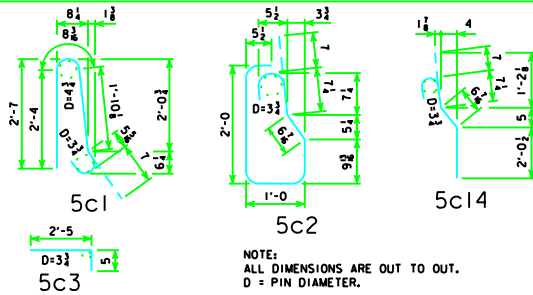


REINFORCING STEEL-TWO BARRIER RAILS

(NOTE: THESE REINFORCING BARS TO BE USED ON ALL SKEWS)

BRIDGE LENGTH			46'-8			55'-0			67'-6			80'-0			90'-0			100'-0			110'-0				
SECTION	BAR	LOCATION	SHAPE	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	
STANDARD SECTION	5c1	VERTICAL	5c1	100	5'-11	617	116	5'-11	716	142	5'-11	876	186	5'-11	1148	206	5'-11	1271	226	5'-11	1395	246	5'-11	1518	
	5c2	VERTICAL	5c2	100	6'-0	626	116	6'-0	726	142	6'-0	889	166	6'-0	1039	186	6'-0	1164	206	6'-0	1289	226	6'-0	1414	
	5c3	VERTICAL	5c3	-	-	-	-	-	-	-	-	-	20	2'-10	59	20	2'-10	59	20	2'-10	59	20	2'-10	59	
	5c14	VERTICAL	5c14	-	-	-	-	-	-	-	-	-	20	3'-10	80	20	3'-10	80	20	3'-10	80	20	3'-10	80	
	5d1	LONGITUDINAL	5d1	36	26'-1	979	36	30'-3	1136	36	36'-6	1371	54	32'-7	1835	54	35'-11	2023	54	39'-3	2211	72	32'-6	2441	
	4 END SECTIONS @ 412 LBS.					1648				1648				1648				1648				1648			1648
TOTAL LBS. (INCLUDE WITH SUPERSTRUCTURE REINFORCING)						3870			4226			4784			5809			6245			6682			7160	

BENT BAR DETAILS



CONCRETE PLACEMENT SUMMARY

BRIDGE LENGTH		46'-8	55'-0	67'-6	80'-0	90'-0	100'-0	110'-0
STANDARD SECTION *	2 x B @ 0.1052 CU.YD. PER FT.	10.5	12.3	14.9	19.7	21.8	23.9	26.0
END SECTION	4 @ 0.62 CU.YD.	2.5	2.5	2.5	2.5	2.5	2.5	2.5
TOTAL (CU. YD.)		13.0	14.8	17.4	22.2	24.3	26.4	28.5

* SEE SHEET H24SI-31-05 FOR DIMENSION "B".
CONCRETE QUANTITIES SHOWN ARE BASED
ON 30° SKEW BID LENGTHS.

CONCRETE BARRIER RAIL QUANTITIES

BRIDGE LENGTH		UNIT	46'-8	55'-0	67'-6	80'-0	90'-0	100'-0	110'-0
CONCRETE BARRIER RAILING	0° SKEW	L.F.	127.3	144.0	169.0	214.0	234.0	254.0	274.0
CONCRETE BARRIER RAILING	15° SKEW	L.F.	127.5	144.2	169.2	214.2	234.2	254.2	274.2
CONCRETE BARRIER RAILING	30° SKEW	L.F.	128.3	144.9	169.9	214.9	234.9	254.9	274.9

LATEST REVISION DATE :

APPROVED BY

STANDARD DESIGN - 24' ROADWAY, SINGLE SPAN BRIDGE

PRETENSIONED PRESTRESSED
CONCRETE BEAM BRIDGES

JANUARY, 2005

HS20-44 LOADING

IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION

BARRIER RAIL DETAILS
SHEET 3 OF 3

H24SI-33-05