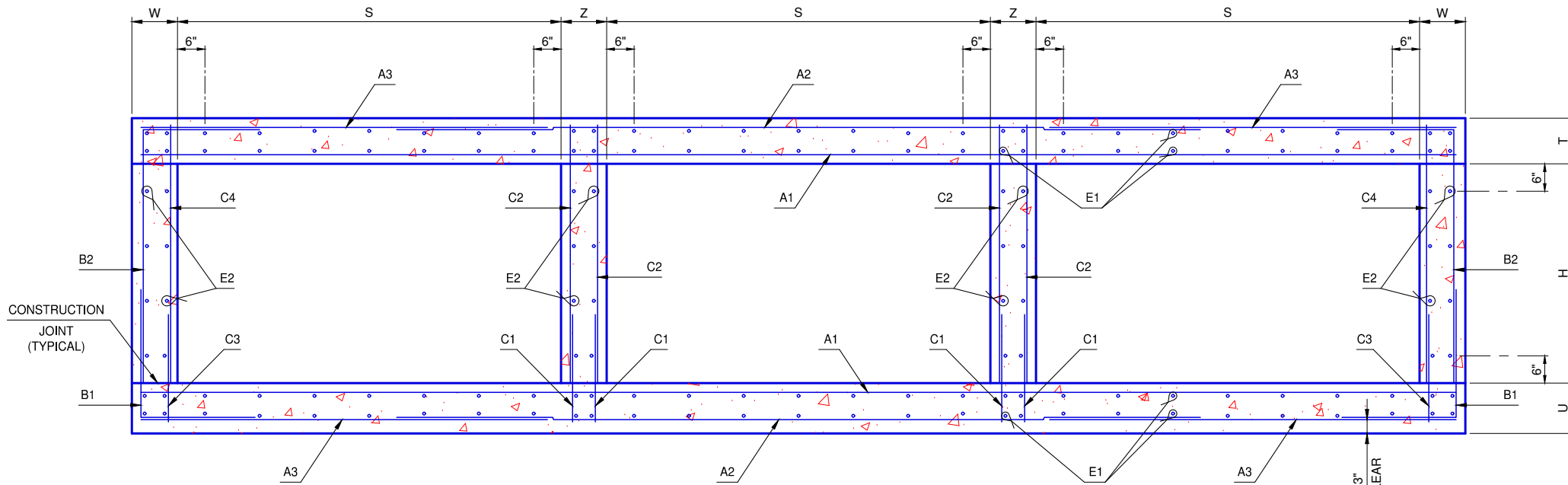
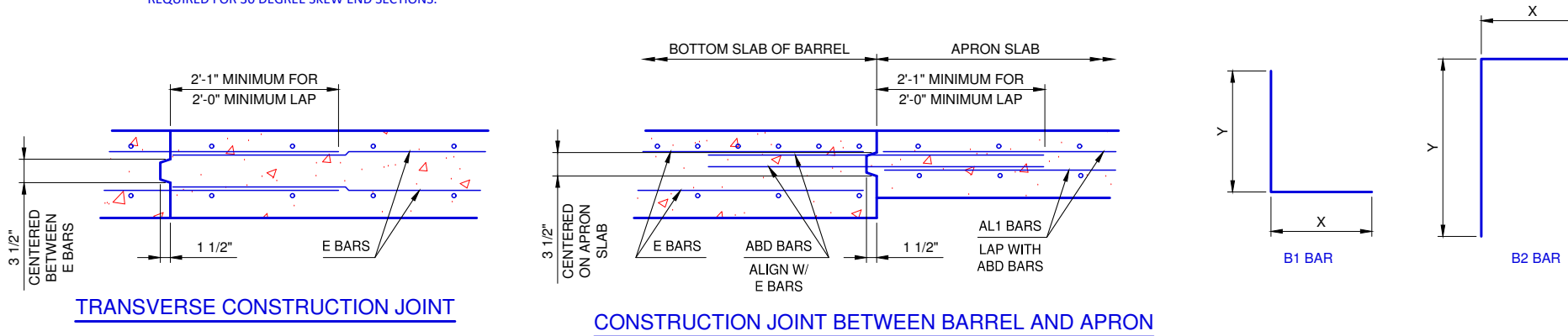


QUANTITIES		SECTION DIMENSIONS						REINFORCING STEEL																																													
PER FOOT OF BARREL								A1 BARS				A2 BARS				A3 BARS				B1 BARS				B2 BARS				C1 BARS				C2 BARS				C3 BARS				C4 BARS				E1 BARS AT 12" MAX.			E2 BARS AT 12" MAX.						
CONC. (C.Y.)	REINF. (LB.)	S	H	T	U	W	Z	SIZE	SPA.	LENGTH	WEIGHT PER FT.	SIZE	SPA.	LENGTH	WEIGHT PER FT.	SIZE	SPA.	LENGTH	WEIGHT PER FT.	SIZE	SPA.	"X" (HORIZ.)	"Y" (VERT.)	LENGTH	WEIGHT PER FT.	SIZE	SPA.	"X" (HORIZ.)	"Y" (VERT.)	LENGTH	WEIGHT PER FT.	SIZE	SPA.	LENGTH	WEIGHT PER FT.	SIZE	SPA.	LENGTH	WEIGHT PER FT.	SIZE	SPA.	LENGTH	WEIGHT PER FT.	NO.	SIZE	WEIGHT PER FT.	NO.	SIZE	WEIGHT PER FT.				
1.75	248.8	6'	3'	10"	11"	10"	10"	#5	12"	21'-0"	43.8	#6	12"	12'-6"	37.6	#4	12"	6'-9"	18.0	#5	12"	2'-8"	2'-8"	5'-4"	11.1	#5	12"	2'-8"	3'-8"	6'-4"	13.2	#4	6"	2'-3"	12.0	#4	6"	3'-8"	19.6	#4	12"	2'-3"	3.0	#4	12"	3'-8"	4.9	104	#4	69.5	24	#4	16.0
1.88	262.9	6'	4'	10"	11"	10"	10"	#5	12"	21'-0"	43.8	#6	12"	12'-6"	37.6	#4	12"	6'-9"	18.0	#5	12"	2'-8"	2'-8"	5'-4"	11.1	#5	12"	2'-8"	4'-8"	7'-4"	15.3	#4	6"	2'-3"	12.0	#4	6"	4'-8"	24.9	#4	12"	2'-3"	3.0	#4	12"	4'-8"	6.2	104	#4	69.5	32	#4	21.4
2.00	277.0	6'	5'	10"	11"	10"	10"	#5	12"	21'-0"	43.8	#6	12"	12'-6"	37.6	#4	12"	6'-9"	18.0	#5	12"	2'-8"	2'-8"	5'-4"	11.1	#5	12"	2'-8"	5'-8"	8'-4"	17.4	#4	6"	2'-3"	12.0	#4	6"	5'-8"	30.3	#4	12"	2'-3"	3.0	#4	12"	5'-8"	7.6	104	#4	69.5	40	#4	26.7
2.12	291.1	6'	6'	10"	11"	10"	10"	#5	12"	21'-0"	43.8	#6	12"	12'-6"	37.6	#4	12"	6'-9"	18.0	#5	12"	2'-8"	2'-8"	5'-4"	11.1	#5	12"	2'-8"	6'-8"	9'-4"	19.5	#4	6"	2'-3"	12.0	#4	6"	6'-8"	35.6	#4	12"	2'-3"	3.0	#4	12"	6'-8"	8.9	104	#4	69.5	48	#4	32.1
1.95	290.7	7'	3'	10"	11"	10"	10"	#5	12"	24'-0"	50.1	#7	12"	14'-8"	60.0	#4	12"	7'-5"	19.8	#4	6"	2'-3"	2'-3"	4'-6"	12.0	#4	6"	2'-3"	3'-8"	5'-11"	15.8	#4	6"	2'-3"	12.0	#4	6"	3'-8"	19.6	#4	12"	2'-3"	3.0	#4	12"	3'-8"	4.9	116	#4	77.5	24	#4	16.0
2.07	306.1	7'	4'	10"	11"	10"	10"	#5	12"	24'-0"	50.1	#7	12"	14'-10"	60.6	#4	12"	7'-5"	19.8	#4	6"	2'-3"	2'-3"	4'-6"	12.0	#4	6"	2'-3"	4'-8"	7'-4"	18.5	#4	6"	2'-3"	12.0	#4	6"	4'-8"	24.9	#4	12"	2'-3"	3.0	#4	12"	4'-8"	6.2	116	#4	77.5	32	#4	21.4
2.19	320.8	7'	5'	10"	11"	10"	10"	#5	12"	24'-0"	50.1	#7	12"	14'-10"	60.6	#4	12"	7'-5"	19.8	#4	6"	2'-3"	2'-3"	4'-6"	12.0	#4	6"	2'-3"	5'-8"	7'-11"	21.2	#4	6"	2'-3"	12.0	#4	6"	5'-8"	30.3	#4	12"	2'-3"	3.0	#4	12"	5'-8"	7.6	116	#4	77.5	40	#4	26.7
2.32	335.5	7'	6'	10"	11"	10"	10"	#5	12"	24'-0"	50.1	#7	12"	14'-10"	60.6	#4	12"	7'-5"	19.8	#4	6"	2'-3"	2'-3"	4'-6"	12.0	#4	6"	2'-3"	6'-8"	8'-11"	23.8	#4	6"	2'-3"	12.0	#4	6"	6'-8"	35.6	#4	12"	2'-3"	3.0	#4	12"	6'-8"	8.9	116	#4	77.5	48	#4	32.1
2.44	350.2	7'	7'	10"	11"	10"	10"	#5	12"	24'-0"	50.1	#7	12"	14'-10"	60.6	#4	12"	7'-5"	19.8	#4	6"	2'-3"	2'-3"	4'-6"	12.0	#4	6"	2'-3"	7'-8"	9'-11"	26.5	#4	6"	2'-3"	12.0	#4	6"	7'-8"	41.0	#4	12"	2'-3"	3.0	#4	12"	7'-8"	10.2	116	#4	77.5	56	#4	37.4
2.14	324.7	8'	3'	10"	11"	10"	10"	#4	6"	27'-0"	72.1	#5	6"	14'-10"	61.9	#4	12"	8'-2"	21.8	#4	6"	2'-3"	2'-3"	4'-6"	12.0	#4	6"	2'-3"	3'-8"	5'-11"	15.8	#4	6"	2'-3"	12.0	#4	6"	3'-8"	19.6	#4	12"	2'-3"	3.0	#4	12"	3'-8"	4.9	128	#4	85.5	24	#4	16.0
2.27	339.4	8'	4'	10"	11"	10"	10"	#4	6"	27'-0"	72.1	#5	6"	14'-10"	61.9	#4	12"	8'-2"	21.8	#4	6"	2'-3"	2'-3"	4'-6"	12.0	#4	6"	2'-3"	4'-8"	6'-11"	18.5	#4	6"	2'-3"	12.0	#4	6"	4'-8"	24.9	#4	12"	2'-3"	3.0	#4	12"	4'-8"	6.2	128	#4	85.5	32	#4	21.4
2.39	354.1	8'	5'	10"	11"	10"	10"	#4	6"	27'-0"	72.1	#5	6"	14'-10"	61.9	#4	12"	8'-2"	21.8	#4	6"	2'-3"	2'-3"	4'-6"	12.0	#4	6"	2'-3"	5'-8"	7'-11"	21.2	#4	6"	2'-3"	12.0	#4	6"	5'-8"	30.3	#4	12"	2'-3"	3.0	#4	12"	5'-8"	7.6	128	#4	85.5	40	#4	26.7
2.51	368.8	8'	6'	10"	11"	10"	10"	#4	6"	27'-0"	72.1	#5	6"	14'-10"	61.9	#4	12"	8'-2"	21.8	#4	6"	2'-3"	2'-3"	4'-6"	12.0	#4	6"	2'-3"	6'-8"	8'-11"	23.8	#4	6"	2'-3"	12.0	#4	6"	6'-8"	35.6	#4	12"	2'-3"	3.0	#4	12"	6'-8"	8.9	128	#4	85.5	48	#4	32.1
2.64	383.5	8'	7'	10"	11"	10"	10"	#4	6"	27'-0"	72.1	#5	6"	14'-10"	61.9	#4	12"	8'-2"	21.8	#4	6"	2'-3"	2'-3"	4'-6"	12.0	#4	6"	2'-3"	7'-8"	9'-11"	26.5	#4	6"	2'-3"	12.0	#4	6"	7'-8"	41.0	#4	12"	2'-3"	3.0	#4	12"	7'-8"	10.2	128	#4	85.5	56	#4	37.4
2.88	400.5	8'	8'	10"	11"	11"	11"	#4	6"	27'-4"	73.0	#5	6"	15'-0"	62.6	#4	12"	8'-3"	22.0	#4	6"	2'-4"	2'-3"	4'-7"	12.2	#4	6"	2'-4"	8'-8"	11'-0"	29.4	#4	6"	2'-3"	12.0	#4	6"	8'-8"	46.3	#4	12"	2'-3"	3.0	#4	12"	8'-8"	11.6	128	#4	85.5	64	#4	42.8

NOTE:
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.

BASIS OF PAYMENT		
CODE	DESCRIPTION	UNIT
404-00	STRUCTURAL CONCRETE	C.Y.
411-00	REINFORCING STEEL	LBS.
982	PIPE RAILING	L.F.



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

PLACE WD AND ABD BARS
FOR WINGWALLS AND APRON
TIED TO BARREL REINFORCING
BEFORE PLACING BARREL CONCRETE

REVISION NO.
DATE

The City of
Oklahoma City
Public Works Department
Engineering Division

APPROVED BY: DATE: 6/22/2023
ERIC J. WENGER, P.E.
CITY ENGINEER

THESE STANDARD DRAWINGS AND ASSOCIATED CALCULATIONS HAVE BEEN PREPARED BY CEC CORPORATION UNDER CONTRACT WITH THE CITY OF OKLAHOMA CITY.

R.C.B. CULVERTS - BARREL DETAILS
6', 7' AND 8' SPANS - TRIPLE CELL
2' TO 10' FILL

Drawing Number
RCB-012