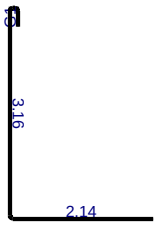
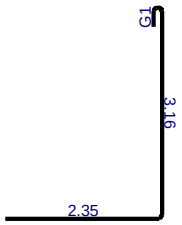
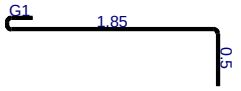
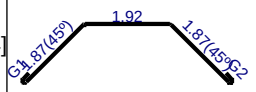
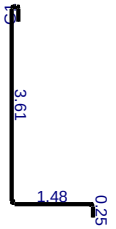
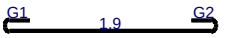
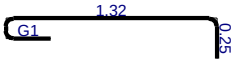
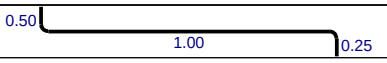
PAVIMENTACION SAN JOSE- CALAMAR TRAMO II
EL RETORNO
CALAMAR
ELEMENTO POR ELEMENTO

ACERO MURO EXTERIOR Y ZARPA INFERIOR (Es 1) Peso/Elemento= 367.50Kg

	DIAGRAMA	CANTIDAD	DIAMETRO	LONGITUD	PESO T	NOTAS
[1]	 G1(180º)=0.25m	9	5/8"	5.55	77.5	
[2]	 G1(180º)=0.25m	9	5/8"	5.76	80.5	
[3]	 G1(180º)=0.20m	8	1/2"	2.55	20.3	
[4]	 G1(180º)=0.20m G2(180º)=0.20m	10	1/2"	6.06	60.2	

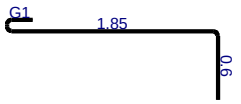
PazdelRío
Votorantim Siderurgia
2016

PAVIMENTACION SAN JOSE- CALAMAR TRAMO II
EL RETORNO
CALAMAR
ELEMENTO POR ELEMENTO

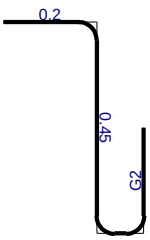
[5]		G1(180º)=0.25m	6	5/8"	5.59	52.1	
[6]		G1(180º)=0.25m	5	5/8"	2.65	20.6	
[7]		G1(180º)=0.20m G2(180º)=0.20m	2	1/2"	2.30	4.6	
[8]		G1(180º)=0.25m	5	5/8"	1.82	14.1	
[9]			10	5/8"	1.75	27.2	

Acero colombiano hecho con el corazón

PAVIMENTACION SAN JOSE- CALAMAR TRAMO II
EL RETORNO
CALAMAR
ELEMENTO POR ELEMENTO

	DIAGRAMA	CANTIDAD	DIAMETRO	LONGITUD	PESO T	NOTAS
[10]	 G1(180º)=0.20m	4	1/2"	2.65	10.5	

REFUERZO DENTELLON (Es 1) Peso/Elemento= 36.43Kg

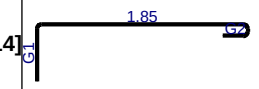
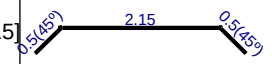
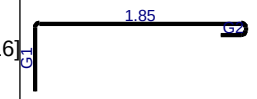
	DIAGRAMA	CANTIDAD	DIAMETRO	LONGITUD	PESO T	NOTAS
[11]	 G2(180º)=0.20m	21	1/2"	0.85	17.7	
[12]		4	1/2"	4.70	18.7	

ACERO MURO INTERIOR Y ZARPA EXTERIOR (Es 1) Peso/Elemento= 278.60Kg

	DIAGRAMA	CANTIDAD	DIAMETRO	LONGITUD	PESO T	NOTAS
[13]	 G1(180º)=0.20m G2(90º)=0.20m	18	1/2"	3.56	63.7	

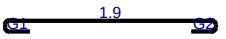
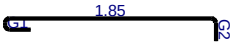
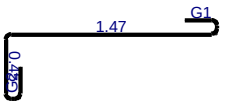
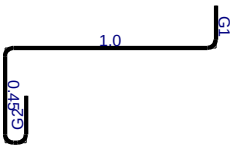
Acero colombiano hecho con el corazón

PAVIMENTACION SAN JOSE- CALAMAR TRAMO II
EL RETORNO
CALAMAR
ELEMENTO POR ELEMENTO

[14]		G1(90º)=0.50m G2(180º)=0.20m	8	1/2"	2.55	20.3	
[15]			9	1/2"	3.15	28.2	
[16]		G1(90º)=0.60m G2(180º)=0.20m	4	1/2"	2.65	10.5	
[17]		G1(180º)=0.20m	5	1/2"	2.59	12.9	
[18]		G1(180º)=0.20m G2(90º)=0.20m	6	1/2"	4.01	23.9	

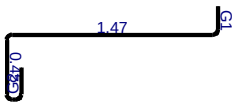
Acero colombiano hecho con el corazón

PAVIMENTACION SAN JOSE- CALAMAR TRAMO II
EL RETORNO
CALAMAR
ELEMENTO POR ELEMENTO

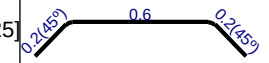
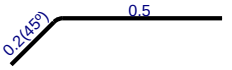
[19]		G1(180º)=0.20m G2(180º)=0.20m	2	1/2"	2.30	4.6	
[20]		G1(180º)=0.20m G2(90º)=0.20m	18	1/2"	2.25	40.3	
[21]		G1(90º)=0.20m G2(90º)=0.20m	8	1/2"	3.84	30.5	
[22]		G1(180º)=0.20m G2(180º)=0.20m	5	1/2"	2.32	11.5	
[23]		G1(90º)=0.20m G2(180º)=0.20m	10	1/2"	1.85	18.4	

Acero colombiano hecho con el corazón

PAVIMENTACION SAN JOSE- CALAMAR TRAMO II
EL RETORNO
CALAMAR
ELEMENTO POR ELEMENTO

[24]		6	1/2"	2.32	13.8	

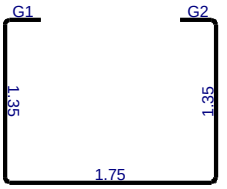
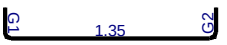
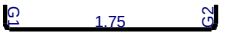
REFUEZRZO TUBERIA (Es 1) Peso/Elemento= 9.54Kg

DIAGRAMA	CANTIDAD	DIAMETRO	LONGITUD	PESO T	NOTAS
[25] 	4	1/2"	1.00	4.0	
[26] 	8	1/2"	0.70	5.6	

Acero colombiano hecho con el corazón

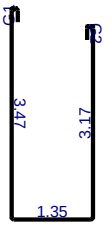
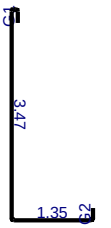
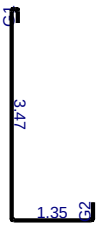
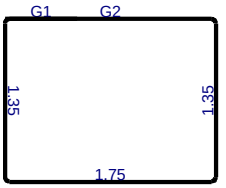
PAVIMENTACION SAN JOSE- CALAMAR TRAMO II
EL RETORNO
CALAMAR
ELEMENTO POR ELEMENTO

ACERO PARA MURO Y PISO (Es 1) Peso/Elemento= 462.04Kg

	DIAGRAMA		CANTIDAD	DIAMETRO	LONGITUD	PESO T	NOTAS
[1]		G1(180º)=0.20m G2(90º)=0.20m	22	1/2"	3.57	78.1	
[2]		G1(90º)=0.30m G2(90º)=0.30m	5	1/2"	5.05	25.1	
[3]		G1(90º)=0.20m G2(90º)=0.20m	31	1/2"	1.75	53.9	
[4]		G1(90º)=0.20m G2(90º)=0.20m	30	1/2"	2.15	64.1	

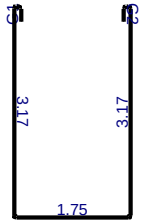
Acero colombiano hecho con el corazón

PAVIMENTACION SAN JOSE- CALAMAR TRAMO II
EL RETORNO
CALAMAR
ELEMENTO POR ELEMENTO

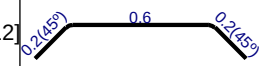
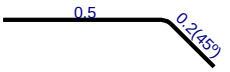
[5]		G1(180º)=0.20m G2(180º)=0.20m	4	1/2"	8.39	33.4	
[6]		G1(180º)=0.20m G2(90º)=0.20m	4	1/2"	5.22	20.8	
[7]		G1(180º)=0.20m G2(90º)=0.30m	2	1/2"	5.32	10.6	
[8]		G1(180º)=0.20m G2(90º)=0.20m	4	1/2"	3.87	15.4	
[9]		G1(90º)=0.60m G2(90º)=1.75m	10	1/2"	6.80	67.6	

Acero colombiano hecho con el corazón

PAVIMENTACION SAN JOSE- CALAMAR TRAMO II
EL RETORNO
CALAMAR
ELEMENTO POR ELEMENTO

	DIAGRAMA		CANTIDAD	DIAMETRO	LONGITUD	PESO T	NOTAS
[10]		G1(180º)=0.20m G2(180º)=0.20m	7	1/2"	8.49	59.1	
[11]		G1(180º)=0.20m	14	1/2"	2.45	34.1	

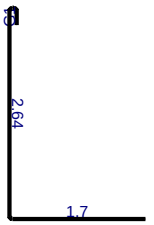
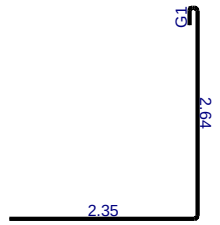
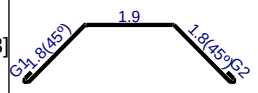
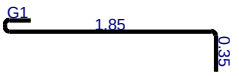
REFUERZO DE TUBO (Es 1) Peso/Elemento= 9.54Kg

	DIAGRAMA	CANTIDAD	DIAMETRO	LONGITUD	PESO T	NOTAS
[12]		4	1/2"	1.00	4.0	
[13]		8	1/2"	0.70	5.6	

Acero colombiano hecho con el corazón

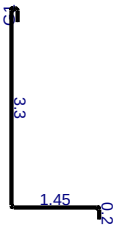
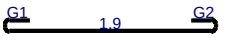
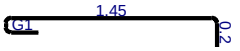
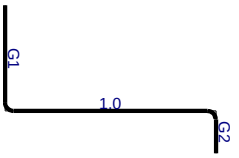
PAVIMENTACION SAN JOSE- CALAMAR TRAMO II
EL RETORNO
CALAMAR
ELEMENTO POR ELEMENTO

REFUERZO MURO EXTERIOR Y ZARPA INFERIOR (Es 1) Peso/Elemento= 241.61Kg

	DIAGRAMA	CANTIDAD	DIAMETRO	LONGITUD	PESO T	NOTAS
[1]	 G1(180º)=0.20m	9	1/2"	4.54	40.6	
[2]	 G1(180º)=0.20m	9	1/2"	5.19	46.4	
[3]	 G1(180º)=0.20m G2(180º)=0.20m	10	1/2"	5.90	58.6	
[4]	 G1(180º)=0.20m	12	1/2"	2.40	28.6	

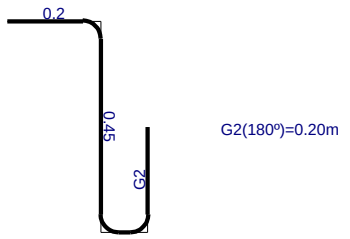
Acero colombiano hecho con el corazón

PAVIMENTACION SAN JOSE- CALAMAR TRAMO II
EL RETORNO
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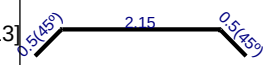
[5]		G1(180º)=0.20m	4	1/2"	5.15	20.5	
[6]		G1(180º)=0.20m	6	1/2"	2.40	14.3	
[7]		G1(180º)=0.20m G2(180º)=0.20m	2	1/2"	2.30	4.6	
[8]		G1(180º)=0.20m	6	1/2"	1.85	11.0	
[9]		G1(90º)=0.50m G2(90º)=0.20m	10	1/2"	1.70	16.9	

PAVIMENTACION SAN JOSE- CALAMAR TRAMO II
EL RETORNO
CALAMAR
ELEMENTO POR ELEMENTO

REFUERZO DENTELLON (Es 1) Peso/Elemento= 35.70Kg

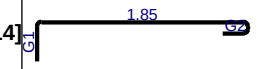
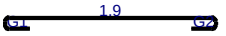
	DIAGRAMA	CANTIDAD	DIAMETRO	LONGITUD	PESO T	NOTAS
[10]		20	1/2"	0.85	16.9	
[11]		4	1/2"	4.73	18.8	

REFUERZO MURO INTERIOR Y ZARPA SUPERIOR (Es 1) Peso/Elemento= 257.46Kg

	DIAGRAMA	CANTIDAD	DIAMETRO	LONGITUD	PESO T	NOTAS
[12]		18	1/2"	3.04	54.4	
[13]		9	1/2"	3.15	28.2	

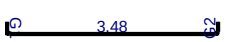
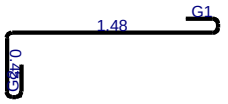
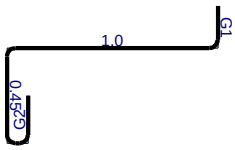
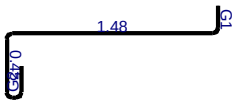
Acero colombiano hecho con el corazón

PAVIMENTACION SAN JOSE- CALAMAR TRAMO II
EL RETORNO
CALAMAR
ELEMENTO POR ELEMENTO

[14]		G1(90º)=0.35m G2(180º)=0.20m	12	1/2"	2.40	28.6	
[15]		G1(180º)=0.20m	6	1/2"	2.40	14.3	
[16]		G1(180º)=0.20m G2(90º)=0.20m	4	1/2"	3.70	14.7	
[17]		G1(180º)=0.20m G2(180º)=0.20m	2	1/2"	2.30	4.6	
[18]		G1(180º)=0.20m G2(90º)=0.20m	18	1/2"	2.25	40.3	

Acero colombiano hecho con el corazón

PAVIMENTACION SAN JOSE- CALAMAR TRAMO II
EL RETORNO
CALAMAR
ELEMENTO POR ELEMENTO

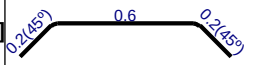
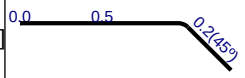
[19]		G1(90º)=0.20m G2(90º)=0.20m	8	1/2"	3.88	30.9	
[20]		G1(180º)=0.20m G2(180º)=0.20m	6	1/2"	2.33	13.9	
[21]		G1(90º)=0.20m G2(180º)=0.20m	10	1/2"	1.85	18.4	
[22]		G1(90º)=0.20m G2(180º)=0.20m	4	1/2"	2.33	9.3	

REFUERZO EN TUBERIA (Es 1) Peso/Elemento= 9.54Kg

DIAGRAMA	CANTIDAD	DIAMETRO	LONGITUD	PESO T	NOTAS

Acero colombiano hecho con el corazón

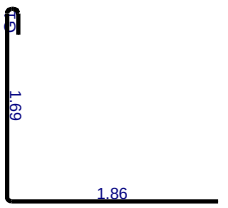
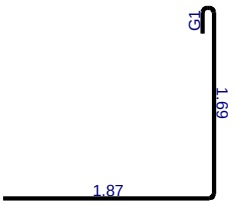
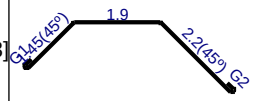
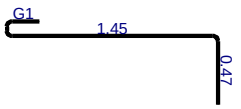
PAVIMENTACION SAN JOSE- CALAMAR TRAMO II
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CALAMAR
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[23] 	4	1/2"	1.00	4.0	
[24] 	8	1/2"	0.70	5.6	

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2016

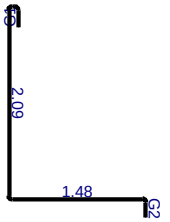
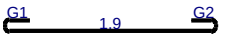
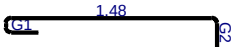
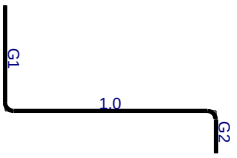
PAVIMENTACION SAN JOSE- CALAMAR TRAMO II
EL RETORNO
CALAMAR
ELEMENTO POR ELEMENTO

REFUERZO MURO EXTERIOR Y ZARPA INFERIOR (Es 1) Peso/Elemento= 166.08Kg

	DIAGRAMA	CANTIDAD	DIAMETRO	LONGITUD	PESO T	NOTAS
[1]	 G1(180º)=0.20m	7	1/2"	3.75	26.1	
[2]	 G1(180º)=0.20m	11	1/2"	3.76	41.1	
[3]	 G1(180º)=0.20m G2(180º)=0.20m	4	1/2"	5.95	23.7	
[4]	 G1(180º)=0.20m	4	1/2"	2.12	8.4	

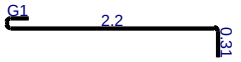
Acero colombiano hecho con el corazón

PAVIMENTACION SAN JOSE- CALAMAR TRAMO II
EL RETORNO
CALAMAR
ELEMENTO POR ELEMENTO

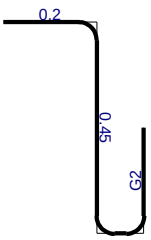
[5]		G1(180º)=0.20m G2(90º)=0.20m	5	1/2"	3.97	19.7	
[6]		G1(180º)=0.20m	5	1/2"	1.10	5.5	
[7]		G1(180º)=0.20m G2(180º)=0.20m	2	1/2"	2.30	4.6	
[8]		G1(180º)=0.20m G2(90º)=0.20m	5	1/2"	1.88	9.3	
[9]		G1(90º)=0.50m G2(90º)=0.20m	10	1/2"	1.70	16.9	

Acero colombiano hecho con el corazón

PAVIMENTACION SAN JOSE- CALAMAR TRAMO II
EL RETORNO
CALAMAR
ELEMENTO POR ELEMENTO

	DIAGRAMA	CANTIDAD	DIAMETRO	LONGITUD	PESO T	NOTAS
[10]	 G1(180º)=0.20m	4	1/2"	2.71	10.8	

REFUERZO DENTELLON (Es 1) Peso/Elemento= 35.59Kg

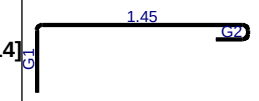
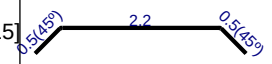
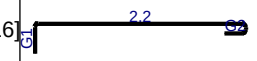
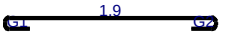
	DIAGRAMA	CANTIDAD	DIAMETRO	LONGITUD	PESO T	NOTAS
[11]	 G2(180º)=0.20m	20	1/2"	0.85	16.9	
[12]		4	1/2"	4.70	18.7	

REFUERZO MURO INTERIOR Y ZARPA SUPERIOR (Es 1) Peso/Elemento= 157.11Kg

	DIAGRAMA	CANTIDAD	DIAMETRO	LONGITUD	PESO T	NOTAS
[13]	 G1(180º)=0.20m G2(90º)=0.20m	18	1/2"	2.09	37.4	

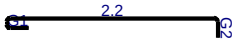
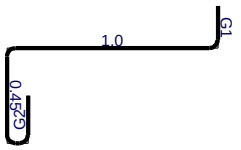
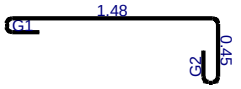
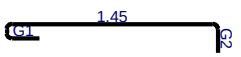
Acero colombiano hecho con el corazón

PAVIMENTACION SAN JOSE- CALAMAR TRAMO II
EL RETORNO
CALAMAR
ELEMENTO POR ELEMENTO

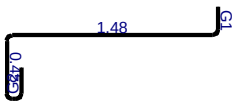
[14]		G1(90º)=0.47m G2(180º)=0.20m	4	1/2"	2.12	8.4	
[15]			3	1/2"	3.20	9.5	
[16]		G1(90º)=0.31m G2(180º)=0.20m	4	1/2"	2.71	10.8	
[17]		G1(180º)=0.20m	5	1/2"	1.10	5.5	
[18]		G1(180º)=0.20m G2(180º)=0.20m	2	1/2"	2.30	4.6	

Acero colombiano hecho con el corazón

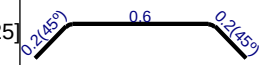
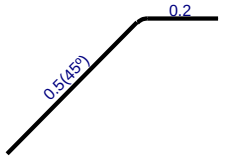
PAVIMENTACION SAN JOSE- CALAMAR TRAMO II
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[19]	 G1(180º)=0.20m G2(90º)=0.20m	2	1/2"	2.60	5.2	
[20]	 G1(90º)=0.20m G2(90º)=0.20m	8	1/2"	3.84	30.5	
[21]	 G1(90º)=0.20m G2(180º)=0.20m	10	1/2"	1.85	18.4	
[22]	 G1(180º)=0.20m G2(180º)=0.20m	5	1/2"	2.33	11.6	
[23]	 G1(180º)=0.20m G2(90º)=0.20m	2	1/2"	1.85	3.7	

PAVIMENTACION SAN JOSE- CALAMAR TRAMO II
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[24]	 G1(90º)=0.20m G2(180º)=0.20m	5	1/2"	2.33	11.6	

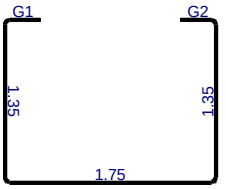
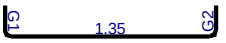
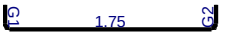
REFUERZO TUBERIA (Es 1) Peso/Elemento= 6.76Kg

	DIAGRAMA	CANTIDAD	DIAMETRO	LONGITUD	PESO T	NOTAS
[25]		4	1/2"	1.00	4.0	
[26]		4	1/2"	0.70	2.8	

Acero colombiano hecho con el corazón

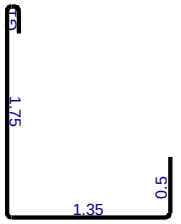
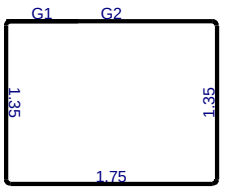
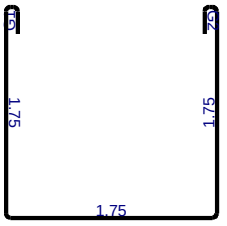
PAVIMENTACION SAN JOSE- CALAMAR TRAMO II
EL RETORNO
CALAMAR
ELEMENTO POR ELEMENTO

ACERO MUROS (Es 1) Peso/Elemento= 274.15Kg

	DIAGRAMA		CANTIDAD	DIAMETRO	LONGITUD	PESO T	NOTAS
[1]		G1(180º)=0.20m G2(90º)=0.20m	23	1/2"	2.15	49.2	
[2]		G1(90º)=0.30m G2(90º)=0.30m	5	1/2"	5.05	25.1	
[3]		G1(90º)=0.20m G2(90º)=0.20m	24	1/2"	1.75	41.7	
[4]		G1(90º)=0.20m G2(90º)=0.20m	17	1/2"	2.15	36.3	

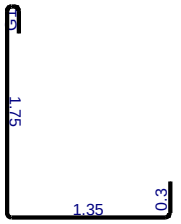
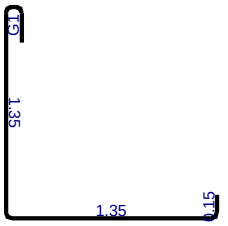
Acero colombiano hecho con el corazón

PAVIMENTACION SAN JOSE- CALAMAR TRAMO II
EL RETORNO
CALAMAR
ELEMENTO POR ELEMENTO

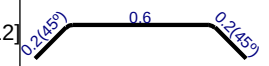
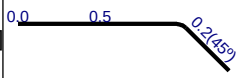
[5]		G1(180º)=0.20m	4	1/2"	3.80	15.1	
[6]		G1(180º)=0.20m G2(90º)=0.20m	4	1/2"	2.45	9.7	
[7]		G1(180º)=0.20m	14	1/2"	1.30	18.1	
[8]		G1(90º)=0.60m G2(90º)=1.75m	3	1/2"	6.80	20.3	
[9]		G1(180º)=0.20m G2(180º)=0.20m	7	1/2"	5.65	39.3	

Acero colombiano hecho con el corazón

PAVIMENTACION SAN JOSE- CALAMAR TRAMO II
EL RETORNO
CALAMAR
ELEMENTO POR ELEMENTO

	DIAGRAMA	CANTIDAD	DIAMETRO	LONGITUD	PESO T	NOTAS
[10]	 G1(180º)=0.20m	2	1/2"	3.60	7.2	
[11]	 G1(180º)=0.20m	4	1/2"	3.05	12.1	

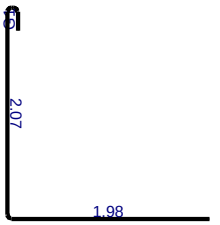
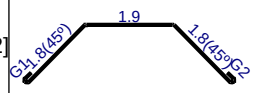
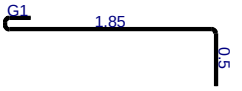
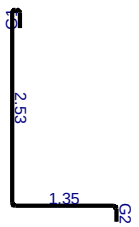
REFUERZO DE MURO (Es 1) Peso/Elemento= 9.54Kg

	DIAGRAMA	CANTIDAD	DIAMETRO	LONGITUD	PESO T	NOTAS
[12]		4	1/2"	1.00	4.0	
[13]		8	1/2"	0.70	5.6	

Acero colombiano hecho con el corazón

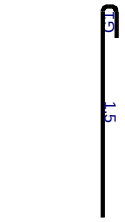
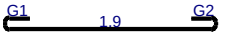
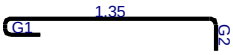
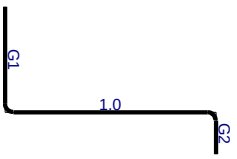
PAVIMENTACION SAN JOSE- CALAMAR TRAMO II
EL RETORNO
CALAMAR
ELEMENTO POR ELEMENTO

REFUERZO MURO EXTERIOR Y ZARPA INFERIOR (Es 1) Peso/Elemento= 188.03Kg

	DIAGRAMA	CANTIDAD	DIAMETRO	LONGITUD	PESO T	NOTAS
[1]	 G1(180º)=0.20m	18	1/2"	4.25	76.0	
[2]	 G1(180º)=0.20m G2(180º)=0.20m	5	1/2"	5.90	29.3	
[3]	 G1(180º)=0.20m	10	1/2"	2.55	25.3	
[4]	 G1(180º)=0.20m G2(90º)=0.20m	4	1/2"	4.28	17.0	

Acero colombiano hecho con el corazón

PAVIMENTACION SAN JOSE- CALAMAR TRAMO II
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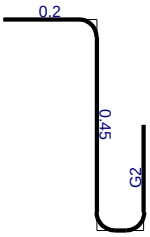
[5]		G1(180º)=0.20m	6	1/2"	1.70	10.1	
[6]		G1(180º)=0.20m G2(180º)=0.20m	2	1/2"	2.30	4.6	
[7]		G1(180º)=0.20m G2(90º)=0.20m	5	1/2"	1.75	8.7	
[8]		G1(90º)=0.50m G2(90º)=0.20m	10	1/2"	1.70	16.9	

REFUERZO DENTELLON (Es 1) Peso/Elemento= 33.60Kg

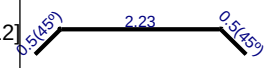
DIAGRAMA	CANTIDAD	DIAMETRO	LONGITUD	PESO T	NOTAS

Acero colombiano hecho con el corazón

PAVIMENTACION SAN JOSE- CALAMAR TRAMO II
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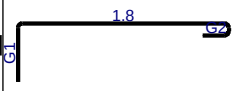
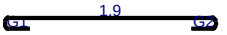
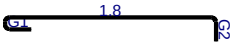
	DIAGRAMA	CANTIDAD	DIAMETRO	LONGITUD	PESO T	NOTAS
[9]	 G2(180º)=0.20m	20	1/2"	0.85	16.9	
[10]		4	1/2"	4.20	16.7	

REFUERZO MURO INTERIOR Y ZARPA SUPERIOR (Es 1) Peso/Elemento= 206.63Kg

	DIAGRAMA	CANTIDAD	DIAMETRO	LONGITUD	PESO T	NOTAS
[11]	 G1(180º)=0.20m G2(90º)=0.20m	18	1/2"	3.08	55.1	
[12]		4	1/2"	3.23	12.8	

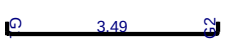
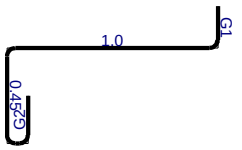
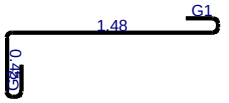
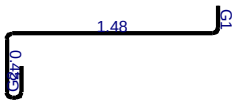
Acero colombiano hecho con el corazón

PAVIMENTACION SAN JOSE- CALAMAR TRAMO II
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[13]		G1(90º)=0.50m G2(180º)=0.20m	10	1/2"	2.50	24.9	
[14]		G1(180º)=0.20m	6	1/2"	1.30	7.8	
[15]		G1(180º)=0.20m G2(90º)=0.20m	4	1/2"	2.90	11.5	
[16]		G1(180º)=0.20m G2(180º)=0.20m	2	1/2"	2.30	4.6	
[17]		G1(180º)=0.20m G2(90º)=0.20m	8	1/2"	2.20	17.5	

Acero colombiano hecho con el corazón

PAVIMENTACION SAN JOSE- CALAMAR TRAMO II
EL RETORNO
CALAMAR
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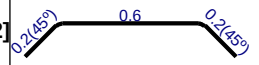
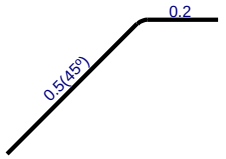
	DIAGRAMA	CANTIDAD	DIAMETRO	LONGITUD	PESO T	NOTAS
[18]	 G1(90º)=0.20m G2(90º)=0.20m	8	1/2"	3.89	30.9	
[19]	 G1(90º)=0.20m G2(180º)=0.20m	10	1/2"	1.85	18.4	
[20]	 G1(180º)=0.20m G2(180º)=0.20m	6	1/2"	2.33	13.9	
[21]	 G1(90º)=0.20m G2(180º)=0.20m	4	1/2"	2.33	9.3	

REFUERZO TUBERIA (Es 1) Peso/Elemento= 9.54Kg

DIAGRAMA	CANTIDAD	DIAMETRO	LONGITUD	PESO T	NOTAS

Acero colombiano hecho con el corazón

PAVIMENTACION SAN JOSE- CALAMAR TRAMO II
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[22]		4	1/2"	1.00	4.0	
[23]		8	1/2"	0.70	5.6	

PazdelRío
Votorantim Siderurgia
2016