-10	57.9	#4	12" 2'-5"	3.2	#4	12" 1	10'-10"	14.5	176 #4	117.6	80 #	4 53.4
4.72	894.8	12'	11'	12"	13"	12" 12	" #	# 6 6"	39'-8	3" 23	38.3	#7 6"	21'-0"	171.7	7 #4	6"	12'-1"	64.6	#6 6'	3'-3"	3'-3"	6'-6"	39.1	#6	6"	3'-3"	11'-10"	15'-1"	90.6	#4	6"	2'-5"	12.9	#4 (5" 11'-10	" 63.2	#4	6" 2'-5"	6.5	#4	6" 1	11'-10"	31.6	176 #4	117.6	88 #	4 58.8
4.86	914.2	12'	12'	12"	13"	12" 12	" #	# 6 6"	39'-8	3" 23	38.3	#7 6"	21'-0"	171.7	7 #4	6"	12'-1"	64.6	#6 6'	3'-3"	3'-3"	6'-6"	39.1	#6	6"	3'-3"	12'-10"	16'-1"	96.6	#4	6"	2'-5"	12.9	#4 (5" 12'-10	" 68.6	#4	6" 2'-5"	6.5	#4	6" 1	12'-10"	34.3	176 #4	117.6	96 #	4 64.1

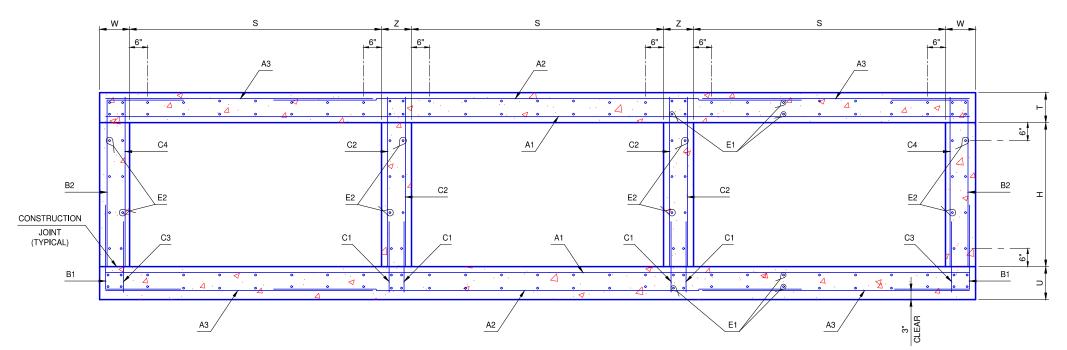
A, B AND C BARS ARE CENTERED PER L.F. OF BARREL LENGTH. FOR 0 SKEW END SECTIONS, ADJUST BAR QUANTITIES AS SHOWN ON END SECTION DETAILS, SHEET 2 OF 2. NO ADJUSTMENT IS REQUIRED FOR 30 DEGREE SKEW END SECTIONS.



TRANSVERSE CONSTRUCTION JOINT







TYPICAL BARREL SECTION

SEE SCHEDULE ON THIS SHEET FOR ACTUAL NUMBER AND SPACING OF E1 AND E2 BARS.