

FHWA REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	87N-0094-01	1998	71	202

REINFORCED CONCRETE MANHOLE			
LEGEND	DIMENSIONS	LEGEND	DIMENSIONS
H	1.301m	Top - Flow	1.401m
L	1.880m	Depth of Stack	0.545m
W	1.880m		
BILL OF MATERIALS			
BAR SYMBOLS	BAR SIZES	BAR TOTALS	BAR LENGTHS
A ₁	M13	48	1.80m
A ₂	M13	60	0.92m
B	M13	52	1.80m
C	M13	60	1.22m
D	M13	28	1.37m
E	M13	40	1.80m
X	M13	16	1.07m
MANHOLE LOCATIONS			
BL Sta 0+327.401, 9.176m Lt.			
CONCRETE (CLASS A)		2.9	cu. m
EXCAVATION (CLASS III)		17.5	cu. m
REINFORCING STEEL		433.8	Kg
CAST IRON		147.4	Kg

REINFORCED CONCRETE MANHOLE			
LEGEND	DIMENSIONS	LEGEND	DIMENSIONS
H	1.626m	Top - Flow	2.012m
L	1.880m	Depth of Stack	0.856m
W	1.880m		
BILL OF MATERIALS			
BAR SYMBOLS	BAR SIZES	BAR TOTALS	BAR LENGTHS
A ₁	M13	56	1.80m
A ₂	M13	60	1.25m
B	M13	52	1.80m
C	M13	60	1.22m
D	M13	32	1.37m
E	M13	40	1.80m
X	M13	12	1.17m
MANHOLE LOCATIONS			
BL Sta 0+327.410, 4.000m Rt.			
CONCRETE (CLASS A)		3.4	cu. m
EXCAVATION (CLASS III)		23.6	cu. m
REINFORCING STEEL		469.9	Kg
CAST IRON		147.4	Kg

REINFORCED CONCRETE MANHOLE			
LEGEND	DIMENSIONS	LEGEND	DIMENSIONS
H	1.656m	Top - Flow	2.432m
L	1.880m	Depth of Stack	1.246m
W	1.880m		
BILL OF MATERIALS			
BAR SYMBOLS	BAR SIZES	BAR TOTALS	BAR LENGTHS
A ₁	M13	56	1.80m
A ₂	M13	60	1.28m
B	M13	52	1.80m
C	M13	60	1.22m
D	M13	32	1.37m
E	M13	40	1.80m
X	M13	12	1.18m
MANHOLE LOCATIONS			
BL Sta 0+390.486, 4.000m Rt.			
CONCRETE (CLASS A)		3.3	cu. m
EXCAVATION (CLASS III)		27.5	cu. m
REINFORCING STEEL		471.9	Kg
CAST IRON		147.4	Kg

REINFORCED CONCRETE MANHOLE			
LEGEND	DIMENSIONS	LEGEND	DIMENSIONS
H	1.656m	Top - Flow	2.825m
L	1.880m	Depth of Stack	1.639m
W	1.880m		
BILL OF MATERIALS			
BAR SYMBOLS	BAR SIZES	BAR TOTALS	BAR LENGTHS
A ₁	M13	56	1.80m
A ₂	M13	60	1.28m
B	M13	52	1.80m
C	M13	60	1.22m
D	M13	32	1.37m
E	M13	40	1.80m
X	M13	12	1.18m
MANHOLE LOCATIONS			
BL Sta 0+486.030, 4.000m Rt.			
CONCRETE (CLASS A)		3.3	cu. m
EXCAVATION (CLASS III)		31.3	cu. m
REINFORCING STEEL		471.9	Kg
CAST IRON		147.4	Kg

REINFORCED CONCRETE MANHOLE			
LEGEND	DIMENSIONS	LEGEND	DIMENSIONS
H	1.656m	Top - Flow	2.804m
L	1.880m	Depth of Stack	1.618m
W	1.880m		
BILL OF MATERIALS			
BAR SYMBOLS	BAR SIZES	BAR TOTALS	BAR LENGTHS
A ₁	M13	56	1.80m
A ₂	M13	60	1.28m
B	M13	52	1.80m
C	M13	60	1.22m
D	M13	32	1.37m
E	M13	40	1.80m
X	M13	12	1.18m
MANHOLE LOCATIONS			
BL Sta 0+653.500, 4.000m Rt.			
CONCRETE (CLASS A)		3.3	cu. m
EXCAVATION (CLASS III)		31.1	cu. m
REINFORCING STEEL		471.9	Kg
CAST IRON		147.4	Kg

REINFORCED CONCRETE MANHOLE			
LEGEND	DIMENSIONS	LEGEND	DIMENSIONS
H	2.311m	Top - Flow	4.668m
L	3.150m	Depth of Stack	2.941m
W	2.743m		
BILL OF MATERIALS			
BAR SYMBOLS	BAR SIZES	BAR TOTALS	BAR LENGTHS
A ₁	M13	40	3.07m
A ₁	M13	40	2.67m
A ₂	M13	100	1.93m
B	M13	44	3.07m
B	M13	38	2.67m
C	M13	100	1.22m
D	M13	44	1.37m
E	M13	28	3.07m
E	M13	32	2.67m
X	M13	4	7.51m
MANHOLE LOCATIONS			
BL Sta 0+802.393, 4.500m Rt.			
CONCRETE (CLASS A)		8.8	cu. m
EXCAVATION (CLASS III)		90.1	cu. m
REINFORCING STEEL		1014.4	Kg
CAST IRON		147.4	Kg

REINFORCED CONCRETE MANHOLE			
LEGEND	DIMENSIONS	LEGEND	DIMENSIONS
H	1.854m	Top - Flow	4.198m
L	1.880m	Depth of Stack	2.827m
W	1.880m		
BILL OF MATERIALS			
BAR SYMBOLS	BAR SIZES	BAR TOTALS	BAR LENGTHS
A ₁	M13	64	1.80m
A ₂	M13	60	1.47m
B	M13	52	1.80m
C	M13	60	1.22m
D	M13	36	1.37m
E	M13	40	1.80m
X	M13	16	1.24m
MANHOLE LOCATIONS			
BL Sta 0+804.099, 20.031m Lt.			
CONCRETE (CLASS A)		3.6	cu. m
EXCAVATION (CLASS III)		44.4	cu. m
REINFORCING STEEL		509.2	Kg
CAST IRON		147.4	Kg

REINFORCED CONCRETE MANHOLE			
LEGEND	DIMENSIONS	LEGEND	DIMENSIONS
H	1.676m	Top - Flow	3.176m
L	1.880m	Depth of Stack	1.970m
W	1.880m		
BILL OF MATERIALS			
BAR SYMBOLS	BAR SIZES	BAR TOTALS	BAR LENGTHS
A ₁	M13	56	1.80m
A ₂	M13	60	1.30m
B	M13	52	1.80m
C	M13	60	1.22m
D	M13	32	1.37m
E	M13	40	1.80m
X	M13	8	1.18m
MANHOLE LOCATIONS			
BL Sta 1+395.174, 13.500m Rt.			
CONCRETE (CLASS A)		3.4	cu. m
EXCAVATION (CLASS III)		34.6	cu. m
REINFORCING STEEL		468.4	Kg
CAST IRON		147.4	Kg



PROJECT NUMBER 472 - 82906				
DESIGN STAFF	DRAWN JMN	APPROVED JFB	DATE NOV 98	SCALE NONE

PROJ NUMBER 98 05 10026 DIRECTOR CENTZOO SHEET NAME BARQTY2
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R.C. MANHOLE - SUMMARY OF QUANTITIES REINFORCING STEEL, CONCRETE, EXCAVATION, AND CAST IRON

BAUGHMAN COMPANY P. A. ENGINEERING, SURVEYING, & PLANNING 316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

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