



GIL GUADALUPE OCHOA PACHECO
OOPG640701PKA
TERRAZAS 2519 OBRERA
CHIHUAHUA CHIHUAHUA, CHIHUAHUA MEXICO CP 31350
Tel: 426-1407

Comprobante:

Folio: C000510
Fecha: 2016-04-11
Hora: 12:57:30
Tipo Venta: Crédito
T.Documento: Ingreso

Receptor:

MUNICIPIO DE CHIHUAHUA
RFC: MCI651010V22
MINA 408
CENTRO, CHIHUAHUA
CHIHUAHUA, CHIHUAHUA, México. CP 31000.

Expedido en: CHIHUAHUA, CHIHUAHUA.
Forma Pago: Pago en una sola exhibición.
Método Pago: No identificado.
Cuenta Pago: No identificado.
Regimen Fiscal: No aplica.

Folio Cliente: M00002
Orden de compra:
Certificado: 00001000000203166309

Cantidad	U.Medida	Descripción	Precio	Importe
1.00	No aplica	: RAMAL SECUNDARIO DE RIEGO PARA SENDA DE PARQUE TRES PRESAS ,%16.00	451,444.69	451,444.69
	No aplica	: ESTIMACION 2 (DOS) ,%0.00		
	No aplica	: SEGUN CONTRATO NO. 018/2016 ,%0.00		
	No aplica	: FIRMA DEL CONTRATISTA ,%0.00		
	No aplica	: ALCANCE DE LA ESTIMACION \$ 451,444.69 ,%0.00		
	No aplica	: AMORTIZACION DEL ANTICIPO \$0.00 ,%0.00		
	No aplica	: RETENCIONES PACTADAS EN CONTRATO ,%0.00		
	No aplica	: D.I.F. DEL 0.2 % \$ 902.89 ,%0.00		
	No aplica	: I.C.I.C. DEL 2 % \$ 902.89 ,%0.00		
	No aplica	: C.M.I.C. DEL 2 % \$ 902.89 ,%0.00		
	No aplica	: SUMA 2,708.67 ,%0.00		
	No aplica	: NETO A RECIBIR \$ 520,967.17 ,%0.00		

Cantidad con Letra

QUINIENTOS VEINTE Y TRES MIL SEISCIENTOS SETENTA Y CINCO PESOS 84/100. M.N.

Efectos fiscales al pago. Pago en una sola exhibición. Este documento es una representación impresa de un CFDI.

Subtotal	451,444.69
IVA (16.00%)	72,231.15
Ret.IVA	0.00
Ret.ISR	0.00
Total	\$523,675.84

Folio Fiscal: 91F9BA17-2CA8-4BA4-929B-D60487FD548A **Fecha Timbrado:** 2016-04-11T13:57:32 **Certificado:** 00001000000201455572

Sello del Emisor:

uaUXXF09S24xjSjcNKsKd7kqpHnHAtBnPOBX4z9vubAtVYrWVym60w33n9dcAlPp6HqocUANqx+5gq40B8vRz3dJDCMjHLt0gVJhcgFnJgl2Tyg3vwizLX
j4EFnfQoiy+4nuD50VnSO+2Asf4ezdga3VCvkrKCKNuby2oDM=

Sello del SAT:

b3HIFvOCBLraLW3IKjsGfWVvy3yL61AAS8x9D1aRs9KILORTm7apfUHQnL/6PNzknkpFv7hLLx6pkx8pF0kH9cABw30d0reF90OMIPBn+HrOtQz3Rha3J

J+E8+lgarCLm1wnqpAvhaHACZkLwCXgvvA100jBAVn8xegq8=

Cadena Original del Complemento:

||1.0|91F9BA17-2CA8-4BA4-929B-D60487FD548A|2016-04-11T13:57:32|uaUXXF09S24xjSjcNKsKd7kqpHnHAtBnPOBX4z9vubAtVYrWVym60w33n9dcAlPp6
HqocUANqx+5gq40B8vRz3dJDCMjHLt0gVJhcgFnJgl2Tyg3vwizLXj4EFnfQoiy+4nuD50VnSO+2Asf4ezdga3VCvkrKCKNuby2oDM=|00001000000201455572||

PAGARÉ

Por este pagaré me(nos) obligo(amos) a pagar incondicionalmente a la orden de con fecha 2016-04-11. la cantidad de \$523,675.84 (QUINIENTOS VEINTE Y TRES MIL SEISCIENTOS SETENTA Y CINCO PESOS 84/100. M.N.). En caso de no pagar causará intereses moratorios del _____ % mensual hasta su total liquidación.

ACEPTO(AMOS)



gob.mx

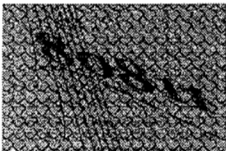
Verificación de Comprobantes Fiscales Digitales por Internet

A través de esta opción, Usted podrá verificar si el comprobante fue Certificado por el SAT

Folio Fiscal RFC Emisor RFC Receptor

Proporcione los dígitos de la imagen

Verificar CFDI



RFC del Emisor

Nombre o Razón Social del Emisor

RFC del Receptor

Nombre o Razón Social del Receptor

OOPG640701PKA

GIL GUADALUPE OCHOA PACHECO

MCI651010V22

MUNICIPIO DE CHIHUAHUA

Folio Fiscal

Fecha de Expedición

Fecha Certificación SAT

PAC que Certificó

91F9BA17-2CA8-4BA4-929B-D60487FD548A

2016-04-11T12:57:30

2016-04-11T13:57:32

SED1102088J7

Total del CFDI

Efecto del Comprobante

Estado CFDI

\$523,675.84

ingreso

Vigente

Imprimir



AYUNTAMIENTO
CHIHUAHUA
2013 - 2016

DIRECCIÓN DE OBRAS PÚBLICAS

RESUMEN DE ESTIMACION

PROGRAMA: DIRECTO MUNICIPAL	CONTRATO No. 018/2016	CONTRATADOS
OBRA: RAMAL SECUNDARIO DE RIEGO PARA SENDA DE PARQUE TRES PRESAS	ESTIMACIÓN No. 2 (DOS)	\$ 886,030.12 CON IVA
	PERÍODO EJEC. DEL 16 AL 31 DE MARZO DE 2015	
UBICACIÓN: PARQUE TRES PRESAS	IMPORTE ESTIMADO (CON IVA)	\$ 523,675.84 CON IVA
CONTRATISTA: GIL GUADALUPE OCHOA PACHECO	ACUMULADO ANTERIOR (CON IVA)	\$ 138,748.77 CON IVA
RFC OOPG-640701-PKA	IMPORTE ACUMULADO (CON IVA)	\$ 662,424.61 CON IVA

TIPO DE OBRA	IMPORTE	OBSERVACIONES
<u>NORMALES</u>	\$ 446,378.45	
<u>EXCEDENTES</u>	\$ 5,066.24	
<u>EXTRAS</u>	\$ -	
IMPORTE TOTAL ESTIMACION (SIN IVA)		\$ 451,444.69

--

DESCUENTOS		
0.2% D.I.F.		902.89
0.2% I.C.I.C.	\$	902.89
0.2% C.M.I.C.	\$	902.89
SUMA DESCUENTOS	\$	2,708.67
RESUMEN		
SUMA ESTA ESTIMACION	\$	451,444.69
AMORT ANTICIPO	\$	0.00
SUB-TOTAL	\$	451,444.69
I.V.A.	\$	72,231.15
TOTAL	\$	523,675.84
(CON LETRA)		
(QUINIENTOS VEINTITRES MIL SEISCIENTOS SETENTA Y CINCO PESOS 84/100 M.N.)		
DESCUENTOS	\$	2,708.67
SALDO NETO A RECIBIR	\$	520,967.17

AUTORIZO	ELABORO
ARG. GABRIELA FLOREZ HURTADO	ING. GIL GUADALUPE OCHOA PACHECO
RESIDENTE D.O.P.M	CONTRATISTA
Vo. Bo.	REVISO
ING. XOCHITL PEREZ BLANCO	ING. ENRIQUE VILLARREAL ALEMÁN
SUBDIRECTOR DE OBRA PUBLICA E INFRAESTRUCTURA	JEFE DEL DEPTO DE CONSTRUCCION.
Vo. Bo.	
ING. RAMON DAVID RAMOS ARMENTA	
DIRECTOR DE OBRAS PUBLICAS Y MANTENIMIENTO	

CHIHUAHUA, CHIH.,

01 DE ABRIL DE 2016

RECIBIMOS DE LA DIRECCIÓN DE OBRAS PÚBLICAS Y MANTENIMIENTO, LA CANTIDAD DE: \$ 520,967.17
 (QUINIENTOS VEINTE MIL NOVECIENTOS SESENTA Y SIETE PESOS 17/100 M.N.) COMO PAGO A LA
 ESTIMACIÓN NUM. 2 (DOS) CONTRATO No. 018/2016 LA CANTIDAD DE : \$ 886,030.12
 OCHOCIENTOS OCHENTA Y SEIS MIL TREINTA PESOS 17/100 M.N. POR TRABAJOS EN LA OBRA:
 RAMAL SECUNDARIO DE RIEGO PARA SENDA DE PARQUE TRES PRESAS

ALCANCE DE LA ESTIMACION \$ 451,444.69

AMORTIZACION DEL ANTICIPO \$ -

SUBTOTAL	\$ 451,444.69
IVA	\$ 72,231.15
TOTAL	\$ 523,675.84

RETENCIONES PACTADA EN CONTRATO

DIF DEL 0.2%	902.89
I.C.I.C. DEL 0.2%	902.89
C.M.I.C. DEL 0.2%	902.89
SUMA	2,708.67

RESUMEN FINANCIERO DE LA OBRA

1.- CONTRATO

	CONTRATO
IMPORTE CONTRATADO	\$ 886,030.12
CONVENIO MODIFICATORIO	\$ -
ESTIMACION ACUMULADA ANTERIOR	\$ 138,748.77
ESTA ESTIMACION	\$ 523,675.84
ACUMULADO HASTA EST ESTIMACION	\$ 662,424.61
POR EJERCER	\$ 223,605.51

2.- AMORTIZACION DEL ANTICIPO

	CONTRATO
IMPORTE DE ANTICIPO	\$ -
ACUMULADO ANTERIOR	\$ -
ESTA ESTIMACION	\$ -
ACUMULADO ACTUAL	\$ -
POR AMORTIZAR	\$ -

3.- RETENCIONES PACTADAS EN CONTRATO

	0.2% DIF	0.2% ICIC	0.2% CMIC
ACUMULADO ANTERIOR	\$ 239.22	\$ 239.22	\$ 239.22
ESTA ESTIMACION	\$ 902.89	\$ 902.89	\$ 902.89
ACUMULADO ACTUAL	\$ 1,142.11	\$ 1,142.11	\$ 1,142.11

R E C I B I M O S

GIL GUADALUPE OCHOA PACHECO
 OOPG-640701-PKA

RESUMEN DE LA ESTIMACIÓN POR PARTIDAS		
No.	DESCRIPCION DE LAS PARTIDAS	IMPORTE

NORMALES 446,378.45

RAMAL SECUNDARIO DE RIEGO PARA SENDA DE PARQUE TRES PRESAS 446,378.45

EXCEDENTES 5,066.24

RAMAL SECUNDARIO DE RIEGO PARA SENDA DE PARQUE TRES PRESAS 5,066.24

EXTRAS 0.00

SUBTOTAL	451,444.69
I.V.A.	72,231.15
TOTAL	523,675.84

ING. GIL GUADALUPE OCHOA PACHECO

FOR EL CONTRATISTA

FOR EL DEPARTAMENTO DE CONSTRUCCIÓN

ARQ. GABRIELA FLOREZ HURTADO

CONCEPTOS		PROYECTO		VOLUMENES		PRECIO UNITARIO	IMPORTE
No.	DESCRIPCIÓN	UNIDAD	VOLUMEN	ACUM. TOTAL	CUM. ANTERIOR		

OBRA NORMAL

RAMAL SECUNDARIO DE RIEGO PARA SENDA DE PARQUE TRES PRESAS

1.01	SUMINISTRO E INSTALACION DE TUBERIA DE PVC DE 1 RD 21, 200 PSI CON CAMPANA.	ml	2,151.35	2,151.35	550.02	1,601.33	12.62	446,378.45
1.02	SUMINISTRO E INSTALACION DE TUBERIA DE PVC 1 1/2 PLG RD 21, 200 PSI.	ml	2,215.70	2,215.70	578.70	1,637.00	19.83	20,208.78
1.03	SUMINISTRO E INSTALACION DE TUBERIA DE PVC DE 2 PLG RD-26 CON CAMPANA.	ml	2,946.45	2,946.45	850.85	2,095.60	31.02	32,461.71
1.04	SUMINISTRO E INSTALACION DE CODO 90 DE PVC DE 1 PLG CED 40.	pieza	12.00	12.00	5.00	7.00	3.72	65,005.51
1.05	SUMINISTRO E INSTALACION DE TEE DE PVC DE 1 PLG CED 40.	pieza	298.00	268.00	70.00	198.00	3.70	26.04
1.06	SUMINISTRO E INSTALACION DE TEE DE PVC DE 1 1/2 PLG CED 40.	pieza	266.00	266.00	75.00	191.00	11.59	732.60
1.07	SUMINISTRO E INSTALACION DE TEE DE PVC DE 2 PLG CED 40.	pieza	388.00	388.00	101.00	287.00	9.47	2,213.69
1.08	SUMINISTRO E INSTALACION DE REDUCCION LISA DE 1 A 1/2 PULGADAS.	pieza	310.00	287.00	75.00	212.00	4.87	2,717.89
1.09	SUMINISTRO E INSTALACION DE REDUCCION LISA DE 1 1/2 PULGADAS COMPUESTA.	pieza	266.00	266.00	75.00	191.00	8.04	1,032.44
1.10	SUMINISTRO E INSTALACION DE REDUCCION LISA DE 2 A 1/2 PULGADAS.	pieza	388.00	388.00	101.00	287.00	13.27	1,535.64
1.11	SUMINISTRO E INSTALACION DE REDUCCION LISA DE 3 A 2 PULGADAS.	pieza	19.00	19.00	10.00	9.00	94.46	3,808.49
1.12	SUMINISTRO E INSTALACION DE ADAPTADOR MACHO DE 2 PULGADAS E INSTALACION.	pieza	38.00	38.00	20.00	18.00	11.36	850.14
1.13	SUMINISTRO E INSTALACION DE VALVULA DE BRONCE DE 2 PULGADAS.	pieza	19.00	19.00	10.00	9.00	696.22	204.48
1.14	SUMINISTRO E INSTALACION DE REGISTRO DE 10 PLG DE RIEGO.	pieza	19.00	19.00	10.00	9.00	164.05	6,265.98
1.26	SUMINISTRO E INSTALACION DE VALVULA EXPULSORA DE AIRE DE 1", INCLUYE TODO LO NECESARIO PARA SU CORRECTA COLOCACION	pieza	19.00	10.00	0.00	10.00	394.24	1,476.45
								3,942.40

POR EL CONTRATISTA

POR EL DEPARTAMENTO DE CONSTRUCCIÓN

CONTRATISTA:

ING. GIL GUADALUPE OCHOA PACHECO

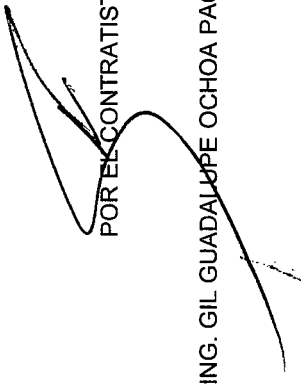
PERIODO: DEL 16 AL 31 DE MARZO DE 2016

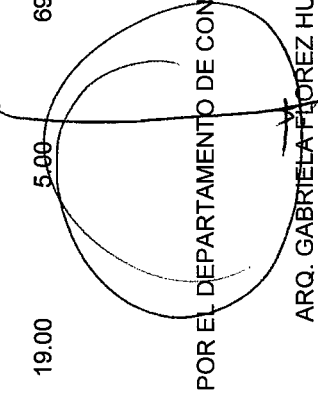
No.		CONCEPTOS		PROYECTO		VOLUMENES			PRECIO UNITARIO	IMPORTE
		DESCRIPCIÓN		UNIDAL	VOLUMEN	ACUM. TOTAL	CUM. ANTERIOR	VOL. ESTIMADO		
1.27		SUMINISTRO E INSTALACION DE REDUCCION LISA DE PVC HIDRAULICO, DE 3" A 1"		pieza	19.00	10.00	0.00	10.00	112.65	1,126.50
1.28		EXCAVACION MANUAL PARA INSTALACION DE LINEA SECUNDARIA, ESTO CON EL FIN DE PROTEGER LAS GUARNICIONES Y LAS RAICES DE LOS ENCINOS QUE YA ESTAN SEMBRADOS, ANCHO DE LA EXCAVACION DE 20 CMS X 30 CMS		ml	7,313.50	7,152.52	1,979.57	5,172.95	30.62	158,395.73
1.30		SUMINISTRO E INSTALACION DE BOMBA ALTAMIRA MODELO KOR32R500-5, SUMERGIBLE DE ACERO INOXIDABLE PARA 32 LPS, DE 50 HP, CON MOTOR ALTAMIRA MODELO MSR6 503460 DE 50 HP.		pieza	1.00	1.00	0.00	1.00	131,186.99	131,186.99
1.31		FABRICACION DE TREN DE SUCCION PARA BOMBA, A INSTALARSE EN TANQUE DE PARQUE EL RELIZ, A BASE DE 2.00 METROS TUBO NEGRO DE 6", CEDULA 40, INCLUYE: 2 PIEZAS DE COPLE ESTANDAR DE 6", 1 TEE DE 6" AC SOLDABLE CEDULA 40, 4 BRIDAS DE AC FORJ DE 6", NIPLE NEGRO C/C CEDULA 40 4X6", Y TODO LO NECESARIO PARA SU CORRECTA COLOCACION.		pieza	1.00	1.00	0.00	1.00	13,186.99	13,186.99

OBRA EXCEDENTE

RAMAL SECUNDARIO DE RIEGO PARA SENDA DE PARQUE TRES PRESAS

RAMAL SECUNDARIO DE RIEGO PARA SENDA DE PARQUE TRES PRESAS									
1.01	SUMINISTRO E INSTALACION DE TUBERIA DE PVC DE 1 ml		2,151.35	2,163.47	2,151.35	12.12	12.62	5,066.24	152.95
RD 21, 200 PSI CON CAMPANA.									
1.04	SUMINISTRO E INSTALACION DE CODO 90 DE PVC DE 1 pieza		12.00	19.00	12.00	7.00	3.72	26.04	
PLG CED 40.									
1.11	SUMINISTRO E INSTALACION DE REDUCCION LISA DE 3 A 2 PULGADAS .		19.00	24.00	19.00	5.00	94.46	472.30	
1.12	SUMINISTRO E INSTALACION DE ADAPTADOR MACHO DE 2 PULGADAS E INSTALACION.		38.00	48.00	38.00	10.00	11.36	113.60	
1.13	SUMINISTRO E INSTALACION DE VALVULA DE BRONCE DE 2 PULGADAS.		19.00	24.00	19.00	5.00	696.22	3,481.10	


POR EL CONTRATISTA


POR EL DEPARTAMENTO DE CONSTRUCCIÓN

ING. GIL GUADALUPE OCHOA PACHECO

ARQ. GABRIELA FLORES HURTADO

OBRA: RAMAL SECUNDARIO DE RIEGO PARA SENDA DE PARQUE TRES PRESAS

UBICACIÓN: PARQUE TRES PRESAS

CONTRATO: 018/2016

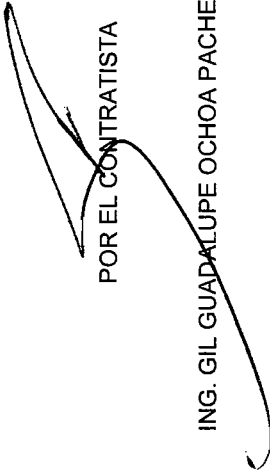
ESTIMACIÓN No. 2 (DOS)

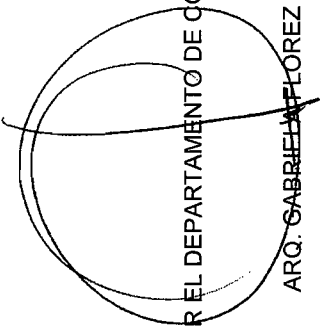
CONTRATISTA:

ING. GIL GUADALUPE OCHOA PACHECO

PERIODO: DEL 16 AL 31 DE MARZO DE 2016

CONCEPTOS		PROYECTO		VOLUMENES			PRECIO		IMPORTE
No.	DESCRIPCIÓN	UNIDAD	VOLUMEN	ACUM. TOTAL	CUM. ANTERIOR	VOL. ESTIMADO	UNITARIO		
1.14	SUMINISTRO E INSTALACION DE REGISTRO DE 10 PLG DE RIEGO.	pieza	19.00	24.00	19.00	5.00	164.05		820.25


POR EL CONTRATISTA
ING. GIL GUADALUPE OCHOA PACHECO

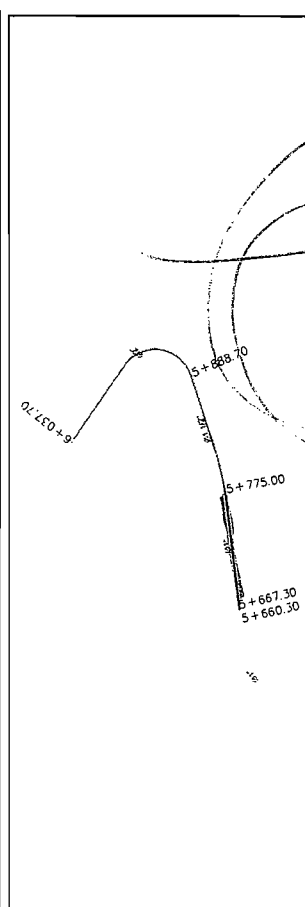
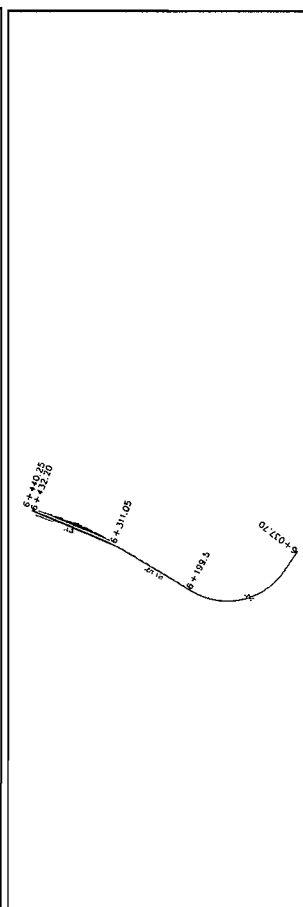
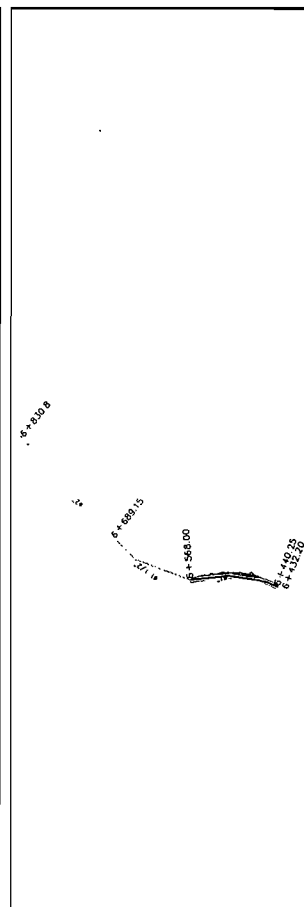
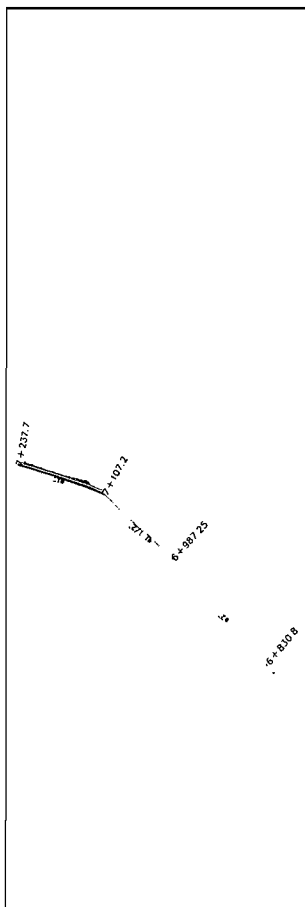
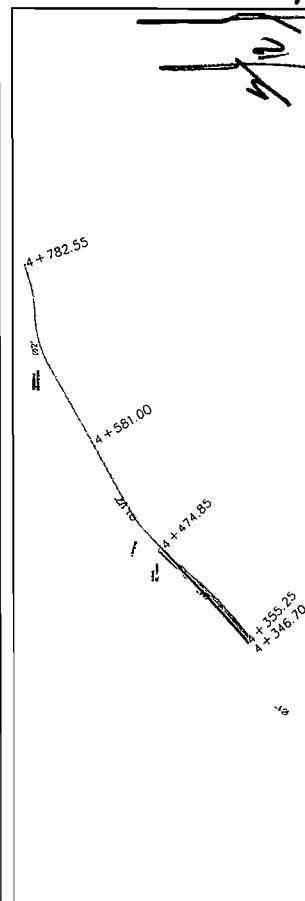
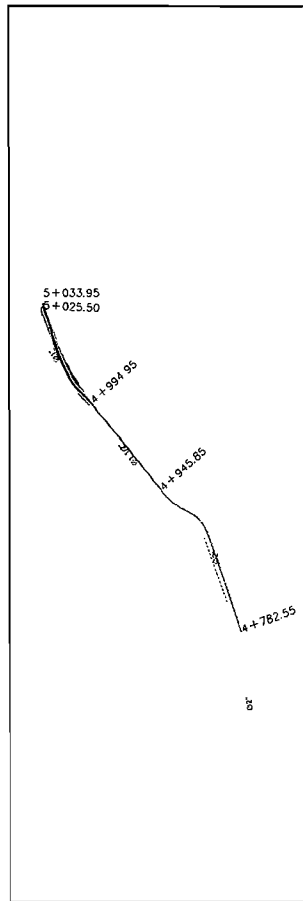
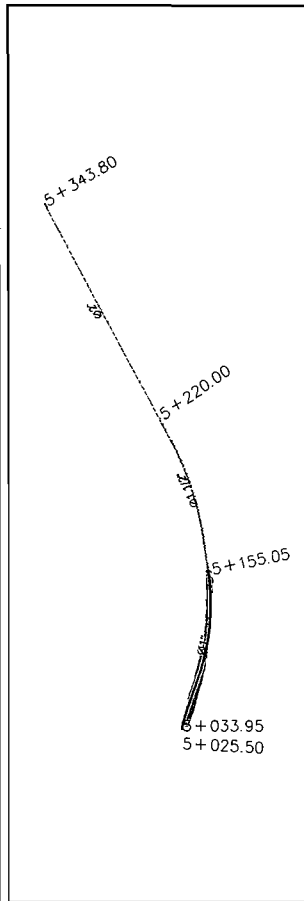
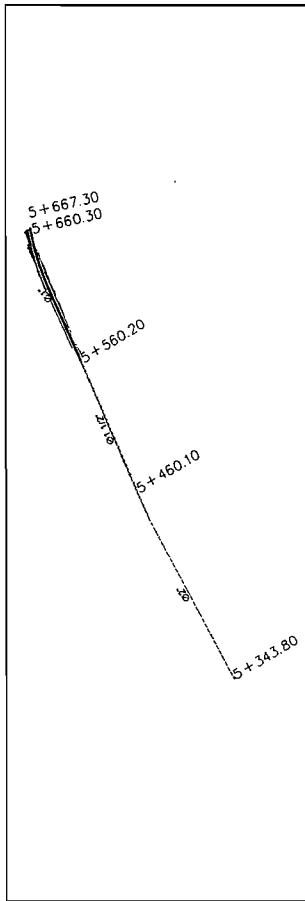

POR EL DEPARTAMENTO DE CONSTRUCCIÓN
ARQ. GABRIELA FLOREZ HURTADO

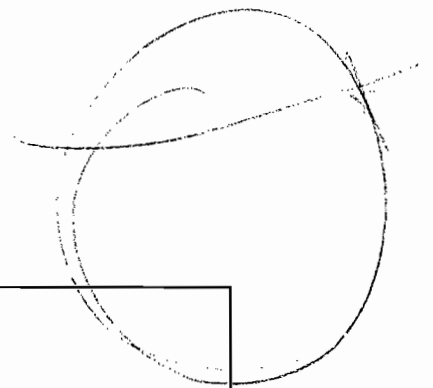
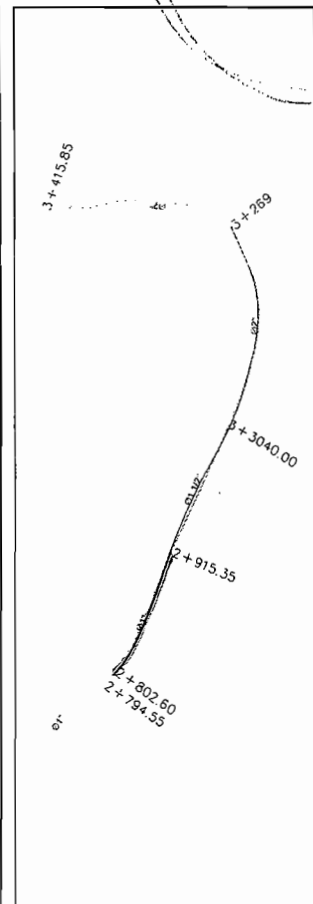
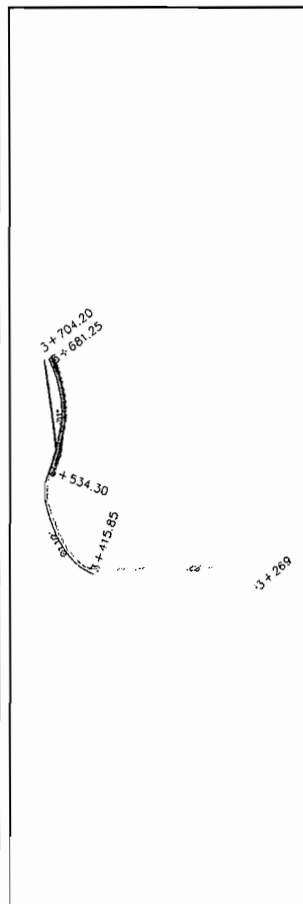
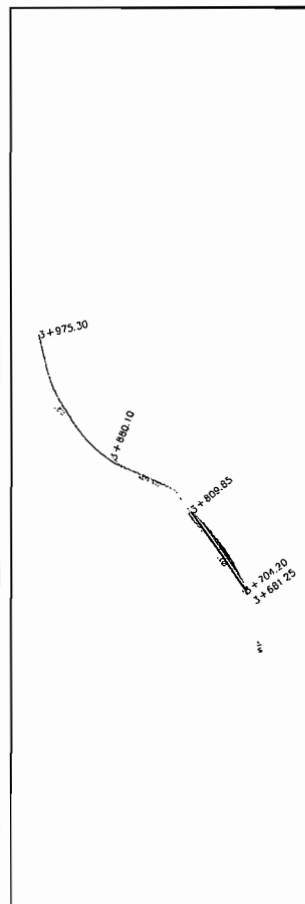
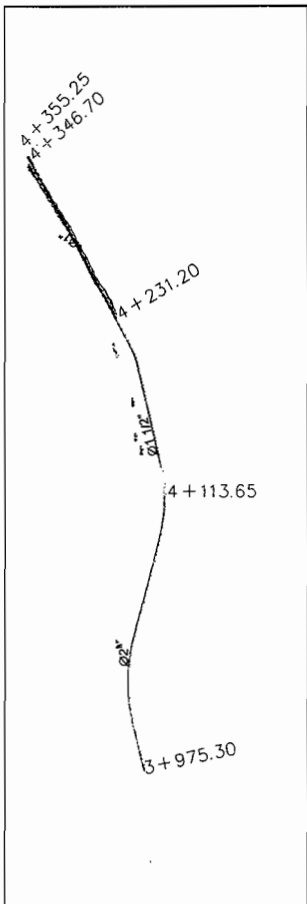
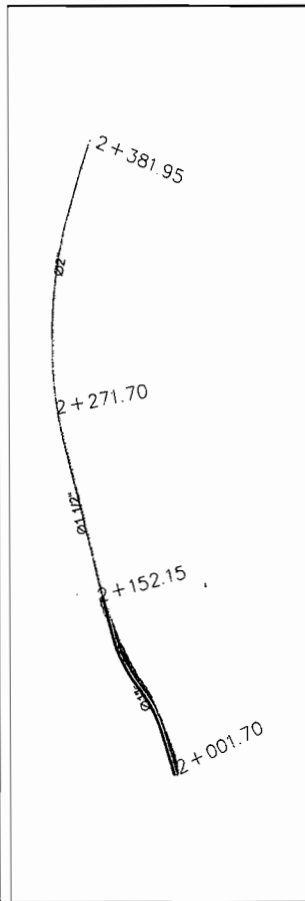
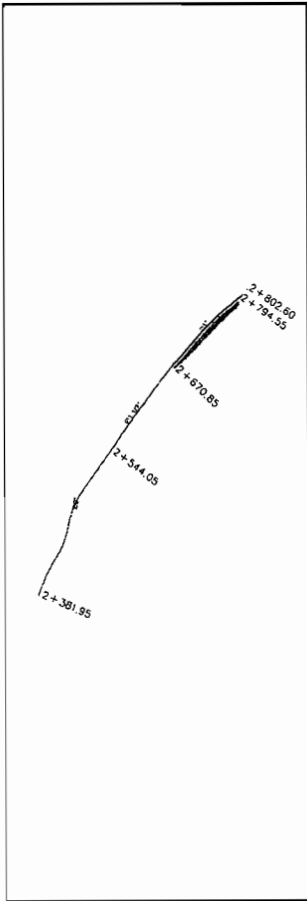
GENERADOR DE ESTIMACION

CONTRATO : 018/2016		TRAMO:																																														
OBRA : RAMAL SECUNDARIO DE RIEGO PARA SENDA DE PARQUE TRES PRESAS		CONTRATISTA: GIL GUADALUPE OCHOA PACHECO																																														
ESTIMACION No. 2 (DOS)		PERIODO : DEL 16 AL 31 DE MARZO DE 2016																																														
CLAVE: 1.01 CONCEPTO: SUMINISTRO E INSTALACION DE TUBERIA DE PVC DE 1 RD 21, 200 PSI CON CAMPANA.		OPERACIONES ARITMETICAS <table border="1"><tr><td>2+001.70</td><td>2+152.15</td><td>150.45</td></tr><tr><td>2+670.85</td><td>2+794.55</td><td>123.70</td></tr><tr><td>2+802.60</td><td>2+915.35</td><td>112.75</td></tr><tr><td>3+534.30</td><td>3+681.25</td><td>146.95</td></tr><tr><td>3+704.20</td><td>3+809.85</td><td>105.65</td></tr><tr><td>4+231.20</td><td>4+346.70</td><td>115.50</td></tr><tr><td>4+355.25</td><td>4+474.85</td><td>119.60</td></tr><tr><td>4+994.95</td><td>5+025.50</td><td>30.55</td></tr><tr><td>5+033.95</td><td>5+155.05</td><td>121.10</td></tr><tr><td>5+560.20</td><td>5+660.30</td><td>100.10</td></tr><tr><td>5+667.30</td><td>5+775.00</td><td>107.70</td></tr><tr><td>6+311.05</td><td>6+432.20</td><td>121.15</td></tr><tr><td>6+440.25</td><td>6+568.00</td><td>127.75</td></tr><tr><td>7+107.20</td><td>7+237.70</td><td>130.50</td></tr><tr><td colspan="2">TOTAL</td><td>1,613.45</td></tr></table>		2+001.70	2+152.15	150.45	2+670.85	2+794.55	123.70	2+802.60	2+915.35	112.75	3+534.30	3+681.25	146.95	3+704.20	3+809.85	105.65	4+231.20	4+346.70	115.50	4+355.25	4+474.85	119.60	4+994.95	5+025.50	30.55	5+033.95	5+155.05	121.10	5+560.20	5+660.30	100.10	5+667.30	5+775.00	107.70	6+311.05	6+432.20	121.15	6+440.25	6+568.00	127.75	7+107.20	7+237.70	130.50	TOTAL		1,613.45
2+001.70	2+152.15	150.45																																														
2+670.85	2+794.55	123.70																																														
2+802.60	2+915.35	112.75																																														
3+534.30	3+681.25	146.95																																														
3+704.20	3+809.85	105.65																																														
4+231.20	4+346.70	115.50																																														
4+355.25	4+474.85	119.60																																														
4+994.95	5+025.50	30.55																																														
5+033.95	5+155.05	121.10																																														
5+560.20	5+660.30	100.10																																														
5+667.30	5+775.00	107.70																																														
6+311.05	6+432.20	121.15																																														
6+440.25	6+568.00	127.75																																														
7+107.20	7+237.70	130.50																																														
TOTAL		1,613.45																																														
		CROQUIS																																														
		VOLUMEN A PAGAR																																														
		1,613.45 m																																														

ARQ. GABRIELA FLOREZ HURTADO
SUPERVISOR

ING. JORGE JAIME RODRIGUEZ HERNANDEZ
RESIDENTE





GENERADOR DE ESTIMACION

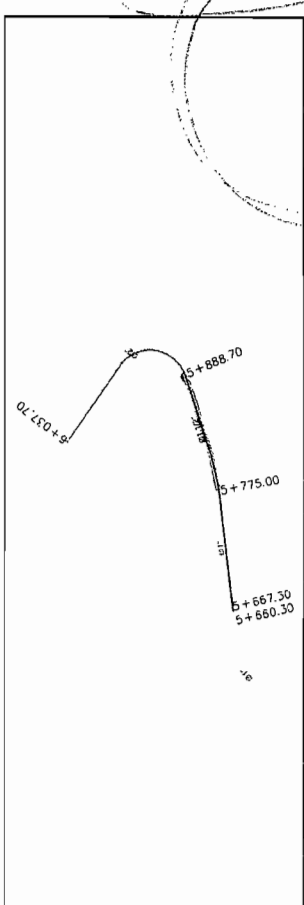
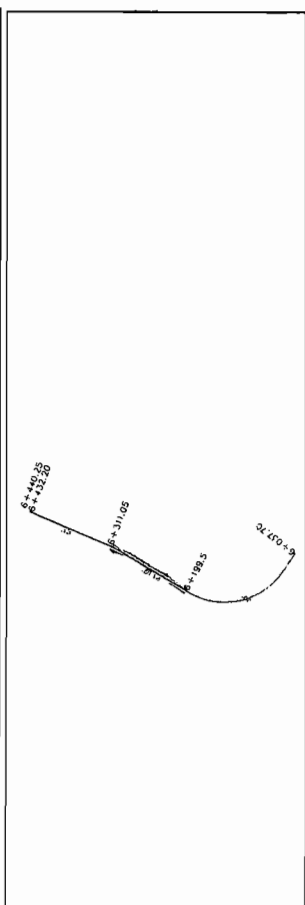
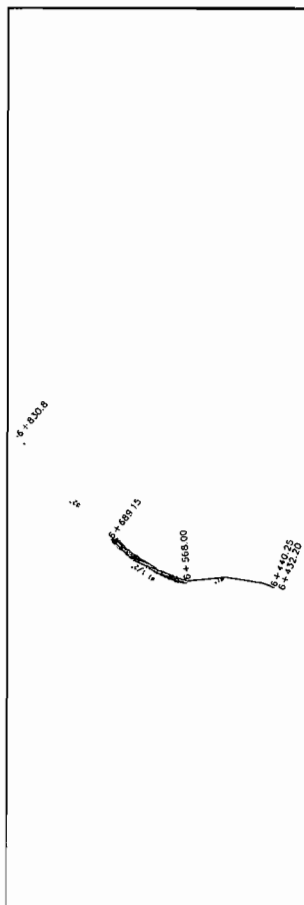
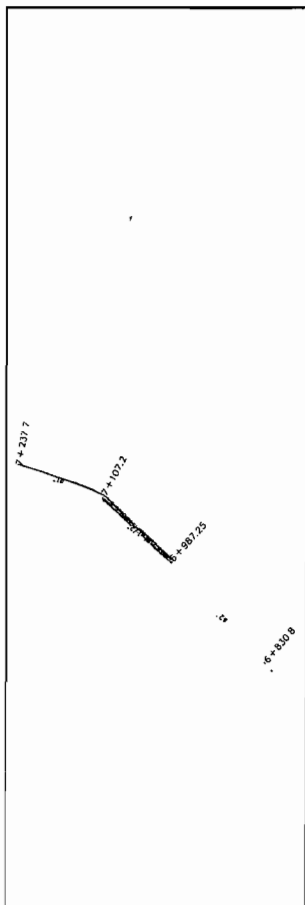
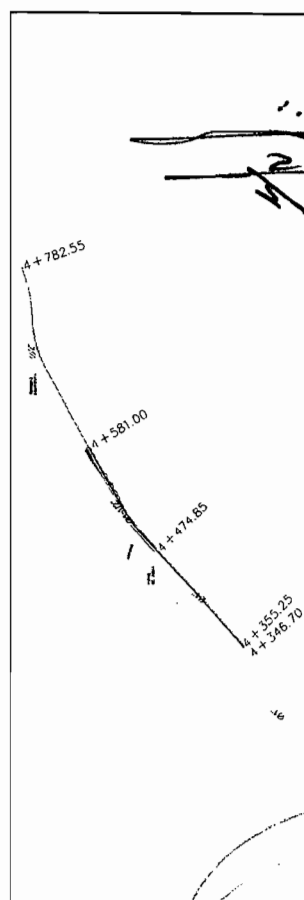
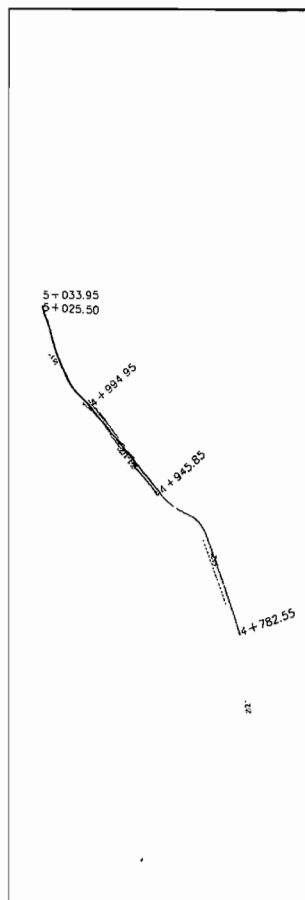
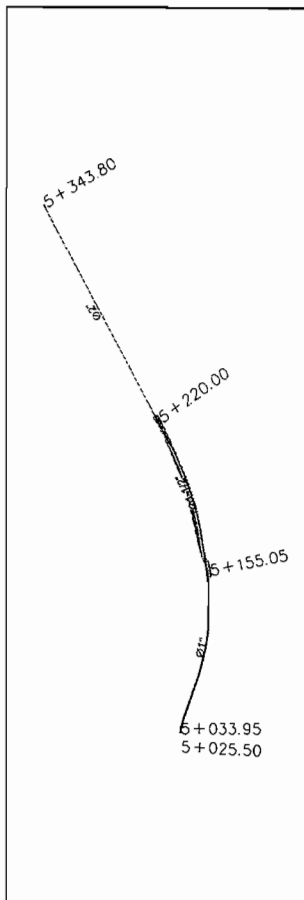
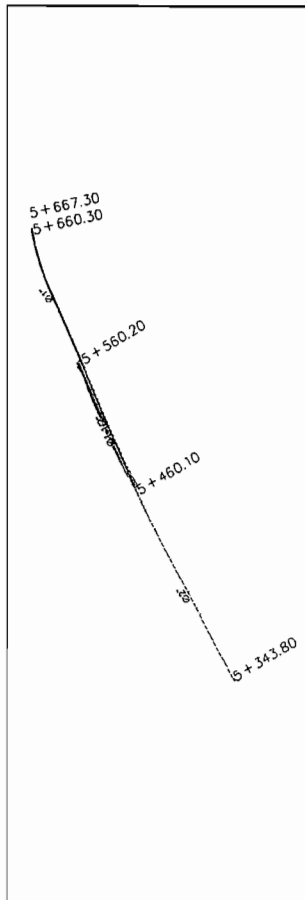
CONTRATO : 018/2016		TRAMO:	
OBRA : RAMAL SECUNDARIO DE RIEGO PARA SENDA DE		CONTRATISTA: GIL GUADALUPE OCHOA PACHECO	
PARQUE TRES PRESAS			

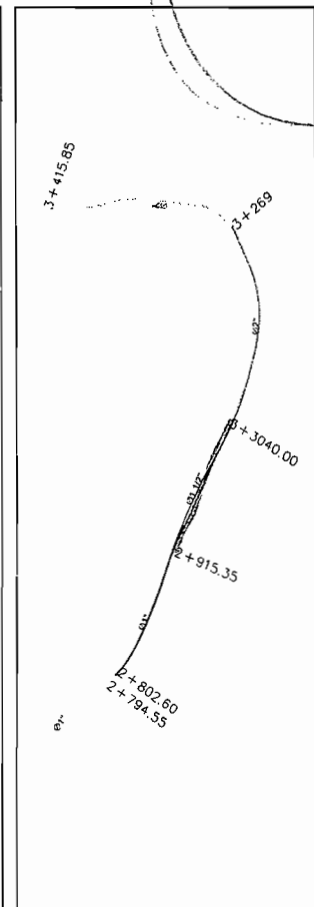
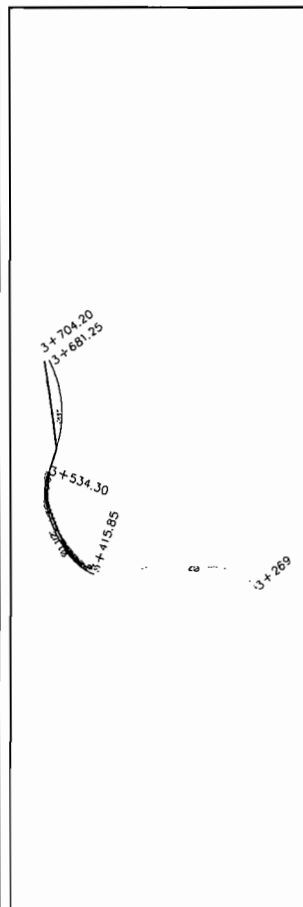
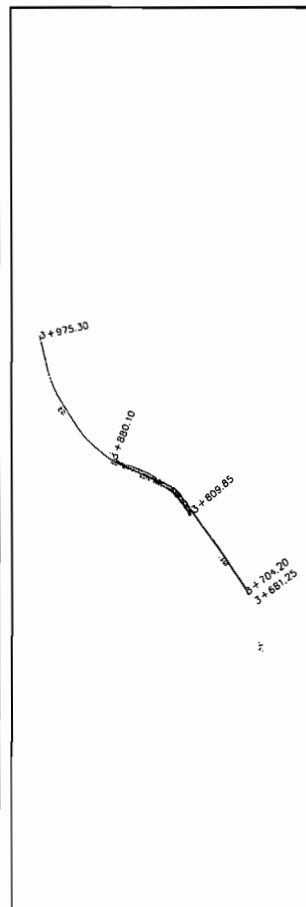
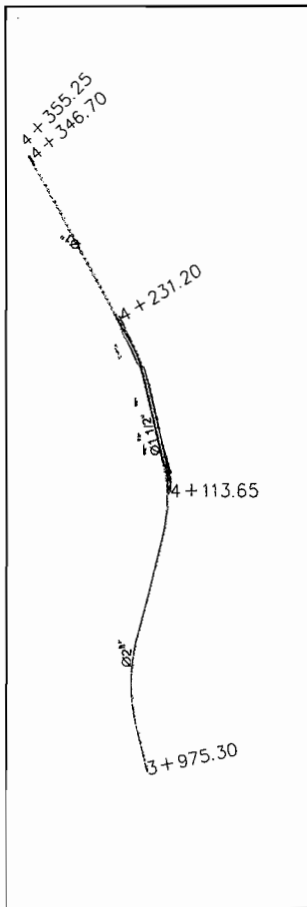
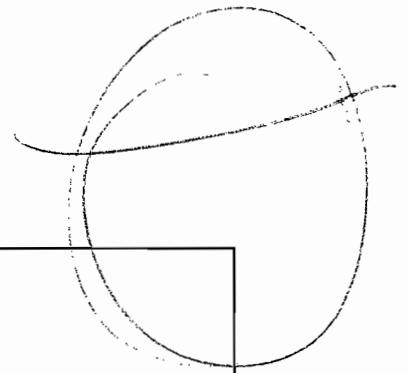
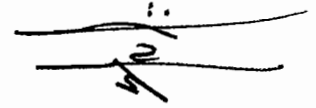
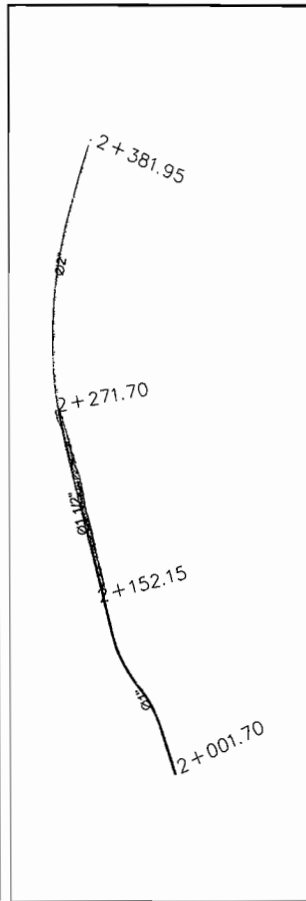
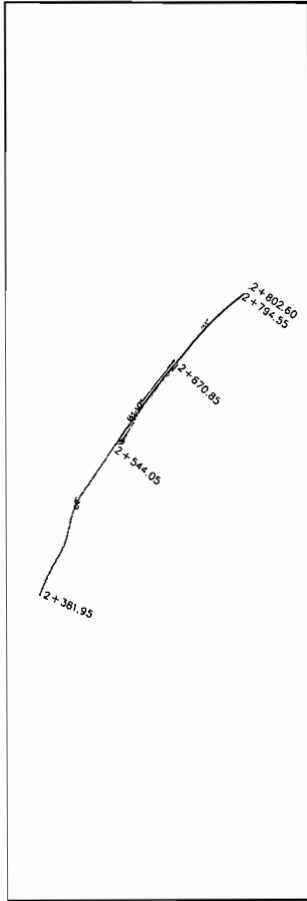
ESTIMACION No. 2 (DOS)	PERIODO : DEL 16 AL 31 DE MARZO DE 2016
------------------------	---

CLAVE: 1.02	OPERACIONES ARITMETICAS	CROQUIS	VOLUMEN A PAGAR
CONCEPTO: SUMINISTRO E INSTALACION DE TUBERIA DE PVC 1 1/2 PLG RD 21, 200 PSI.			
	2+152.15	2+271.70	119.55
	2+544.05	2+670.85	126.80
	2+915.35	3+040.00	124.65
	3+415.85	3+534.30	118.45
	3+809.85	3+880.10	127.95
	4+113.65	4+231.20	117.55
	4+474.85	4+581.00	106.15
	4+945.85	4+994.95	106.80
	5+155.05	5+220.00	122.65
	5+460.10	5+560.20	100.10
	5+775.00	5+888.70	113.70
	6+199.50	6+311.05	111.55
	6+568.00	6+689.15	121.15
	6+987.25	7+107.20	119.95
	TOTAL		1,637.00

ARQ. GABRIELA FLOREZ HURTADO
SUPERVISOR

ING. JORGE JAIME RODRIGUEZ HERNANDEZ
RESIDENTE





GENERADOR DE ESTIMACION

CONTRATO : 018/2016

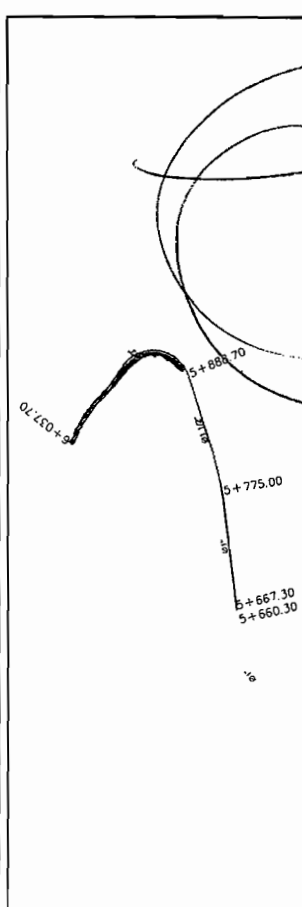
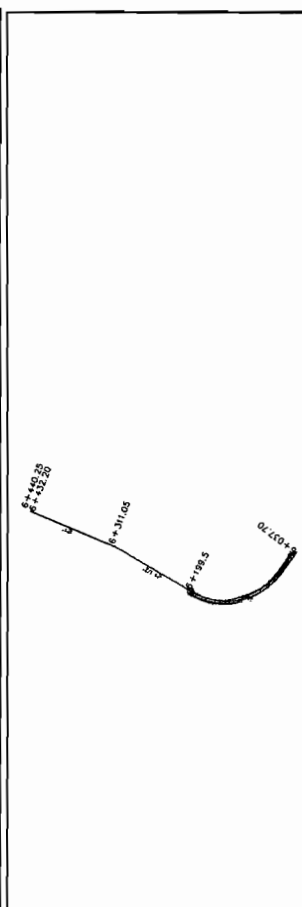
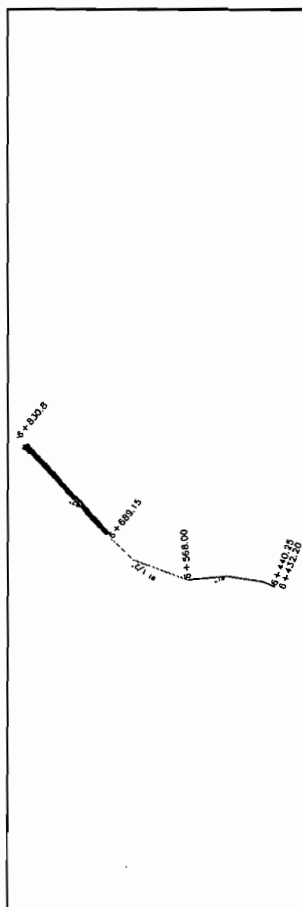
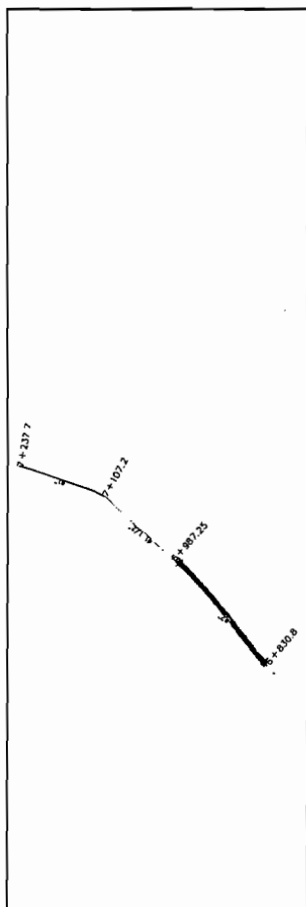
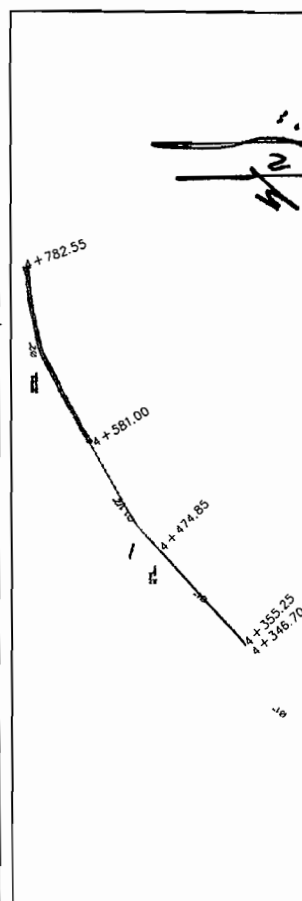
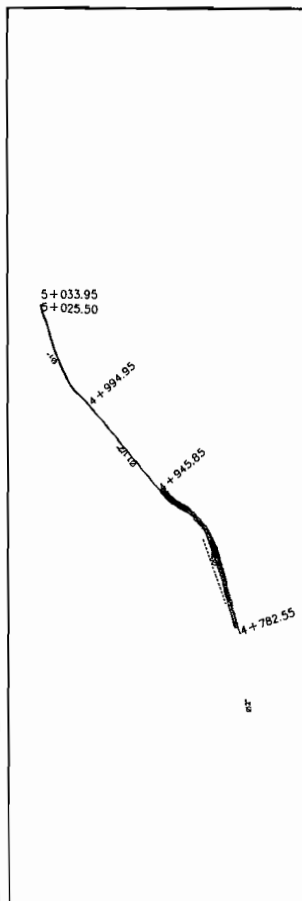
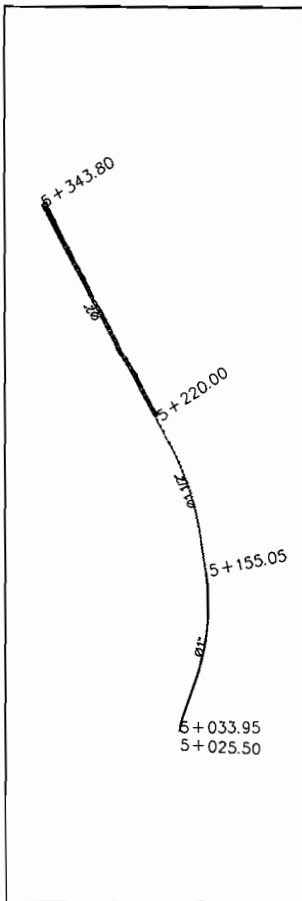
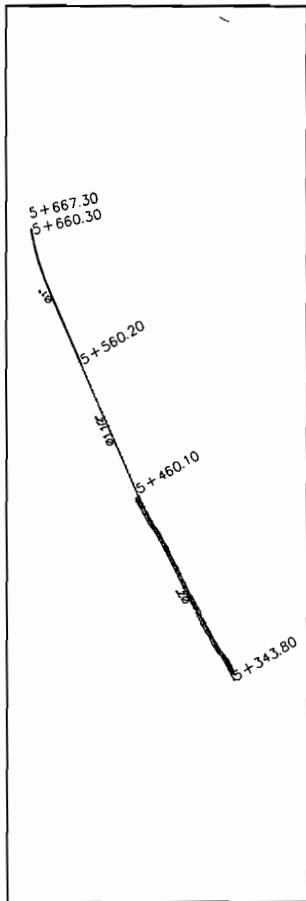
OBRA : RAMAL SECUNDARIO DE RIEGO PARA SENDA DE PARQUE TRES PRESAS

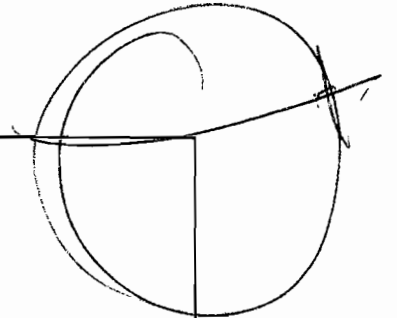
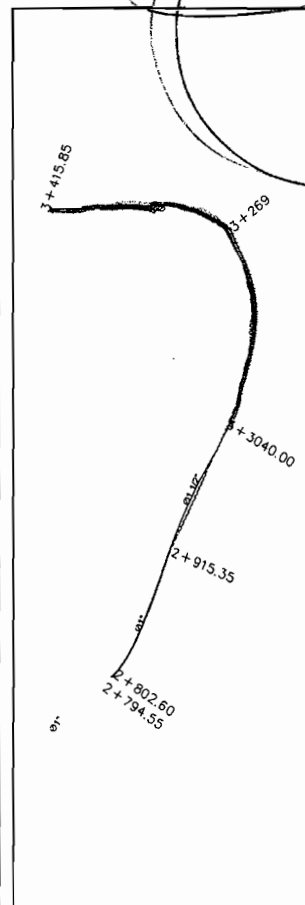
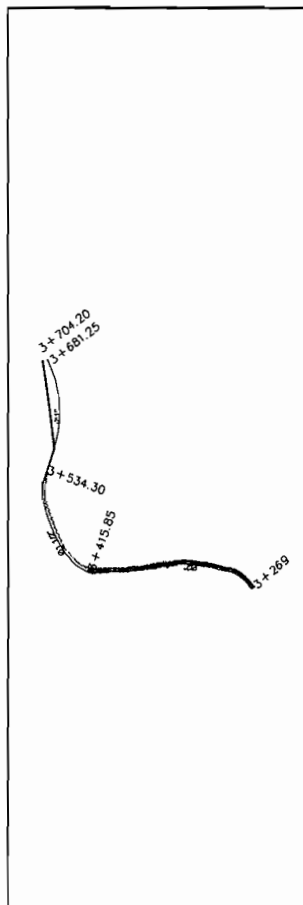
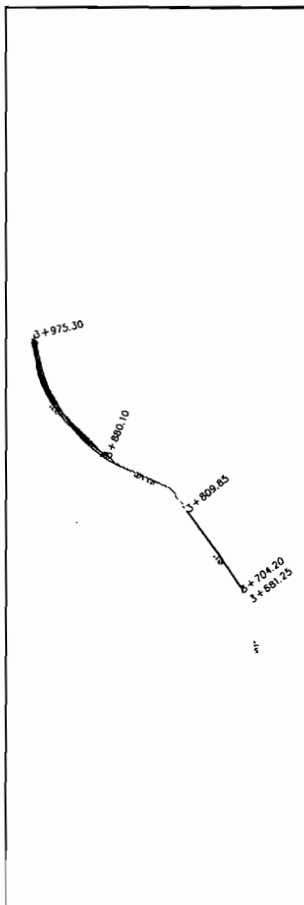
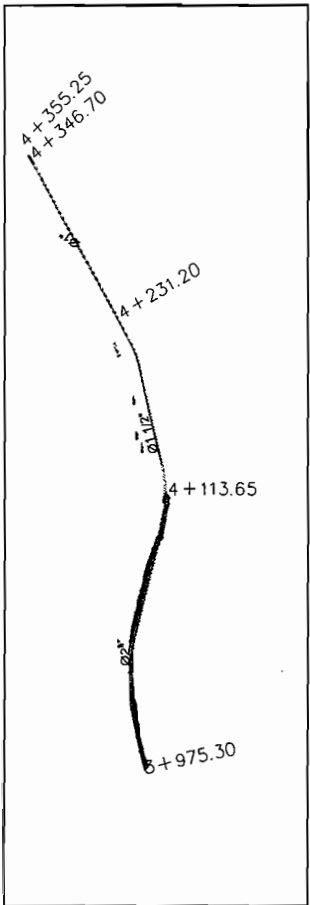
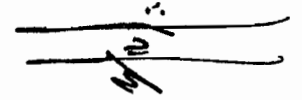
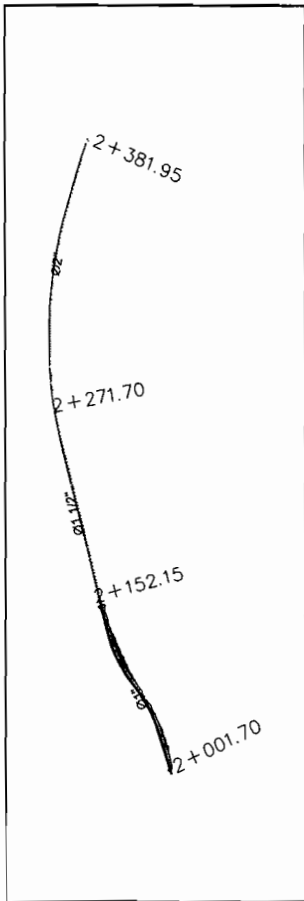
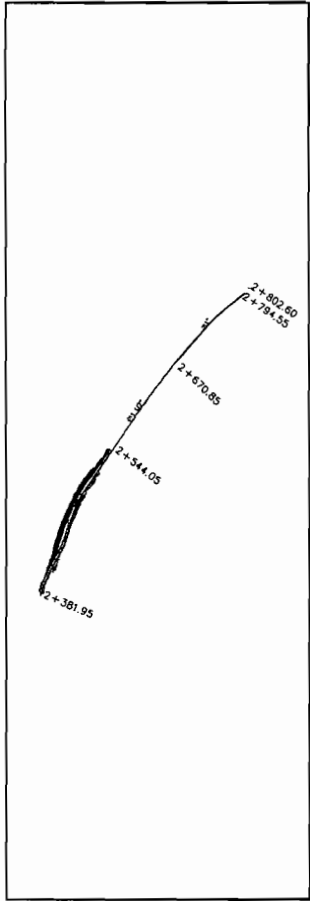
TRAMO: CONTRATISTA: GIL GUADALUPE OCHOA PACHECO

ESTIMACION No. 2 (DOS)		PERIODO : DEL 16 AL 31 DE MARZO DE 2016		CROQUIS		VOLUMEN A PAGAR
CLAVE: 1.03		OPERACIONES ARITMETICAS				
CONCEPTO: SUMINISTRO E INSTALACION DE TUBERIA DE PVC DE 2 PLG RD-26 CON CAMPANA.						2,095.60 m
		TOTAL		2,095.60		

ARQ. GABRIELA FLOREZ HURTADO
SUPERVISOR

ING. JORGE JAIME RODRIGUEZ HERNANDEZ
RESIDENTE

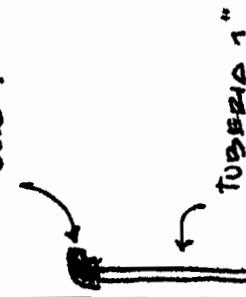




GENERADOR DE ESTIMACION

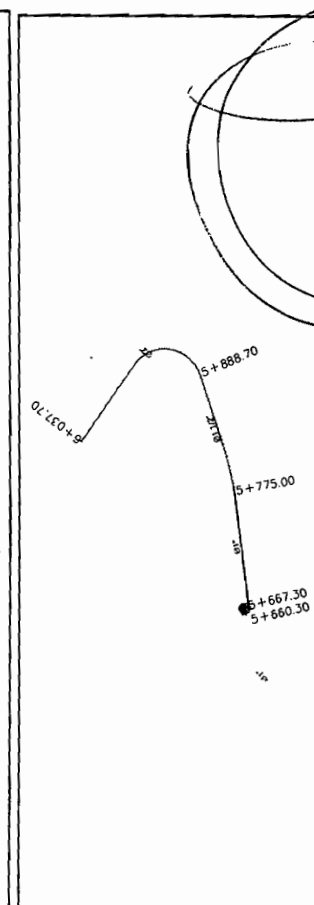
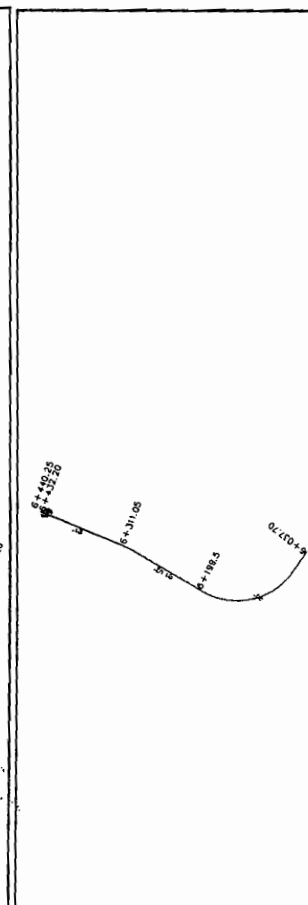
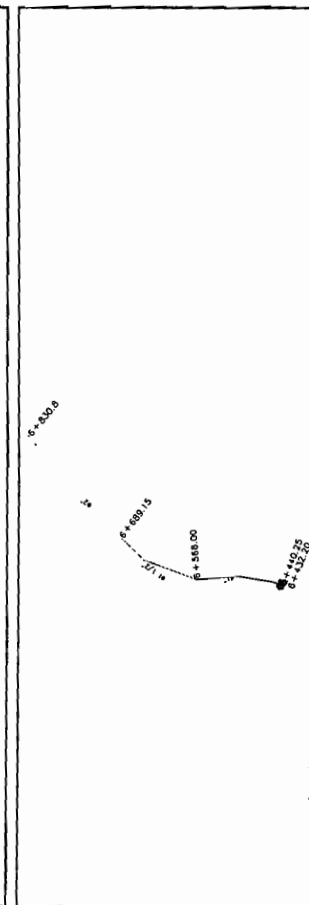
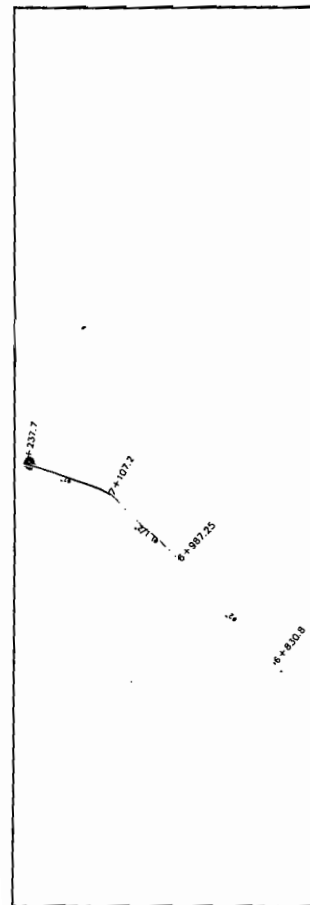
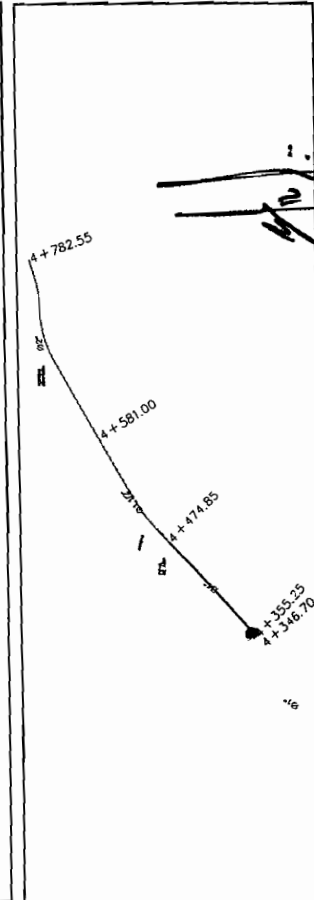
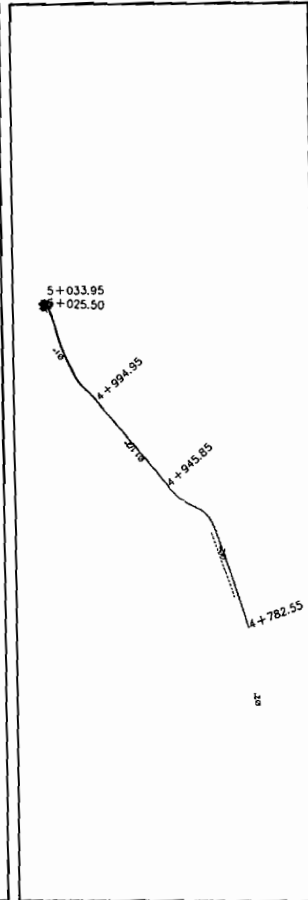
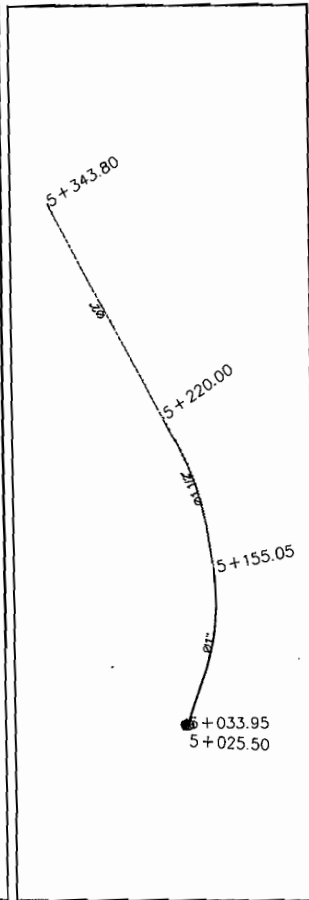
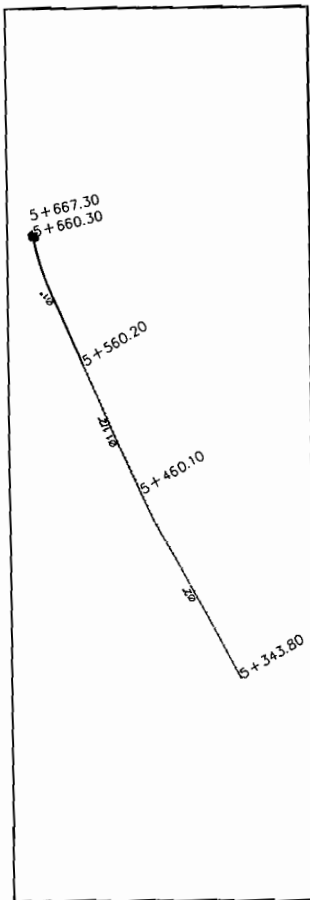
HOJA: 4 / 20

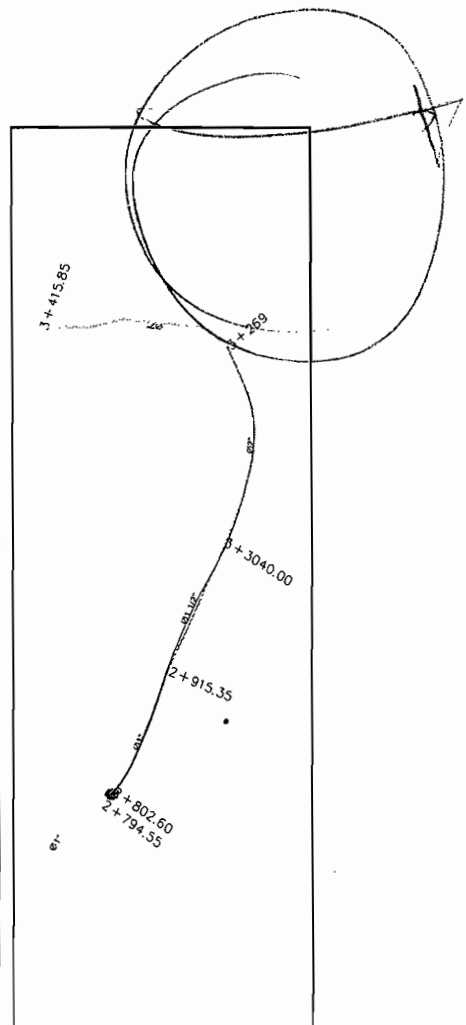
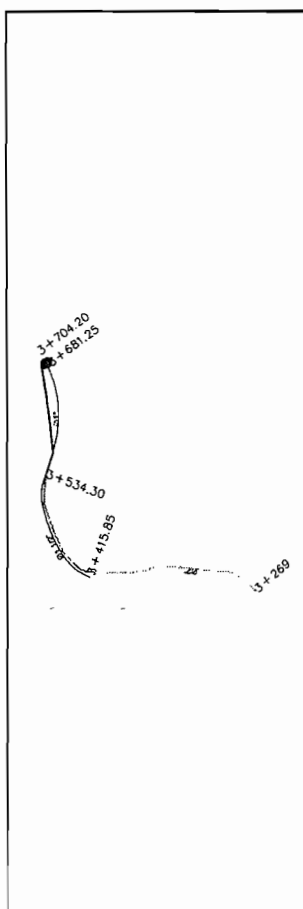
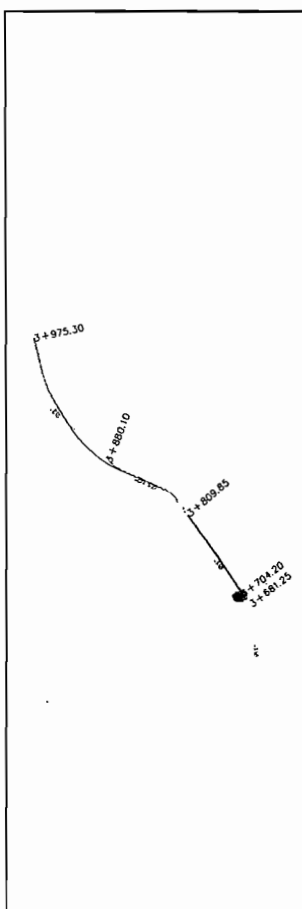
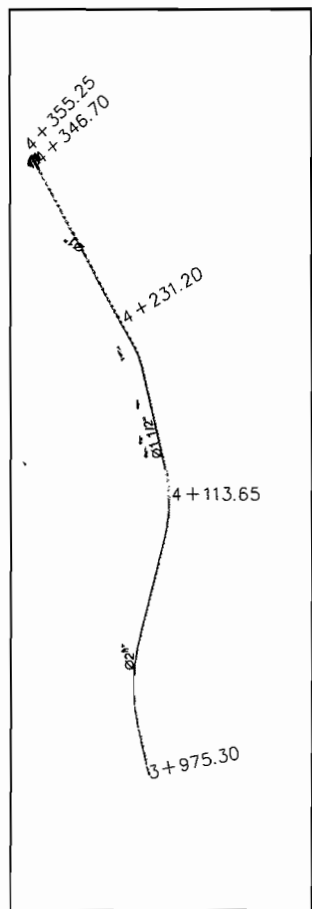
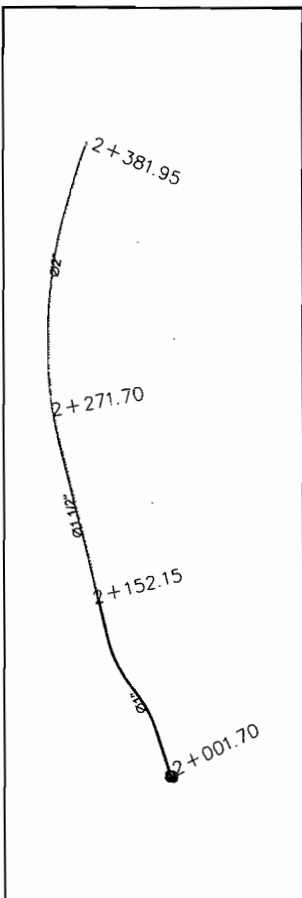
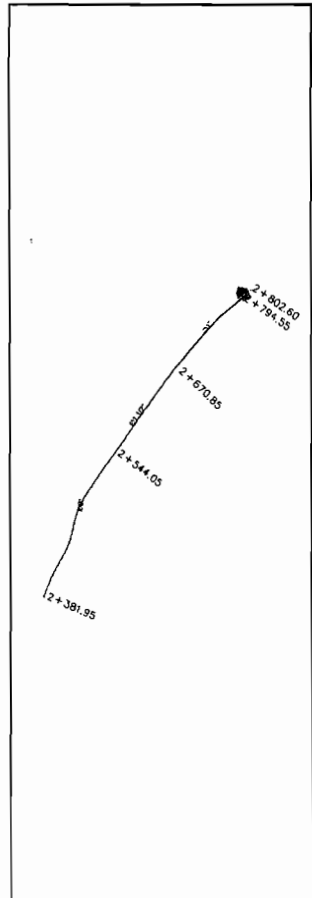
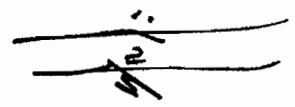
CONTRATO : 018/2016		TRAMO:
OBRA : RAMAL SECUNDARIO DE RIEGO PARA SENDA DE PARQUE TRES PRESAS		CONTRATISTA: GIL GUADALUPE OCHOA PACHECO

ESTIMACION No. 2 (DOS)		PERIODO : DEL 16 AL 31 DE MARZO DE 2016																														
CLAVE: 1.04 CONCEPTO: SUMINISTRO E INSTALACION DE CODO 90 DE PVC DE 1 PLG CED 40.  CODO 1" TUBERIA 1" Este codo va en el final de cada linea de 1" para alimentar el riego del ultimo arbol en ese cadenamiento																																
OPERACIONES ARITMETICAS <table border="1"> <tr><td>2+152.15</td><td>1.00</td></tr> <tr><td>2+794.55</td><td>1.00</td></tr> <tr><td>2+915.35</td><td>1.00</td></tr> <tr><td>3+681.25</td><td>1.00</td></tr> <tr><td>3+809.85</td><td>1.00</td></tr> <tr><td>4+346.70</td><td>1.00</td></tr> <tr><td>4+474.85</td><td>1.00</td></tr> <tr><td>5+025.50</td><td>1.00</td></tr> <tr><td>5+155.05</td><td>1.00</td></tr> <tr><td>5+660.30</td><td>1.00</td></tr> <tr><td>5+775.00</td><td>1.00</td></tr> <tr><td>6+432.20</td><td>1.00</td></tr> <tr><td>6+568.00</td><td>1.00</td></tr> <tr><td>7+237.70</td><td>1.00</td></tr> <tr><td>TOTAL</td><td>14.00</td></tr> </table>		2+152.15	1.00	2+794.55	1.00	2+915.35	1.00	3+681.25	1.00	3+809.85	1.00	4+346.70	1.00	4+474.85	1.00	5+025.50	1.00	5+155.05	1.00	5+660.30	1.00	5+775.00	1.00	6+432.20	1.00	6+568.00	1.00	7+237.70	1.00	TOTAL	14.00	CROQUIS VOLUMEN A PAGAR 14.00 piezas
2+152.15	1.00																															
2+794.55	1.00																															
2+915.35	1.00																															
3+681.25	1.00																															
3+809.85	1.00																															
4+346.70	1.00																															
4+474.85	1.00																															
5+025.50	1.00																															
5+155.05	1.00																															
5+660.30	1.00																															
5+775.00	1.00																															
6+432.20	1.00																															
6+568.00	1.00																															
7+237.70	1.00																															
TOTAL	14.00																															

ARQ. GABRIELA FLOREZ HURTADO
SUPERVISOR

ING. JORGE JAIME RODRIGUEZ HERNANDEZ
RESIDENTE

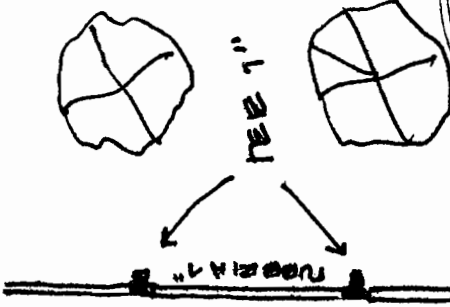




GENERADOR DE ESTIMACION

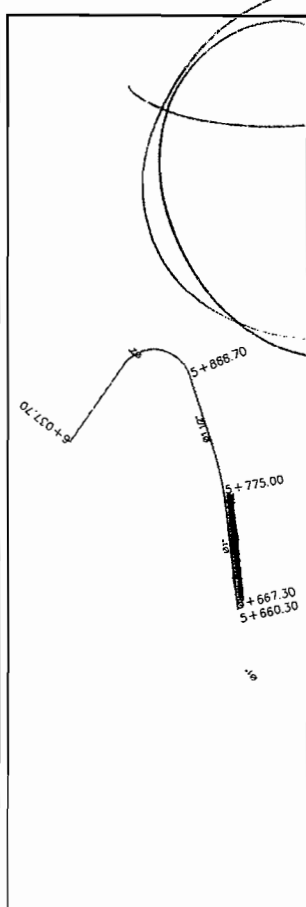
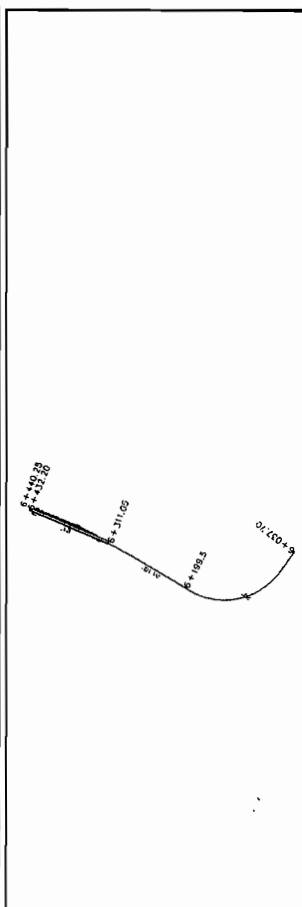
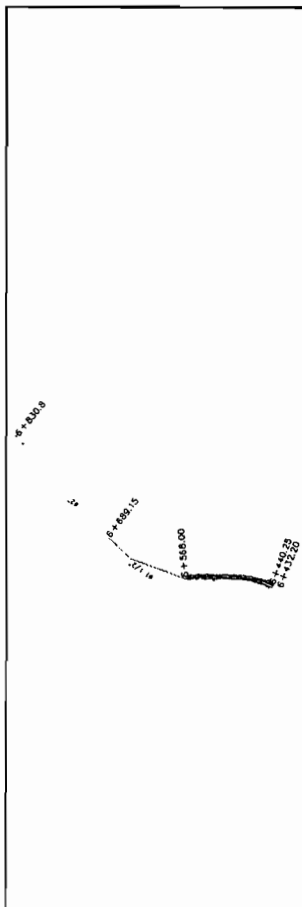
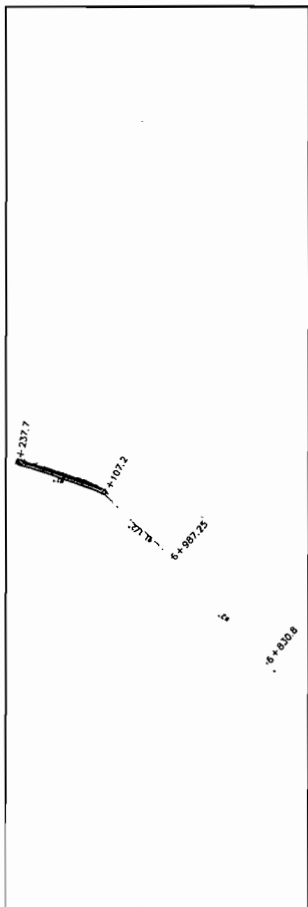
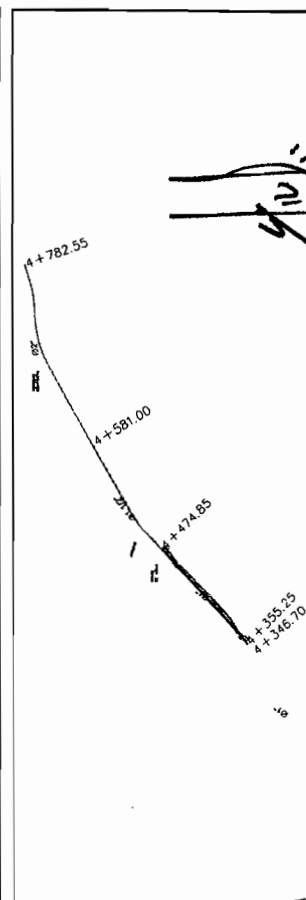
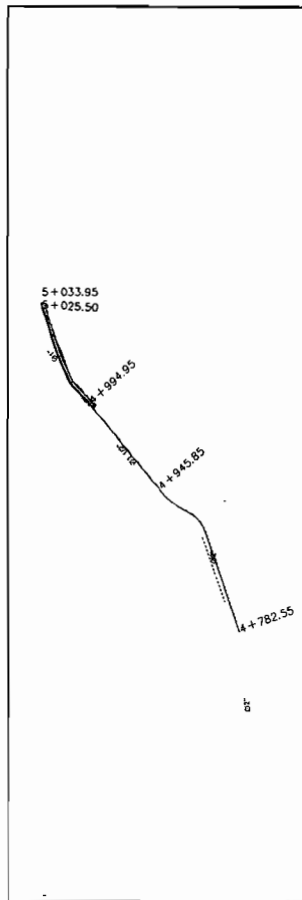
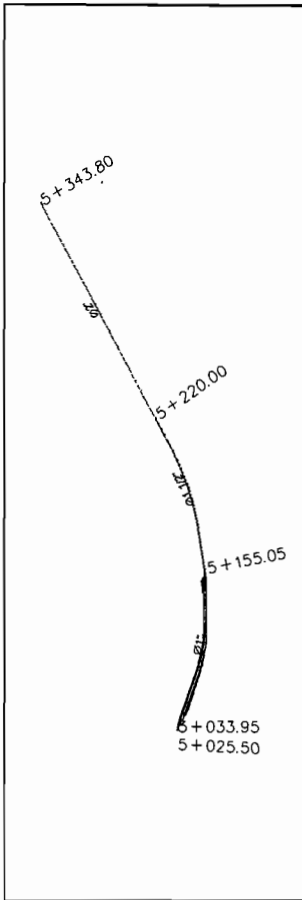
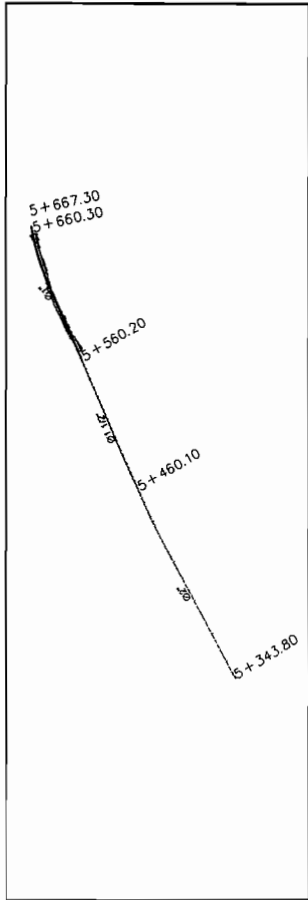
HOJA: 5 / 20

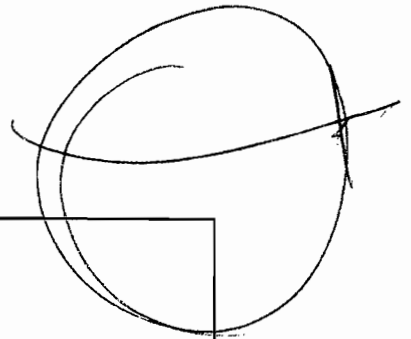
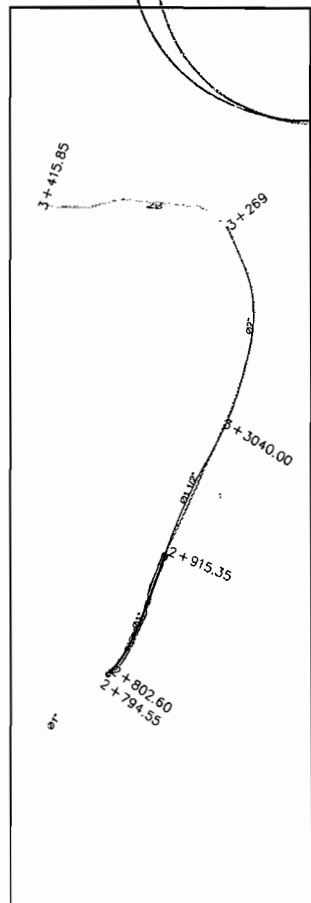
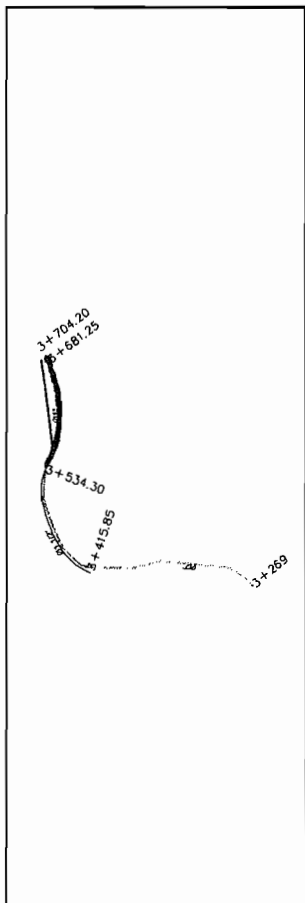
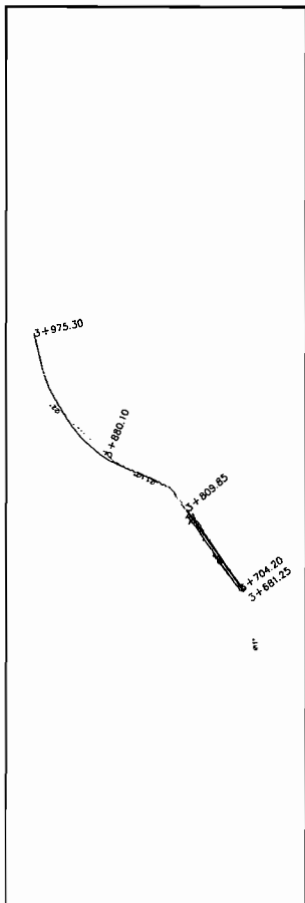
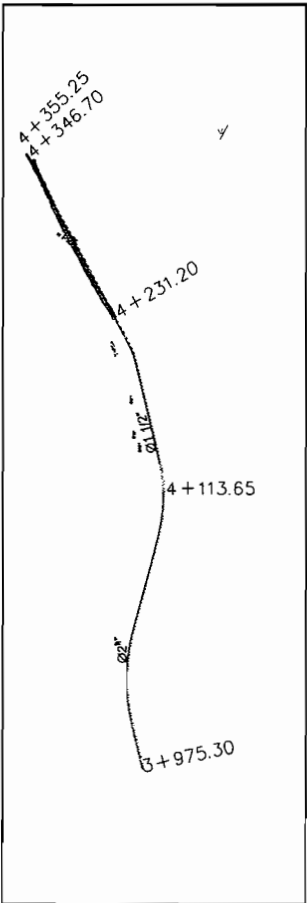
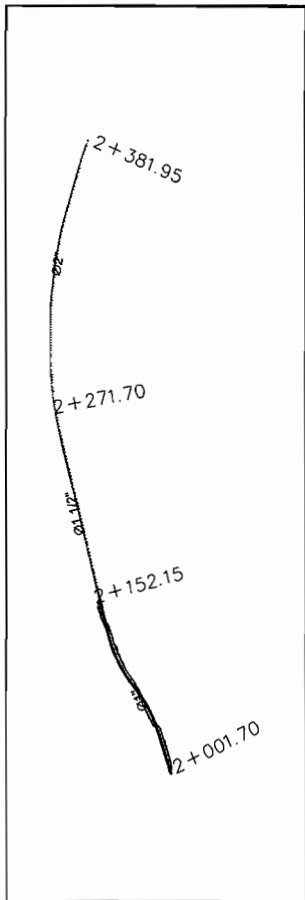
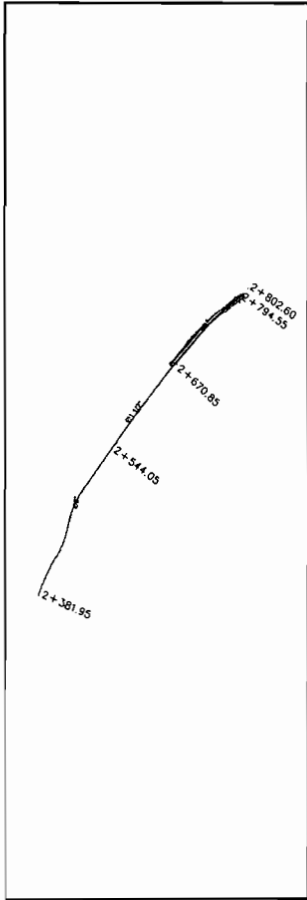
CONTRATO : 018/2016	TRAMO:
OBRA : RAMAL SECUNDARIO DE RIEGO PARA SENDA DE	CONTRATISTA: GIL GUADALUPE OCHOA PACHECO
PARQUE TRES PRESAS	

ESTIMACION No. 2 (DOS)		PERIODO : DEL 16 AL 31 DE MARZO DE 2016																																																												
CLAVE: 1.05	OPERACIONES ARITMETICAS																																																													
CONCEPTO: SUMINISTRO E INSTALACION DE TEE DE PVC DE 1 PLG CED 40.	<table border="1"> <tr><td>2+001.70</td><td>2+152.15</td><td>14.00</td><td>14.00</td></tr> <tr><td>2+670.85</td><td>2+794.55</td><td>14.00</td><td>14.00</td></tr> <tr><td>2+802.60</td><td>2+915.35</td><td>14.00</td><td>14.00</td></tr> <tr><td>3+534.30</td><td>3+681.25</td><td>14.00</td><td>14.00</td></tr> <tr><td>3+704.20</td><td>3+809.85</td><td>14.00</td><td>14.00</td></tr> <tr><td>4+231.20</td><td>4+346.70</td><td>14.00</td><td>14.00</td></tr> <tr><td>4+355.25</td><td>4+474.85</td><td>14.00</td><td>14.00</td></tr> <tr><td>4+994.95</td><td>5+025.50</td><td>14.00</td><td>14.00</td></tr> <tr><td>5+033.95</td><td>5+155.05</td><td>14.00</td><td>14.00</td></tr> <tr><td>5+560.20</td><td>5+660.30</td><td>14.00</td><td>14.00</td></tr> <tr><td>5+667.30</td><td>5+775.00</td><td>14.00</td><td>14.00</td></tr> <tr><td>6+311.05</td><td>6+432.20</td><td>14.00</td><td>14.00</td></tr> <tr><td>6+440.25</td><td>6+568.00</td><td>14.00</td><td>14.00</td></tr> <tr><td>7+107.20</td><td>7+237.70</td><td>16.00</td><td>16.00</td></tr> <tr> <td colspan="2">TOTAL</td> <td>198.00</td> <td>198.00</td> </tr> </table>		2+001.70	2+152.15	14.00	14.00	2+670.85	2+794.55	14.00	14.00	2+802.60	2+915.35	14.00	14.00	3+534.30	3+681.25	14.00	14.00	3+704.20	3+809.85	14.00	14.00	4+231.20	4+346.70	14.00	14.00	4+355.25	4+474.85	14.00	14.00	4+994.95	5+025.50	14.00	14.00	5+033.95	5+155.05	14.00	14.00	5+560.20	5+660.30	14.00	14.00	5+667.30	5+775.00	14.00	14.00	6+311.05	6+432.20	14.00	14.00	6+440.25	6+568.00	14.00	14.00	7+107.20	7+237.70	16.00	16.00	TOTAL		198.00	198.00
2+001.70	2+152.15	14.00	14.00																																																											
2+670.85	2+794.55	14.00	14.00																																																											
2+802.60	2+915.35	14.00	14.00																																																											
3+534.30	3+681.25	14.00	14.00																																																											
3+704.20	3+809.85	14.00	14.00																																																											
4+231.20	4+346.70	14.00	14.00																																																											
4+355.25	4+474.85	14.00	14.00																																																											
4+994.95	5+025.50	14.00	14.00																																																											
5+033.95	5+155.05	14.00	14.00																																																											
5+560.20	5+660.30	14.00	14.00																																																											
5+667.30	5+775.00	14.00	14.00																																																											
6+311.05	6+432.20	14.00	14.00																																																											
6+440.25	6+568.00	14.00	14.00																																																											
7+107.20	7+237.70	16.00	16.00																																																											
TOTAL		198.00	198.00																																																											
 Estas TEE son para derivar el riego hacia el arbol que se va a regar y continuar la linea de riego secundario para la tubería de PVC de 1"		VOLUMEN A PAGAR																																																												

ING. JORGE JAIME RODRIGUEZ HERNANDEZ
RESIDENTE

ARQ. GABRIELA FLOREZ HURTADO
SUPERVISOR





GENERADOR DE ESTIMACION

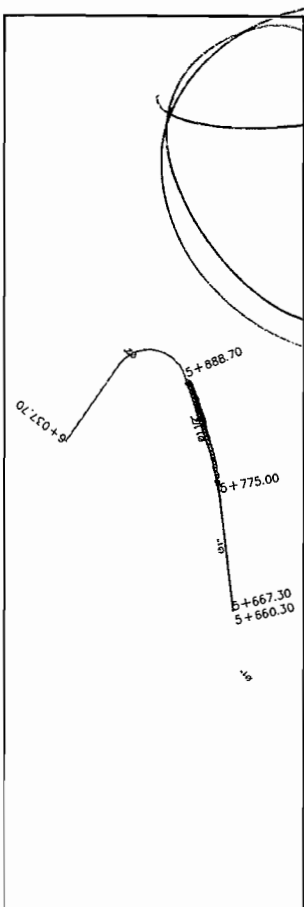
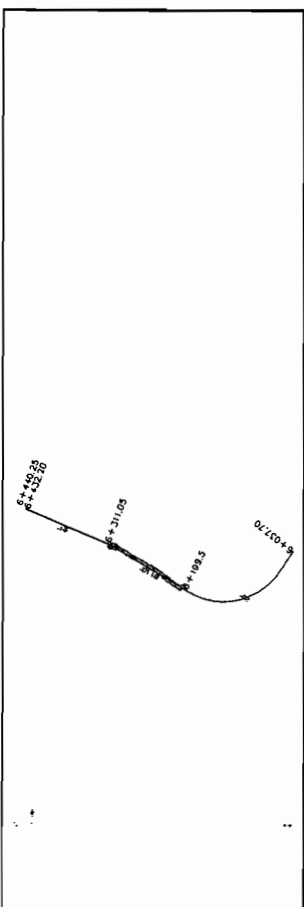
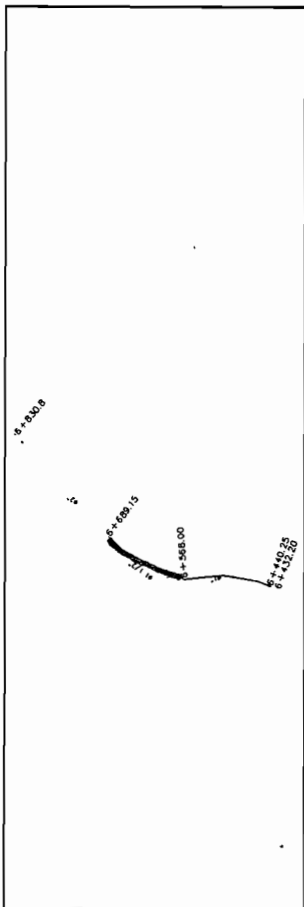
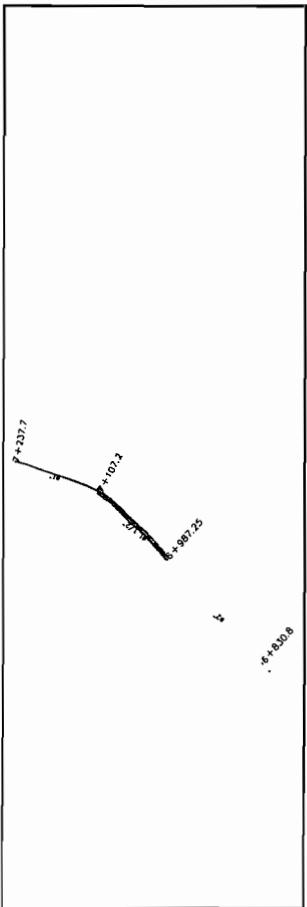
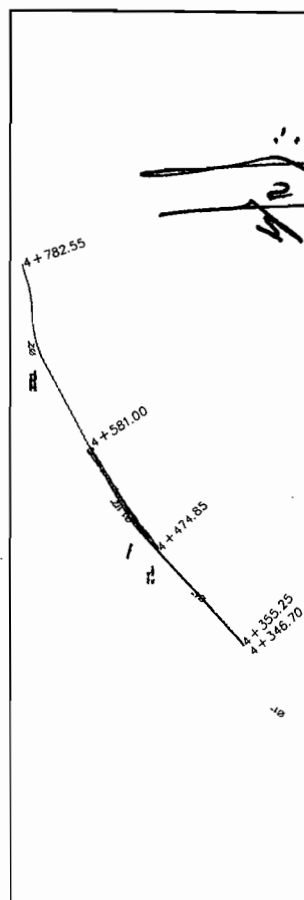
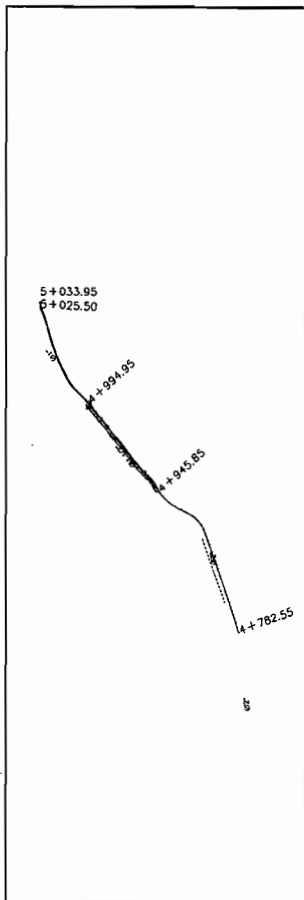
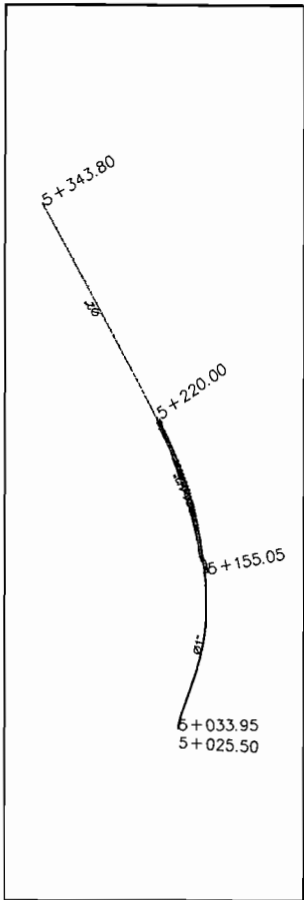
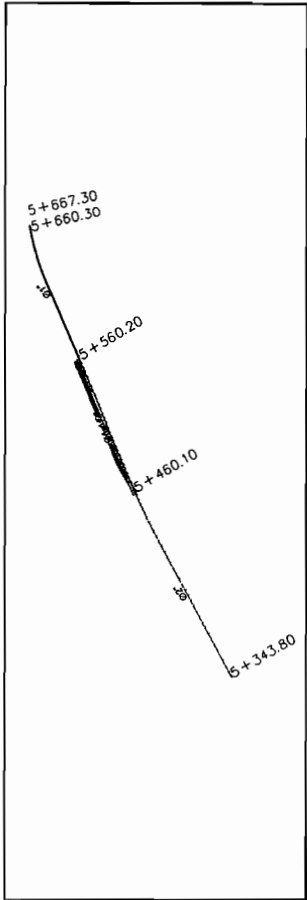
HOJA: 6 / 20

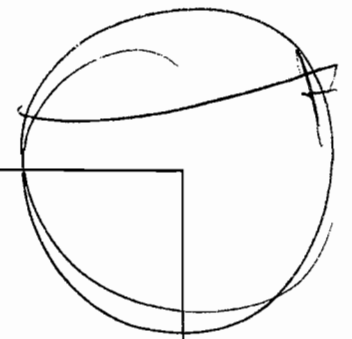
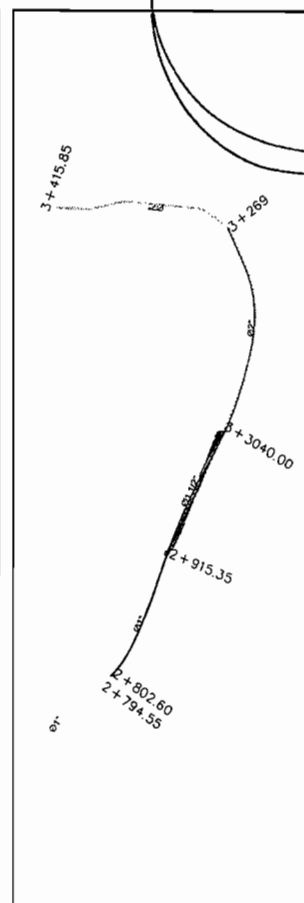
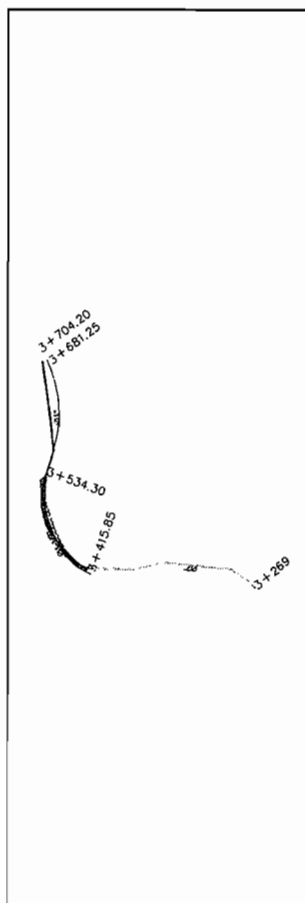
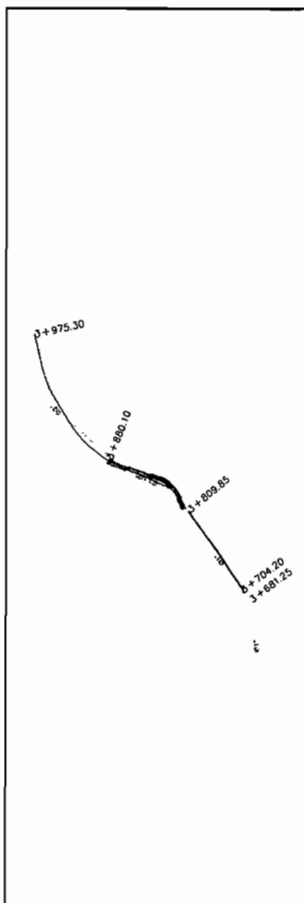
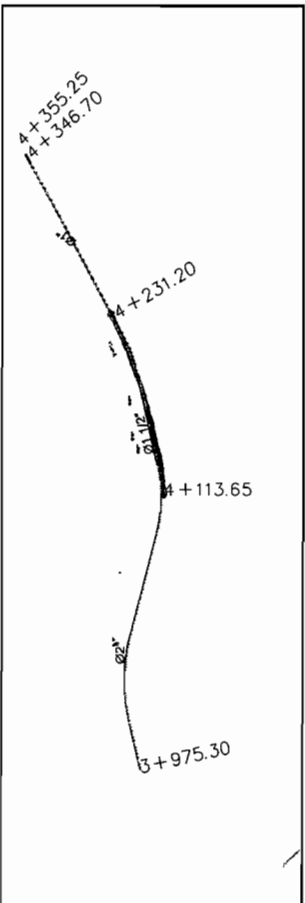
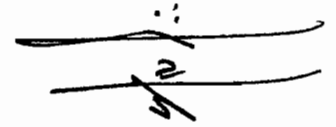
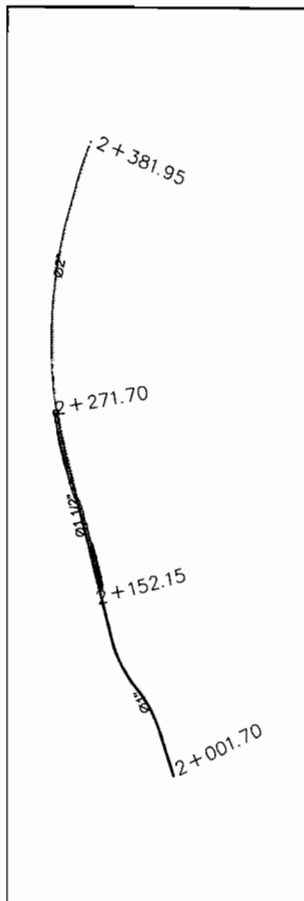
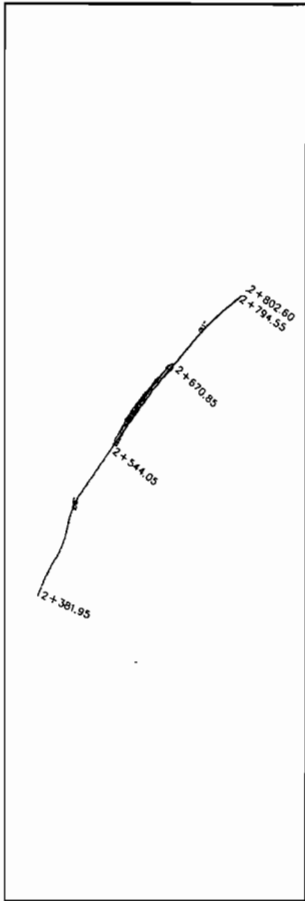
CONTRATO : 018/2016	TRAMO:
OBRA : RAMAL SECUNDARIO DE RIEGO PARA SENDA DE PARQUE TRES PRESAS	CONTRATISTA: GIL GUADALUPE OCHOA PACHECO

ESTIMACION No. 2 (DOS)	PERIODO : DEL 16 AL 31 DE MARZO DE 2016	CROQUIS	VOLUMEN A PAGAR																																																												
CLAVE: 1.06 CONCEPTO: SUMINISTRO E INSTALACION DE TEE DE PVC DE 1 1/2 PLG CED 40. 	OPERACIONES ARITMETICAS <table> <tr><td>2+152.15</td><td>2+271.70</td><td>15.00</td><td>15.00</td></tr> <tr><td>2+544.05</td><td>2+670.85</td><td>15.00</td><td>15.00</td></tr> <tr><td>2+915.35</td><td>3+040.00</td><td>6.00</td><td>6.00</td></tr> <tr><td>3+415.85</td><td>3+534.30</td><td>15.00</td><td>15.00</td></tr> <tr><td>3+809.85</td><td>3+880.10</td><td>11.00</td><td>11.00</td></tr> <tr><td>4+113.65</td><td>4+231.20</td><td>15.00</td><td>15.00</td></tr> <tr><td>4+474.85</td><td>4+581.00</td><td>15.00</td><td>15.00</td></tr> <tr><td>4+945.85</td><td>4+994.95</td><td>12.00</td><td>12.00</td></tr> <tr><td>5+155.05</td><td>5+220.00</td><td>12.00</td><td>12.00</td></tr> <tr><td>5+460.10</td><td>5+560.20</td><td>15.00</td><td>15.00</td></tr> <tr><td>5+775.00</td><td>5+888.70</td><td>15.00</td><td>15.00</td></tr> <tr><td>6+199.50</td><td>6+311.05</td><td>15.00</td><td>15.00</td></tr> <tr><td>6+568.00</td><td>6+689.15</td><td>15.00</td><td>15.00</td></tr> <tr><td>6+987.25</td><td>7+107.20</td><td>15.00</td><td>15.00</td></tr> <tr><td colspan="2">TOTAL</td><td>191.00</td><td>191.00</td></tr> </table> Estas TEE son para derivar el riego hacia el arbol que se va a regar y continuar la linea de riego secundario para la tuberia de PVC de 1 1/2"	2+152.15	2+271.70	15.00	15.00	2+544.05	2+670.85	15.00	15.00	2+915.35	3+040.00	6.00	6.00	3+415.85	3+534.30	15.00	15.00	3+809.85	3+880.10	11.00	11.00	4+113.65	4+231.20	15.00	15.00	4+474.85	4+581.00	15.00	15.00	4+945.85	4+994.95	12.00	12.00	5+155.05	5+220.00	12.00	12.00	5+460.10	5+560.20	15.00	15.00	5+775.00	5+888.70	15.00	15.00	6+199.50	6+311.05	15.00	15.00	6+568.00	6+689.15	15.00	15.00	6+987.25	7+107.20	15.00	15.00	TOTAL		191.00	191.00		191.00 piezas
2+152.15	2+271.70	15.00	15.00																																																												
2+544.05	2+670.85	15.00	15.00																																																												
2+915.35	3+040.00	6.00	6.00																																																												
3+415.85	3+534.30	15.00	15.00																																																												
3+809.85	3+880.10	11.00	11.00																																																												
4+113.65	4+231.20	15.00	15.00																																																												
4+474.85	4+581.00	15.00	15.00																																																												
4+945.85	4+994.95	12.00	12.00																																																												
5+155.05	5+220.00	12.00	12.00																																																												
5+460.10	5+560.20	15.00	15.00																																																												
5+775.00	5+888.70	15.00	15.00																																																												
6+199.50	6+311.05	15.00	15.00																																																												
6+568.00	6+689.15	15.00	15.00																																																												
6+987.25	7+107.20	15.00	15.00																																																												
TOTAL		191.00	191.00																																																												

ARQ. GABRIELA FLÓREZ HURTADO
SUPERVISOR

ING. JORGE JAIME RODRIGUEZ HERNANDEZ
RESIDENTE





GENERADOR DE ESTIMACION

HOJA: 7 / 20

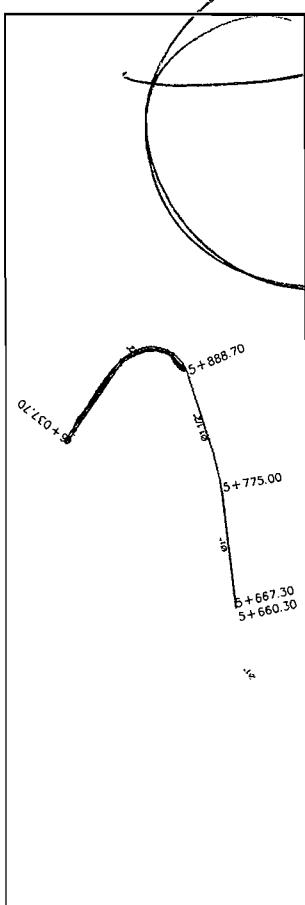
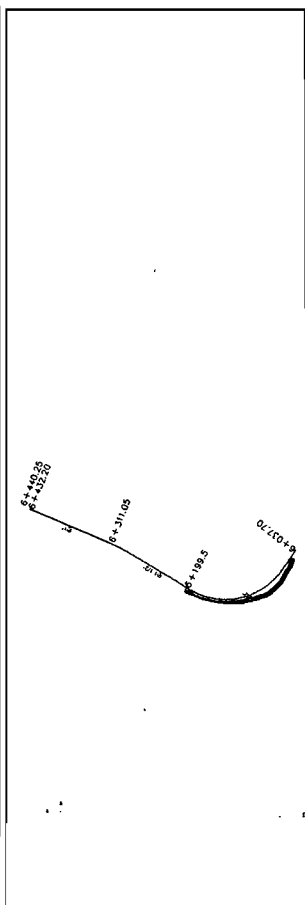
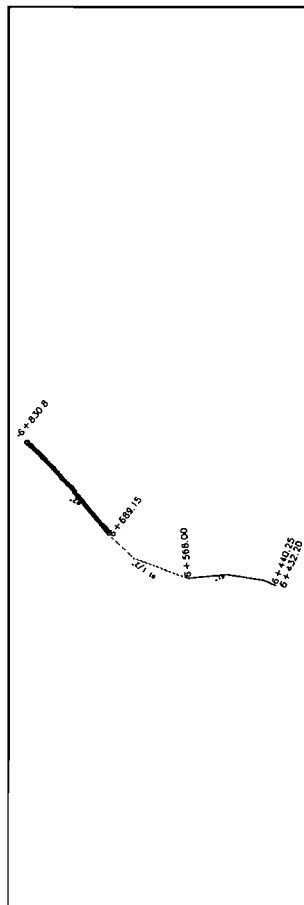
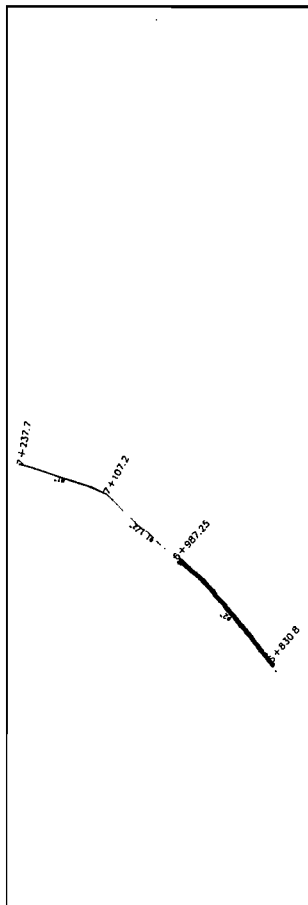
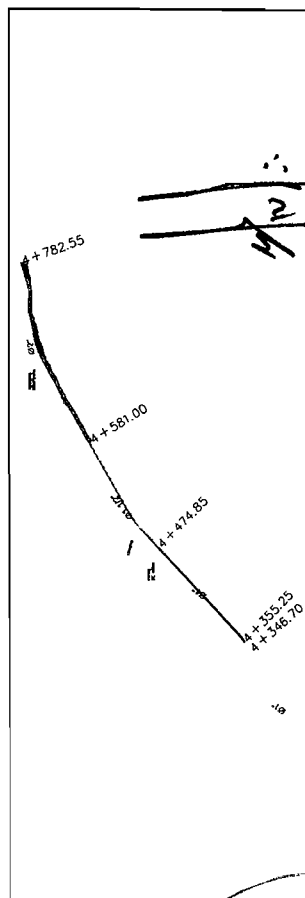
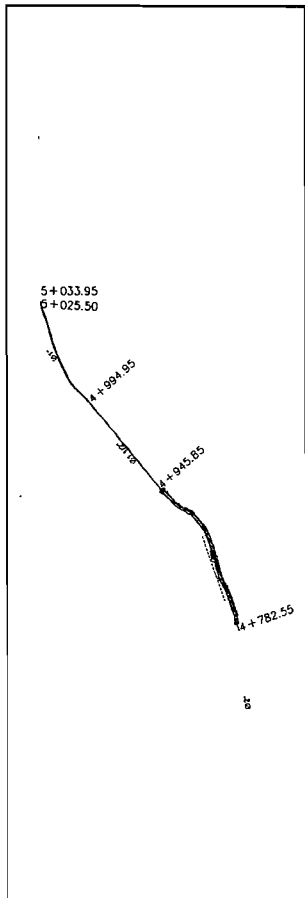
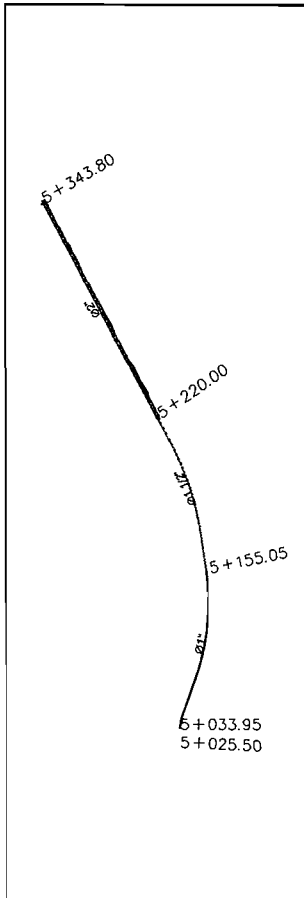
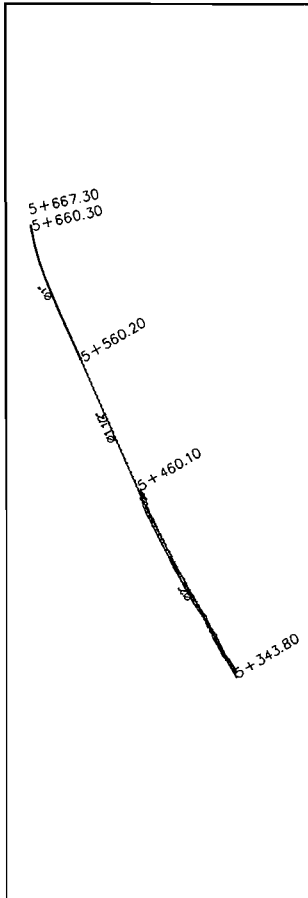
CONTRATO : 018/2016	TRAMO:
OBRA : RAMAL SECUNDARIO DE RIEGO PARA SENDA DE PARQUE TRES PRESAS	CONTRATISTA: GIL GUADALUPE OCHOA PACHECO

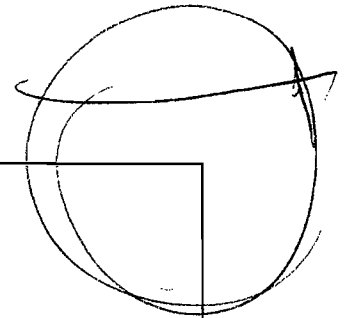
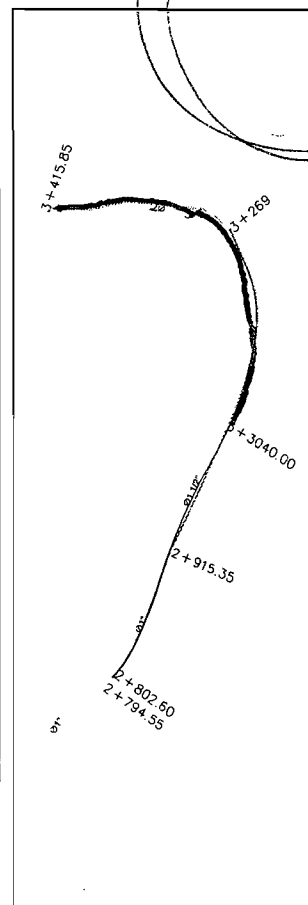
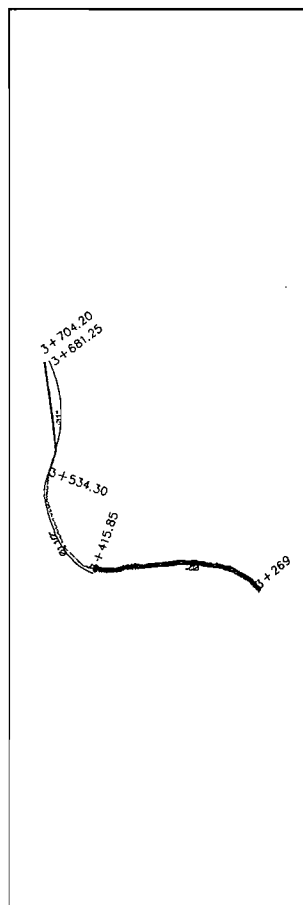
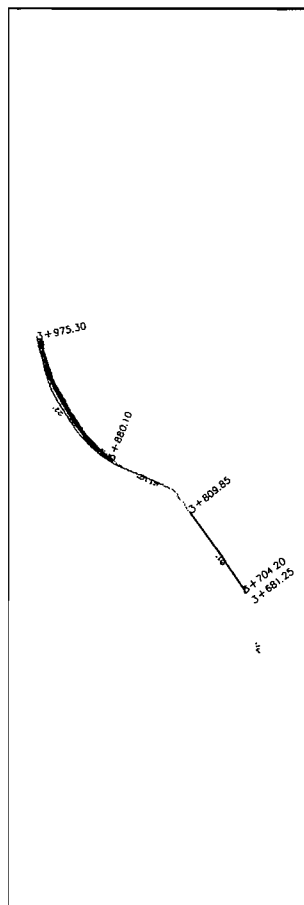
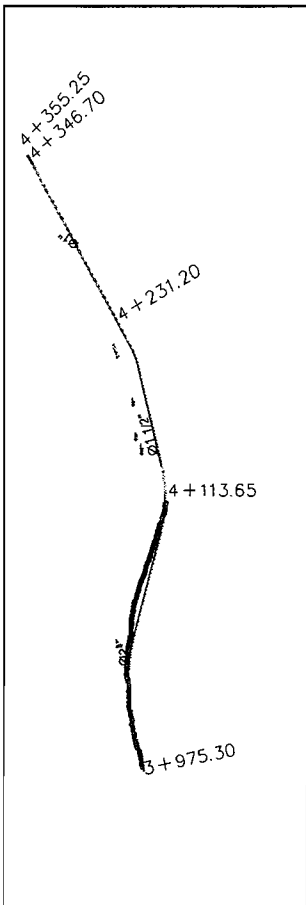
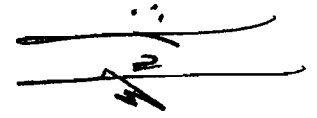
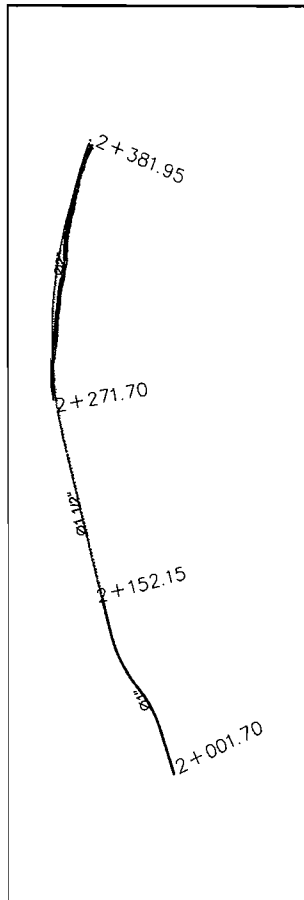
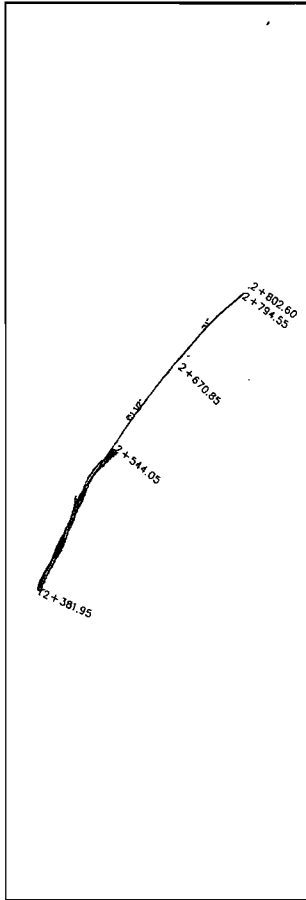
ESTIMACION No. 2 (DOS)	PERIODO : DEL 16 AL 31 DE MARZO DE 2016
------------------------	---

CLAVE: 1.07 CONCEPTO: SUMINISTRO E INSTALACION DE TEE DE PVC DE 2PLG CED 40.	OPERACIONES ARITMETICAS			
	2+271.70	2+381.95	20.00	20.00
	2+381.95	2+544.05	20.00	20.00
	3+040.00	3+269.00	24.00	24.00
	3+269.00	3+415.85	20.00	20.00
	3+880.10	3+975.30	16.00	16.00
	3+975.30	4+113.65	20.00	20.00
	4+581.00	4+782.55	24.00	24.00
	4+782.55	4+945.85	20.00	20.00
	5+220.00	5+343.80	18.00	18.00
	5+343.80	5+460.10	20.00	20.00
	5+888.70	6+037.70	20.00	20.00
	6+037.70	6+199.50	24.00	24.00
	6+689.15	6+830.80	20.00	20.00
	6+830.80	6+987.25	21.00	21.00
TOTAL		287.00		
Estas TEE son para derivar el riego hacia el arbol que se va a regar y continuar la linea de riego secundario para la tubería de PVC de 2"				

ING. JORGE JAIME RODRIGUEZ HERNANDEZ
RESIDENTE

ARG. GABRIELA FLOREZ HURTADO
SUPERVISOR





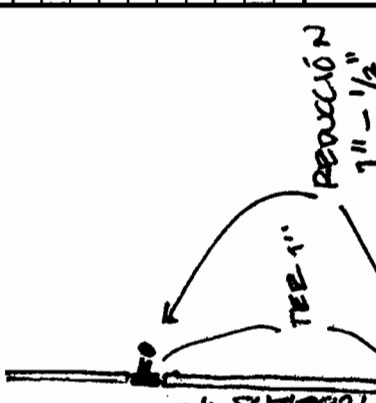
GENERADOR DE ESTIMACION

HOJA: 8 / 20

CONTRATO : 018/2016	TRAMO:
OBRA : RAMAL SECUNDARIO DE RIEGO PARA SENDA DE PARQUE TRES PRESAS	CONTRATISTA: GIL GUADALUPE OCHOA PACHECO

ESTIMACION No. 2 (DOS)	PERIODO : DEL 16 AL 31 DE MARZO DE 2016
------------------------	---

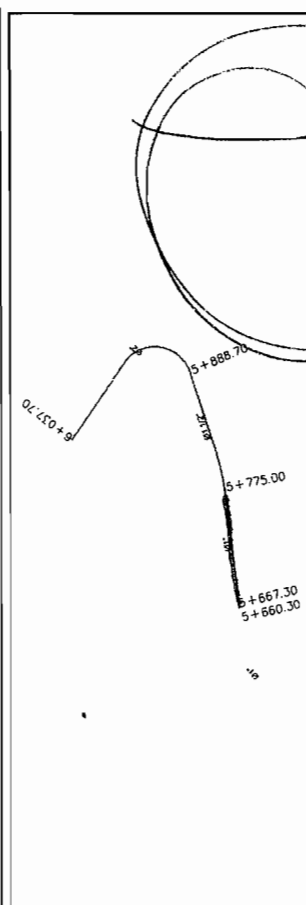
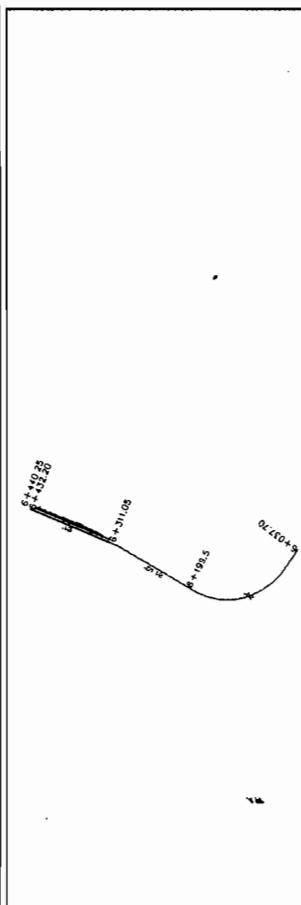
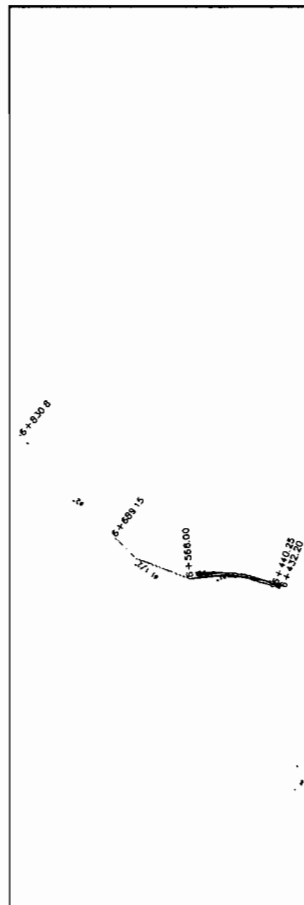
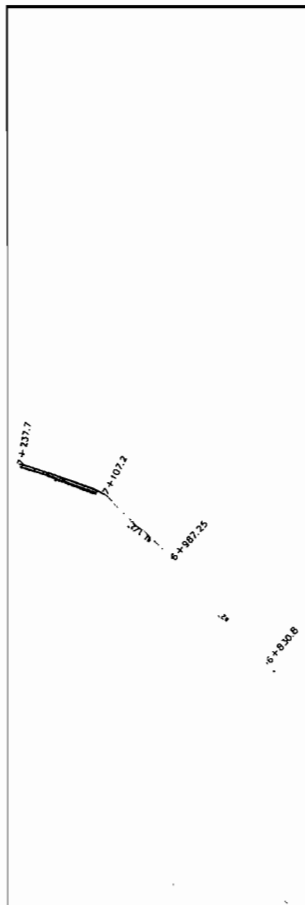
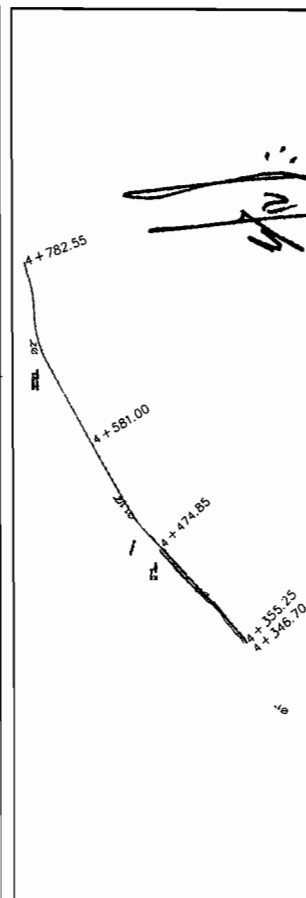
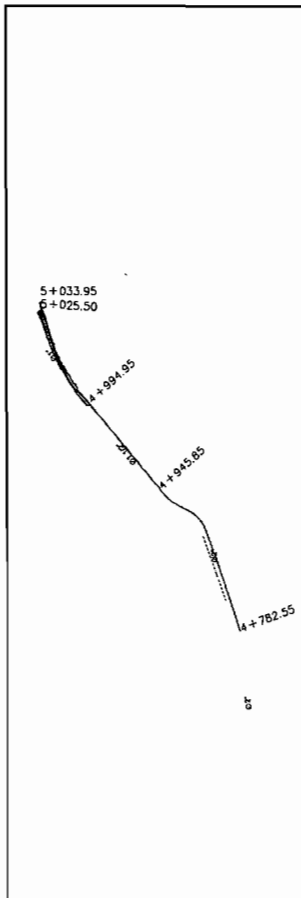
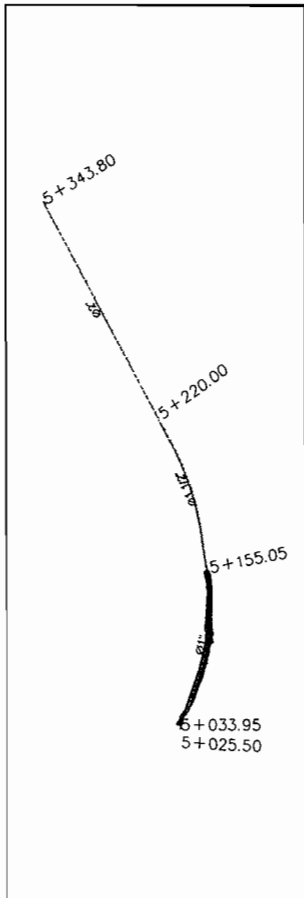
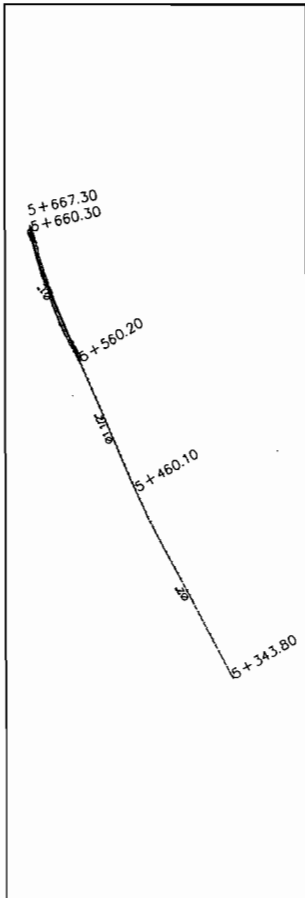
CLAVE: 1.08	OPERACIONES ARITMETICAS			
CONCEPTO: SUMINISTRO E INSTALACION DE REDUCCION LISA DE 1 A 1/2 PULGADAS.	2+001.70	2+152.15	15.00	15.00
	2+670.85	2+794.55	15.00	15.00
	2+802.60	2+915.35	15.00	15.00
	3+534.30	3+681.25	15.00	15.00
	3+704.20	3+809.85	15.00	15.00
	4+231.20	4+346.70	15.00	15.00
	4+355.25	4+474.85	15.00	15.00
	4+994.95	5+025.50	15.00	15.00
	5+033.95	5+155.05	15.00	15.00
	5+560.20	5+660.30	15.00	15.00
	5+667.30	5+775.00	15.00	15.00
	6+311.05	6+432.20	15.00	15.00
	6+440.25	6+568.00	15.00	15.00
	7+107.20	7+237.70	17.00	17.00
	TOTAL			212.00
Estas reducciones son para realizar la conexión del ramal secundario de 1" al conector espiga de 1/2" que le corresponde al riego del arbol				

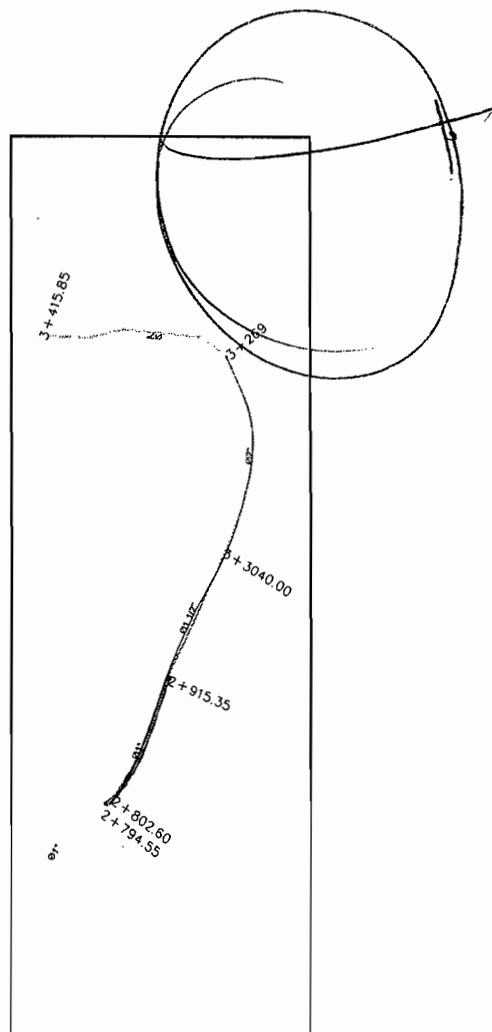
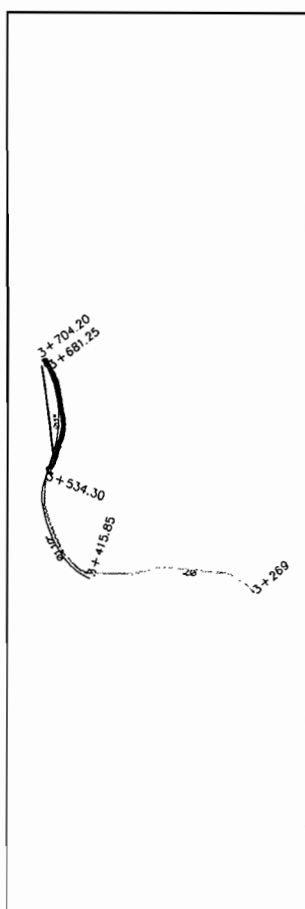
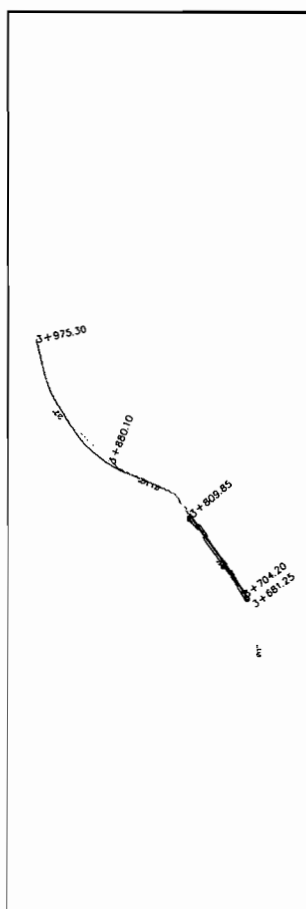
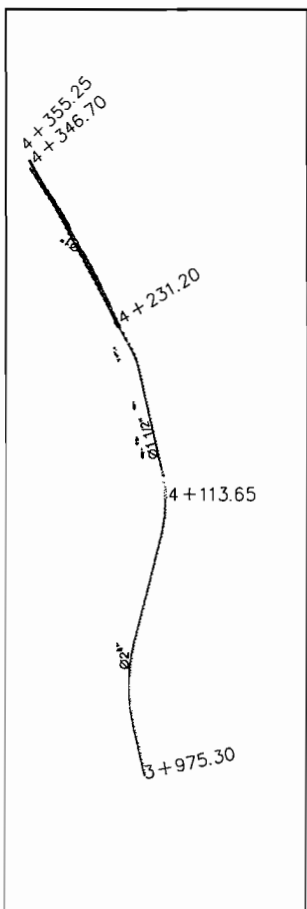
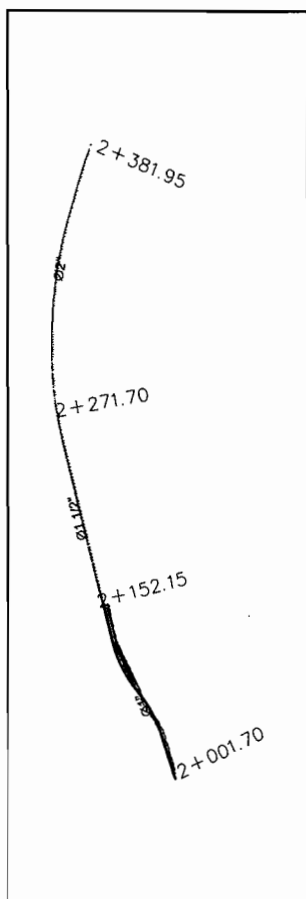
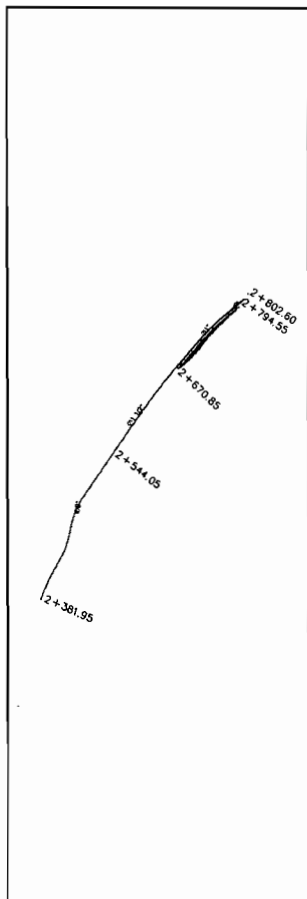


212.00 piezas


 ING. JORGE JAIME RODRIGUEZ HERNANDEZ
 RESIDENTE

ARQ. GABRIELA LOPEZ HURTADO
 SUPERVISOR





GENERADOR DE ESTIMACION

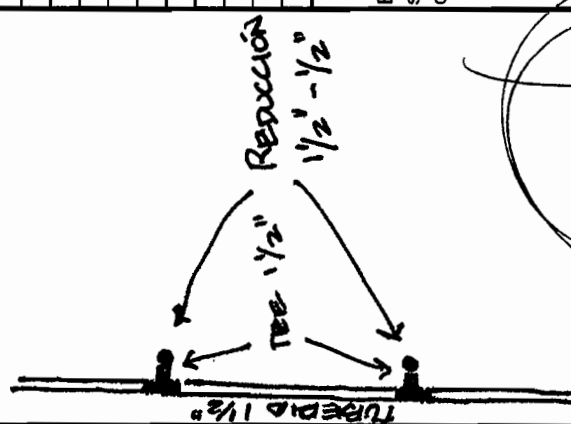
HOJA: 9 / 20

CONTRATO : 018/2016	TRAMO:
OBRA : RAMAL SECUNDARIO DE RIEGO PARA SENDA DE PARQUE TRES PRESAS	CONTRATISTA: GIL GUADALUPE OCHOA PACHECO

ESTIMACION No. 2 (DOS)	PERIODO : DEL 16 AL 31 DE MARZO DE 2016
------------------------	---

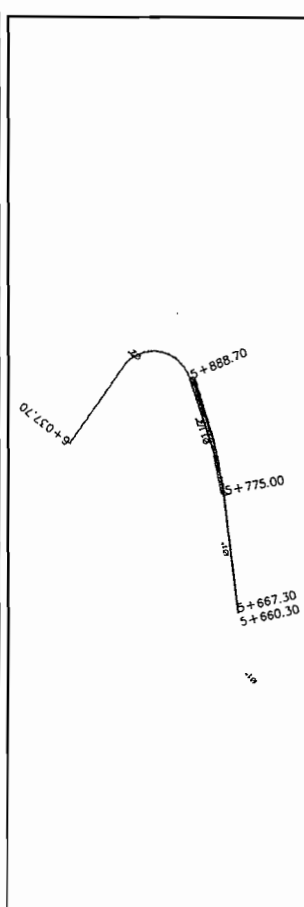
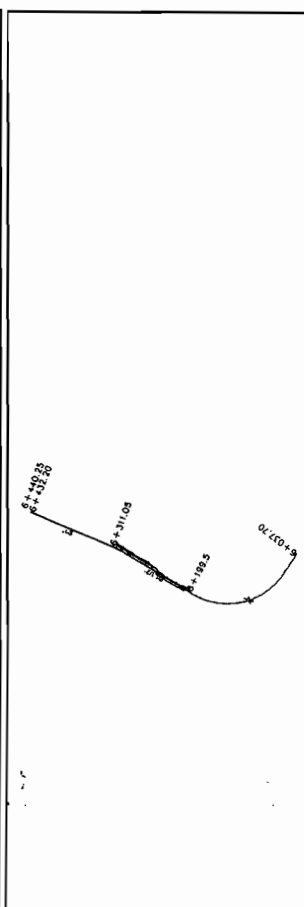
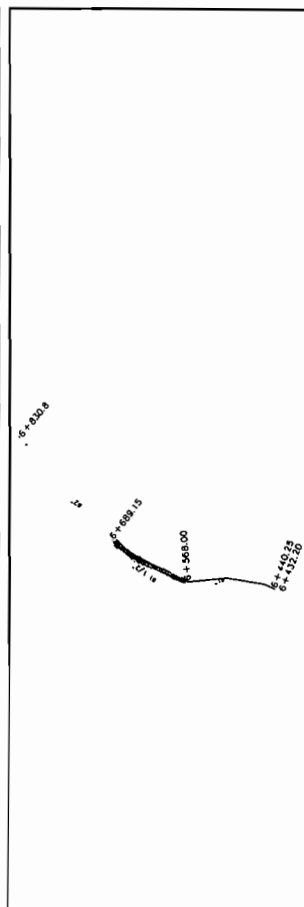
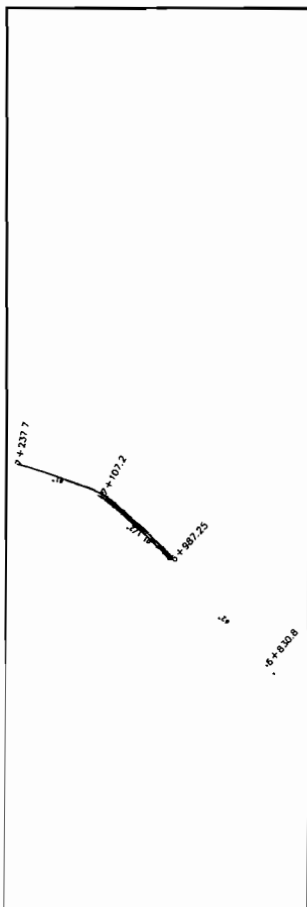
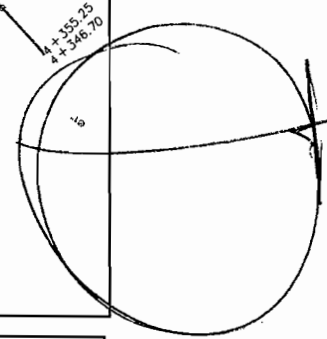
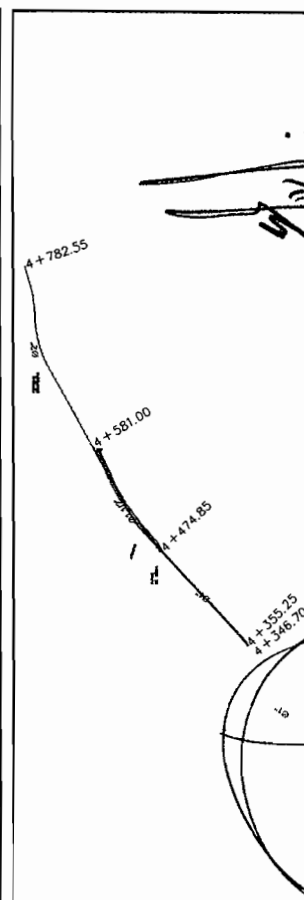
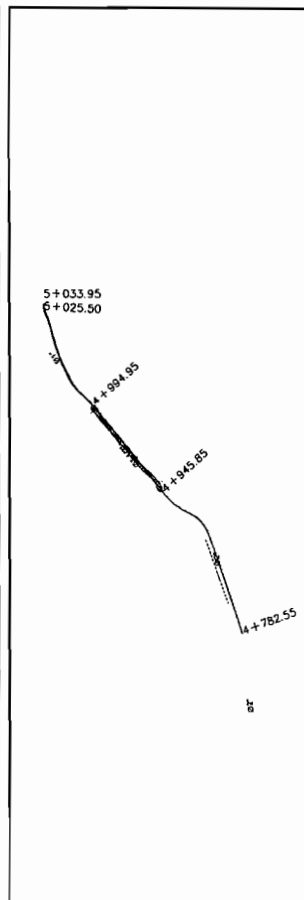
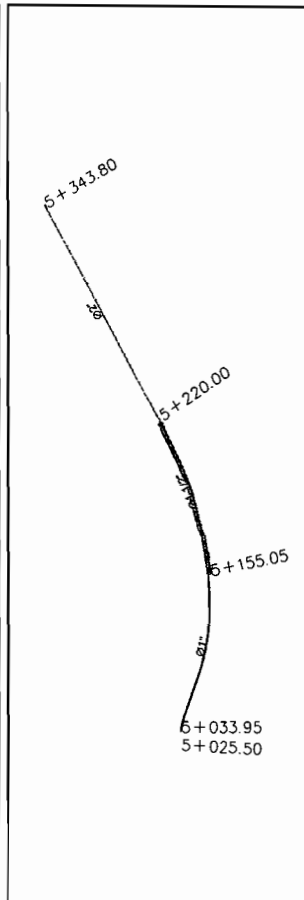
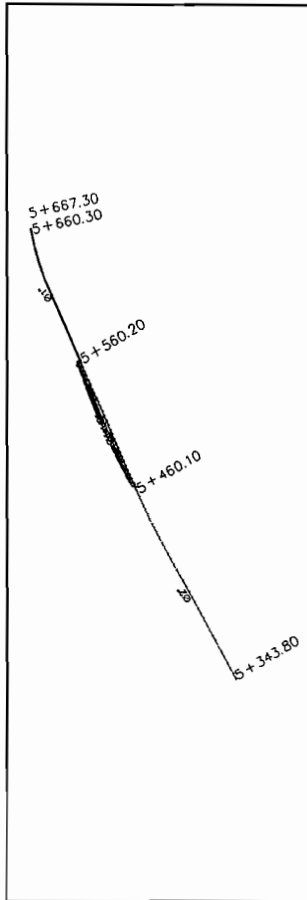
CLAVE: 1.09	OPERACIONES ARITMETICAS				VOLUMEN A PAGAR
CONCEPTO: SUMINISTRO E INSTALACION DE REDUCCION LISA DE 1 1/2 A 1/2 PULGADAS COMPUESTA.	2+152.15	2+271.70	15.00	15.00	191.00 piezas
	2+544.05	2+670.85	15.00	15.00	
	2+915.35	3+040.00	6.00	6.00	
	3+415.85	3+534.30	15.00	15.00	
	3+809.85	3+880.10	11.00	11.00	
	4+113.65	4+231.20	15.00	15.00	
	4+474.85	4+581.00	15.00	15.00	
	4+945.85	4+994.95	12.00	12.00	
	5+155.05	5+220.00	12.00	12.00	
	5+460.10	5+560.20	15.00	15.00	
	5+775.00	5+888.70	15.00	15.00	
	6+199.50	6+311.05	15.00	15.00	
	6+568.00	6+689.15	15.00	15.00	
	6+987.25	7+107.20	15.00	15.00	
TOTAL			191.00		

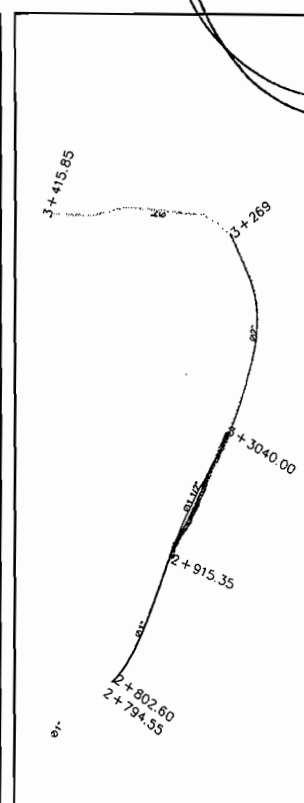
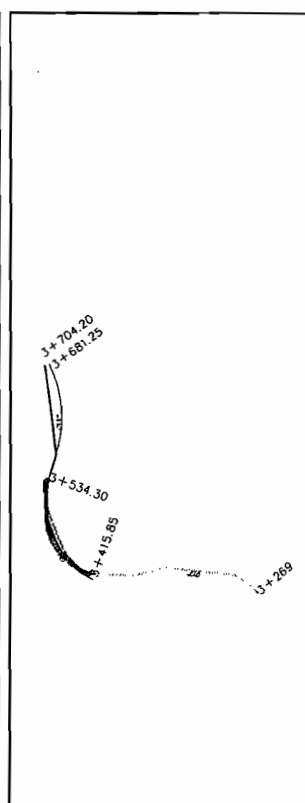
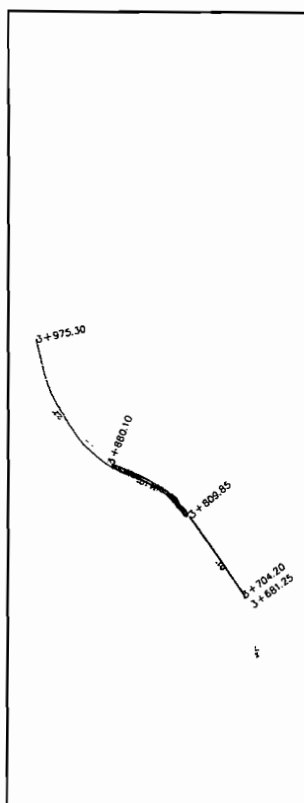
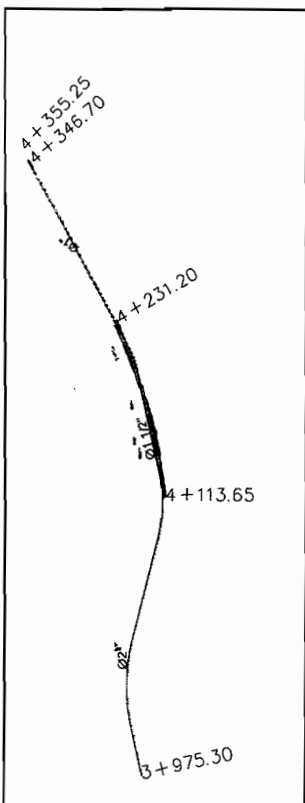
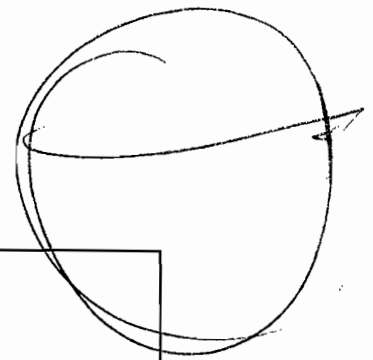
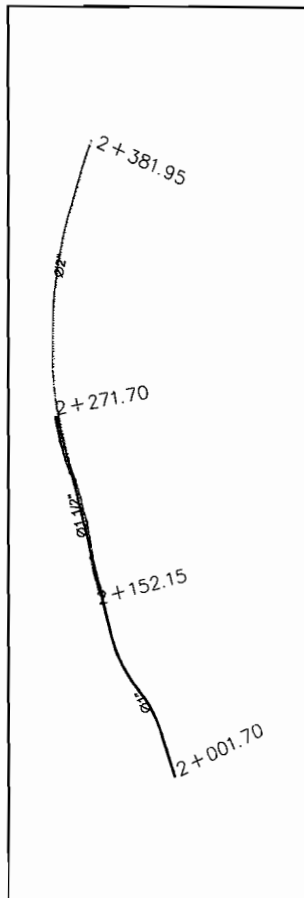
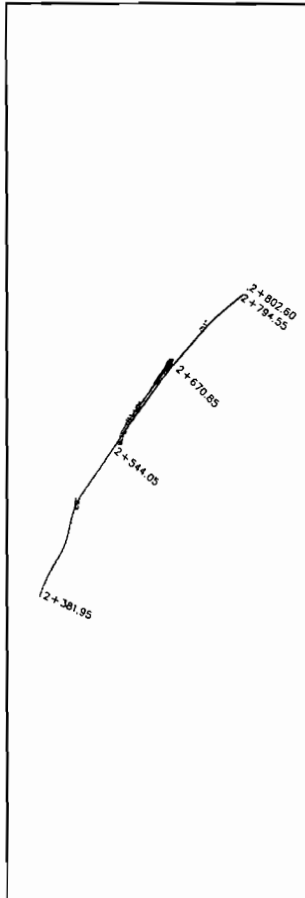
Estas reducciones son para realizar la conexión del ramal secundario de 1 1/2" al conector espiga de 1/2" que le corresponde al riego del arbol




 ING. JORGE JAIME RODRIGUEZ HERNANDEZ
 RESIDENTE

ARQ. GABRIELA FLORES HURTADO
 SUPERVISOR



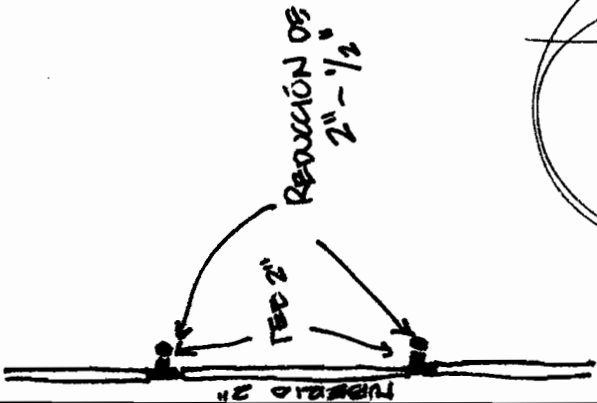


GENERADOR DE ESTIMACION

HOJA: 10 / 20

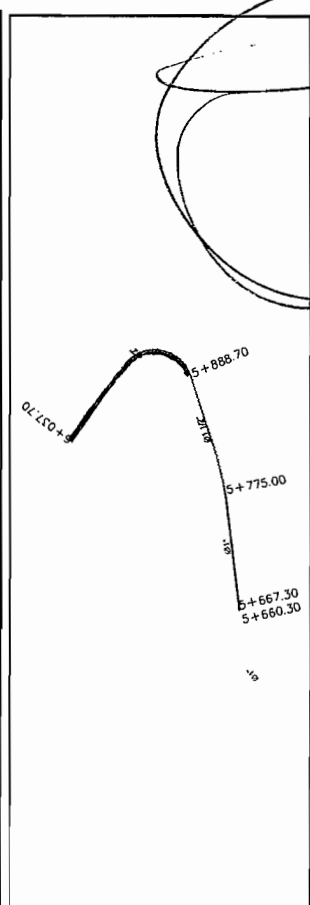
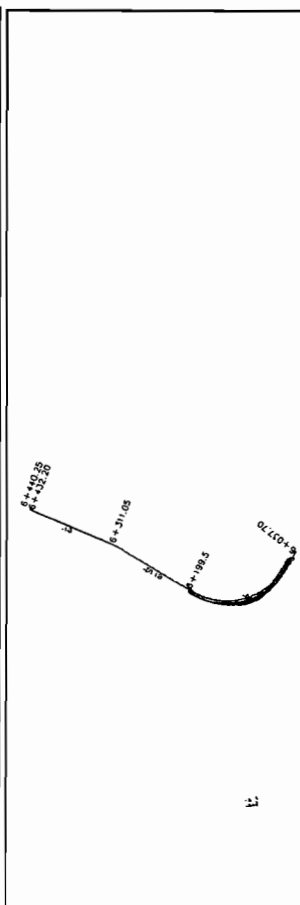
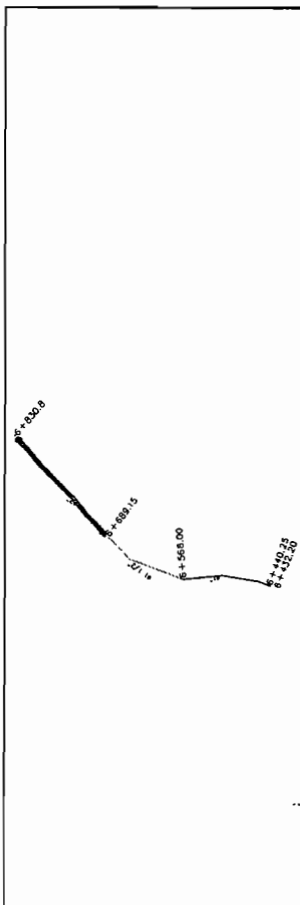
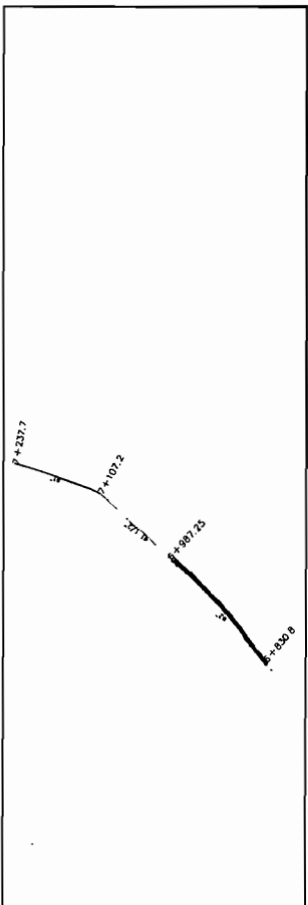
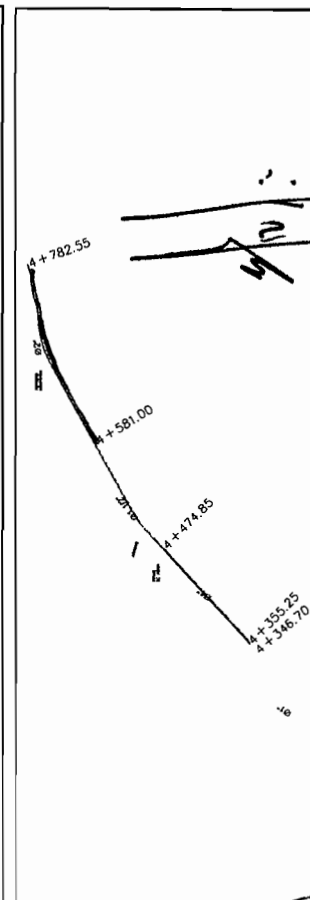
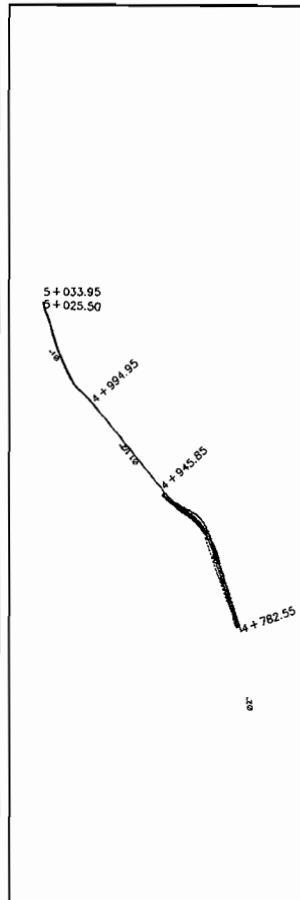
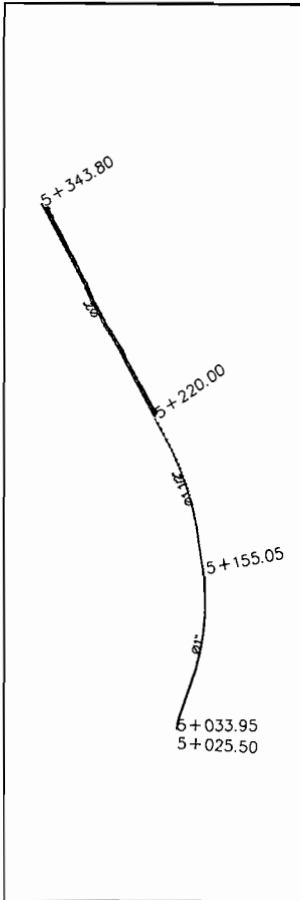
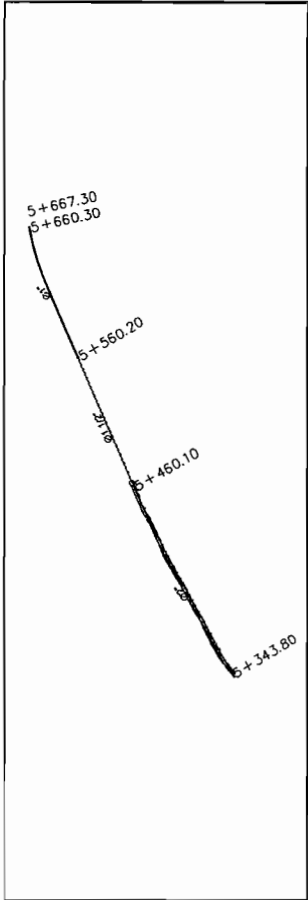
CONTRATO : 018/2016		TRAMO:
OBRA : RAMAL SECUNDARIO DE RIEGO PARA SENDA DE		CONTRATISTA: GIL GUADALUPE OCHOA PACHECO
PARQUE TRES PRESAS		

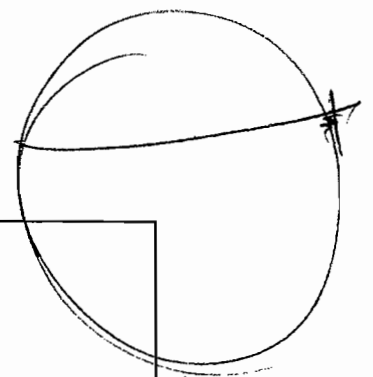
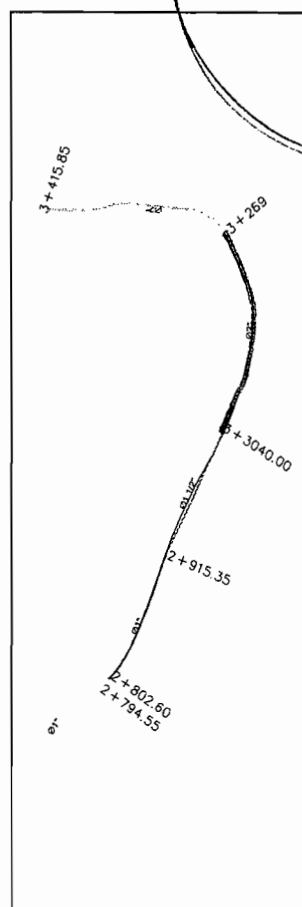
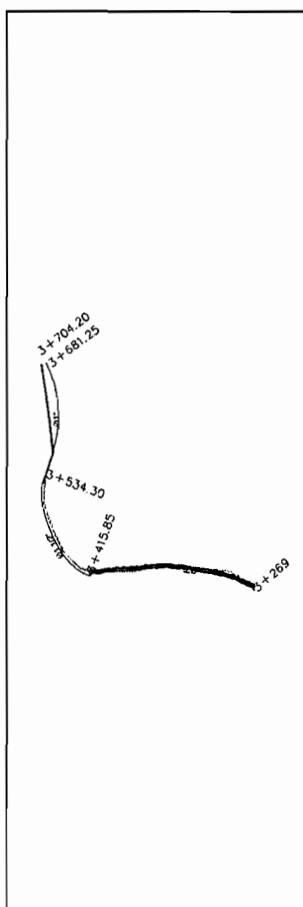
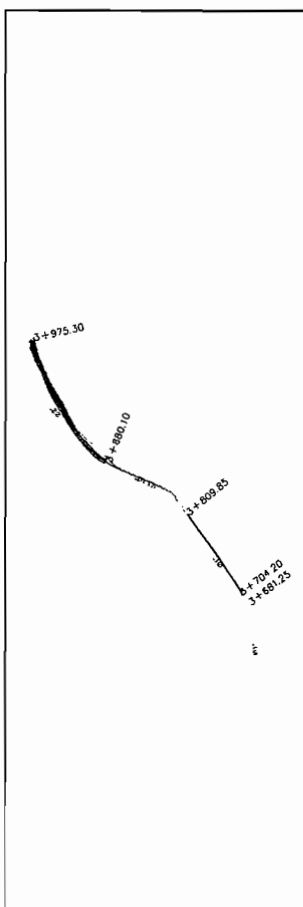
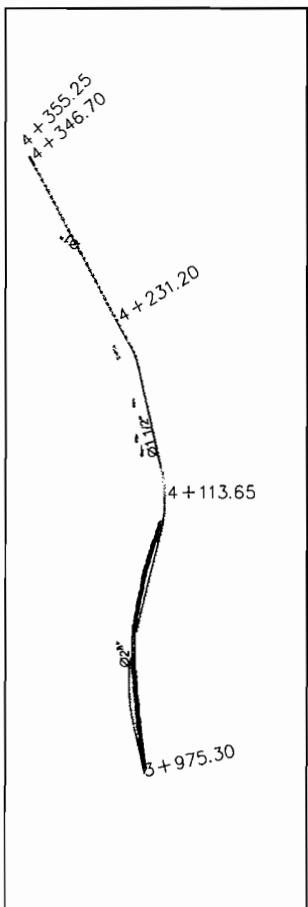
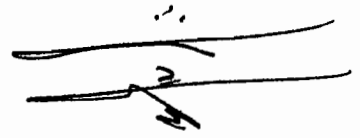
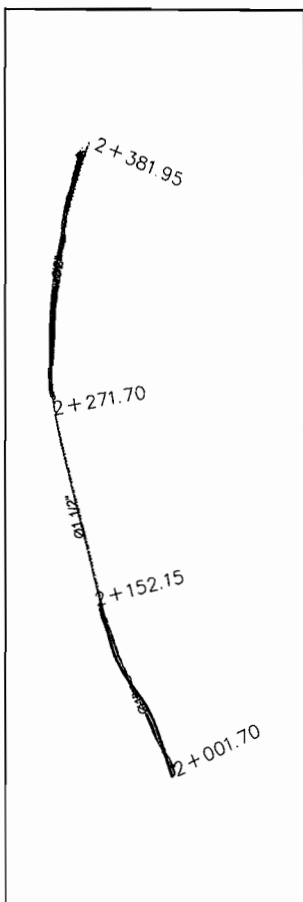
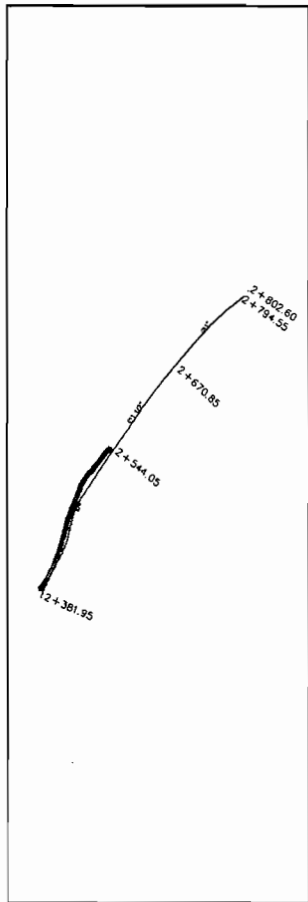
ESTIMACION No. 2 (DOS)	PERIODO : DEL 16 AL 31 DE MARZO DE 2016
------------------------	---

CLAVE: 1.10					OPERACIONES ARITMETICAS					
CONCEPTO:										
SUMINISTRO E INSTALACION DE										
REDUCCION LISA DE 2 A 1/2										
PULGADAS COMPUESTA.										
										
					2+271.70	2+381.95	20.00	20.00		
					2+381.95	2+544.05	20.00	20.00		
					3+040.00	3+269.00	24.00	24.00		
					3+269.00	3+415.85	20.00	20.00		
					3+880.10	3+975.30	16.00	16.00		
					3+975.30	4+113.65	20.00	20.00		
					4+581.00	4+782.55	24.00	24.00		
					4+782.55	4+945.85	20.00	20.00		
					5+220.00	5+343.80	18.00	18.00		
					5+343.80	5+460.10	20.00	20.00		
					5+888.70	6+037.70	20.00	20.00		
					6+037.70	6+199.50	24.00	24.00		
					6+689.15	6+830.80	20.00	20.00		
6+830.80	6+987.25	21.00	21.00							
				TOTAL		287.00				
Estas reducciones son para realizar la conexión del ramal secundario de 2" al conector espiga de 1/2" que le corresponde al riego del arbol										

ING. JORGE JAIME RODRIGUEZ HERNANDEZ
RESIDENTE

ARQ. GABRIELA FLOREZ HURTADO
SUPERVISOR

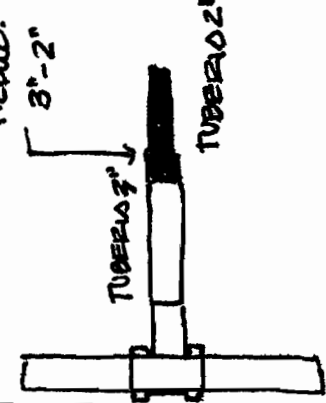




GENERADOR DE ESTIMACION

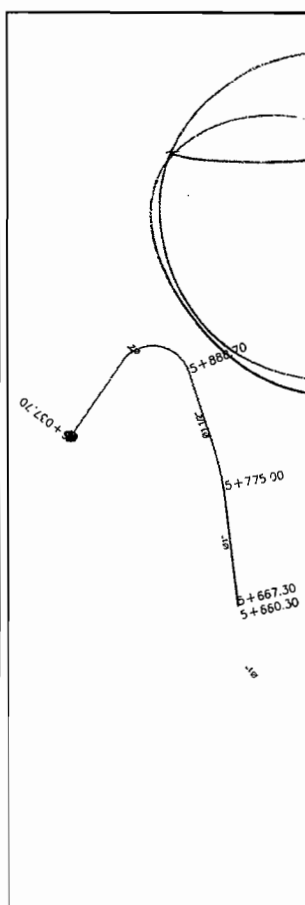
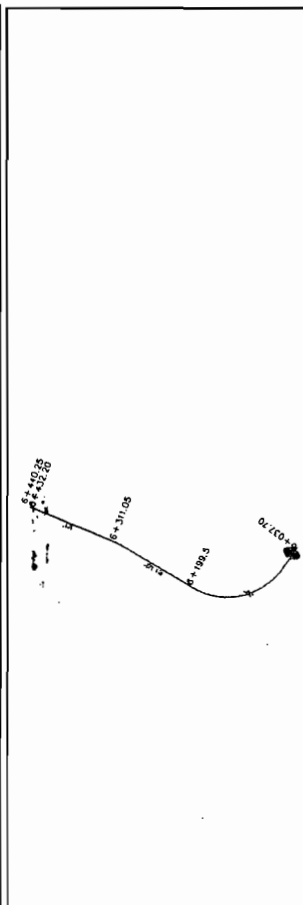
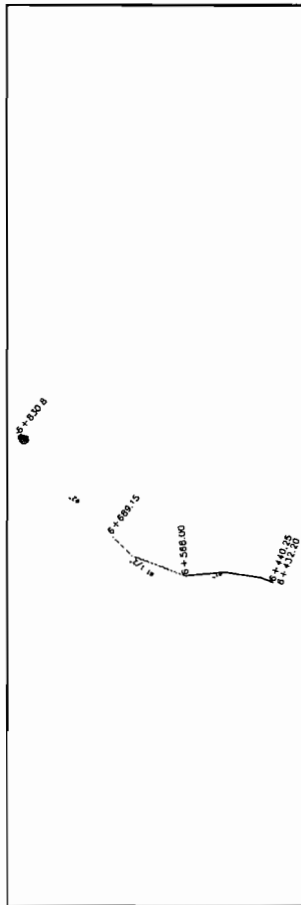
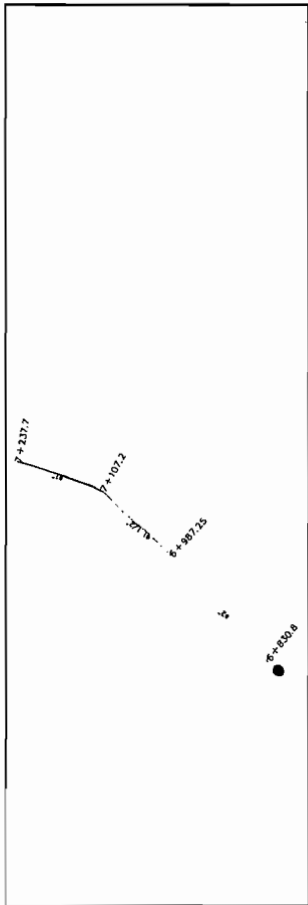
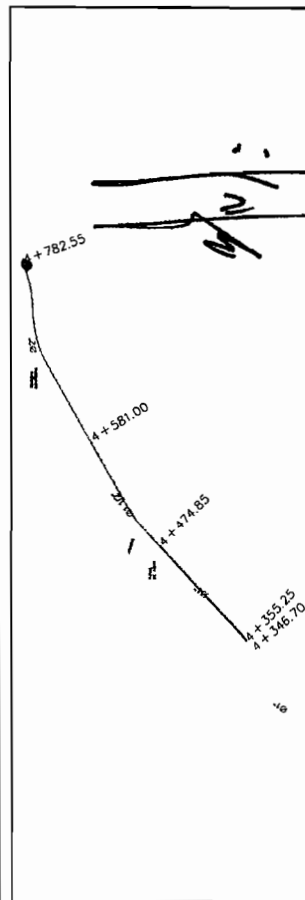
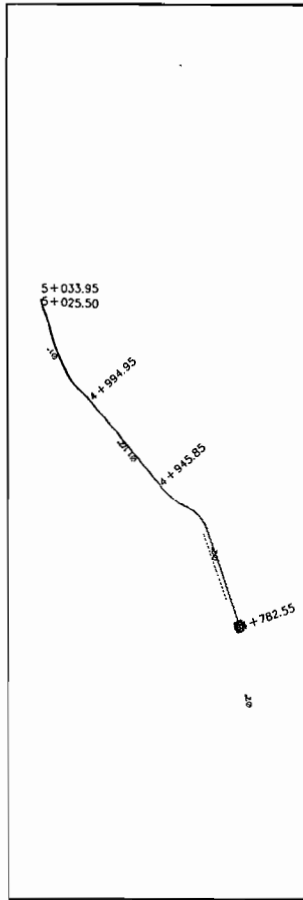
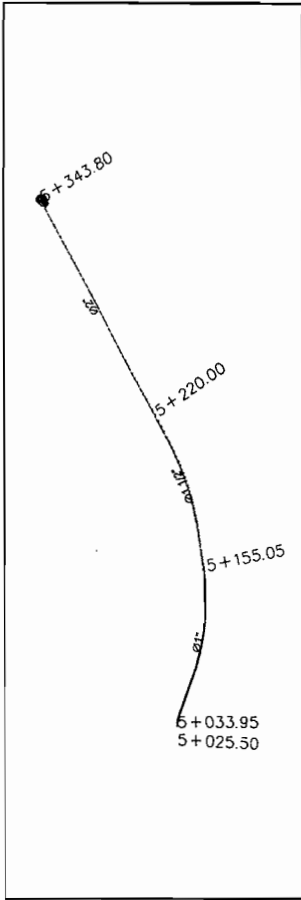
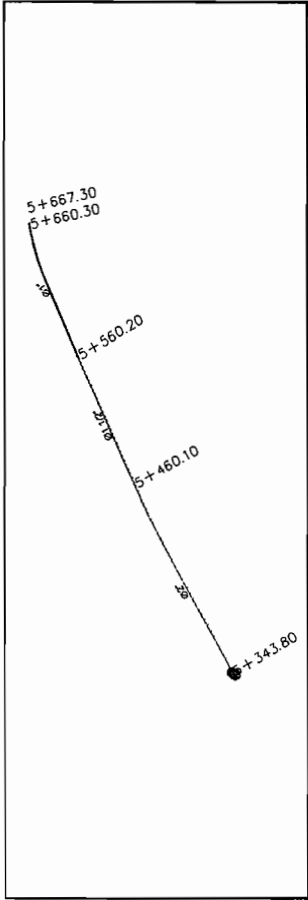
HOJA: 11 / 20

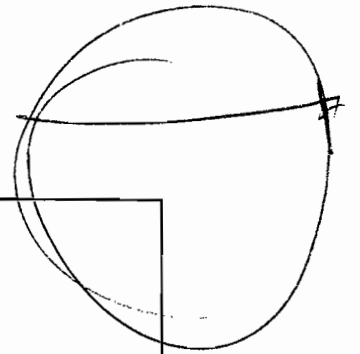
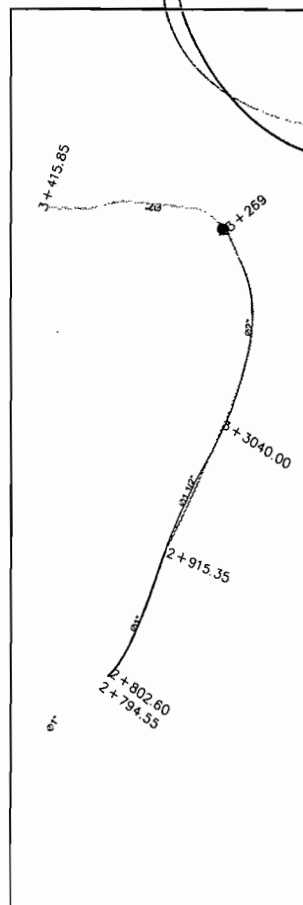
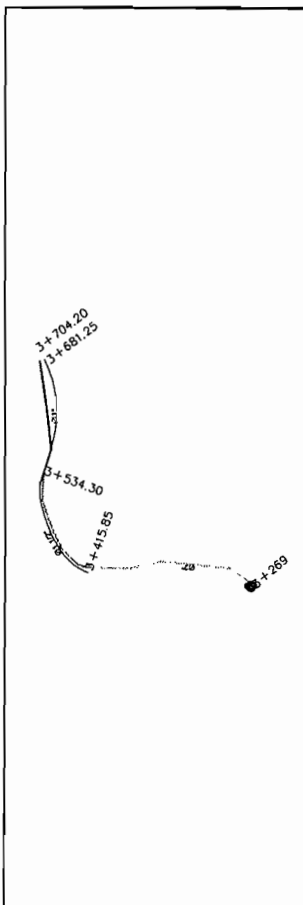
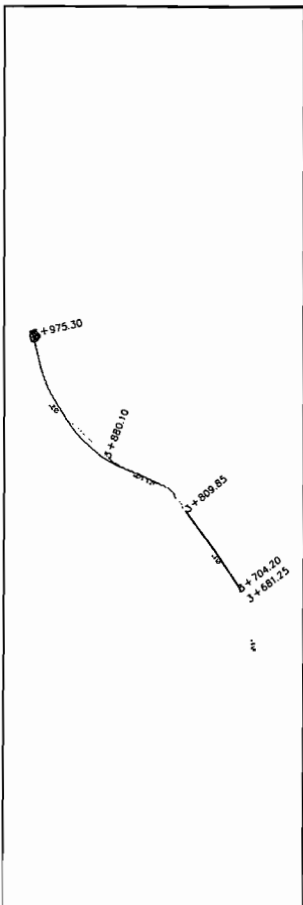
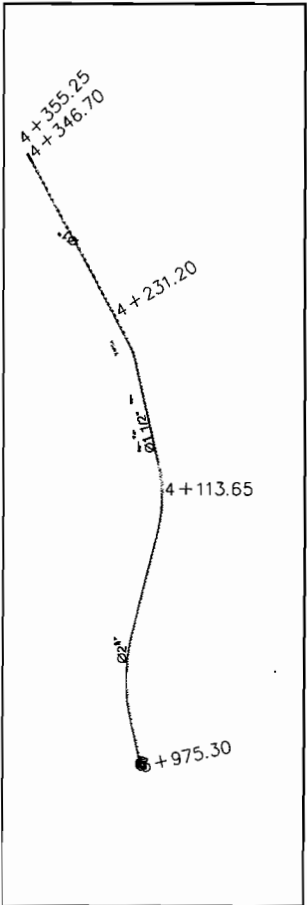
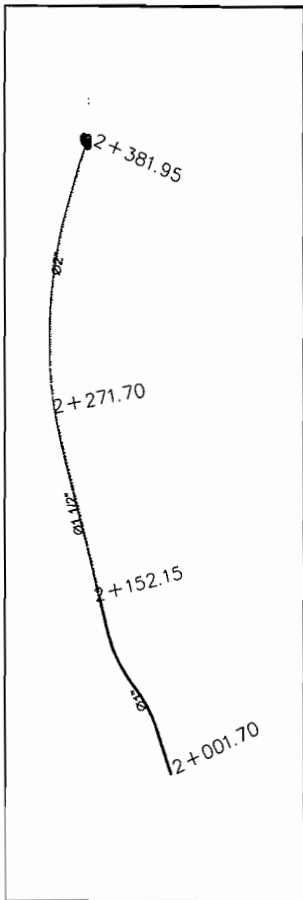
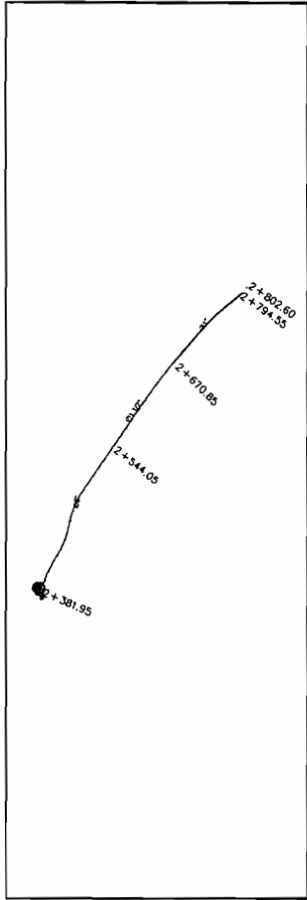
CONTRATO : 018/2016		TRAMO:
OBRA : RAMAL SECUNDARIO DE RIEGO PARA SENDA DE PARQUE TRES PRESAS		CONTRATISTA: GIL GUADALUPE OCHOA PACHECO

ESTIMACION No. 2 (DOS)		PERIODO : DEL 16 AL 31 DE MARZO DE 2016																								
CLAVE: 1.11 CONCEPTO: SUMINISTRO E INSTALACION DE REDUCCION LISA DE 3 A 2 PULGADAS  Redu. 3"-2" TUBERIA 3" TUBERIA 2" OPERACIONES ARITMETICAS <table border="1"> <tr><td>2+271.70</td><td>2.00</td><td>2.00</td></tr> <tr><td>3+040.00</td><td>2.00</td><td>2.00</td></tr> <tr><td>3+880.10</td><td>2.00</td><td>2.00</td></tr> <tr><td>4+581.00</td><td>2.00</td><td>2.00</td></tr> <tr><td>5+220.00</td><td>2.00</td><td>2.00</td></tr> <tr><td>5+888.70</td><td>2.00</td><td>2.00</td></tr> <tr><td>6+689.15</td><td>2.00</td><td>2.00</td></tr> <tr><td colspan="2">TOTAL</td><td>14.00</td></tr> </table> Esta reduccion es para realizar la conexión de la linea secundaria de 2 con la red de 3". Hay dos valvulas que dividen el riego en dos direcciones, razon por la cual se estan considerando 2 reducciones			2+271.70	2.00	2.00	3+040.00	2.00	2.00	3+880.10	2.00	2.00	4+581.00	2.00	2.00	5+220.00	2.00	2.00	5+888.70	2.00	2.00	6+689.15	2.00	2.00	TOTAL		14.00
2+271.70	2.00	2.00																								
3+040.00	2.00	2.00																								
3+880.10	2.00	2.00																								
4+581.00	2.00	2.00																								
5+220.00	2.00	2.00																								
5+888.70	2.00	2.00																								
6+689.15	2.00	2.00																								
TOTAL		14.00																								
CROQUIS	VOLUMEN A PAGAR	14.00 piezas																								

ARQ. GABRIELA FLOREZ HURTADO
SUPERVISOR

ING. JORGE JAIME RODRIGUEZ HERNANDEZ
RESIDENTE



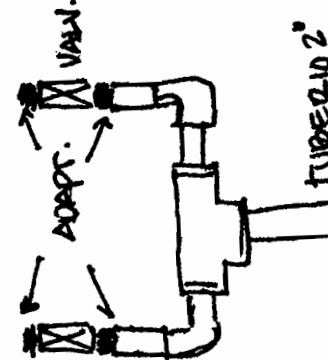


GENERADOR DE ESTIMACION

HOJA: 12 / 20

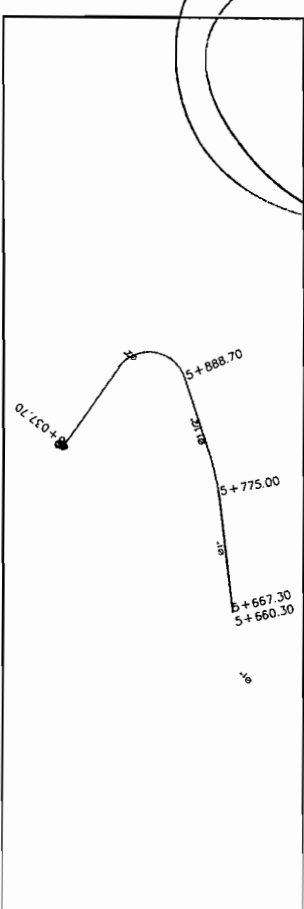
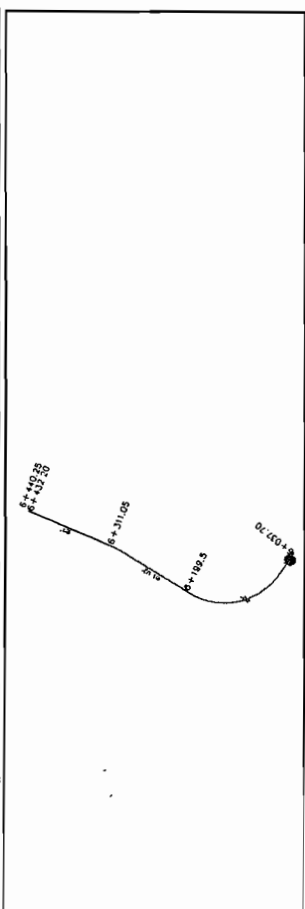
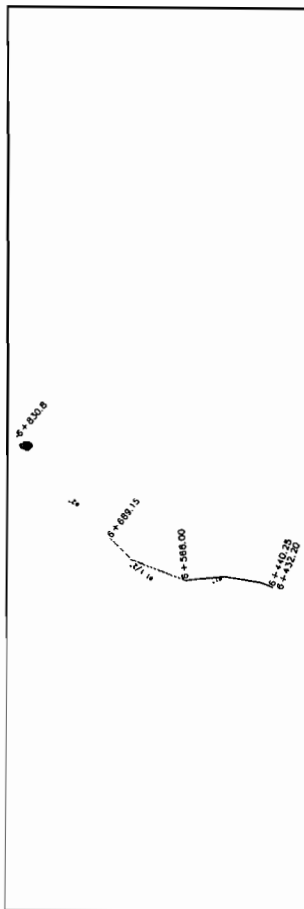
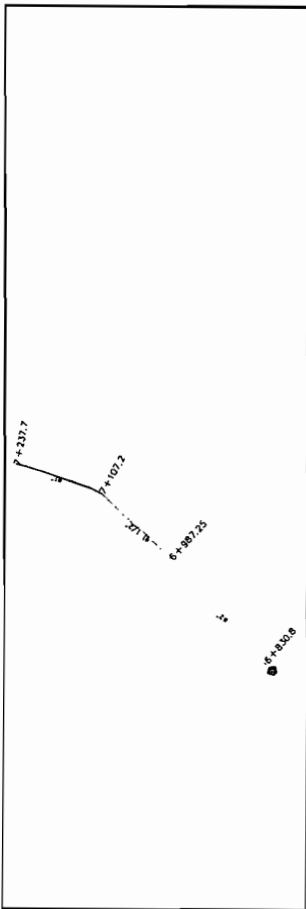
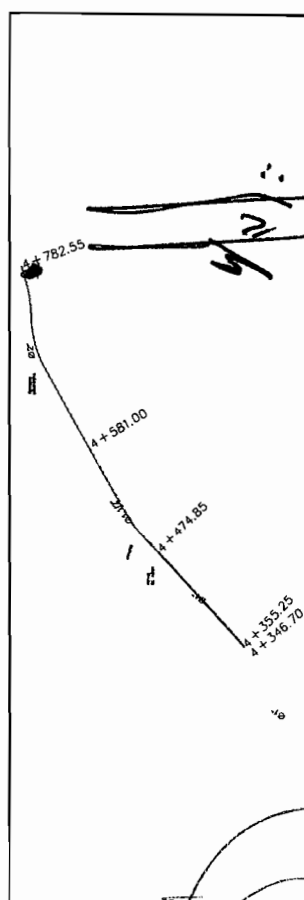
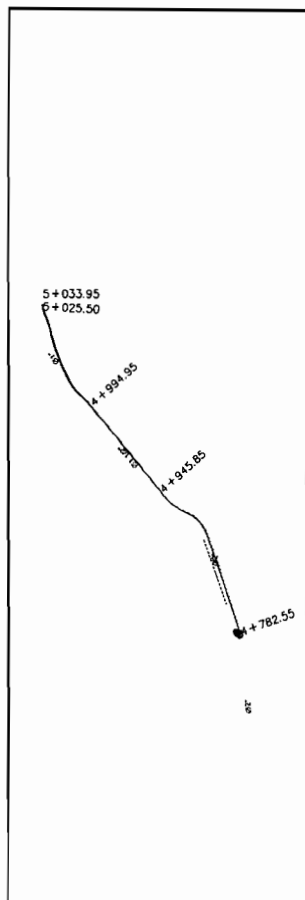
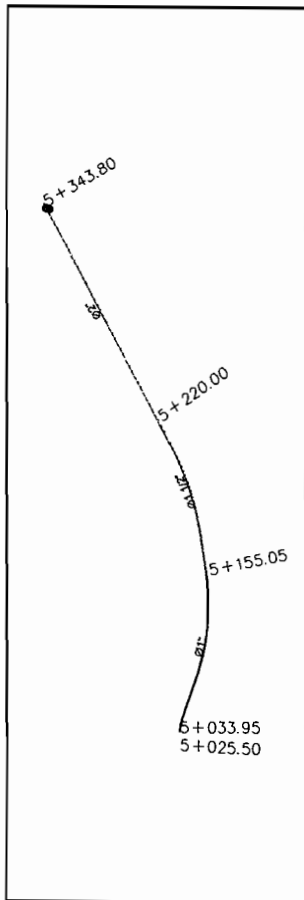
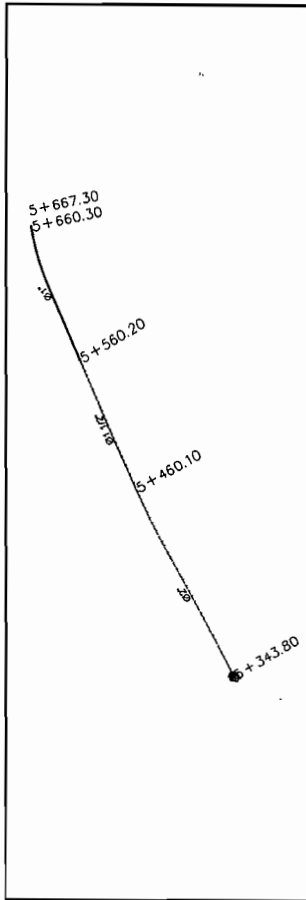
CONTRATO : 018/2016	TRAMO:	CONTRATISTA: GIL GUADALUPE OCHOA PACHECO
OBRA : RAMAL SECUNDARIO DE RIEGO PARA SENDA DE PARQUE TRES PRESAS		

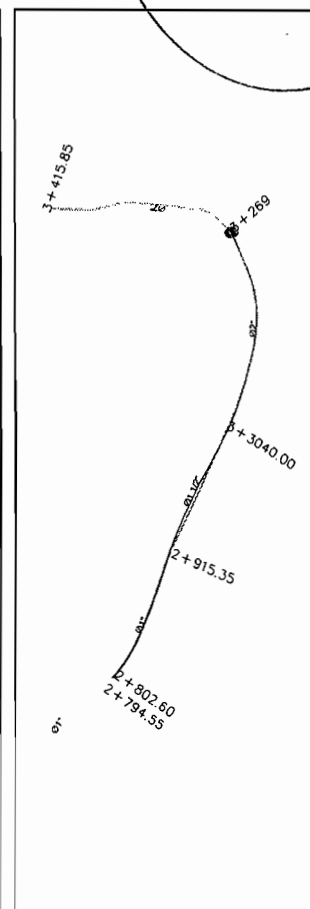
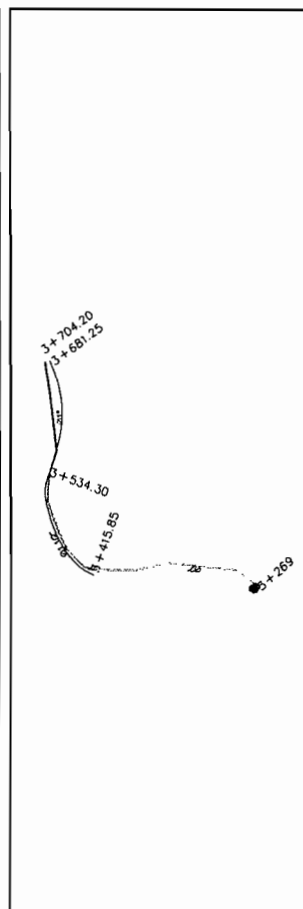
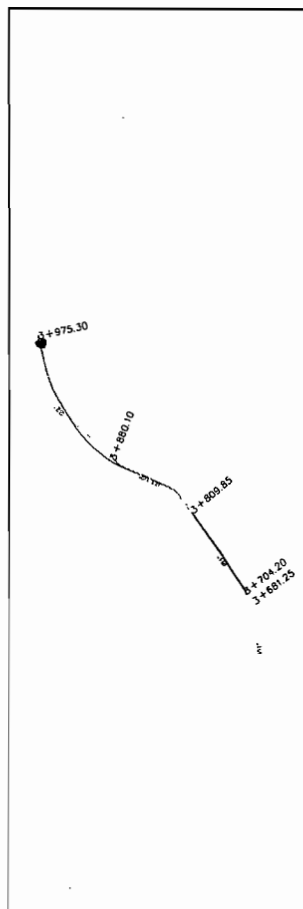
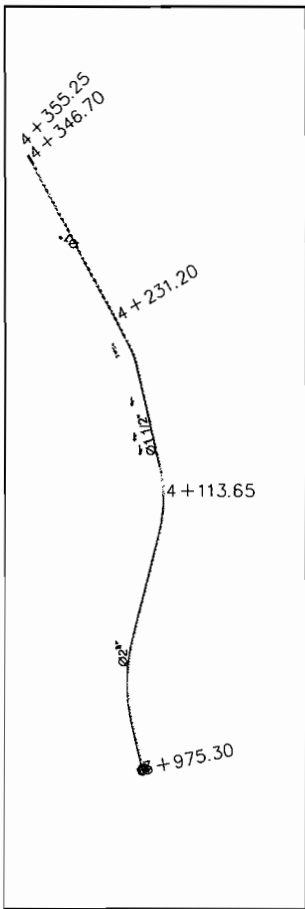
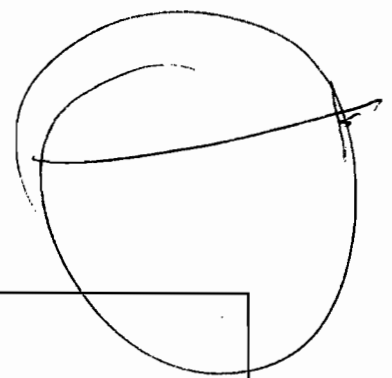
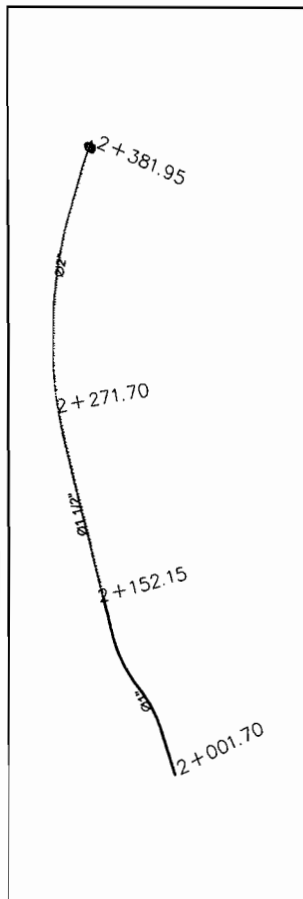
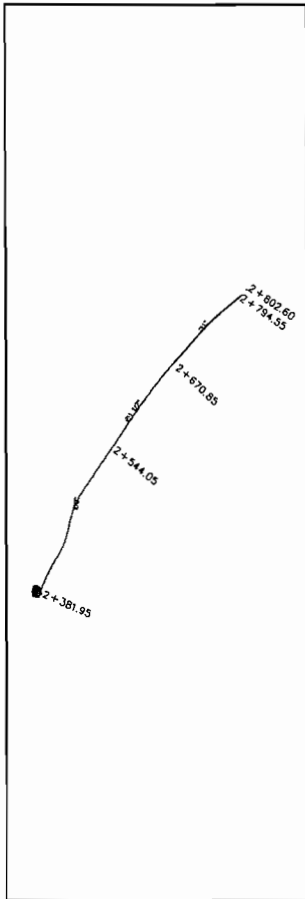
ESTIMACION No. 2 (DOS)	PERIODO : DEL 16 AL 31 DE MARZO DE 2016	
------------------------	---	--

CROQUIS	VOLUMEN A PAGAR
CLAVE: 1.12 CONCEPTO: SUMINISTRO E INSTALACION DE ADAPTADOR MACHO DE 2 PULGADAS E INSTALACION. 	28.00 piezas

ING. JORGE JAIME RODRIGUEZ HERNANDEZ
RESIDENTE

ARQ. GABRIELA FLORES HUERTADO
SUPERVISOR

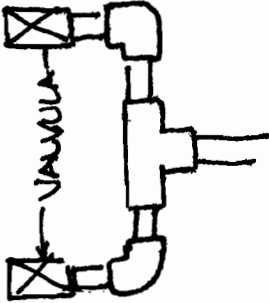


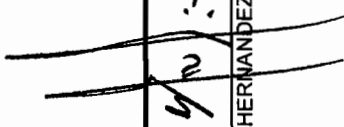


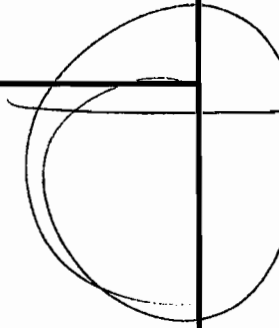
GENERADOR DE ESTIMACION

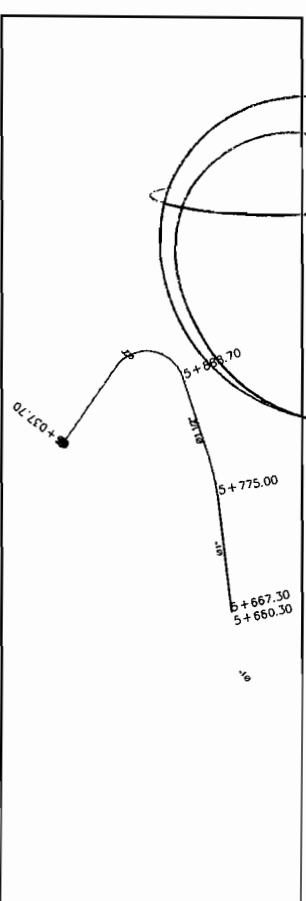
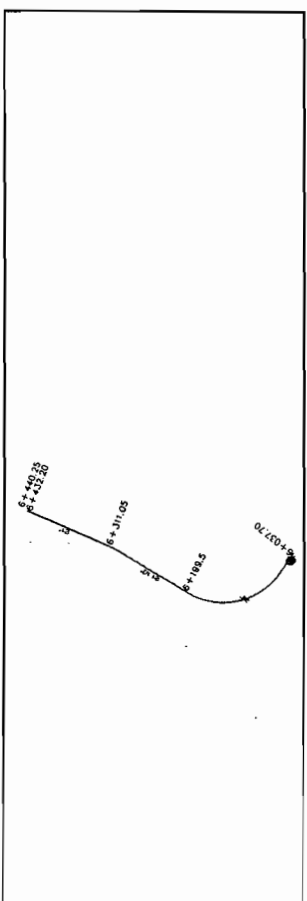
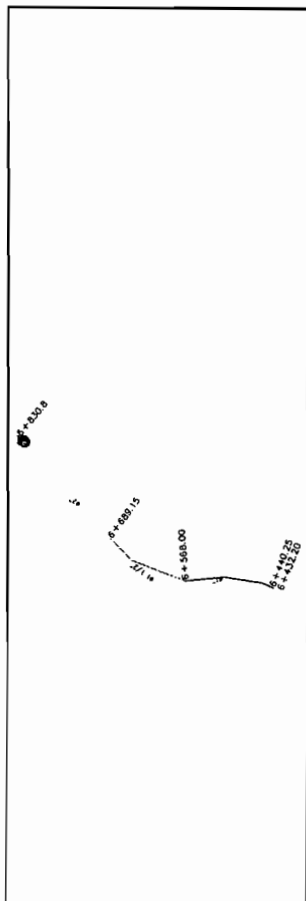
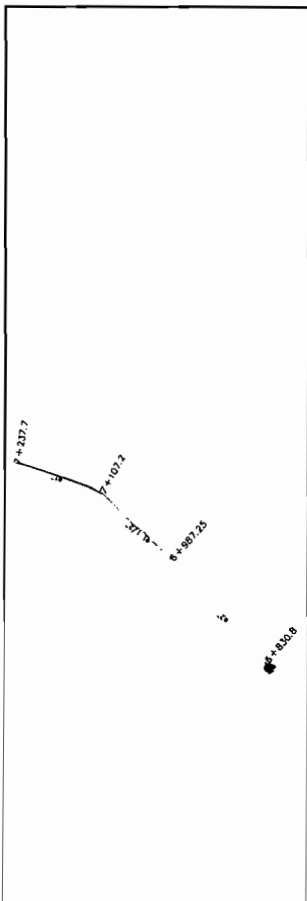
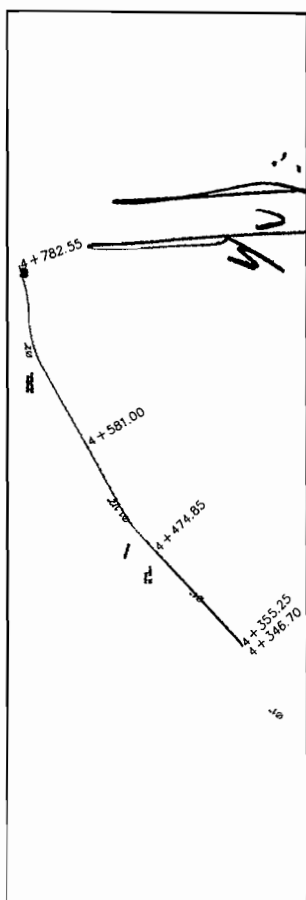
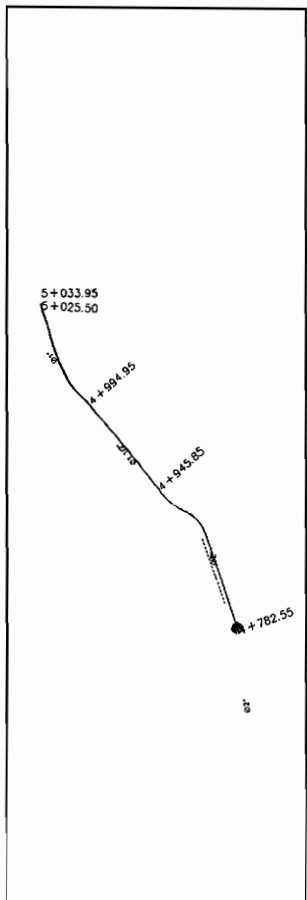
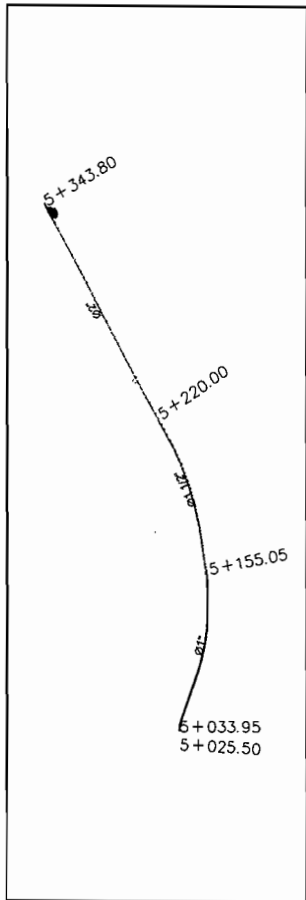
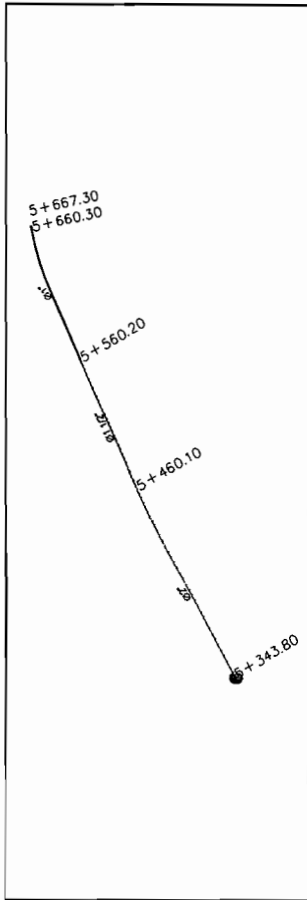
HOJA: 13 / 20

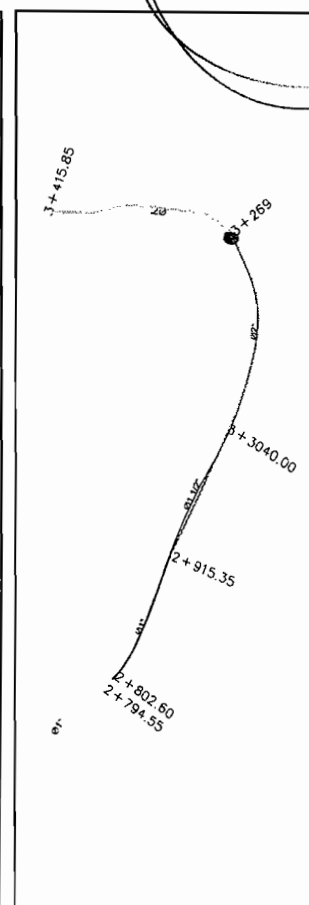
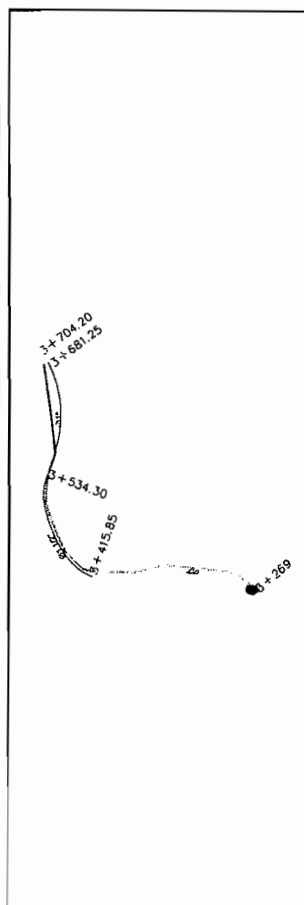
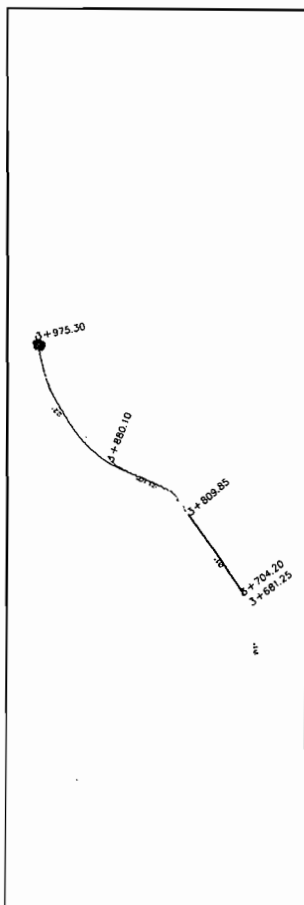
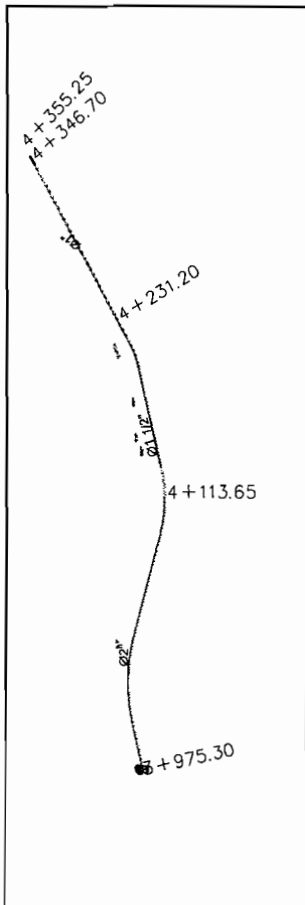
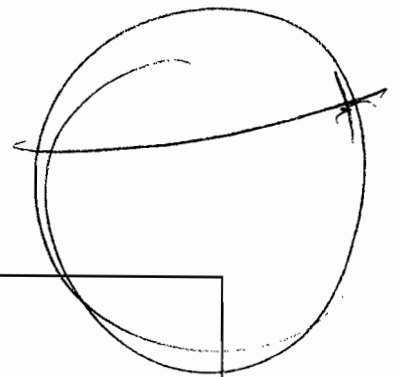
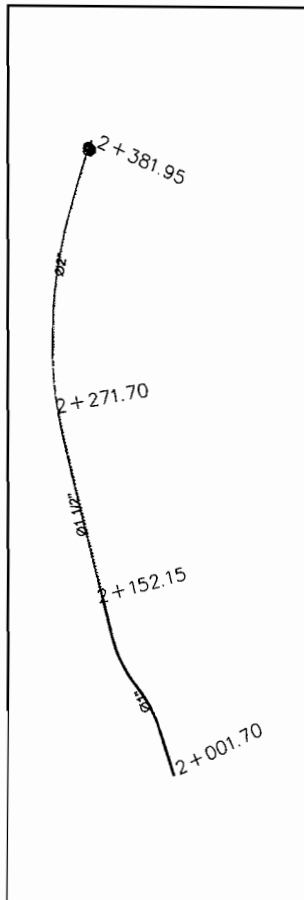
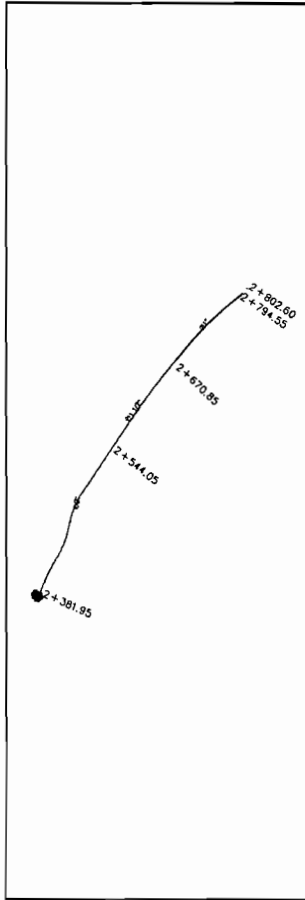
CONTRATO : 018/2016		TRAMO:	
OBRA : RAMAL SECUNDARIO DE RIEGO PARA SENDA DE PARQUE TRES PRESAS		CONTRATISTA: GIL GUADALUPE OCHOA PACHECO	

ESTIMACION No. 2 (DOS)		PERIODO : DEL 16 AL 31 DE MARZO DE 2016																	
CLAVE: 1.13 CONCEPTO: SUMINISTRO E INSTALACION DE VALVULA DE BRONCE DE 2 PULGADAS. 		OPERACIONES ARITMETICAS <table border="1"> <tr> <td>2+271.70</td> <td>2.00</td> </tr> <tr> <td>3+040.00</td> <td>2.00</td> </tr> <tr> <td>3+880.10</td> <td>2.00</td> </tr> <tr> <td>4+581.00</td> <td>2.00</td> </tr> <tr> <td>5+220.00</td> <td>2.00</td> </tr> <tr> <td>5+888.70</td> <td>2.00</td> </tr> <tr> <td>6+689.15</td> <td>2.00</td> </tr> <tr> <td>TOTAL</td> <td>14.00</td> </tr> </table> Esta valvula es para el control a la tuberia de 2 pulgadas.		2+271.70	2.00	3+040.00	2.00	3+880.10	2.00	4+581.00	2.00	5+220.00	2.00	5+888.70	2.00	6+689.15	2.00	TOTAL	14.00
2+271.70	2.00																		
3+040.00	2.00																		
3+880.10	2.00																		
4+581.00	2.00																		
5+220.00	2.00																		
5+888.70	2.00																		
6+689.15	2.00																		
TOTAL	14.00																		
CROQUIS		VOLUMEN A PAGAR 14.00 piezas																	


 ING. JORGE JAIME RODRIGUEZ HERNANDEZ
 RESIDENTE


 ARQ. GABRIELA FLORES HURTADO
 SUPERVISOR



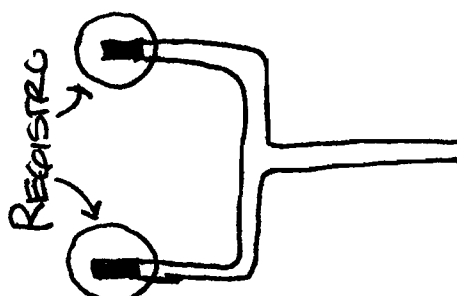


GENERADOR DE ESTIMACION

HOJA: 14 / 20

CONTRATO : 018/2016	TRAMO:
OBRA : RAMAL SECUNDARIO DE RIEGO PARA SENDA DE PARQUE TRES PRESAS	CONTRATISTA: GIL GUADALUPE OCHOA PACHECO

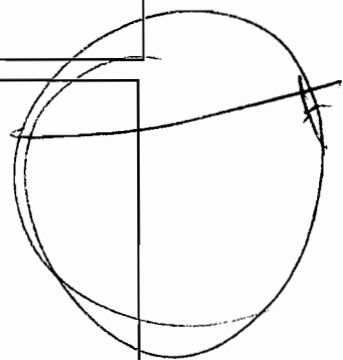
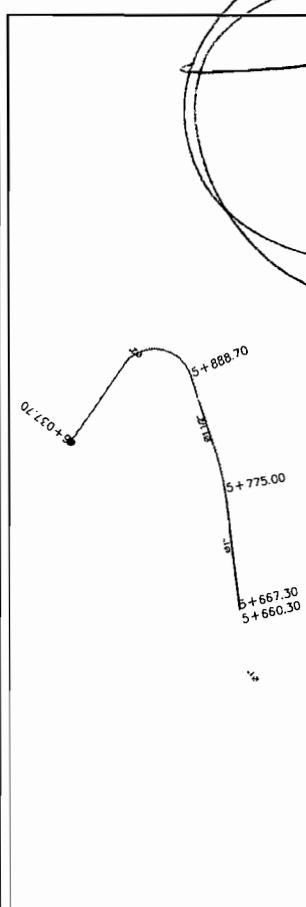
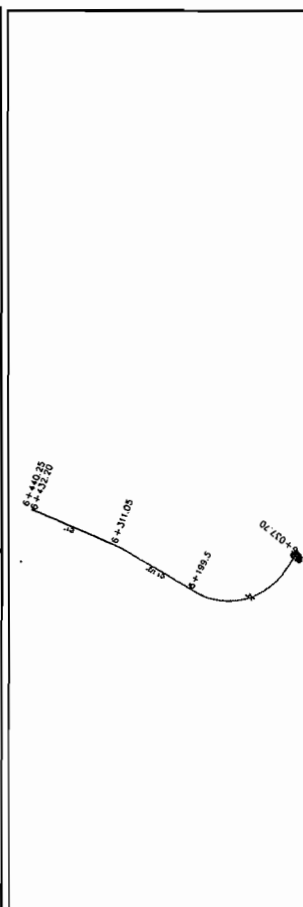
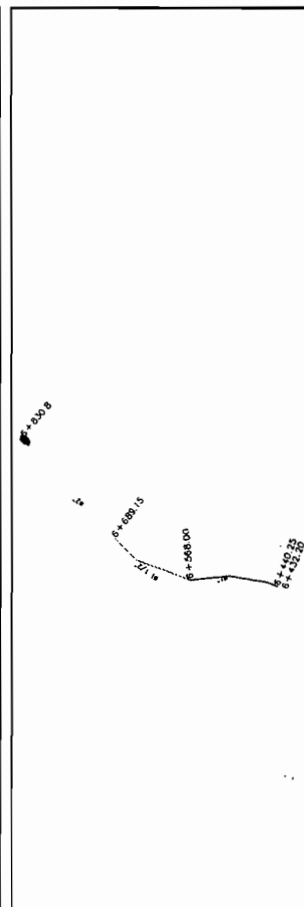
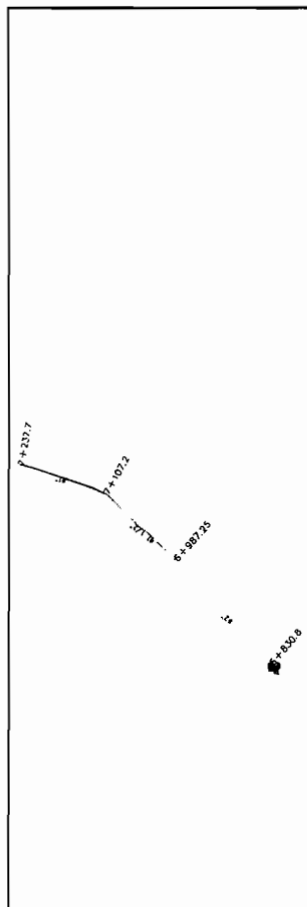
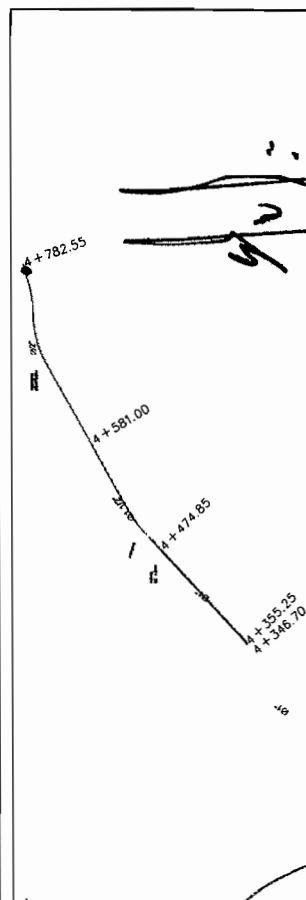
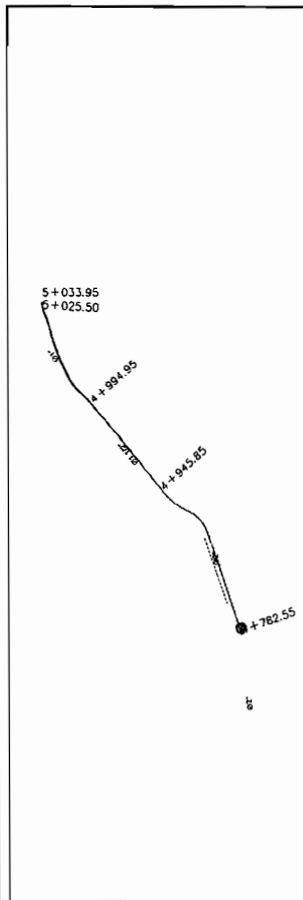
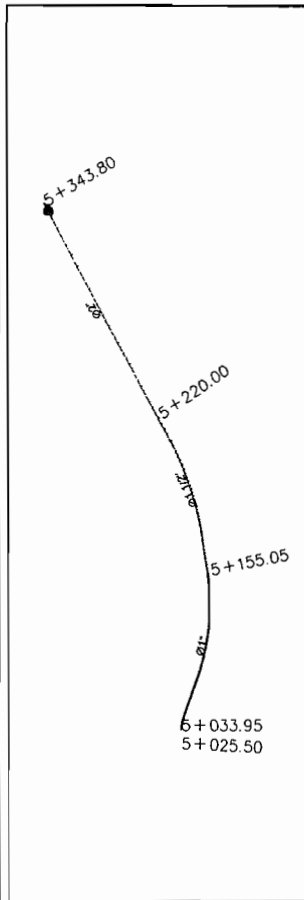
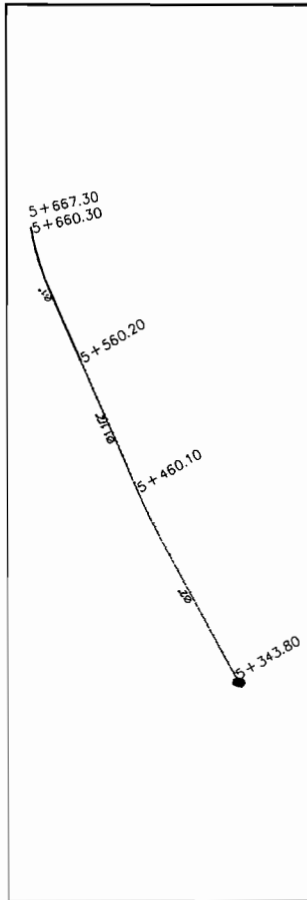
ESTIMACION No. 2 (DOS)	PERIODO : DEL 16 AL 31 DE MARZO DE 2016
------------------------	---

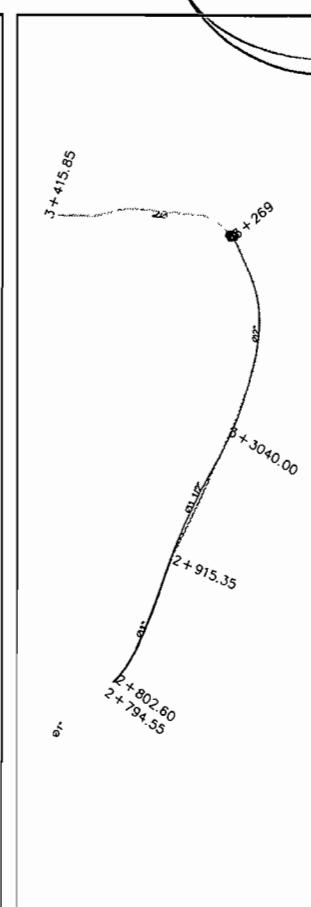
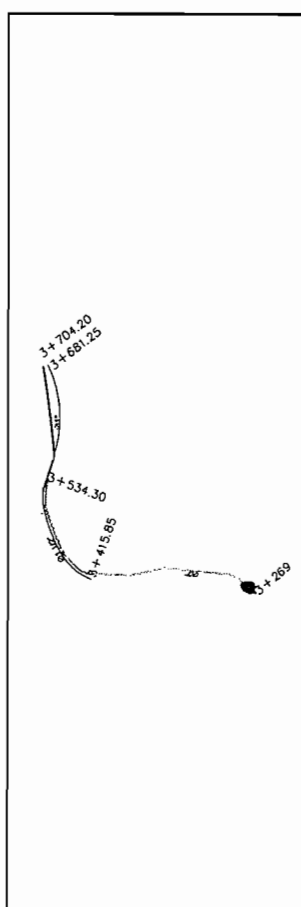
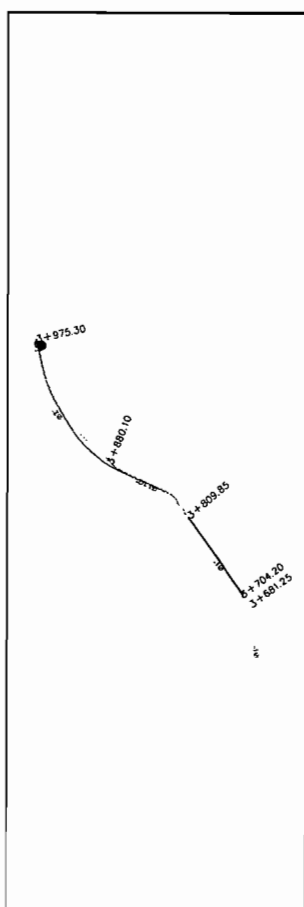
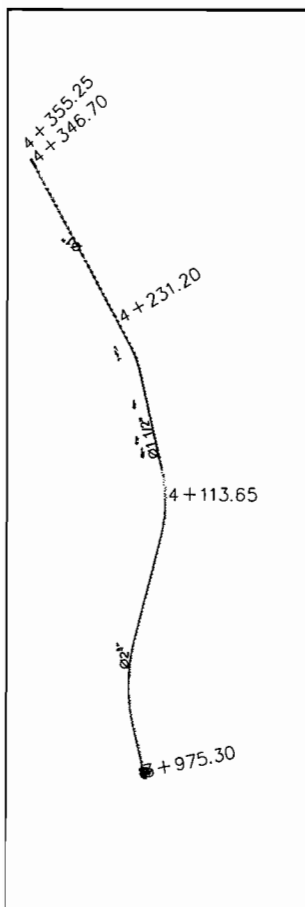
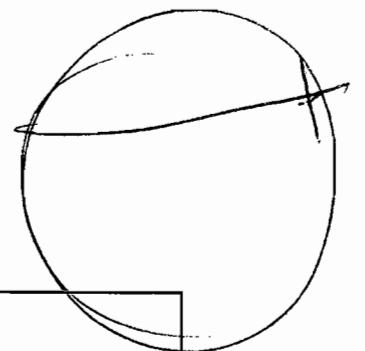
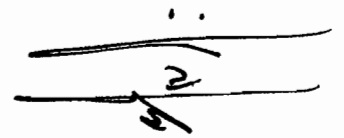
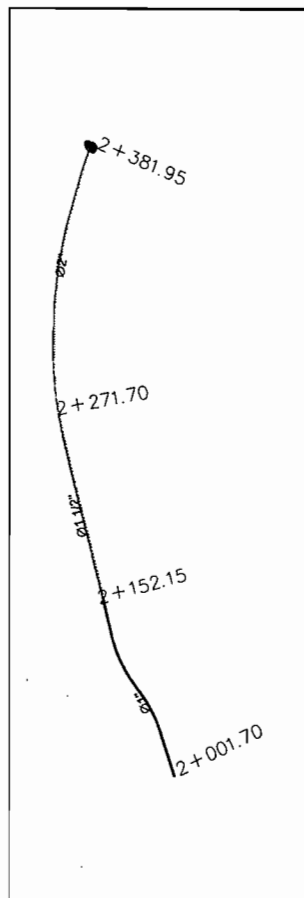
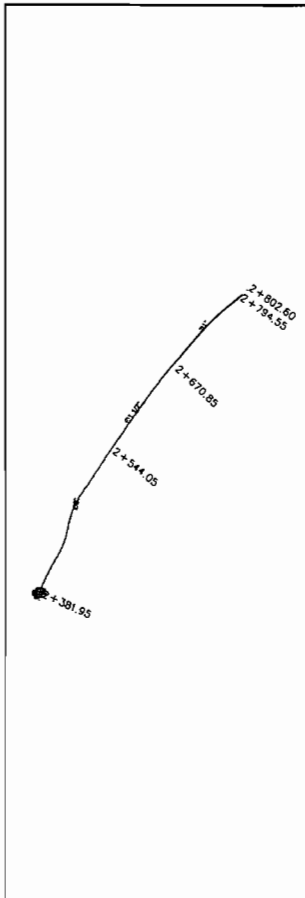
CLAVE: 1.14 CONCEPTO: SUMINISTRO E INSTALACION DE REGISTRO DE 10 PLG DE RIEGO. 	OPERACIONES ARITMETICAS			
	2+271.70	2.00	1.00	2.00
	3+040.00	2.00	1.00	2.00
	3+880.10	2.00	1.00	2.00
	4+581.00	2.00	1.00	2.00
	5+220.00	2.00	1.00	2.00
	5+888.70	2.00	1.00	2.00
	6+689.15	2.00	1.00	2.00
	TOTAL			14.00
	Este registro es para la ubicación de la valvula, proteccion y para protegeria de que se vaya a enterrar con la tierra del arbol.			

CROQUIS	VOLUMEN A PAGAR
	14.00 piezas

ARO. GABRIELA FLOREZ HURTADO
SUPERVISOR

ING. JORGE JAIME RODRIGUEZ HERNANDEZ
RESIDENTE





GENERADOR DE ESTIMACION

HOJA: 15 / 20

CONTRATO : 018/2016	TRAMO:
OBRA : RAMAL SECUNDARIO DE RIEGO PARA SENDA DE PARQUE TRES PRESAS	CONTRATISTA: GIL GUADALUPE OCHOA PACHECO

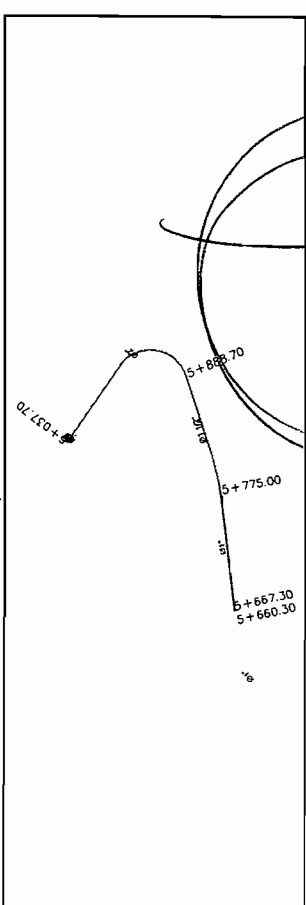
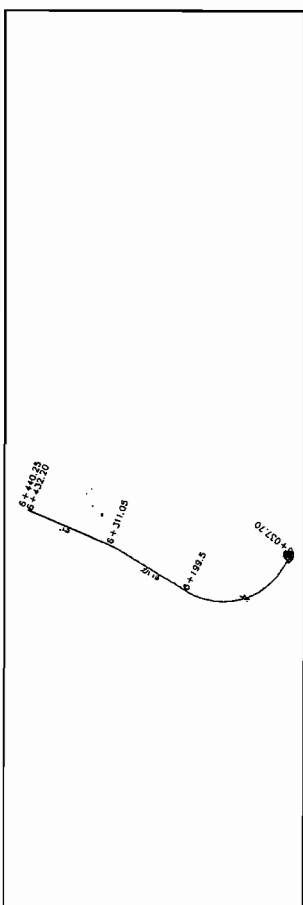
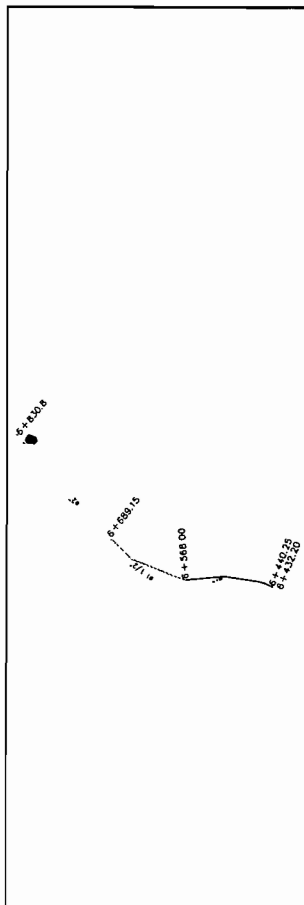
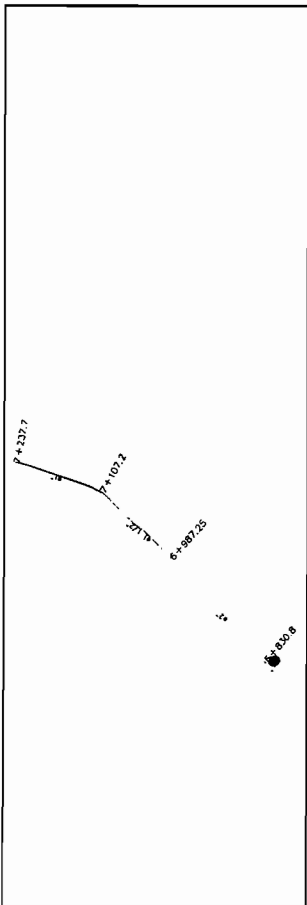
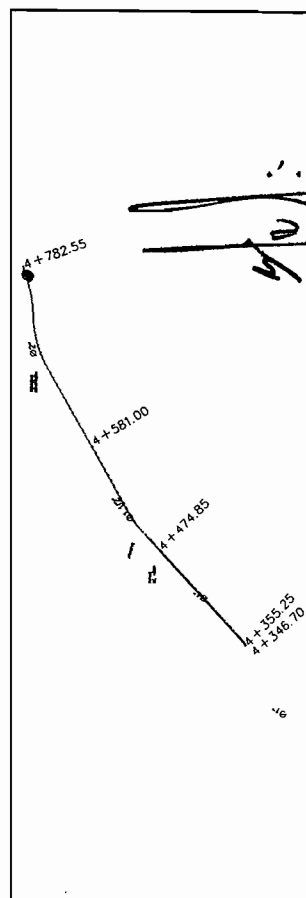
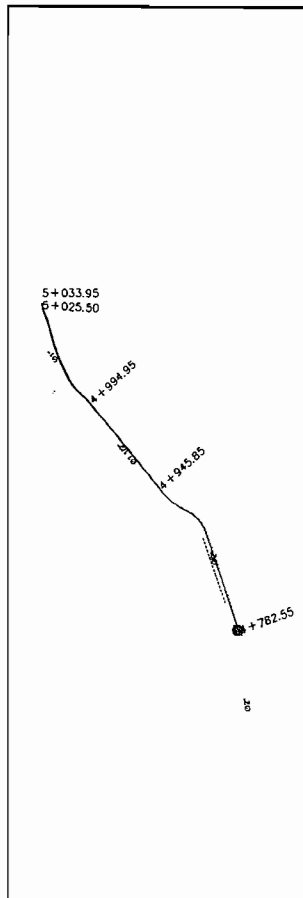
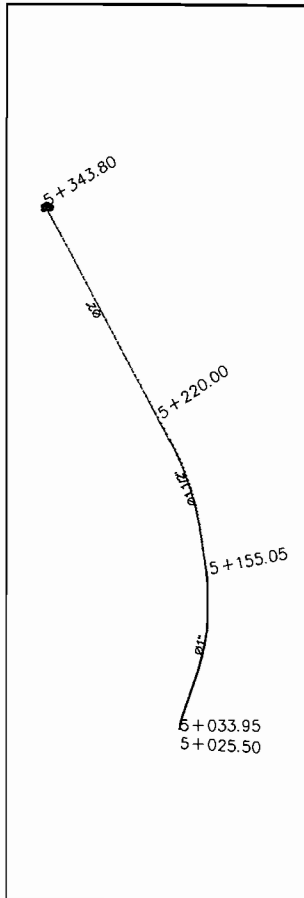
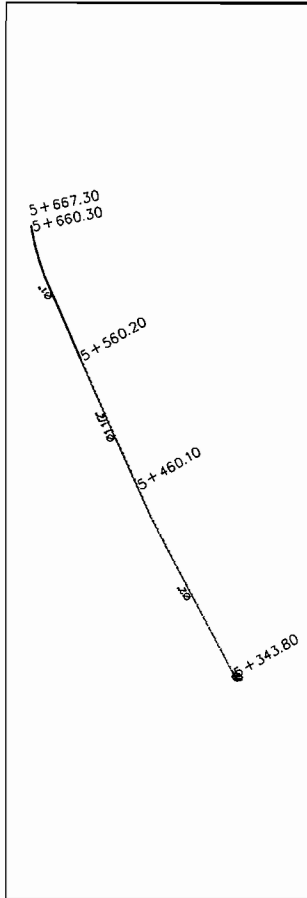
ESTIMACION No. 2 (DOS)	PERIODO : DEL 16 AL 31 DE MARZO DE 2016
------------------------	---

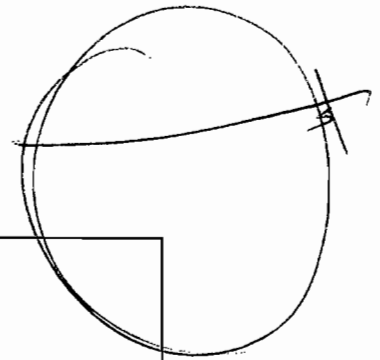
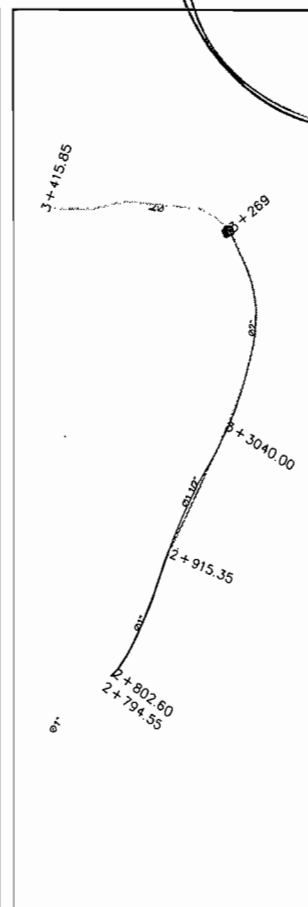
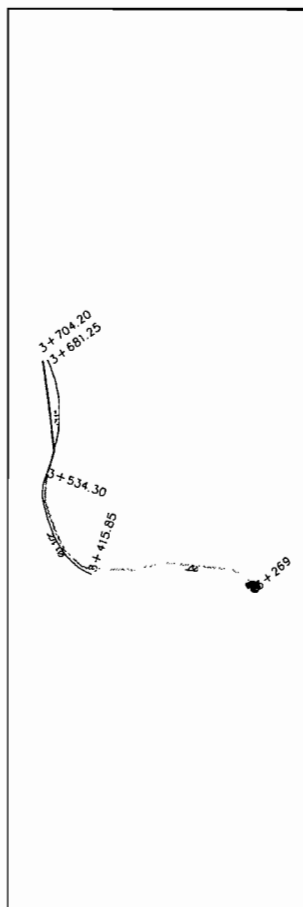
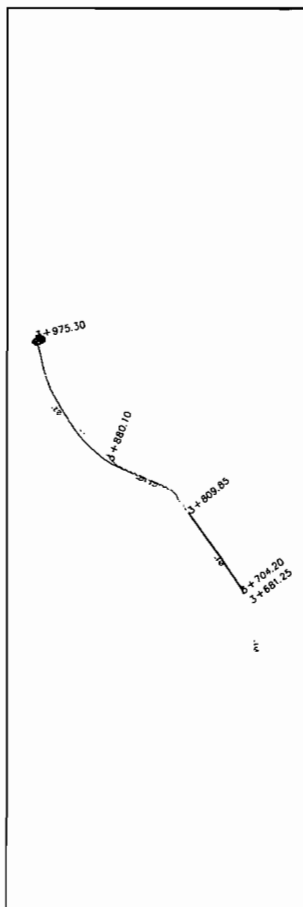
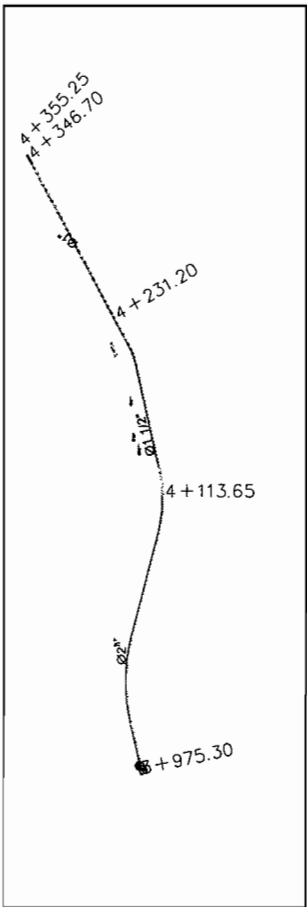
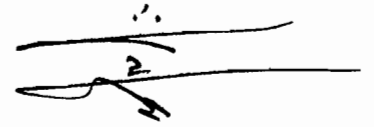
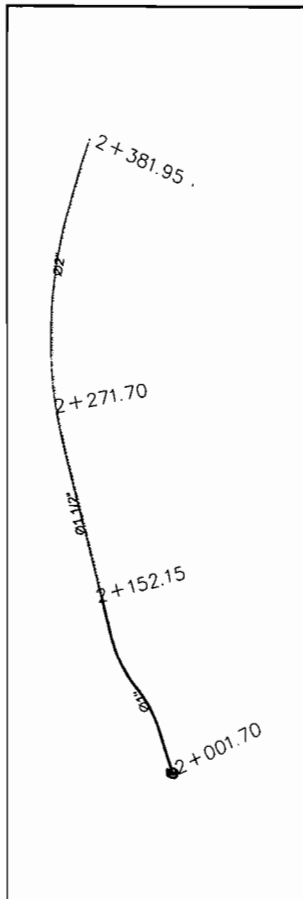
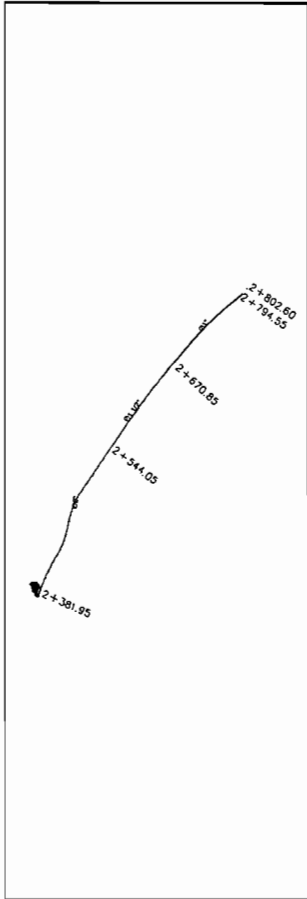
CLAVE: 1.26	OPERACIONES ARITMETICAS	VOLUMEN A PAGAR
CONCEPTO: SUMINISTRO E INSTALACION DE VALVULA EXPULSORA DE AIRE DE 1", INCLUYE TODO LO NECESARIO PARA SU CORRECTA COLOCACION	0+212.45	1.00
	0+615.80	1.00
	1+439.05	1.00
	2+271.70	1.00
	3+040.00	1.00
	3+880.10	1.00
	4+581.00	1.00
	5+220.00	1.00
	5+888.70	1.00
	6+689.15	1.00
TOTAL	10.00	

Va una valvula expulsora al entrar la tuberia de 3" y antes de dividirse en 2 valvulas

ARQ. GABRIELA FLOREZ HURTADO
SUPERVISOR

ING. JORGE JAIME RODRIGUEZ HERNANDEZ
RESIDENTE



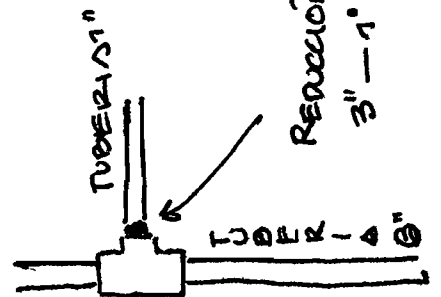


GENERADOR DE ESTIMACION

HOJA: 16 / 20

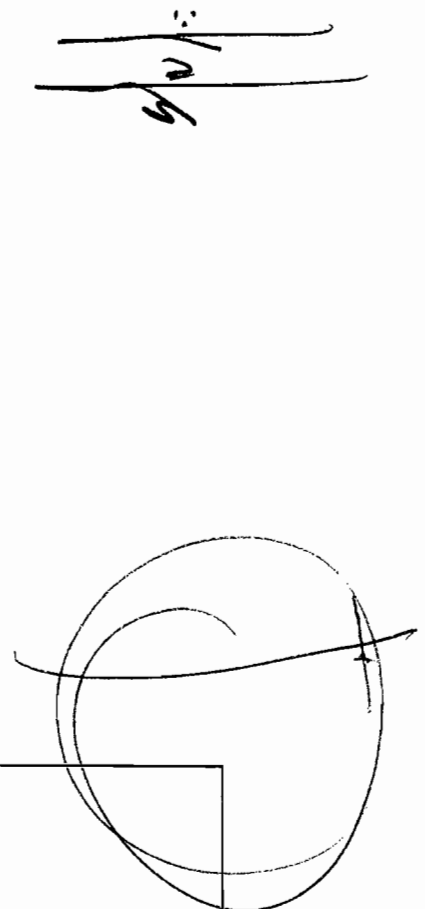
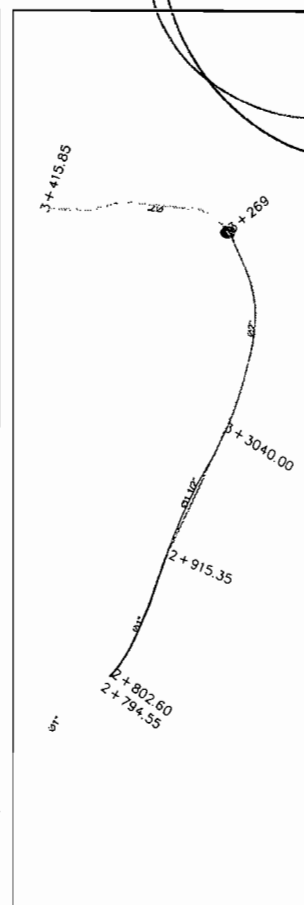
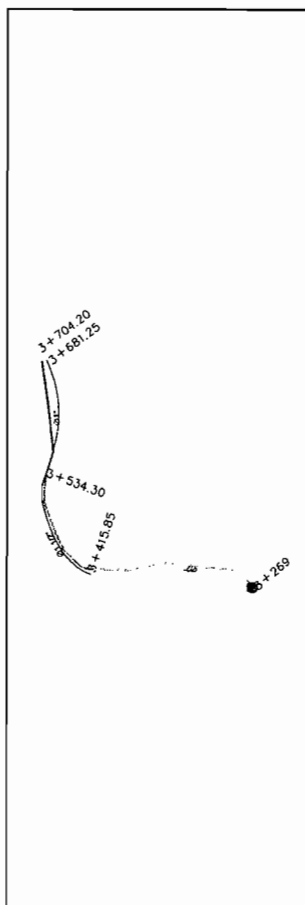
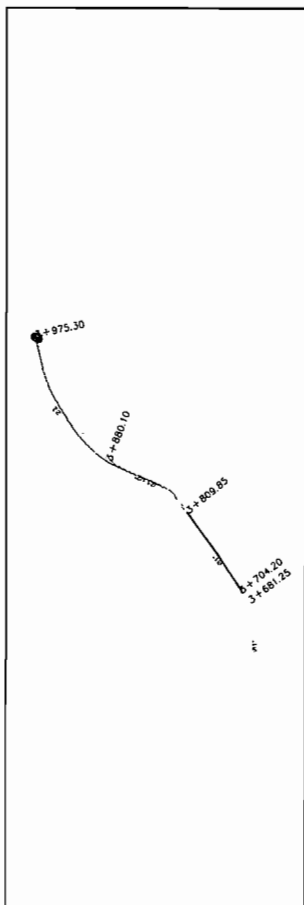
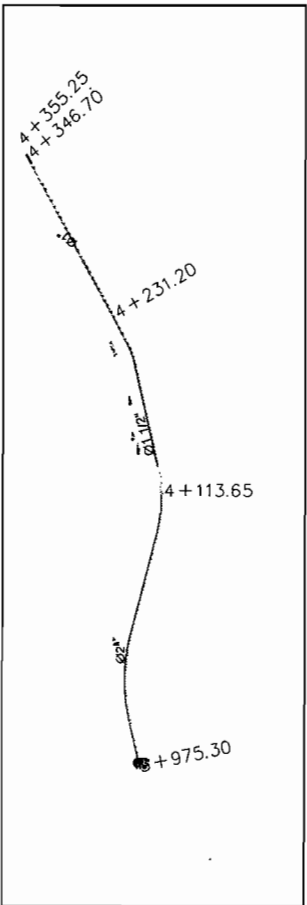
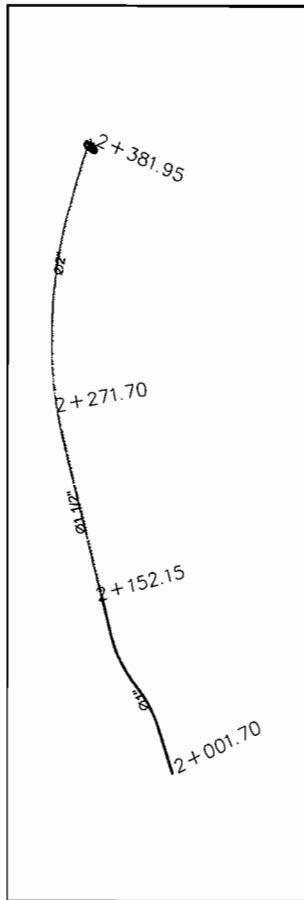
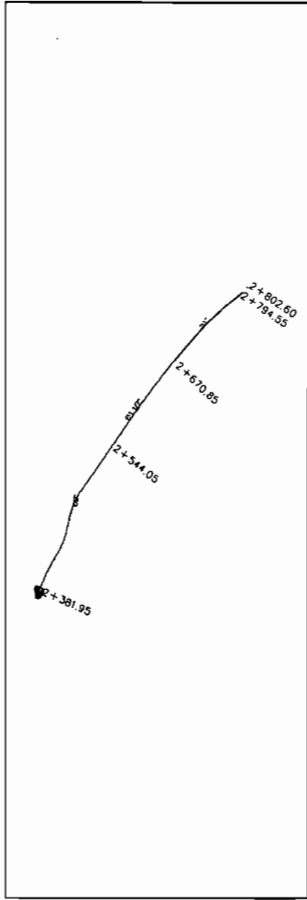
CONTRATO : 018/2016	TRAMO:
OBRA : RAMAL SECUNDARIO DE RIEGO PARA SENDA DE PARQUE TRES PRESAS	CONTRATISTA: GIL GUADALUPE OCHOA PACHECO

ESTIMACION No. 2 (DOS)	PERIODO : DEL 16 AL 31 DE MARZO DE 2016
------------------------	---

CLAVE: 1.27	OPERACIONES ARITMETICAS	CROQUIS	VOLUMEN A PAGAR																																												
CONCEPTO: SUMINISTRO E INSTALACION DE REDUCCION LISA DE PVC HIDRAULICO, DE 3" A 1"	<table> <tr><td>0+212.45</td><td>1.00</td><td>1.00</td><td>1.00</td></tr> <tr><td>0+615.80</td><td>1.00</td><td>1.00</td><td>1.00</td></tr> <tr><td>1+439.05</td><td>1.00</td><td>1.00</td><td>1.00</td></tr> <tr><td>2+271.70</td><td>1.00</td><td>1.00</td><td>1.00</td></tr> <tr><td>3+040.00</td><td>1.00</td><td>1.00</td><td>1.00</td></tr> <tr><td>3+880.10</td><td>1.00</td><td>1.00</td><td>1.00</td></tr> <tr><td>4+581.00</td><td>1.00</td><td>1.00</td><td>1.00</td></tr> <tr><td>5+220.00</td><td>1.00</td><td>1.00</td><td>1.00</td></tr> <tr><td>5+888.70</td><td>1.00</td><td>1.00</td><td>1.00</td></tr> <tr><td>6+689.15</td><td>1.00</td><td>1.00</td><td>1.00</td></tr> <tr><td>TOTAL</td><td>10.00</td><td></td><td>10.00</td></tr> </table>	0+212.45	1.00	1.00	1.00	0+615.80	1.00	1.00	1.00	1+439.05	1.00	1.00	1.00	2+271.70	1.00	1.00	1.00	3+040.00	1.00	1.00	1.00	3+880.10	1.00	1.00	1.00	4+581.00	1.00	1.00	1.00	5+220.00	1.00	1.00	1.00	5+888.70	1.00	1.00	1.00	6+689.15	1.00	1.00	1.00	TOTAL	10.00		10.00		10.00 piezas
0+212.45	1.00	1.00	1.00																																												
0+615.80	1.00	1.00	1.00																																												
1+439.05	1.00	1.00	1.00																																												
2+271.70	1.00	1.00	1.00																																												
3+040.00	1.00	1.00	1.00																																												
3+880.10	1.00	1.00	1.00																																												
4+581.00	1.00	1.00	1.00																																												
5+220.00	1.00	1.00	1.00																																												
5+888.70	1.00	1.00	1.00																																												
6+689.15	1.00	1.00	1.00																																												
TOTAL	10.00		10.00																																												
 Hand-drawn diagram showing a pipe reduction. The diagram includes a vertical pipe labeled 'TUBERIA 1 1/2\"	Va una valvula expulsora al entrar la tubería de 3" y antes de dividirse en 2 valvulas																																														

ARQ. GABRIEL FLORES HURTADO
SUPERVISOR

ING. JORGE JAIME RODRIGUEZ HERNANDEZ
RESIDENTE



GENERADOR DE ESTIMACION

HOJA: 17 / 20

CONTRATO : 018/2016

OBRA : RAMAL SECUNDARIO DE RIEGO PARA SENDA DE PARQUE TRES PRESAS

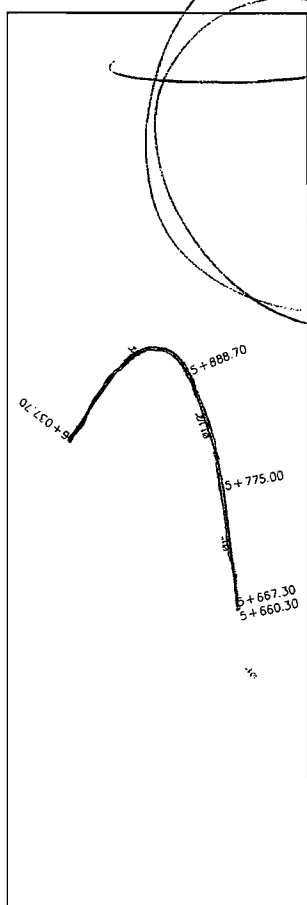
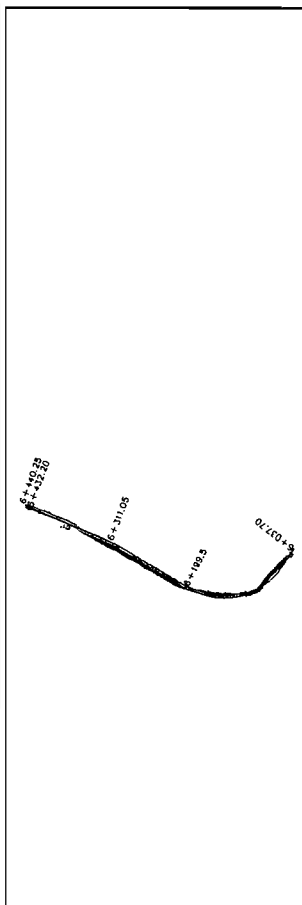
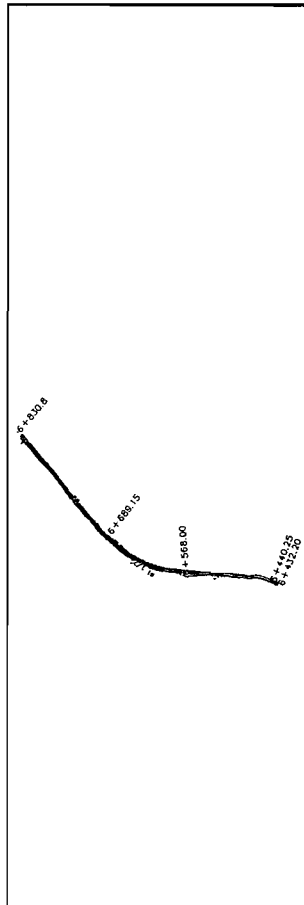
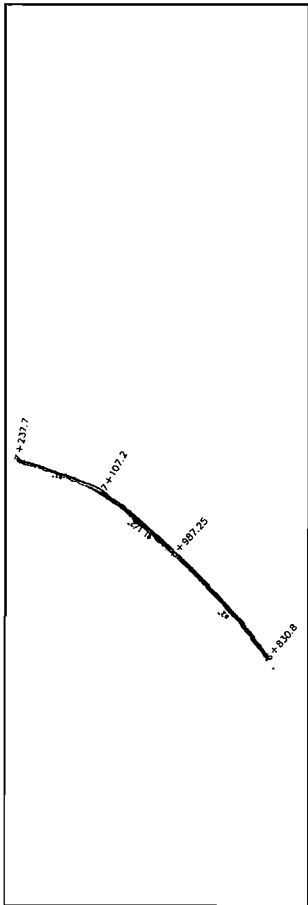
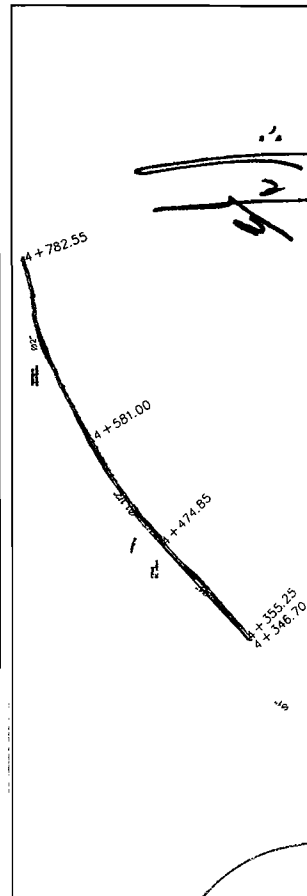
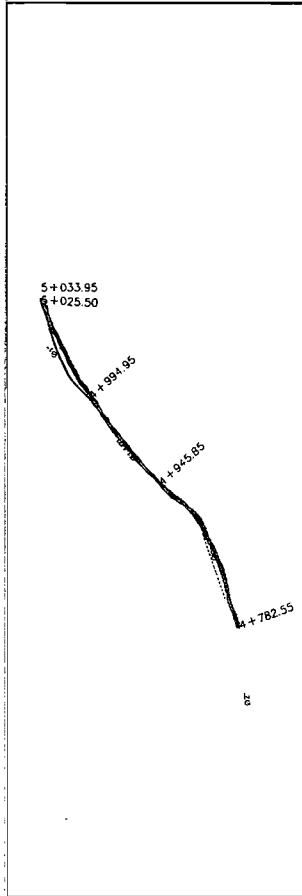
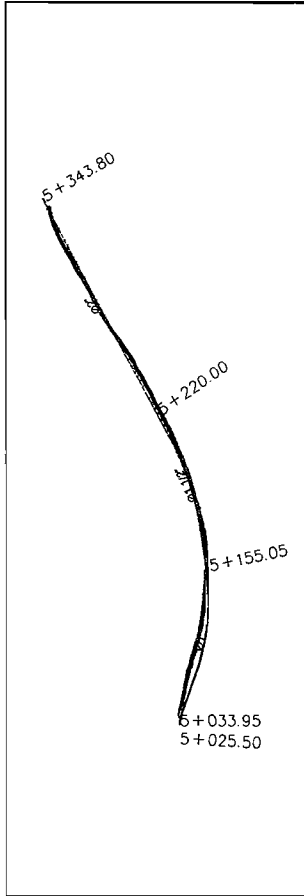
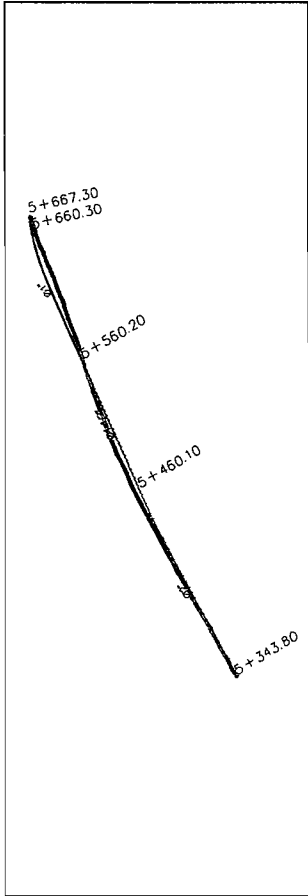
TRAMO: CONTRATISTA: GIL GUADALUPE OCHOA PACHECO

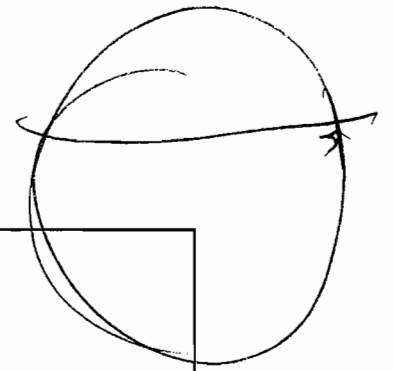
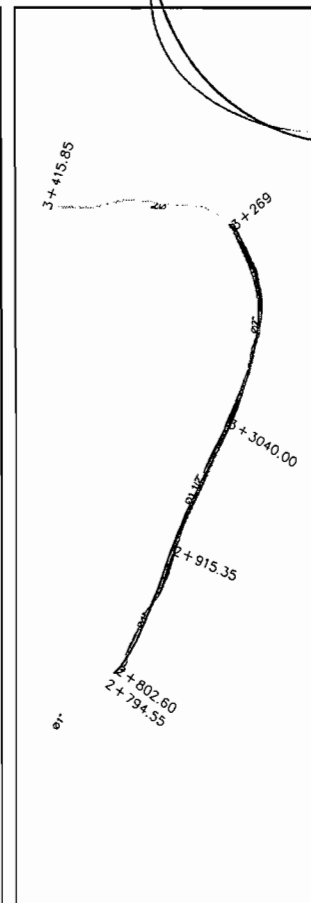
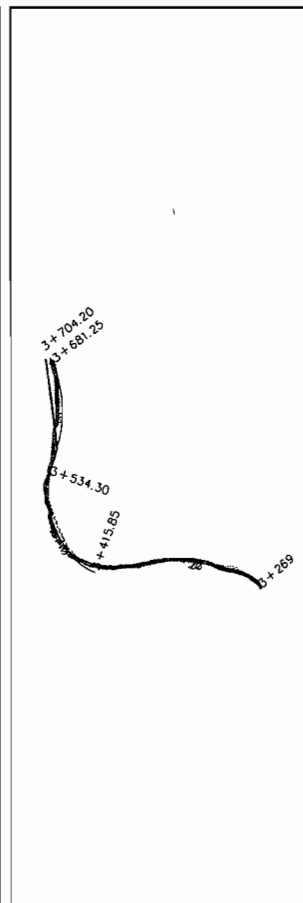
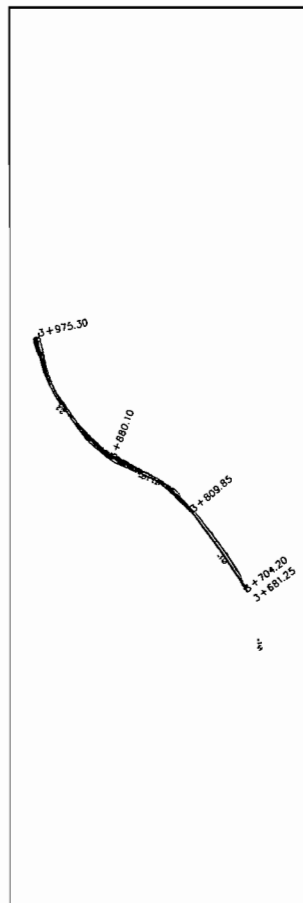
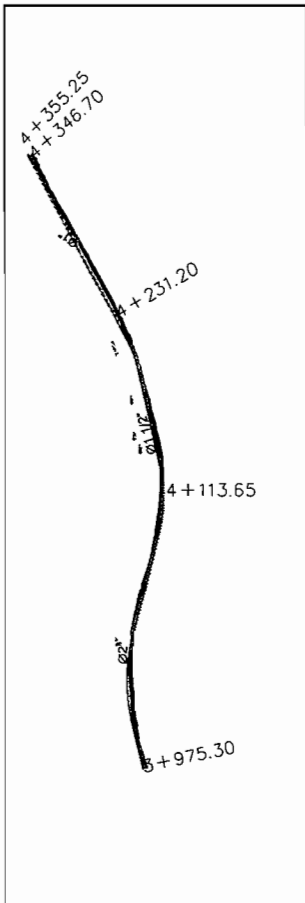
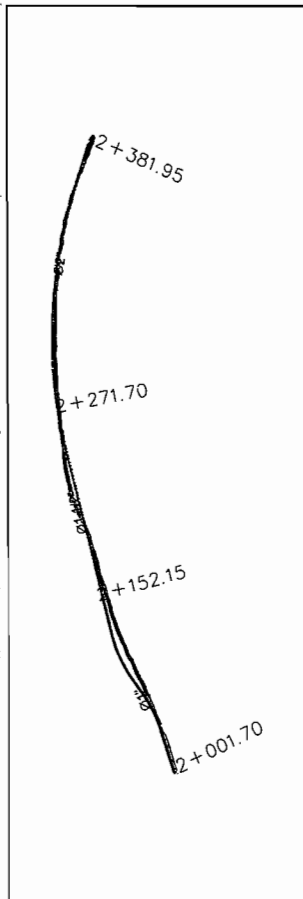
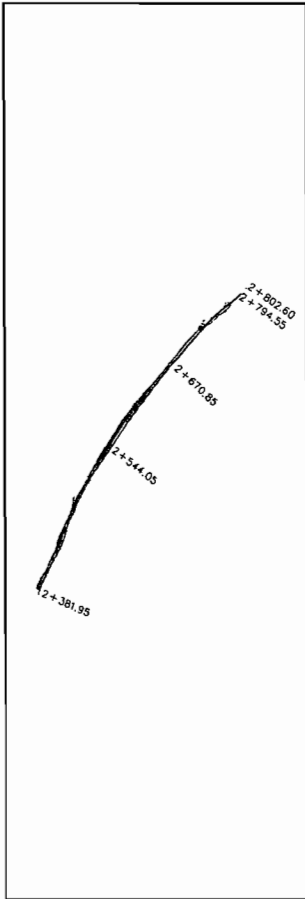
ESTIMACION No. 2 (DOS)		PERIODO : DEL 16 AL 31 DE MARZO DE 2016		CROQUIS	VOLUMEN A PAGAR																																													
CLAVE: 1.28 CONCEPTO: EXCAVACION MANUAL PARA INSTALACION DE LINEA SECUNDARIA, ESTO CON EL FIN DE PROTEGER LAS GUARNICIONES Y LAS RAICES DE LOS ENCINOS QUE YA ESTAN SEMBRADOS, ANCHO DE LA EXCAVACION DE 20 CMS X 30 CMS																																																		
OPERACIONES ARITMETICAS																																																		
<table><tr><td>2+001.70</td><td>2+381.95</td><td>380.25</td></tr><tr><td>2+381.95</td><td>2+794.55</td><td>412.60</td></tr><tr><td>2+802.60</td><td>3+269.00</td><td>466.40</td></tr><tr><td>3+269.00</td><td>3+681.25</td><td>412.25</td></tr><tr><td>3+704.20</td><td>3+975.30</td><td>271.10</td></tr><tr><td>3+975.30</td><td>4+346.70</td><td>371.40</td></tr><tr><td>4+355.25</td><td>4+782.55</td><td>427.30</td></tr><tr><td>4+782.55</td><td>5+025.50</td><td>242.95</td></tr><tr><td>5+033.95</td><td>5+343.80</td><td>309.85</td></tr><tr><td>5+343.80</td><td>5+660.30</td><td>316.50</td></tr><tr><td>5+667.30</td><td>6+037.70</td><td>370.40</td></tr><tr><td>6+037.70</td><td>6+432.20</td><td>394.50</td></tr><tr><td>6+440.25</td><td>6+830.80</td><td>390.55</td></tr><tr><td>6+830.80</td><td>7+237.70</td><td>406.90</td></tr><tr><td colspan="2">TOTAL</td><td>5,172.95</td></tr></table>				2+001.70	2+381.95	380.25	2+381.95	2+794.55	412.60	2+802.60	3+269.00	466.40	3+269.00	3+681.25	412.25	3+704.20	3+975.30	271.10	3+975.30	4+346.70	371.40	4+355.25	4+782.55	427.30	4+782.55	5+025.50	242.95	5+033.95	5+343.80	309.85	5+343.80	5+660.30	316.50	5+667.30	6+037.70	370.40	6+037.70	6+432.20	394.50	6+440.25	6+830.80	390.55	6+830.80	7+237.70	406.90	TOTAL		5,172.95		
2+001.70	2+381.95	380.25																																																
2+381.95	2+794.55	412.60																																																
2+802.60	3+269.00	466.40																																																
3+269.00	3+681.25	412.25																																																
3+704.20	3+975.30	271.10																																																
3+975.30	4+346.70	371.40																																																
4+355.25	4+782.55	427.30																																																
4+782.55	5+025.50	242.95																																																
5+033.95	5+343.80	309.85																																																
5+343.80	5+660.30	316.50																																																
5+667.30	6+037.70	370.40																																																
6+037.70	6+432.20	394.50																																																
6+440.25	6+830.80	390.55																																																
6+830.80	7+237.70	406.90																																																
TOTAL		5,172.95																																																
					5,172.95 m																																													

40/12

ING. JORGE JAIME RODRIGUEZ HERNANDEZ
RESIDENTE

ARQ. GABRIELA FLORES HURTADO
SUPERVISOR





GENERADOR DE ESTIMACION

HOJA: 20 / 20

CONTRATO: 018/2016		TRAMO:
OBRA: RAMAL SECUNDARIO DE RIEGO PARA SENDA DE		CONTRATISTA: GIL GUADALUPE OCHOA PACHECO
PARQUE TRES PRESAS		

ESTIMACION No. 2 (DOS)	PERIODO : DEL 16 AL 31 DE MARZO DE 2016
------------------------	---

CLAVE: 1.31 CONCEPTO: FABRICACION DE TREN DE SUCCION PARA BOMBA, A INSTALARSE EN TANQUE DE PARQUE EL RELIZ, A BASE DE 2.00 METROS TUBO NEGRO DE 6", CEDULA 40, INCLUYE: 2 PIEZAS DE COUPLE ESTANDAR DE 6", 1 TEE DE 6" AC SOLDABLE CEDULA 40, 4 BRIDAS DE AC FORJ DE 6", NIPLE NEGRO C/C CEDULA 40 4X6", Y TODO LO NECESARIO PARA SU CORRECTA COLOCACION.	OPERACIONES ARITMETICAS <table border="1"> <tr> <td>1.00</td> <td>1.00</td> </tr> <tr> <td>TOTAL</td> <td>1.00</td> </tr> </table> Bomba instalada en tanque de almacenamiento en parque el Reliz.	1.00	1.00	TOTAL	1.00
1.00	1.00				
TOTAL	1.00				

CROQUIS	VOLUMEN A PAGAR 1.00 pieza
----------------	--

ARQ. GABRIELA FLOREZ HURTADO
SUPERVISOR

ING. JORGE JAIME RODRIGUEZ HERNANDEZ
RESIDENTE

GENERADOR DE ESTIMACION

HOJA: 19 / 20

CONTRATO : 018/2016	TRAMO:
OBRA : RAMAL SECUNDARIO DE RIEGO PARA SENDA DE	CONTRATISTA: GIL GUADALUPE OCHOA PACHECO
PARQUE TRES PRESAS	

ESTIMACION No. 2 (DOS)	PERIODO : DEL 16 AL 31 DE MARZO DE 2016				
CLAVE: 1.30					
CONCEPTO: SUMINISTRO E INSTALACION DE BOMBA ALTAMIRA MODELO KOR32R500-5, SUMERGIBLE DE ACERO INOXIDABLE PARA 32 LPS, DE 50 HP, CON MOTOR ALTAMIRA MODELO MSR6 503460 DE 50 HP.	OPERACIONES ARITMETICAS <table border="1"> <tr> <td>1.00</td> <td>1.00</td> </tr> <tr> <td>TOTAL</td> <td>1.00</td> </tr> </table> Bomba instalada en tanque de almacenamiento en parque el Reliz.	1.00	1.00	TOTAL	1.00
1.00	1.00				
TOTAL	1.00				
CROQUIS PARQUE EL RELIZ. 1.00 pieza					

ARO. GABRIELA ELIZABETH HURTADO
SUPERVISOR

ING. JORGE JAIME RODRIGUEZ HERNANDEZ
RESIDENTE

NOTA #16

18/MARZO/2016

SE INICIAN RELLENOS COMPACTADOS RESPECTO AL TRAMO 2+001.70 AL 2+794.55.

SE INICIAN LAS EXCAVACIONES PARA EL RIEGO SECUNDARIO EN EL TRAMO ~~2+001.70~~ 2+802.60 AL 3+681.25.

NOTA #17

19/MARZO/2016

SE INSTALA TUBERIA DE RIEGO

SECUNDARIO QUEDANDO ASI:

DEL 2+802.60 AL 2+915.35

TUBERIA DE 1"

DEL 2+915.35 AL 3+040.00

TUBERIA DE 1 1/2" ~~DE 1 1/2"~~

DEL 3+040.00 AL 3+269.00

TUBERIA DE 2"

DEL 3+269.00 AL 3+415.85

TUBERIA DE 2"

DEL 3+415.85 AL 3+534.30

TUBERIA DE 1 1/2"

DEL 3+534.30 AL 3+681.25

TUBERIA DE 1"

NOTA #18

21/MARZO/2016

SE RELLENAN LAS ZANJAS RESPECTO AL RAMAL SECUNDARIO DEL TRAMO 2+802.60 AL 3+681.25.

SE INICIAN LAS EXCAVACIONES DEL RAMAL SECUNDARIO PARA EL TRAMO 3+704.20 AL 4+346.70.

NOTA #19

22/MARZO/2016

SE INSTALA TUBERIA DE RAMAL SECUNDARIO QUEDANDO:

DEL 3+809.85 AL 3+880.10 TUBERIA DE 1 1/2"

DEL 3+880.10 AL 3+975.30 TUBERIA DE 2"

DEL 3+975.30 AL 4+113.65 TUBERIA DE 2"

DEL 4+113.65 AL 4+231.20 TUBERIA DE 1 1/2"

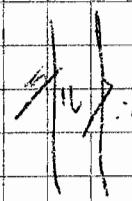
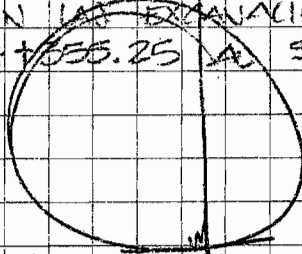
DEL 4+231.20 AL 4+346.70 TUBERIA DE 1"

NOTA #20

23/MARZO/2016

SE RELLENAN LAS ZAUJAS RESPECTO AL RAMAL SECUNDARIO DEL TRAMO DE 3+704.20 AL 4+346.70.

SE INICIAN LAS EXCAVACIONES PARA EL RAMAL SECUNDARIO DEL TRAMO 4+555.25 AL 5+025.50.

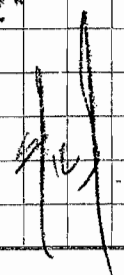
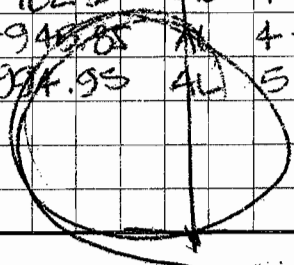


NOTA #21

24/MARZO/2016

SE INSTALA TUBERIA DEL RAMAL SECUNDARIO DE LA NOTA ANTERIOR, QUEDANDO ASI:

DEL 4+355.25 AL 4+474.85	TUBERIA DE 1"
DEL 4+474.85 AL 4+581.00	TUBERIA DE 1 1/2"
DEL 4+581.00 AL 4+782.55	TUBERIA DE 2"
DEL 4+782.55 AL 4+945.85	TUBERIA DE ~~2"~~ 2"
DEL 4+945.85 AL 4+994.95	TUBERIA DE 1 1/2"
DEL 4+994.95 AL 5+025.50	TUBERIA DE 1"

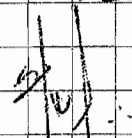
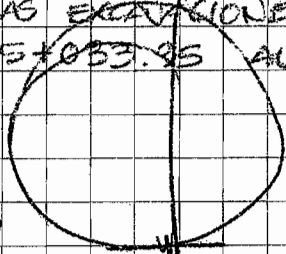


NOTA #22

25/MARZO/2016

SE RELLENAN ZAUJAS RESPECTO AL RAMAL SECUNDARIO DEL TRAMO DEL 4+555.25 AL 5+025.30.

SE INICIAN LAS EXCAVACIONES PARA EL RAMAL SECUNDARIO DEL TRAMO DEL 5+033.95 AL 5+560.30



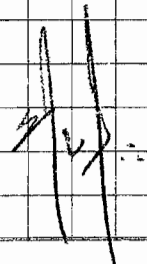
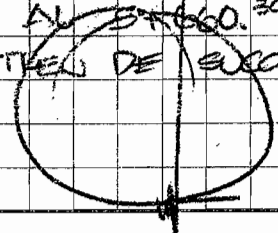
NOTA #23

26/MARZO/2016

SE INSTALA LA LINEA SECUNDARIA DE RIEGO DEL TRAMO DE LA NOTA ANTERIOR QUEDANDO ASI:

DEL 5+033.95 AL 5+155.05	CON TUBERIA DE 1"
DEL 5+155.05 AL 5+220.00	CON TUBERIA DE 1 1/2"
DEL 5+220.00 AL 5+343.80	CON TUBERIA DE 2"
DEL 5+343.80 AL 5+460.10	CON TUBERIA DE 2"
DEL 5+460.10 AL 5+560.20	CON TUBERIA DE 1 1/2"
DEL 5+560.20 AL 5+560.30	CON TUBERIA DE 1"

SE FABRICA TREN DE SUCCION PARA BOMBAS

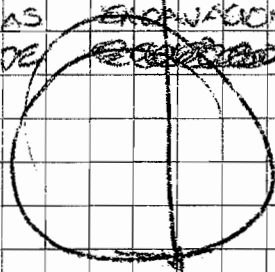


NOTA #24

28/MARZO/2016

SE RELLENAN LAS ZALLAS CORRESPONDIENTES AL RAMAL SECUNDARIO RELATIVO AL TRAMO DE 5+033.95 AL 5+660.30

SE INICIAN LAS EXCAVACIONES PARA EL RAMAL SECUNDARIO PARA EL TRAMO DE ~~5+660.30~~ 5+667.30 AL 6+432.20.



1/1/...

NOTA #25

29/MARZO/2016

SE INSTALA TUBERIA DEL RAMAL SECUNDARIO DEL TRAMO DE LA NOTA ANTERIOR, QUEDANDO ASI:

DEL 5+667.30 AL 5+775.00 TUBERIA DE 1"

DEL 5+775.00 AL 5+888.70 TUBERIA DE 1 1/2"

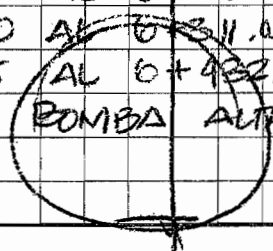
DEL 5+888.70 AL 6+037.70 TUBERIA DE 2"

DEL 6+037.70 AL 6+199.50 TUBERIA DE 2"

DEL 6+199.50 AL 6+311.05 TUBERIA DE 1 1/2"

DEL 6+311.05 AL 6+432.20 TUBERIA DE 1"

SE INSTALA BOMBA ALPAMIRA EN TANQUE DE DRENAJE.

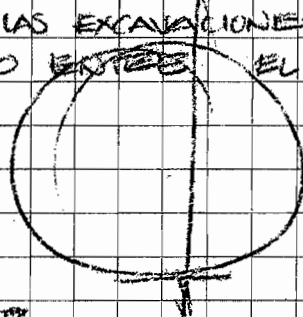


NOTA #26

30/MARZO/2016

SE RELLENAN LAS ZALLAS CORRESPONDIENTES AL TRAMO DEL 5+667.30 AL 6+432.20.

SE INICIAN LAS EXCAVACIONES PARA EL RIEGO SECUNDARIO COMPRENDIDO ENTRE EL 6+440.25 AL 7+237.70.



1/1/...

NOTA # 27

31/MARZO/2016

SE INSTALA LA TUBERIA DEL RIEGO SECUNDARIO DEL TRAMO DE LA NOTA ANTERIOR, QUEDANDO ASI:

DEL 6+440.25 AL 6+568.00 TUBERIA DE 1"

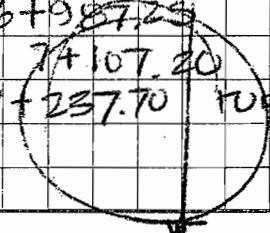
DEL 6+568.00 AL 6+689.15 TUBERIA DE 1 1/2"

DEL 6+689.15 AL 6+830.80 TUBERIA DE 2"

DEL 6+830.80 AL 6+987.25 TUBERIA DE 2"

DEL 6+987.25 AL 7+107.20 TUBERIA DE 1 1/2"

DEL 7+107.20 AL 7+237.70 TUBERIA DE 1"



1/1/...

GENERADOR DE ESTIMACION

HOJA: 1 / 19

CONTRATO : 018/2016	TRAMO:
OBRA : RAMAL SECUNDARIO DE RIEGO PARA SENDA DE	CONTRATISTA: GIL GUADALUPE OCHOA PACHECO
PARQUE TRES PRESAS	

ESTIMACION No. 2 (DOS)	PERIODO : DEL 16 AL 31 DE MARZO DE 2016
------------------------	---

CLAVE: 1.01	OPERACIONES ARITMETICAS			
CONCEPTO: SUMINISTRO E INSTALACION DE TUBERIA DE PVC DE 1 RD 21, 200 PSI CON CAMPANA.	2+001.70	2+152.15	150.45	
	2+670.85	2+794.55	123.70	
	2+802.60	2+915.35	112.75	
	3+534.30	3+681.25	146.95	
	3+704.20	3+809.85	105.65	
	4+231.20	4+346.70	115.50	
	4+355.25	4+474.85	119.60	
	4+994.95	5+025.50	30.55	
	5+033.95	5+155.05	121.10	
	5+560.20	5+660.30	100.10	
	5+667.30	5+775.00	107.70	
	6+311.05	6+432.20	121.15	
	6+440.25	6+568.00	127.75	
	7+107.20	7+237.70	130.50	
	TOTAL		1,613.45	

VOLUMEN A PAGAR

1,613.45 m

ARQ. GABRIELA FLÓREZ HURTADO
SUPERVISOR

ING. JORGE JAIME RODRIGUEZ HERNANDEZ
RESIDENTE

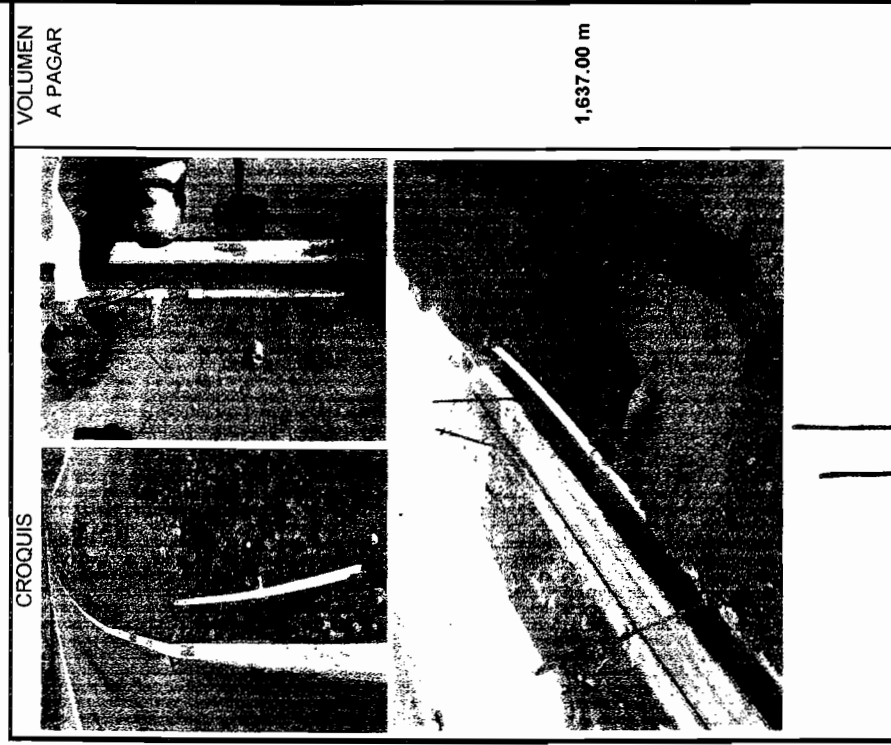
GENERADOR DE ESTIMACION

HOJA: 2 / 19

CONTRATO : 018/2016	TRAMO:
OBRA : RAMAL SECUNDARIO DE RIEGO PARA SENDA DE	CONTRATISTA: GIL GUADALUPE OCHOA PACHECO
PARQUE TRES PRESAS	

ESTIMACION No. 2 (DOS)	PERIODO : DEL 16 AL 31 DE MARZO DE 2016
------------------------	---

CLAVE: 1.02	OPERACIONES ARITMETICAS			
CONCEPTO: SUMINISTRO E INSTALACION DE TUBERIA DE PVC 1 1/2 PLG RD 21, 200 PSI.	2+152.15	2+271.70	119.55	
	2+544.05	2+670.85	126.80	
	2+915.35	3+040.00	124.65	
	3+415.85	3+534.30	118.45	
	3+809.85	3+880.10	127.95	
	4+113.65	4+231.20	117.55	
	4+474.85	4+581.00	106.15	
	4+945.85	4+994.95	106.80	
	5+155.05	5+220.00	122.65	
	5+460.10	5+560.20	100.10	
	5+775.00	5+888.70	113.70	
	6+199.50	6+311.05	111.55	
	6+568.00	6+689.15	121.15	
	6+987.25	7+107.20	119.95	
	TOTAL		1,637.00	



ING. JORGE JAIME RODRIGUEZ HERNANDEZ
RESIDENTE

ARQ. GABRIELA FLORES MURTA
SUPERVISOR

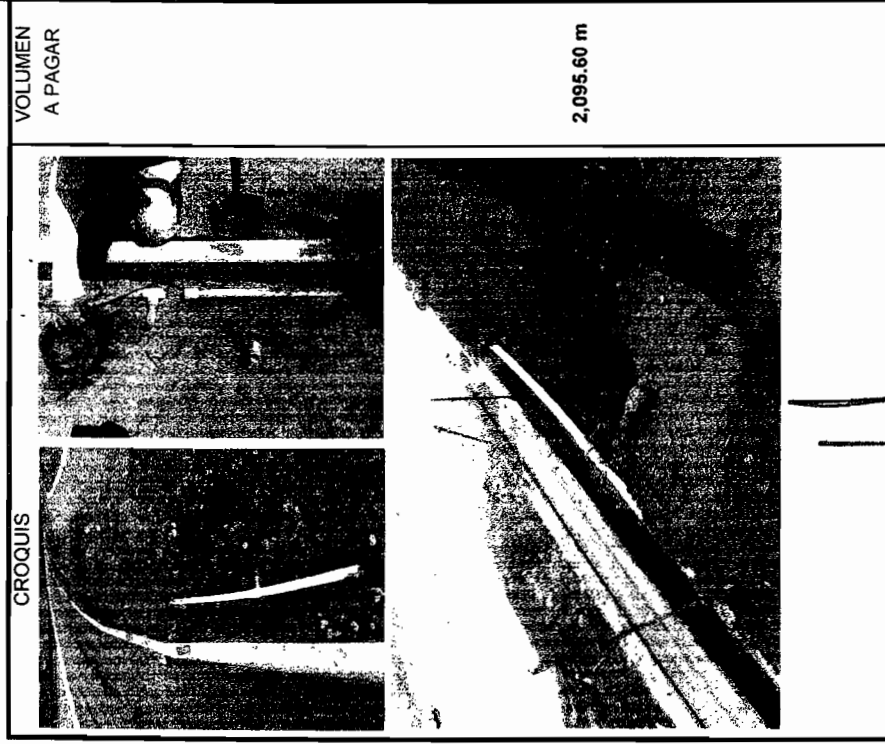
GENERADOR DE ESTIMACION

HOJA: 3 / 19

CONTRATO : 018/2016		TRAMO:
OBRA : RAMAL SECUNDARIO DE RIEGO PARA SENDA DE PARQUE TRES PRESAS		CONTRATISTA: GIL GUADALUPE OCHOA PACHECO

ESTIMACION No. 2 (DOS)	PERIODO : DEL 16 AL 31 DE MARZO DE 2016
------------------------	---

CLAVE: 1.03 CONCEPTO: SUMINISTRO E INSTALACION DE TUBERIA DE PVC DE 2 PLG RD-26 CON CAMPANA.	OPERACIONES ARITMETICAS			
	2+271.70	2+381.95	110.25	
	2+381.95	2+544.05	162.10	
	3+040.00	3+269.00	229.00	
	3+269.00	3+415.85	146.85	
	3+880.10	3+975.30	95.20	
	3+975.30	4+113.65	138.35	
	4+581.00	4+782.55	201.55	
	4+782.55	4+945.85	163.30	
	5+220.00	5+343.80	123.80	
	5+343.80	5+460.10	116.30	
	5+888.70	6+037.70	149.00	
	6+037.70	6+199.50	161.80	
	6+689.15	6+830.80	141.65	
	6+830.80	6+987.25	156.45	
	TOTAL		2,095.60	



2,095.60 m

VOLUMEN
A PAGAR

ING. JORGE JAIME RODRIGUEZ HERNANDEZ
RESIDENTE

ARQ. GABRIELA ELOPEZ HURTADO
SUPERVISOR

GENERADOR DE ESTIMACION

HOJA: 4 / 19

CONTRATO : 018/2016	TRAMO:
OBRA : RAMAL SECUNDARIO DE RIEGO PARA SENDA DE	CONTRATISTA: GIL GUADALUPE OCHOA PACHECO
PARQUE TRES PRESAS	

ESTIMACION No. 2 (DOS)	PERIODO : DEL 16 AL 31 DE MARZO DE 2016
------------------------	---

CLAVE: 1.04 CONCEPTO: SUMINISTRO E INSTALACION DE CODO 90 DE PVC DE 1 PLG CED 40.	OPERACIONES ARITMETICAS <table border="1"> <tr><td>2+152.15</td><td>1.00</td></tr> <tr><td>2+794.55</td><td>1.00</td></tr> <tr><td>2+915.35</td><td>1.00</td></tr> <tr><td>3+681.25</td><td>1.00</td></tr> <tr><td>3+809.85</td><td>1.00</td></tr> <tr><td>4+346.70</td><td>1.00</td></tr> <tr><td>4+474.85</td><td>1.00</td></tr> <tr><td>5+025.50</td><td>1.00</td></tr> <tr><td>5+155.05</td><td>1.00</td></tr> <tr><td>5+660.30</td><td>1.00</td></tr> <tr><td>5+775.00</td><td>1.00</td></tr> <tr><td>6+432.20</td><td>1.00</td></tr> <tr><td>6+568.00</td><td>1.00</td></tr> <tr><td>7+237.70</td><td>1.00</td></tr> <tr><td>TOTAL</td><td>14.00</td></tr> </table> Este codo va en el final de cada linea de 1" para alimentar el riego del ultimo arbol en ese cadenamiento	2+152.15	1.00	2+794.55	1.00	2+915.35	1.00	3+681.25	1.00	3+809.85	1.00	4+346.70	1.00	4+474.85	1.00	5+025.50	1.00	5+155.05	1.00	5+660.30	1.00	5+775.00	1.00	6+432.20	1.00	6+568.00	1.00	7+237.70	1.00	TOTAL	14.00
2+152.15	1.00																														
2+794.55	1.00																														
2+915.35	1.00																														
3+681.25	1.00																														
3+809.85	1.00																														
4+346.70	1.00																														
4+474.85	1.00																														
5+025.50	1.00																														
5+155.05	1.00																														
5+660.30	1.00																														
5+775.00	1.00																														
6+432.20	1.00																														
6+568.00	1.00																														
7+237.70	1.00																														
TOTAL	14.00																														

CROQUIS 	VOLUMEN A PAGAR 14.00 piezas
---	--

ARQ. GABRIELA FLOREZ HUERTADO
SUPERVISOR

ING. JORGE JAIME RODRIGUEZ HERNANDEZ
RESIDENTE

GENERADOR DE ESTIMACION

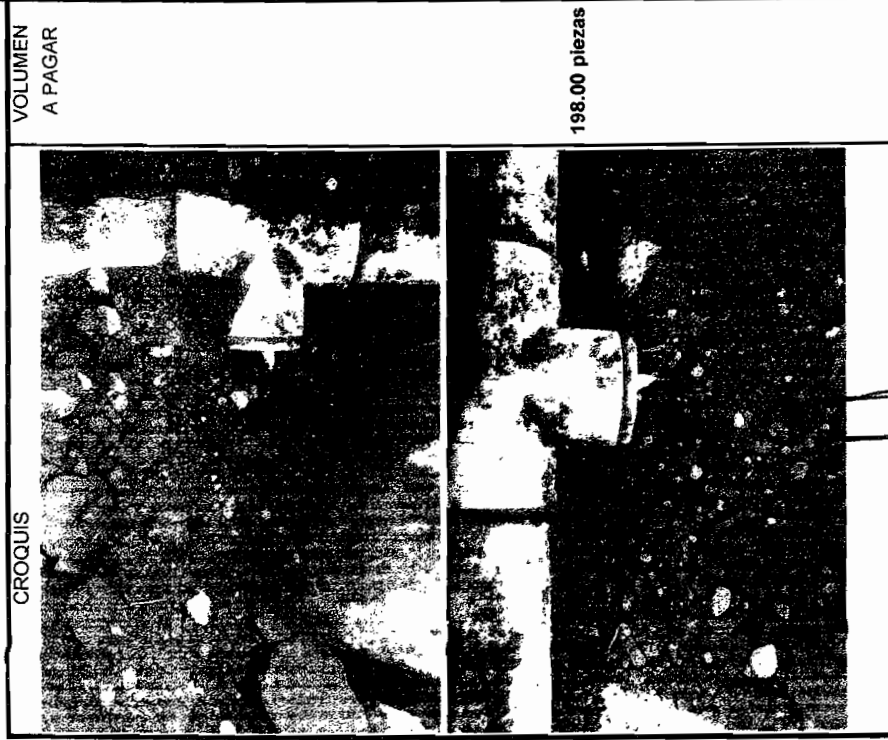
HOJA: 5 / 19

CONTRATO : 018/2016	TRAMO:
OBRA : RAMAL SECUNDARIO DE RIEGO PARA SENDA DE PARQUE TRES PRESAS	CONTRATISTA: GIL GUADALUPE OCHOA PACHECO

ESTIMACION No. 2 (DOS)	PERIODO : DEL 16 AL 31 DE MARZO DE 2016
------------------------	---

CLAVE: 1.05	OPERACIONES ARITMETICAS			
CONCEPTO: SUMINISTRO E INSTALACION DE TEE DE PVC DE 1 PLG CED 40.	2+001.70	2+152.15	14.00	14.00
	2+670.85	2+794.55	14.00	14.00
	2+802.60	2+915.35	14.00	14.00
	3+534.30	3+681.25	14.00	14.00
	3+704.20	3+809.85	14.00	14.00
	4+231.20	4+346.70	14.00	14.00
	4+355.25	4+474.85	14.00	14.00
	4+994.95	5+025.50	14.00	14.00
	5+033.95	5+155.05	14.00	14.00
	5+560.20	5+660.30	14.00	14.00
	5+667.30	5+775.00	14.00	14.00
	6+311.05	6+432.20	14.00	14.00
	6+440.25	6+568.00	14.00	14.00
	7+107.20	7+237.70	16.00	16.00
TOTAL			198.00	

Estas TEE son para derivar el riego hacia el arbol que se va a regar y continuar la linea de riego secundario para la tuberia de PVC de 1"



198.00 piezas

ARQ. GABRIELA FLORES FORTADO
SUPERVISOR

ING. JORGE JAIME RODRIGUEZ HERNANDEZ
RESIDENTE

GENERADOR DE ESTIMACION

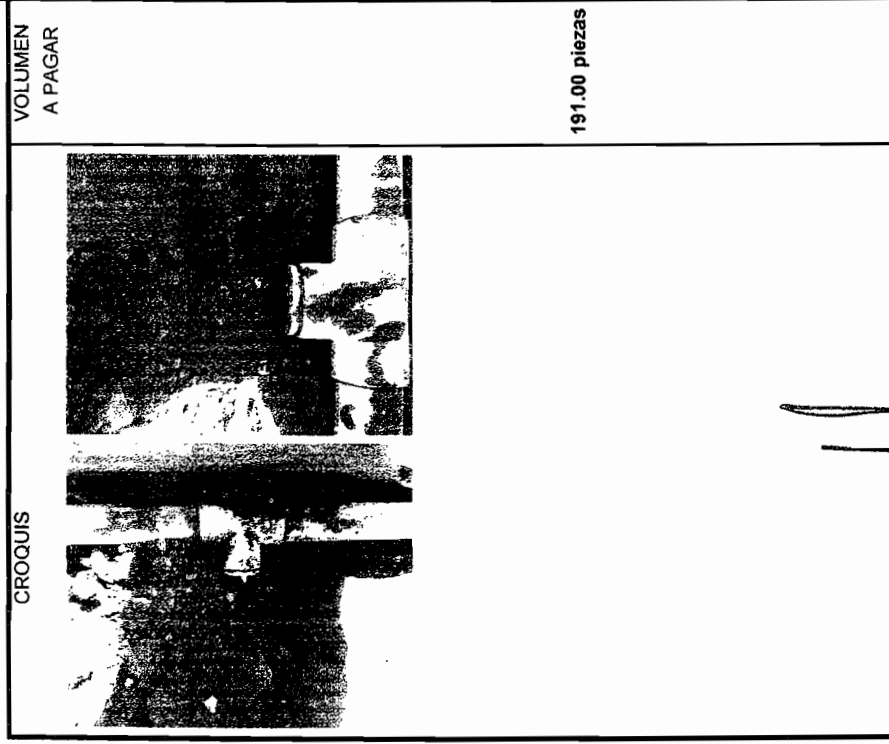
HOJA: 6 / 19

CONTRATO : 018/2016	TRAMO:
OBRA : RAMAL SECUNDARIO DE RIEGO PARA SENDA DE PARQUE TRES PRESAS	CONTRATISTA: GIL GUADALUPE OCHOA PACHECO

ESTIMACION No. 2 (DOS)	PERIODO : DEL 16 AL 31 DE MARZO DE 2016
------------------------	---

CLAVE: 1.06 CONCEPTO: SUMINISTRO E INSTALACION DE TEE DE PVC DE 1 1/2 PLG CED 40.	OPERACIONES ARITMETICAS									
	2+152.15	2+271.70	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	2+544.05	2+670.85	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	2+915.35	3+040.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
	3+415.85	3+534.30	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	3+809.85	3+880.10	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00
	4+113.65	4+231.20	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	4+474.85	4+581.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	4+945.85	4+994.95	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
	5+155.05	5+220.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
	5+460.10	5+560.20	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	5+775.00	5+888.70	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	6+199.50	6+311.05	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	6+568.00	6+689.15	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	6+987.25	7+107.20	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	TOTAL		191.00							

Estas TEE son para derivar el riego hacia el arbol que se va a regar y continuar la linea de riego secundario para la tubería de PVC de 1 1/2"



VOLUMEN
A PAGAR

191.00 piezas

ARQ. GABRIELA FLORES HURTADO
SUPERVISOR

4/10/16
ING. JORGE JAIME RODRIGUEZ HERNANDEZ
RESIDENTE

GENERADOR DE ESTIMACION

HOJA: 7 / 19

CONTRATO : 018/2016	TRAMO:
OBRA : RAMAL SECUNDARIO DE RIEGO PARA SENDA DE PARQUE TRES PRESAS	CONTRATISTA: GIL GUADALUPE OCHOA PACHECO

ESTIMACION No. 2 (DOS)	PERIODO : DEL 16 AL 31 DE MARZO DE 2016	CROQUIS	VOLUMEN A PAGAR
CLAVE: 1.07 CONCEPTO: SUMINISTRO E INSTALACION DE TEE DE PVC DE 2PLG CED 40.	OPERACIONES ARITMETICAS		
	2+271.70	2+381.95	20.00
	2+381.95	2+544.05	20.00
	3+040.00	3+269.00	24.00
	3+269.00	3+415.85	20.00
	3+880.10	3+975.30	16.00
	3+975.30	4+113.65	20.00
	4+581.00	4+782.55	24.00
	4+782.55	4+945.85	20.00
	5+220.00	5+343.80	18.00
	5+343.80	5+460.10	20.00
	5+888.70	6+037.70	20.00
	6+037.70	6+199.50	24.00
	6+689.15	6+830.80	20.00
	6+830.80	6+987.25	21.00
TOTAL		287.00	
Estas TEE son para derivar el riego hacia el arbol que se va a regar y continuar la linea de riego secundario para la tubería de PVC de 2"			
		287.00 piezas	

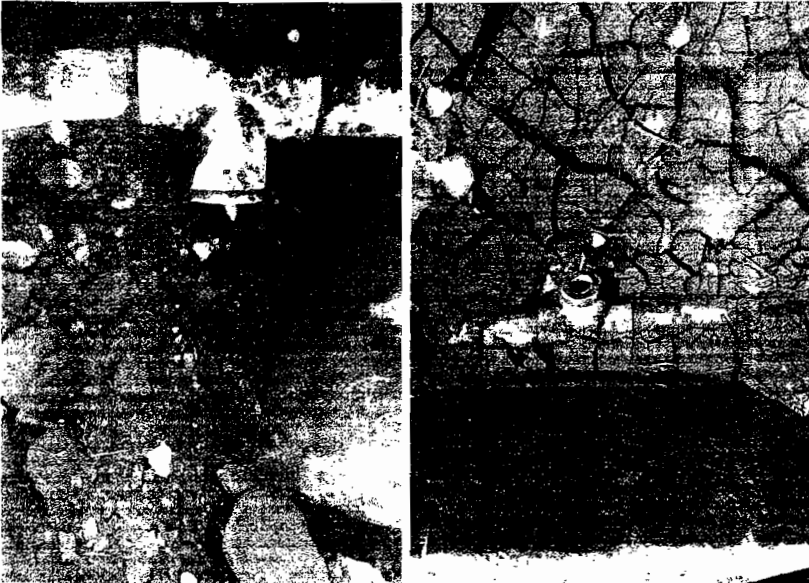
ARQ. GABRIELA FLOREZ HURTADO
SUPERVISOR

ING. JORGE JAIME RODRIGUEZ HERNANDEZ
RESIDENTE

GENERADOR DE ESTIMACION

HOJA: 8 / 19

CONTRATO : 018/2016	TRAMO:
OBRA : RAMAL SECUNDARIO DE RIEGO PARA SENDA DE PARQUE TRES PRESAS	CONTRATISTA: GIL GUADALUPE OCHOA PACHECO

ESTIMACION No. 2 (DOS)	PERIODO : DEL 16 AL 31 DE MARZO DE 2016	CROQUIS	VOLUMEN A PAGAR																																																																
CLAVE: 1.08 CONCEPTO: SUMINISTRO E INSTALACION DE REDUCCION LISA DE 1 A 1/2 PULGADAS.	<table> <tr> <th colspan="4">OPERACIONES ARITMETICAS</th></tr> <tr><td>2+001.70</td><td>2+152.15</td><td>15.00</td><td>15.00</td></tr> <tr><td>2+670.85</td><td>2+794.55</td><td>15.00</td><td>15.00</td></tr> <tr><td>2+802.60</td><td>2+915.35</td><td>15.00</td><td>15.00</td></tr> <tr><td>3+534.30</td><td>3+681.25</td><td>15.00</td><td>15.00</td></tr> <tr><td>3+704.20</td><td>3+809.85</td><td>15.00</td><td>15.00</td></tr> <tr><td>4+231.20</td><td>4+346.70</td><td>15.00</td><td>15.00</td></tr> <tr><td>4+355.25</td><td>4+474.85</td><td>15.00</td><td>15.00</td></tr> <tr><td>4+994.95</td><td>5+025.50</td><td>15.00</td><td>15.00</td></tr> <tr><td>5+033.95</td><td>5+155.05</td><td>15.00</td><td>15.00</td></tr> <tr><td>5+560.20</td><td>5+660.30</td><td>15.00</td><td>15.00</td></tr> <tr><td>5+667.30</td><td>5+775.00</td><td>15.00</td><td>15.00</td></tr> <tr><td>6+311.05</td><td>6+432.20</td><td>15.00</td><td>15.00</td></tr> <tr><td>6+440.25</td><td>6+568.00</td><td>15.00</td><td>15.00</td></tr> <tr><td>7+107.20</td><td>7+237.70</td><td>17.00</td><td>17.00</td></tr> <tr> <td colspan="2">TOTAL</td><td>212.00</td><td>212.00</td></tr> </table> Estas reducciones son para realizar la conexión del ramal secundario de 1" al conector espiga de 1/2" que le corresponde al riego del arbol	OPERACIONES ARITMETICAS				2+001.70	2+152.15	15.00	15.00	2+670.85	2+794.55	15.00	15.00	2+802.60	2+915.35	15.00	15.00	3+534.30	3+681.25	15.00	15.00	3+704.20	3+809.85	15.00	15.00	4+231.20	4+346.70	15.00	15.00	4+355.25	4+474.85	15.00	15.00	4+994.95	5+025.50	15.00	15.00	5+033.95	5+155.05	15.00	15.00	5+560.20	5+660.30	15.00	15.00	5+667.30	5+775.00	15.00	15.00	6+311.05	6+432.20	15.00	15.00	6+440.25	6+568.00	15.00	15.00	7+107.20	7+237.70	17.00	17.00	TOTAL		212.00	212.00		212.00 piezas
OPERACIONES ARITMETICAS																																																																			
2+001.70	2+152.15	15.00	15.00																																																																
2+670.85	2+794.55	15.00	15.00																																																																
2+802.60	2+915.35	15.00	15.00																																																																
3+534.30	3+681.25	15.00	15.00																																																																
3+704.20	3+809.85	15.00	15.00																																																																
4+231.20	4+346.70	15.00	15.00																																																																
4+355.25	4+474.85	15.00	15.00																																																																
4+994.95	5+025.50	15.00	15.00																																																																
5+033.95	5+155.05	15.00	15.00																																																																
5+560.20	5+660.30	15.00	15.00																																																																
5+667.30	5+775.00	15.00	15.00																																																																
6+311.05	6+432.20	15.00	15.00																																																																
6+440.25	6+568.00	15.00	15.00																																																																
7+107.20	7+237.70	17.00	17.00																																																																
TOTAL		212.00	212.00																																																																

ARQ. GABRIELA PÉREZ HURTADO
SUPERVISOR

ING. JORGE JAIME RODRIGUEZ HERNANDEZ
RESIDENTE

GENERADOR DE ESTIMACION

HOJA: 9/19

CONTRATO : 018/2016		TRAMO:
OBRA : RAMAL SECUNDARIO DE RIEGO PARA SENDA DE		CONTRATISTA: GIL GUADALUPE OCHOA PACHECO
PARQUE TRES PRESAS		

ESTIMACION No. 2 (DOS)	PERIODO : DEL 16 AL 31 DE MARZO DE 2016	CROQUIS	VOLUMEN A PAGAR		
CLAVE: 1.09			191.00 piezas		
CONCEPTO:					
SUMINISTRO E INSTALACION DE					
REDUCCION LISA DE 1 1/2 A 1/2					
PULGADAS COMPUESTA					
OPERACIONES ARITMETICAS					
2+152.15	2+271.70			15.00	15.00
2+544.05	2+670.85			15.00	15.00
2+915.35	3+040.00			6.00	6.00
3+415.85	3+534.30			15.00	15.00
3+809.85	3+880.10			11.00	11.00
4+113.65	4+231.20			15.00	15.00
4+474.85	4+581.00			15.00	15.00
4+945.85	4+994.95			12.00	12.00
5+155.05	5+220.00			12.00	12.00
5+460.10	5+560.20			15.00	15.00
5+775.00	5+888.70			15.00	15.00
6+199.50	6+311.05	15.00	15.00		
6+568.00	6+689.15	15.00	15.00		
6+987.25	7+107.20	15.00	15.00		
TOTAL		191.00			
Estas reducciones son para realizar la conexión del ramal secundario de 1 1/2" al conector espiga de 1/2" que le corresponde al riego del arbol					

ING. JORGE JAIME RODRIGUEZ HERNANDEZ
RESIDENTE

ARO. GABRIELA FLOREZ MURTADO
SUPERVISOR

GENERADOR DE ESTIMACION

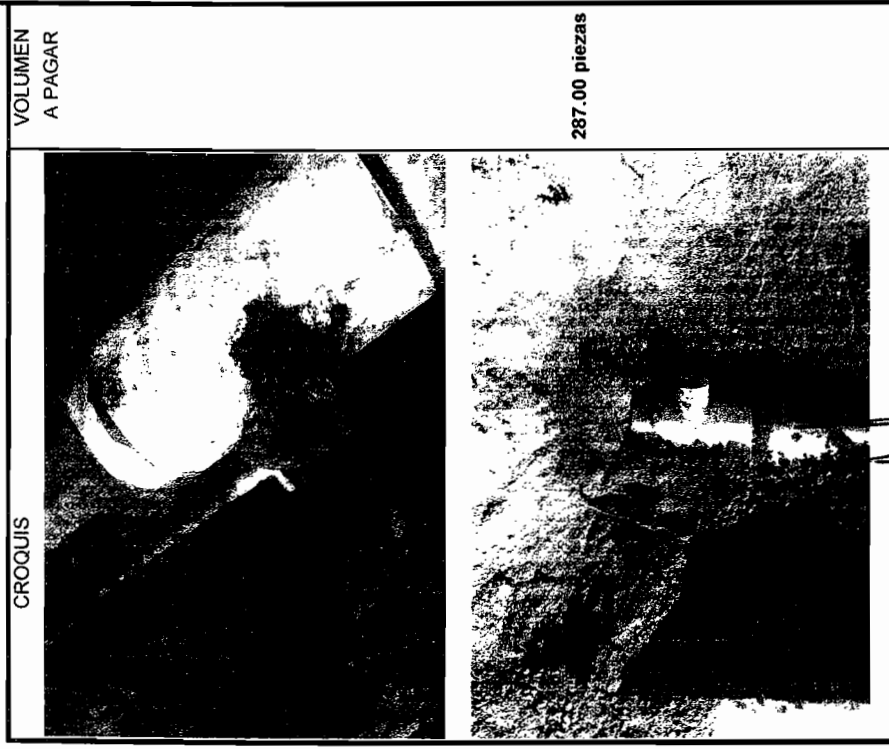
HOJA: 10 / 19

CONTRATO : 018/2016	TRAMO:
OBRA : RAMAL SECUNDARIO DE RIEGO PARA SENDA DE	CONTRATISTA: GIL GUADALUPE OCHOA PACHECO
PARQUE TRES PRESAS	

ESTIMACION No. 2 (DOS)	PERIODO : DEL 16 AL 31 DE MARZO DE 2016
------------------------	---

CLAVE: 1.10	OPERACIONES ARITMETICAS			
CONCEPTO: SUMINISTRO E INSTALACION DE REDUCCION LISA DE 2 A 1/2 PULGADAS COMPUESTA.	2+271.70	2+381.95	20.00	20.00
	2+381.95	2+544.05	20.00	20.00
	3+040.00	3+269.00	24.00	24.00
	3+269.00	3+415.85	20.00	20.00
	3+880.10	3+975.30	16.00	16.00
	3+975.30	4+113.65	20.00	20.00
	4+581.00	4+782.55	24.00	24.00
	4+782.55	4+945.85	20.00	20.00
	5+220.00	5+343.80	18.00	18.00
	5+343.80	5+460.10	20.00	20.00
	5+888.70	6+037.70	20.00	20.00
	6+037.70	6+199.50	24.00	24.00
	6+689.15	6+830.80	20.00	20.00
	6+830.80	6+987.25	21.00	21.00
	TOTAL			287.00

Estas reducciones son para realizar la conexión del ramal secundario de 2" al conector espiga de 1/2" que le corresponde al riego del arbol



287.00 piezas

ING. JORGE JAIME RODRIGUEZ HERNANDEZ
RESIDENTE

ARQ. GABRIELA FLORES MORTADO
SUPERVISOR

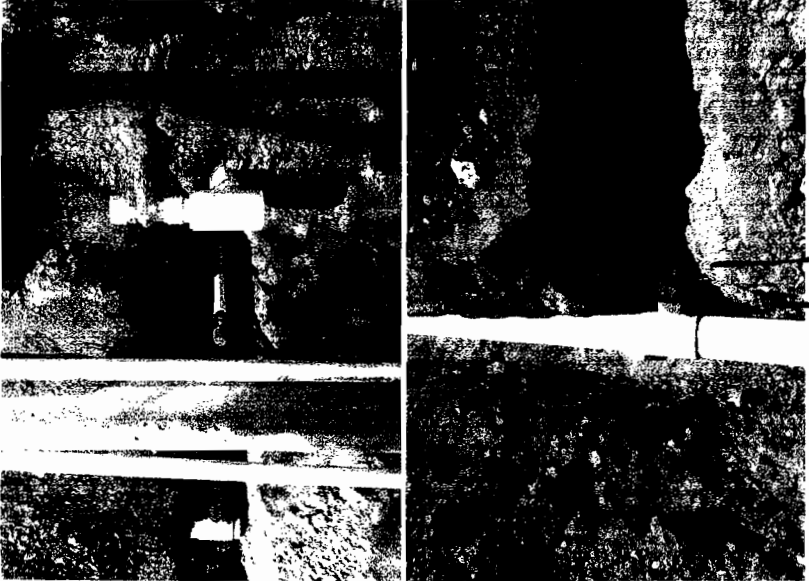
GENERADOR DE ESTIMACION

HOJA: 11 / 19

CONTRATO : 018/2016	TRAMO:
OBRA : RAMAL SECUNDARIO DE RIEGO PARA SENDA DE	CONTRATISTA: GIL GUADALUPE OCHOA PACHECO
PARQUE TRES PRESAS	

ESTIMACION No. 2 (DOS)	PERIODO : DEL 16 AL 31 DE MARZO DE 2016
------------------------	---

CLAVE: 1.11	OPERACIONES ARITMETICAS																								
CONCEPTO: SUMINISTRO E INSTALACION DE REDUCCION LISA DE 3 A 2 PULGADAS.	<table border="1"> <tr><td>2+271.70</td><td>2.00</td><td>2.00</td></tr> <tr><td>3+040.00</td><td>2.00</td><td>2.00</td></tr> <tr><td>3+880.10</td><td>2.00</td><td>2.00</td></tr> <tr><td>4+581.00</td><td>2.00</td><td>2.00</td></tr> <tr><td>5+220.00</td><td>2.00</td><td>2.00</td></tr> <tr><td>5+888.70</td><td>2.00</td><td>2.00</td></tr> <tr><td>6+689.15</td><td>2.00</td><td>2.00</td></tr> <tr><td>TOTAL</td><td>14.00</td><td></td></tr> </table> Esta reduccion es para realizar la conexión de la línea secundaria de 2 con la red de 3". Hay dos valvulas que dividen el riego en dos direcciones, razon por la cual se estan considerando 2 reducciones	2+271.70	2.00	2.00	3+040.00	2.00	2.00	3+880.10	2.00	2.00	4+581.00	2.00	2.00	5+220.00	2.00	2.00	5+888.70	2.00	2.00	6+689.15	2.00	2.00	TOTAL	14.00	
2+271.70	2.00	2.00																							
3+040.00	2.00	2.00																							
3+880.10	2.00	2.00																							
4+581.00	2.00	2.00																							
5+220.00	2.00	2.00																							
5+888.70	2.00	2.00																							
6+689.15	2.00	2.00																							
TOTAL	14.00																								

CROQUIS	VOLUMEN A PAGAR
	14.00 piezas

ING. JORGE JAIME RODRIGUEZ HERNANDEZ
RESIDENTE

ARQ. GABRIELA FLORES HURTADO
SUPERVISOR

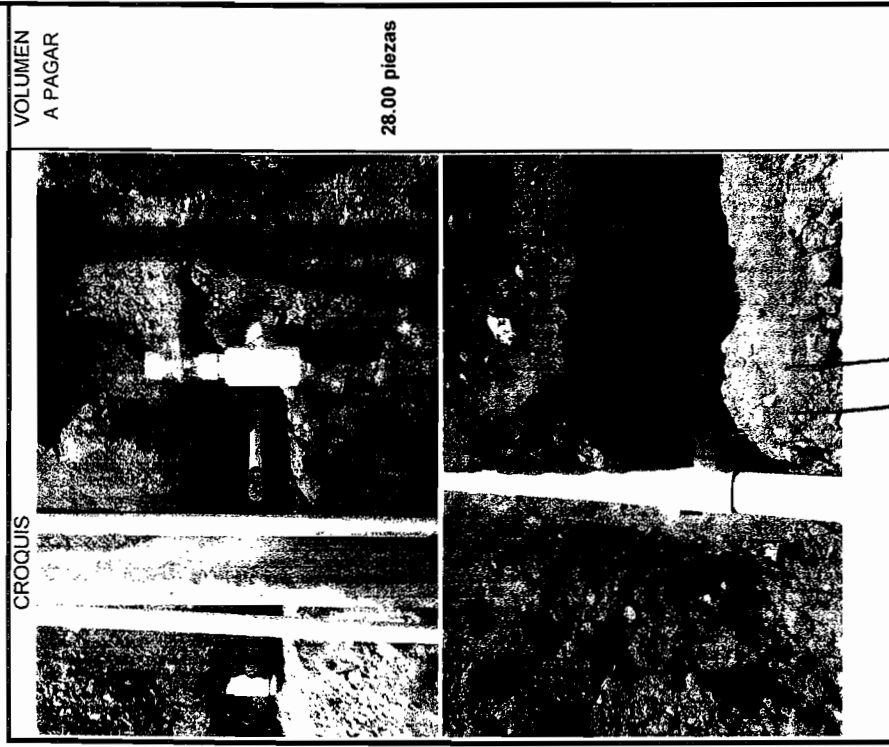
HOJA: 12 / 19

CONTRATO : 018/2016	TRAMO:
OBRA : RAMAL SECUNDARIO DE RIEGO PARA SENDA DE PARQUE TRES PRESAS	CONTRATISTA: GIL GUADALUPE OCHOA PACHECO

ESTIMACION No. 2 (DOS)	PERIODO : DEL 16 AL 31 DE MARZO DE 2016
------------------------	---

CLAVE: 1.12	OPERACIONES ARITMETICAS			
CONCEPTO:				
SUMINISTRO E INSTALACION DE ADAPTADOR MACHO DE 2 PULGADAS E INSTALACION.	2+271.70	2.00	2.00	4.00
	3+040.00	2.00	2.00	4.00
	3+880.10	2.00	2.00	4.00
	4+581.00	2.00	2.00	4.00
	5+220.00	2.00	2.00	4.00
	5+888.70	2.00	2.00	4.00
	6+689.15	2.00	2.00	4.00
	TOTAL			28.00

Este adaptador es para realizar la conexión de la válvula de control a la tubería de 2 pulgadas, se requiere dos adaptadores por cada válvula.



ARQ. GABRIELA FLORES HURTADO
SUPERVISOR

ING. JORGE JAIME RODRIGUEZ HERNANDEZ
RESIDENTE

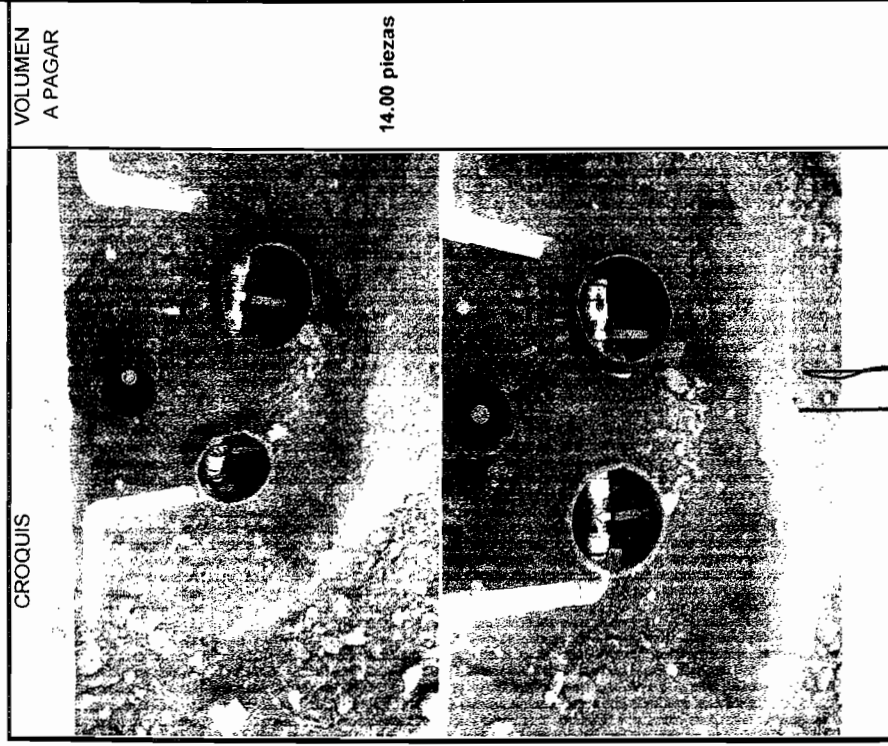
GENERADOR DE ESTIMACION

HOJA: 13 / 19

CONTRATO : 018/2016	TRAMO:
OBRA : RAMAL SECUNDARIO DE RIEGO PARA SENDA DE PARQUE TRES PRESAS	CONTRATISTA: GIL GUADALUPE OCHOA PACHECO

ESTIMACION No. 2 (DOS)	PERIODO : DEL 16 AL 31 DE MARZO DE 2016
------------------------	---

CLAVE: 1.13 CONCEPTO: SUMINISTRO E INSTALACION DE VALVULA DE BRONCE DE 2 PULGADAS.	OPERACIONES ARITMETICAS	
	2+271.70	2.00
	3+040.00	2.00
	3+880.10	2.00
	4+581.00	2.00
	5+220.00	2.00
	5+888.70	2.00
	6+689.15	2.00
TOTAL		14.00
Esta valvula es para el control a la tuberia de 2 pulgadas.		



ARQ. GABRIELA FLOREZ HURTADO
SUPERVISOR

ING. JORGE JAIME RODRIGUEZ HERNANDEZ
RESIDENTE

GENERADOR DE ESTIMACION

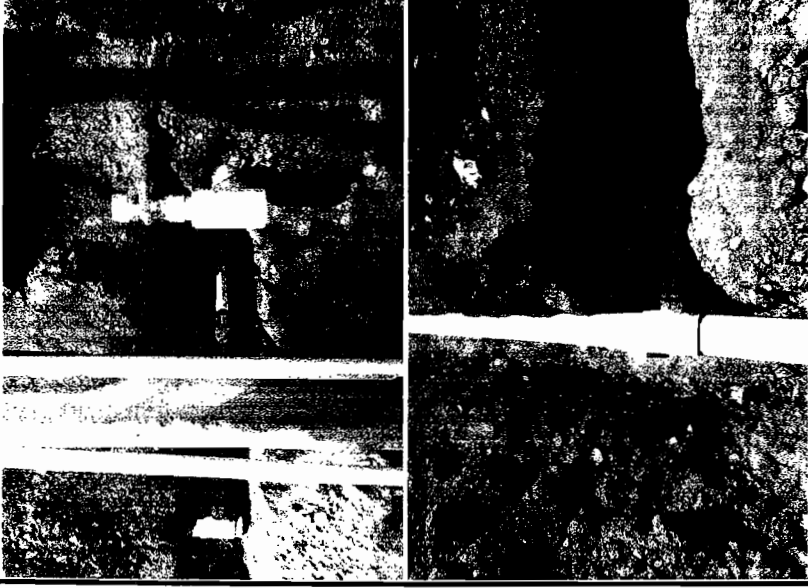
HOJA: 14 / 19

CONTRATO : 018/2016	TRAMO:
OBRA : RAMAL SECUNDARIO DE RIEGO PARA SENDA DE	CONTRATISTA: GIL GUADALUPE OCHOA PACHECO
PARQUE TRES PRESAS	

ESTIMACION No. 2 (DOS)	PERIODO : DEL 16 AL 31 DE MARZO DE 2016
------------------------	---

CLAVE: 1.14	OPERACIONES ARITMETICAS			
CONCEPTO:				
SUMINISTRO E INSTALACION DE				
REGISTRO DE 10 PLG DE RIEGO.				
	2+271.70	2.00	1.00	2.00
	3+040.00	2.00	1.00	2.00
	3+880.10	2.00	1.00	2.00
	4+581.00	2.00	1.00	2.00
	5+220.00	2.00	1.00	2.00
	5+888.70	2.00	1.00	2.00
	6+689.15	2.00	1.00	2.00
	TOTAL			14.00

Este registro es para la ubicación de la válvula, protección y para protección de que se vaya a enterrar con la tierra del arbol.

CROQUIS	VOLUMEN A PAGAR
	14.00 piezas

ARQ. GABRIELA FLORES HURTADO
SUPERVISOR

ING. JORGE JAIME RODRIGUEZ HERNANDEZ
RESIDENTE

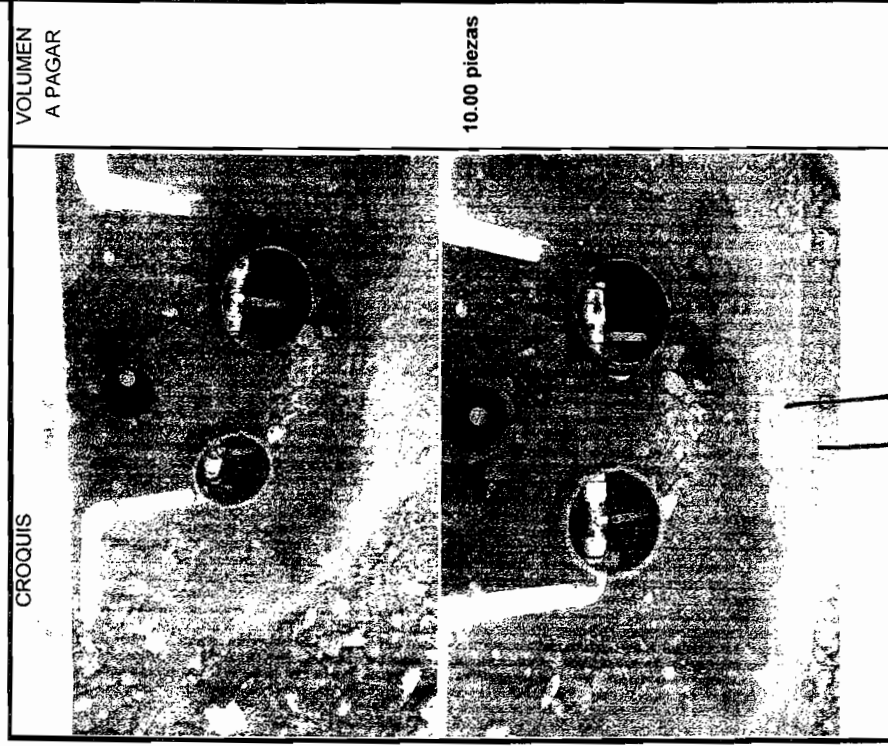
GENERADOR DE ESTIMACION

HOJA: 15 / 19

CONTRATO : 018/2016	TRAMO:
OBRA : RAMAL SECUNDARIO DE RIEGO PARA SENDA DE PARQUE TRES PRESAS	CONTRATISTA: GIL GUADALUPE OCHOA PACHECO

ESTIMACION No. 2 (DOS)	PERIODO : DEL 16 AL 31 DE MARZO DE 2016
------------------------	---

CLAVE: 1.26	OPERACIONES ARITMETICAS			
CONCEPTO: SUMINISTRO E INSTALACION DE VALVULA EXPULSORA DE AIRE DE 1", INCLUYE TODO LO NECESARIO PARA SU CORRECTA COLOCACION	0+212.45	1.00	1.00	
	0+615.80	1.00	1.00	
	1+439.05	1.00	1.00	
	2+271.70	1.00	1.00	
	3+040.00	1.00	1.00	
	3+880.10	1.00	1.00	
	4+581.00	1.00	1.00	
	5+220.00	1.00	1.00	
	5+888.70	1.00	1.00	
	6+689.15	1.00	1.00	
	TOTAL			10.00
Va una valvula expulsora al entrar la tubería de 3" y antes de dividirse en 2 valvulas				



10.00 piezas

ARQ. GABRIELA PEREZ HURTADO
SUPERVISOR

ING. JORGE JAIME RODRIGUEZ HERNANDEZ
RESIDENTE

GENERADOR DE ESTIMACION

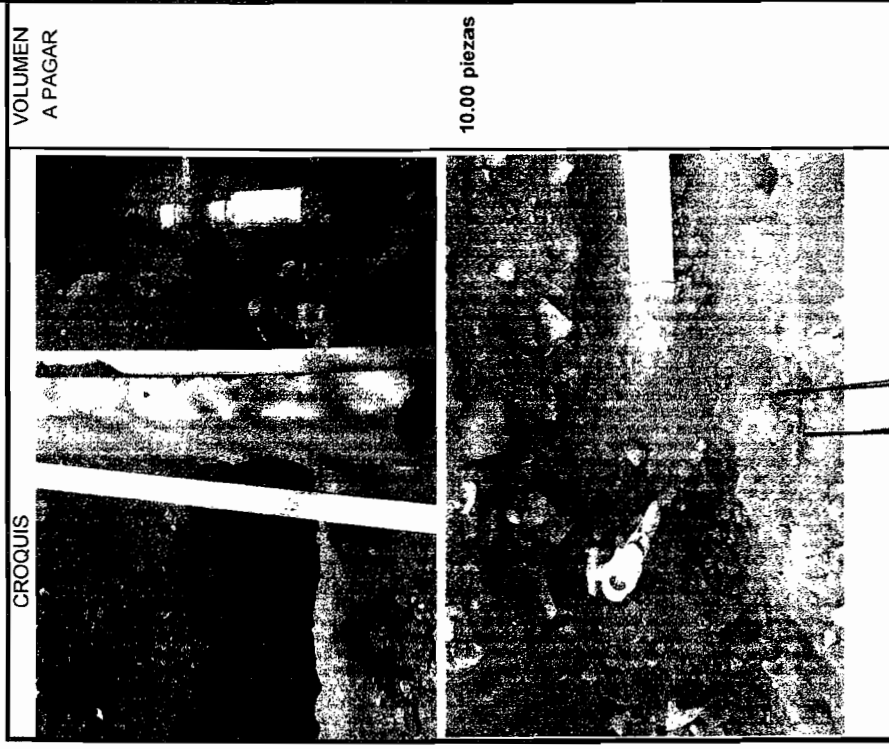
HOJA: 16 / 19

CONTRATO : 018/2016	TRAMO:
OBRA : RAMAL SECUNDARIO DE RIEGO PARA SENDA DE PARQUE TRES PRESAS	CONTRATISTA: GIL GUADALUPE OCHOA PACHECO

ESTIMACION No. 2 (DOS)	PERIODO : DEL 16 AL 31 DE MARZO DE 2016
------------------------	---

CLAVE: 1.27	OPERACIONES ARITMETICAS			
CONCEPTO: SUMINISTRO E INSTALACION DE REDUCCION LISA DE PVC HIDRAULICO, DE 3" A 1"	0+212.45	1.00	1.00	1.00
	0+615.80	1.00	1.00	1.00
	1+439.05	1.00	1.00	1.00
	2+271.70	1.00	1.00	1.00
	3+040.00	1.00	1.00	1.00
	3+880.10	1.00	1.00	1.00
	4+581.00	1.00	1.00	1.00
	5+220.00	1.00	1.00	1.00
	5+888.70	1.00	1.00	1.00
	6+689.15	1.00	1.00	1.00
TOTAL		10.00	10.00	10.00

Va una valvula expulsora al entrar la tubería de 3" y antes de dividirse en 2 valvulas



VOLUMEN
A PAGAR

10.00 piezas

[Handwritten signature]

ARQ. GABRIELA FLORES HURTADO
SUPERVISOR

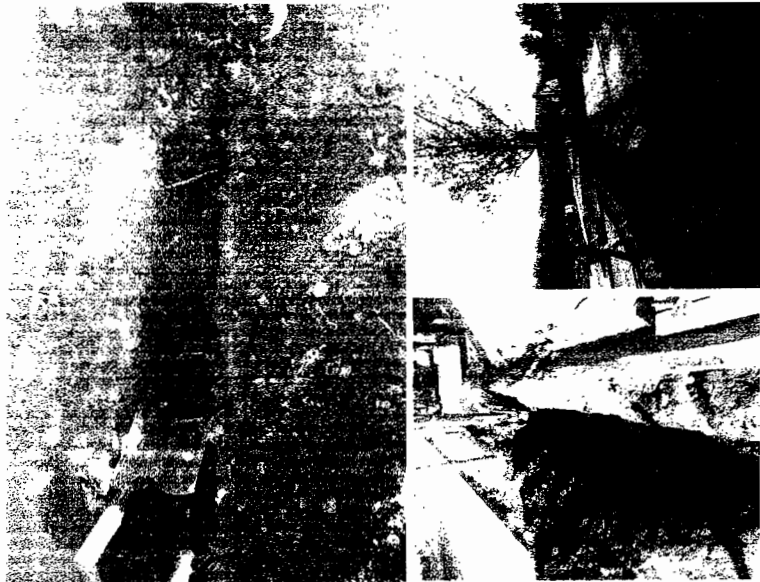
[Handwritten signature]

ING. JORGE JAIME RODRIGUEZ HERNANDEZ
RESIDENTE

GENERADOR DE ESTIMACION

HOJA: 17 / 19

CONTRATO : 018/2016	TRAMO:
OBRA : RAMAL SECUNDARIO DE RIEGO PARA SENDA DE PARQUE TRES PRESAS	CONTRATISTA: GIL GUADALUPE OCHOA PACHECO

ESTIMACION No. 2 (DOS)	PERIODO : DEL 16 AL 31 DE MARZO DE 2016	CROQUIS	VOLUMEN A PAGAR																																																																																
CLAVE: 1.28 CONCEPTO: EXCAVACION MANUAL PARA INSTALACION DE LINEA SECUNDARIA, ESTO CON EL FIN DE PROTEGER LAS GUARNICIONES Y LAS RAICES DE LOS ENCINOS QUE YA ESTAN SEMBRADOS, ANCHO DE LA EXCAVACION DE 20 CMS X 30 CMS			5,172.95 m																																																																																
<table><tr><th colspan="5">OPERACIONES ARITMETICAS</th></tr><tr><td></td><td>2+001.70</td><td>2+381.95</td><td>380.25</td><td></td></tr><tr><td></td><td>2+381.95</td><td>2+794.55</td><td>412.60</td><td></td></tr><tr><td></td><td>2+802.60</td><td>3+269.00</td><td>466.40</td><td></td></tr><tr><td></td><td>3+269.00</td><td>3+681.25</td><td>412.25</td><td></td></tr><tr><td></td><td>3+704.20</td><td>3+975.30</td><td>271.10</td><td></td></tr><tr><td></td><td>3+975.30</td><td>4+346.70</td><td>371.40</td><td></td></tr><tr><td></td><td>4+355.25</td><td>4+782.55</td><td>427.30</td><td></td></tr><tr><td></td><td>4+782.55</td><td>5+025.50</td><td>242.95</td><td></td></tr><tr><td></td><td>5+033.95</td><td>5+343.80</td><td>309.85</td><td></td></tr><tr><td></td><td>5+343.80</td><td>5+660.30</td><td>316.50</td><td></td></tr><tr><td></td><td>5+667.30</td><td>6+037.70</td><td>370.40</td><td></td></tr><tr><td></td><td>6+037.70</td><td>6+432.20</td><td>394.50</td><td></td></tr><tr><td></td><td>6+440.25</td><td>6+830.80</td><td>390.55</td><td></td></tr><tr><td></td><td>6+830.80</td><td>7+237.70</td><td>406.90</td><td></td></tr><tr><td></td><td colspan="2">TOTAL</td><td>5,172.95</td><td></td></tr></table>				OPERACIONES ARITMETICAS						2+001.70	2+381.95	380.25			2+381.95	2+794.55	412.60			2+802.60	3+269.00	466.40			3+269.00	3+681.25	412.25			3+704.20	3+975.30	271.10			3+975.30	4+346.70	371.40			4+355.25	4+782.55	427.30			4+782.55	5+025.50	242.95			5+033.95	5+343.80	309.85			5+343.80	5+660.30	316.50			5+667.30	6+037.70	370.40			6+037.70	6+432.20	394.50			6+440.25	6+830.80	390.55			6+830.80	7+237.70	406.90			TOTAL		5,172.95	
OPERACIONES ARITMETICAS																																																																																			
	2+001.70	2+381.95	380.25																																																																																
	2+381.95	2+794.55	412.60																																																																																
	2+802.60	3+269.00	466.40																																																																																
	3+269.00	3+681.25	412.25																																																																																
	3+704.20	3+975.30	271.10																																																																																
	3+975.30	4+346.70	371.40																																																																																
	4+355.25	4+782.55	427.30																																																																																
	4+782.55	5+025.50	242.95																																																																																
	5+033.95	5+343.80	309.85																																																																																
	5+343.80	5+660.30	316.50																																																																																
	5+667.30	6+037.70	370.40																																																																																
	6+037.70	6+432.20	394.50																																																																																
	6+440.25	6+830.80	390.55																																																																																
	6+830.80	7+237.70	406.90																																																																																
	TOTAL		5,172.95																																																																																

ING. JORGE JAIME RODRIGUEZ HERNANDEZ
RESIDENTE

ARQ. GABRIELA ELIZABETH HURTADO
SUPERVISOR

GENERADOR DE ESTIMACION

HOJA: 18 / 19

CONTRATO : 018/2016		TRAMO:
OBRA : RAMAL SECUNDARIO DE RIEGO PARA SENDA DE PARQUE TRES PRESAS		CONTRATISTA: GIL GUADALUPE OCHOA PACHECO

ESTIMACION N°. 2 (DOS)	PERIODO : DEL 16 AL 31 DE MARZO DE 2016
------------------------	---

CLAVE: 1.30 CONCEPTO: SUMINISTRO E INSTALACION DE BOMBA ALTAMIRA MODELO KOR32RS00-5, SUMERGIBLE DE ACERO INOXIDABLE PARA 32 LPS, DE 50 HP, CON MOTOR ALTAMIRA MODELO MSR6 503460 DE 50 HP.	OPERACIONES ARITMETICAS <table border="1"> <tr> <td>1.00</td> <td>1.00</td> </tr> <tr> <td>TOTAL</td> <td>1.00</td> </tr> </table> Bomba instalada en tanque de almacenamiento en parque el Reliz.	1.00	1.00	TOTAL	1.00
1.00	1.00				
TOTAL	1.00				

CROQUIS	VOLUMEN A PAGAR 1.00 pieza
----------------	--

ING. JORGE JAIME RODRIGUEZ HERNANDEZ
RESIDENTE

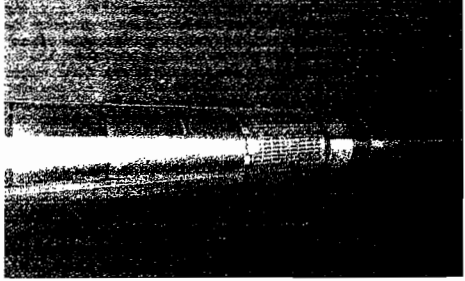
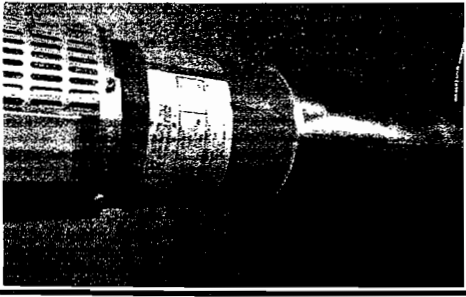
ARQ. GABRIELA FLORES HURTADO
SUPERVISOR

GENERADOR DE ESTIMACION

HOJA: 19 / 19

CONTRATO : 018/2016		TRAMO:
OBRA : RAMAL SECUNDARIO DE RIEGO PARA SENDA DE PARQUE TRES PRESAS		CONTRATISTA: GIL GUADALUPE OCHOA PACHECO

ESTIMACION No. 2 (DOS)	PERIODO : DEL 16 AL 31 DE MARZO DE 2016
------------------------	---

CLAVE: 1.31 CONCEPTO: FABRICACION DE TREN DE SUCCION PARA BOMBA, A INSTALARSE EN TANQUE DE PARQUE EL RELIZ, A BASE DE 2.00 METROS TUBO NEGRO DE 6", CEDULA 40. INCLUYE: 2 PIEZAS DE COPILE ESTANDAR DE 6", 1 TEE DE 6" AC SOLDABLE CEDULA 40, 4 BRIDAS DE AC FORJ DE 6", NIPLE NEGRO C/C CEDULA 40 4X6", Y TODO LO NECESARIO PARA SU CORRECTA COLOCACION.	OPERACIONES ARITMETICAS <table border="1"> <tr> <td>1.00</td> <td>1.00</td> </tr> <tr> <td>TOTAL</td> <td>1.00</td> </tr> </table> Bomba instalada en tanque de almacenamiento en parque el Reliz. 	1.00	1.00	TOTAL	1.00	CROQUIS  VOLUMEN A PAGAR 1.00 pieza
1.00	1.00					
TOTAL	1.00					

ARQ. GABRIELA FLORES HURTADO
SUPERVISOR

ING. JORGE JAIME RODRIGUEZ HERNANDEZ
RESIDENTE