CENTRAL U.P. GAS LIMITED

(CITY GAS PROJECT IN KANPUR, BAREILLY & JHANSI)

BID DOCUMENT FOR RATE CONTRACT FOR THE CS PIPELINE LAYING AND ASSOCIATED WORKS IN BAREILLY GA FOR CITY GAS DISTRIBUTION PROJECT OF M/S. CENTRAL U. P. GAS LIMITED, FOR THE PERIOD OF 02 YEARS

BID DOCUMENT NO : CUGL/C&P/TEN2627/23

THROUGH E-TENDERING MODE

OPEN DOMESTIC COMPETITIVE BIDDING

TECHNICAL DOCUMENTATION
TECHNICAL, VOI. II OF II, PART-II

VOID

LAYING OF 3 LPE COATED CARBON STEEL PIPELINE IN BAREILLY GA IN THE STATE OF UP

S.NO.	DESCRIPTION	DOCUMENT / DRAWING No.	REV. No.	PAGES	PAGE No.
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31.16	PIPING GENERAL ARRANGEMENT DRAWING FOR 4" SV VALVE CHAMBER WITH VENT AND WITH TAP OFF ARRANGEMENT FOR BAREILLY GA	G 20749 M151	0	1	335
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31.19	PIPING GENERAL ARRANGEMENT DRAWING FOR 6" SV VALVE CHAMBER WITH VENT AND WITH TAP OFF ARRANGEMENT FOR BAREILLY GA	G 20749 M151	0	1	338
31.20	PIPING GENERAL ARRANGEMENT DRAWING FOR 6" SV VALVE CHAMBER WITH VENT ARRANGEMENT FOR BAREILLY GA	G 20749 M151	0	1	339
31.21	PIPING GENERAL ARRANGEMENT DRAWING FOR 6" TAP OFF CHAMBER ARRANGEMENT FOR BAREILLY GA	G 20749 M151	0	1	340
31.22	TYPICAL DETAIL OF FENCING	G 21028 004	0	1	341
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31.29	TYPICAL DETAILS FOR 4" SV VALVE CHAMBER WITH VENT ARRANGEMENT FOR BAREILLY GA	G 20730 011	A	1	348
31.30	TYPICAL DETAILS FOR 4" TAP-OFF CHAMBER ARRANGEMENT FOR BAREILLY GA	G 20730 012	A	1	349
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31.33	TYPICAL DETAILS FOR 6" TAP-OFF CHAMBER ARRANGEMENT FOR BAREILLY GA	G 20730 015	A	1	352
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31.35	FABRICATION & INSTALLATION DETAILS OF CuCuSO4 REFERENCE ELECTRODES	GGNG-E-20712-322	0	1	354
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TYPE-1

TYPE-2

TYPE-3

Drawn Checked Approved
Validated

TYPICAL ROAD CASED CROSSING (B+C)
TYPE - I
SEPARATE CASING FOR CARRIER AND OF

Siz

Scale Sheet
NTS 01 of 01

Drawing No. Rev.
GGNG-D-20707-004-A 1

Rev.	D M Y	Modifications	Drawn	Checked	Approved	Validated

Drawing No. Rev.

GGNG-D-20707-004-BSUBJECT

1

Rev.	D M Y	Modifications	Drawn	Checked	Approved	Validated

SUBJECT

TYPICAL MECHANICAL PROTECTION
CONCRETE SLAB DETAILS

Size	Scale	Sheet
A3	NTS	01 of 01

Drawing No. GGNG-D-20707-007

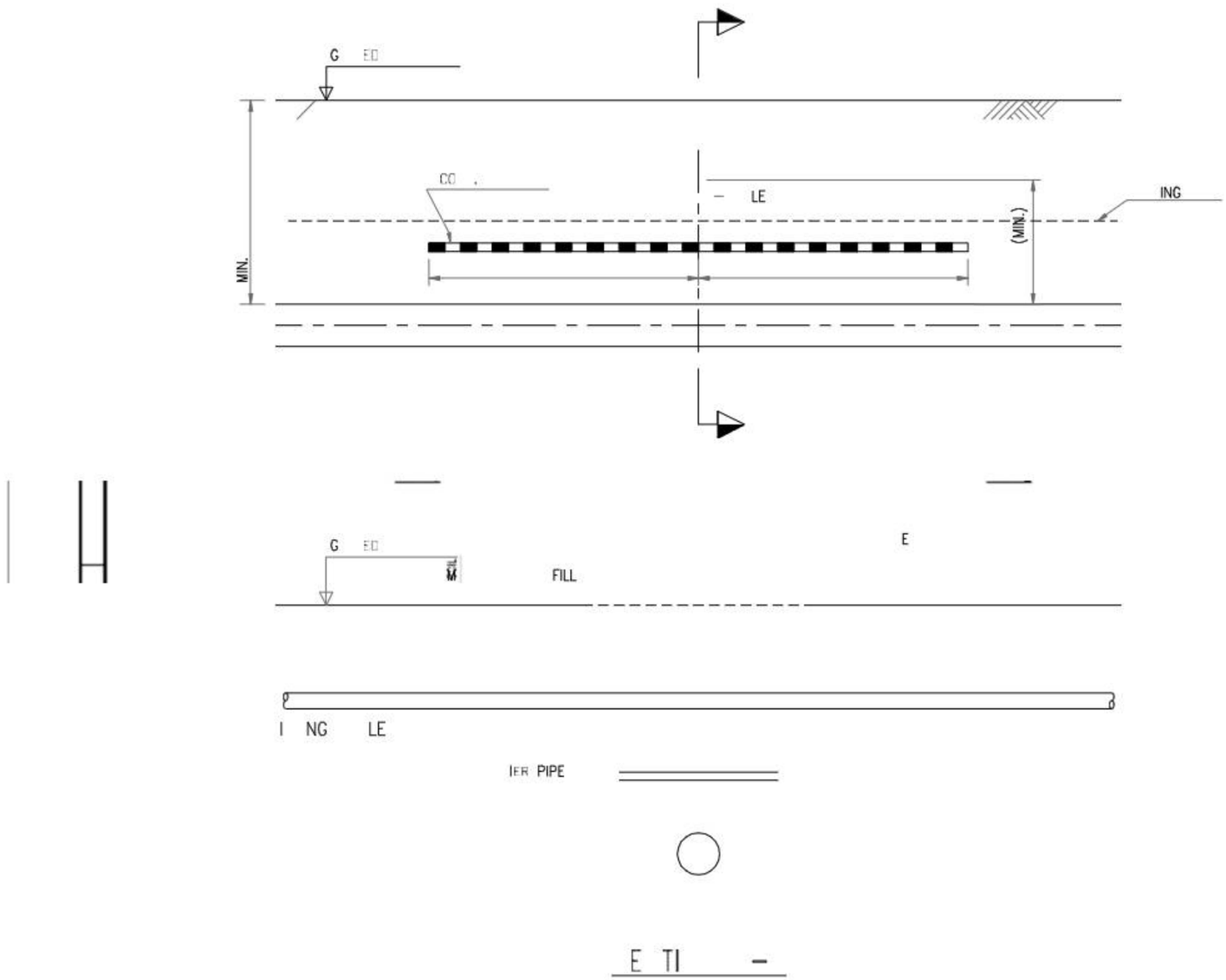
Rev. 0

Rev.	D M Y	Modifications	Drawn	Checked	Approved	Validated

SUBJECT

TYPICAL UNDERGROUND
CABLE CROSSING DETAILS

Size



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Scale	Sheet
NTS	01 of 01

Drawing No. GGNG-D-20707-008 Rev. 0

OVERHEAD POWER LINE
CROSSING DETAILS

TYPE-3

0	16.04.21	APPROVED FOR CONSTRUCTION.	KS	MKS	MS	KNS

Size	Scale	Sheet
A3	NTS	01 of 01

Drawing No. GGNG-D-20707-009 Rev. 0

Rev.	D M Y	Modifications	Drawn	Checked	Approved	Validated

SUBJECT

TYPICAL CONCRETE COATING FOR
MECHANICAL PROTECTION

Size

3

Scale	Sheet
NTS	01 of 01

Drawing No.	Rev.
GGNG-D-20707-010	0

TRACTEBEL Engineering pvt. ltd.

SECTION A-A

SUBJECT TYPICAL RAILWAY CASED CROSSING (B+C)

TYPE-I

SEPARATE CSING FOR CARRIER AND OFC

Size	Scale	Sheet
A3	NTS	01 of 01

Drawing No.	Rev.
GGNG-D-20707-012-A	1

TRACTEBEL Engineering pvt. ltd.

TYPICAL RAILWAY CASED CROSSING (B+C)
TYPE-II

Rev. D M Y

COMMON CSING - OFC BUNDLED WITH CARRIER (WITHOUT CS CONDUIT)

Size	Scale	Sheet
A3	NTS	01 of 01

Drawing No. GGNG-D-20707-012-B

Rev. 1

TRACTEBEL Engineering pvt. ltd.

TYPICAL EXISTING PIPE LINE CROSSING

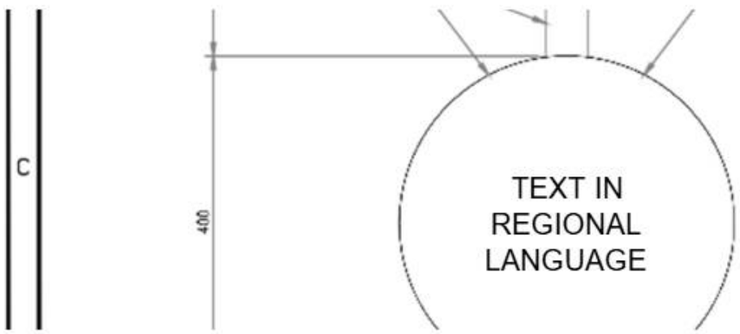
Size	Scale	Sheet
A3	NTS	01 of 01

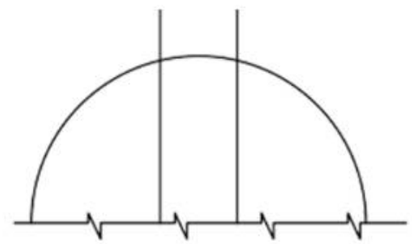
Drawing No. GGNG-D-20707-014 Rev. 0

TRACTEBEL Engineering pvt. ltd.

FIXING DETAILS

WARNING



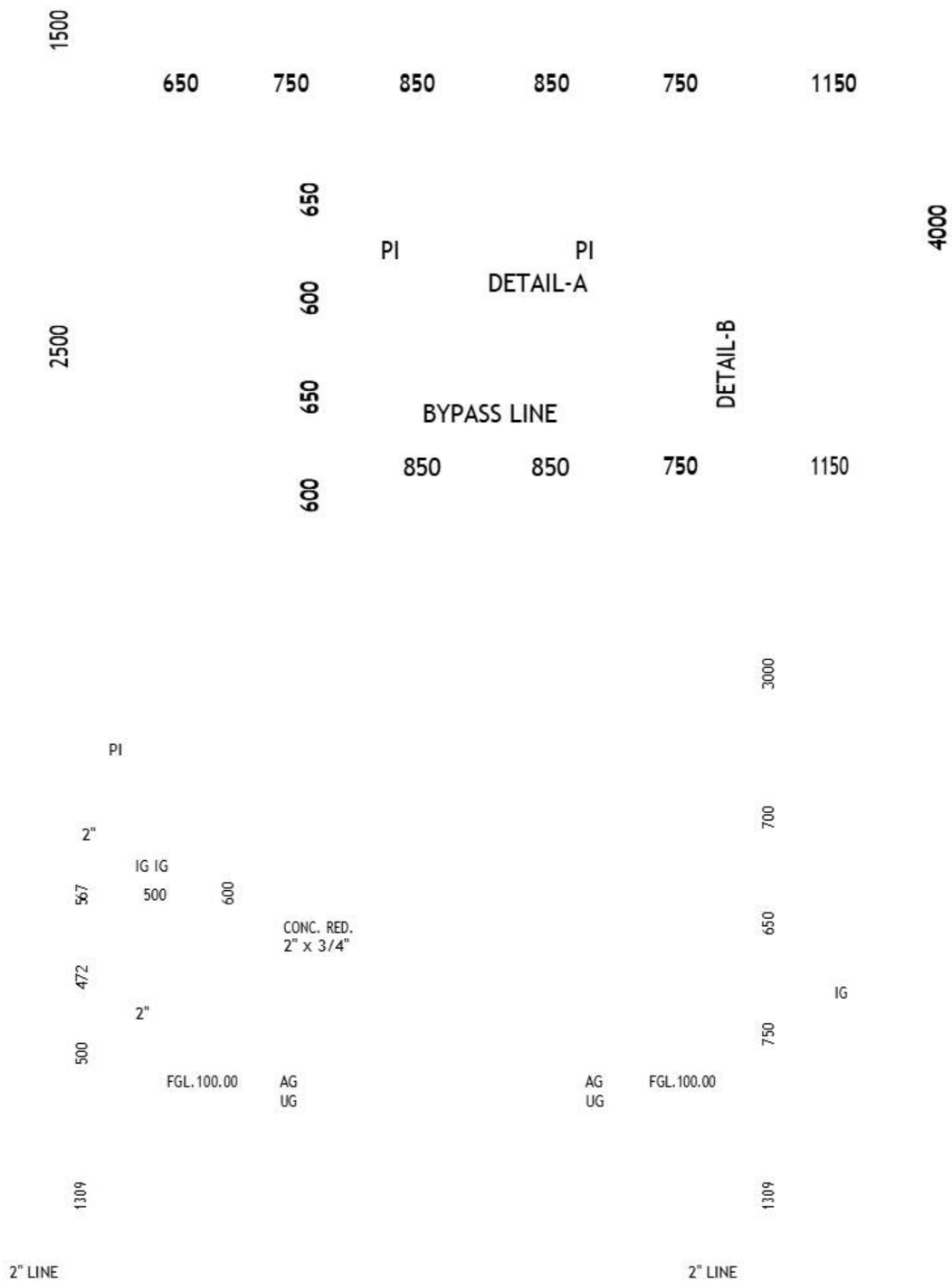


SUBJECT

POLE MARKER WITH FOUNDATION

Size	Scale	Sheet		
A3	NTS	01	of	01

Drawing No. GGNG-D-20707-053 Rev. 0



REFERENCE DRAWING

S. NO.	DRAWING TITLE	DRAWING NO.
1	-	-

NOTES

1. ALL DIMENSIONS ARE IN MM OR LEVELS ARE IN M.
2. DRAWING ARE INDICATED & SUBJECT TO CHANGE DURING DETAIL ENGG.
3. LAYING OF PIPELINE AND STATION PIPING, VENDOR SHALL MAINTAIN SPECIFIED COVER OF PIPELINE.
4. MAINLINE VALVE IS ACTUATED VALVE.
5. ALL UG VALVE AND BURRIED VALVES WHICH WILL BE OPERATED FROM GROUND LEVEL. HENCE MAINLINE & BYPASS LINE VALVE IS LONG STEM EXTENDED VALVES.

LEGENDS

BALL VALVE
GLOBE VALVE
TIE-IN POINT
CENTER LINE OF PIPE
CENTER LINE OF PIPE

NG - NATURAL GAS PIPELINE

MAIN LINE	BYPASS LINE	BRANCH CONNECTION	REMARKS
4"	NO BYPASS LINE	-	-
6"	2"	WELDOLET	-
8"	2"	WELDOLET	-
10"	4"	WELDOLET	-
12"	4"	WELDOLET	-
16"	6"	WELDOLET	-

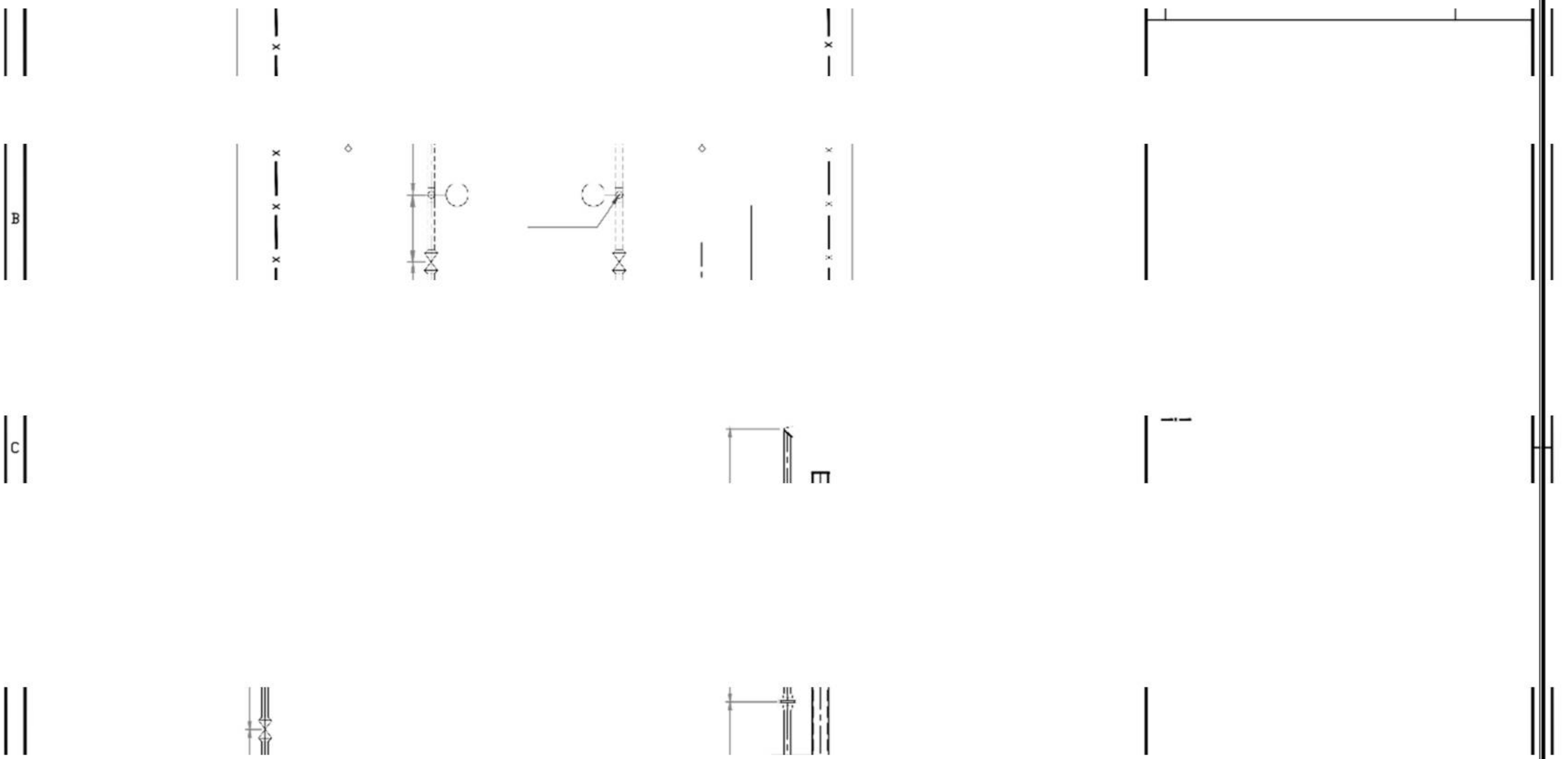
CUSTOMER CENTRAL U. P. GAS LIMITED

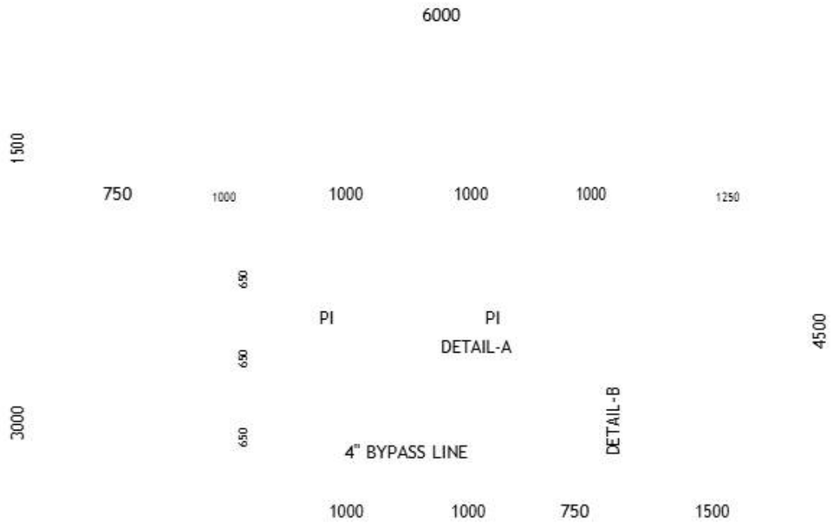
PROJECT CITY GAS DISTRIBUTION PROJECT

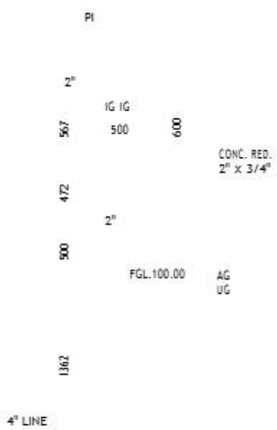
SUBJECT PIPING GENERAL ARRANGEMENT DRAWING
FOR SV STATION WITH VENTING ARRANGEMENT
(LONG STEM EXTENDED ACTUATED VALVES)

Size Scale Sheet Rev.

A3	1:35	1 of 2	0
Project No.	Discipline Code	System Code	Serial No.
TRACTEBEL Engineering pvt. ltd. P.014714	G	20749	004







DETAIL-A

DETAIL-B

REFERENCE DRAWING

S. NO.	DRAWING TITLE	DRAWING NO.
1	-	-

NOTES

1. ALL DIMENSIONS ARE IN MM OR LEVELS ARE IN M.
2. DRAWING ARE INDICATED & SUBJECT TO CHANGE DURING DETAIL ENGG.
3. LAYING OF PIPELINE AND STATION PIPING, VENDOR SHALL MAINTAIN SPECIFIED COVER OF PIPELINE.
4. MAINLINE VALVE IS ACTUATED VALVE.
5. ALL UG VALVE AND BURRIED VALVES WHICH WILL BE OPERATED FROM GROUND LEVEL. HENCE MAINLINE & BYPASS LINE VALVE IS LONG STEM EXTENDED VALVES.

LEGENDS

BALL VALVE	NG - NATURAL GAS PIPELINE
GLOBE VALVE	
TIE-IN POINT	
CENTER LINE OF PIPE	
CENTER LINE OF PIPE	

MAIN LINE	BYPASS LINE	BRANCH CONNECTION	REMARKS
4"	NO BYPASS LINE	-	-
6"	2"	WELDOLET	-
8"	2"	WELDOLET	-
10"	4"	WELDOLET	-
12"	4"	WELDOLET	-
16"	6"	WELDOLET	-

Rev.	D M Y	Modifications	Drawn	Checked	Approved
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PROJECT CITY GAS DISTRIBUTION PROJECT

SUBJECT PIPING GENERAL ARRANGEMENT DRAWING
FOR SV STATION WITH VENTING ARRANGEMENT
(LONG STEM EXTENDED ACTUATED VALVES)

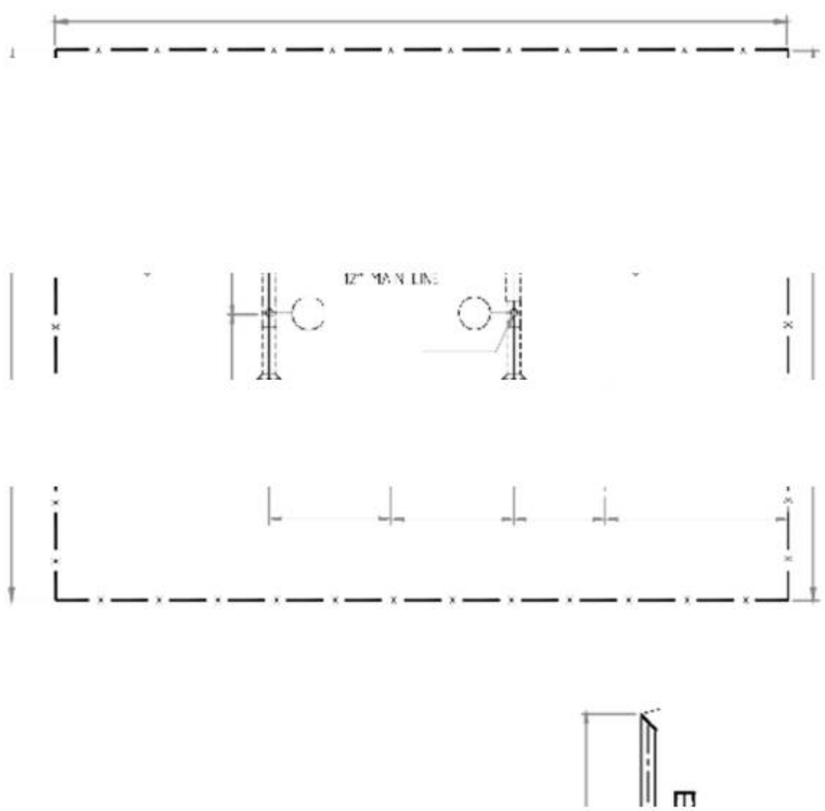
Size Scale Sheet Rev.

A3	1:50	2 of 2	0
Project No.	Discipline Code	System Code	Serial No.
P.014714	G	20749	004

A

B

C



REFERENCE DRAWING

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FUTURE TAP-OFF

BRANCH CONNECTION

Rev.	D M Y	Modifications	Drawn	Checked	Approved
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CITY GAS DISTRIBUTION PROJECT

SUBJECT

GENERAL ARRANGEMENT DRAWING
FOR FUTURE TAP-OFF POINTS

Size Scale Sheet Rev.

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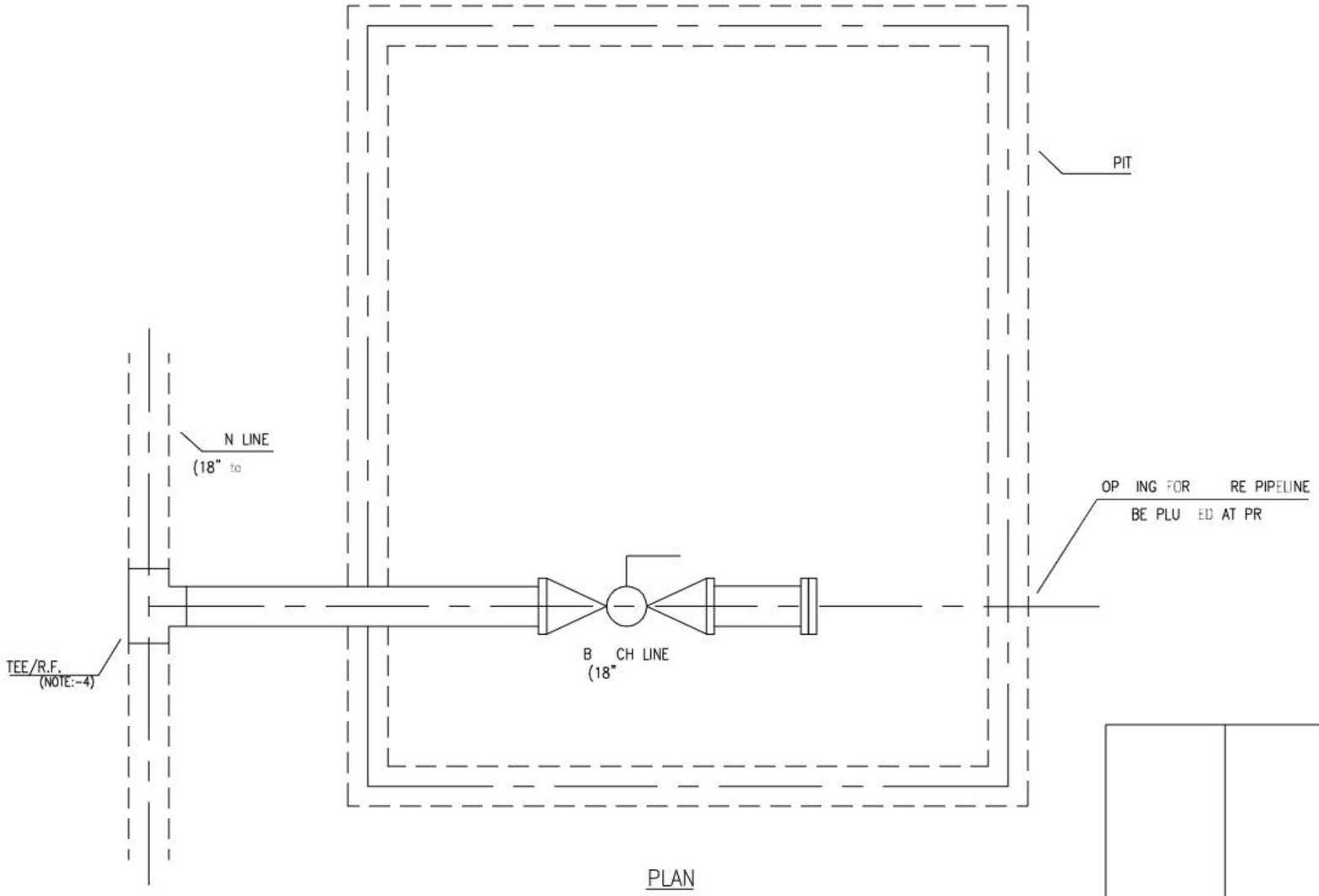
Project No.	Discipline Code	System Code	Serial No.
TRACTEBEL Engineering pvt. ltd. P.014714	G	20749	001

N ES

TO 003
E & BRANCH

LEGEND



PLAN

12 "	REDUCING TEE
12"x6"	REDUCING TEE
12	R.F.
8 "	TEE
8"x6"	REDUCING TEE
8	REDUCING TEE
6"x6"	TEE
6	REDUCING TEE
	TEE

NOTES

STEEL PIPE LAYING

STEEL PIPE LAYING WITH
OFC DUCT & MDPE PIPE

MDPE PIPE LAYING

STEEL PIPE LAYING WITH OFC DUCT

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CUSTOMER

CENTRAL U. P. GAS LIMITED

PROJECT

CITY GAS DISTRIBUTION PROJECT

SUBJECT

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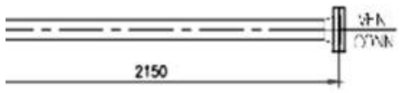
SUBJECT

PIPING GENERAL ARRANGEMENT DRAWING
FOR CONNECTIVITY TO RO/ CNG STATIONS

Size Scale Sheet Rev.

A	C	D



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P-014714	G	10749	002

REFERENCE DRAWING		
S. NO.	DRAWING TITLE	DRAWING NO.
1	TYPICAL DETAILS FOR 4" SV STATION RCC VALVE CHAMBER	P.014714

PI

N2 PURGING

IG

IG

CONC. RED.
2" x 3/4"

2"

DETAIL-A

PI

DETAIL-A

DETAIL-C

N2
PURGE
DETAIL-B

N2 PURGING

SUMP
300x300x300
DEEP

IG

CONC. RED.
2" x 3/4"

2"

4" SV VALVE CHAMBER WITH VENT
& WITH TAP-OFF

DETAIL - B

2" TO VENT

IG

2"

PI

4" MAIN LINE

DETAIL-C

SUMP
300x300x300
DEEP

SECTION-AA

NOTES

1. ALL DIMENSIONS ARE IN MM AND LEVELS ARE IN M UNLESS OTHERWISE MENTIONED.
2. PIPELINE COVER OR LEVELS SHALL BE MAINTAINED AS MENTIONED IN TENDER.
3. VALVE CHAMBER PROJECTION ABOVE FGL SHALL BE 150MM-300MM SUITED AS PER SITE CONDITIONS.

LEGENDS

BV BALL VALVE

GV GLOBE VALVE

IG INSULATING GASKET

TIE-IN POINT

CENTER LINE OF PIPE

NG - NATURAL GAS PIPELINE

Rev.	D M Y	Modifications	Drawn	Checked	Approved	Validated

CLIENT

CENTRAL U. P. GAS LIMITED

PROJECT

CITY GAS DISTRIBUTION PROJECT

SUBJECT PIPING GENERAL ARRANGEMENT DRAWING

FOR 4" SV VALVE CHAMBER WITH VENT & WITH TAP-OFF ARRANGEMENT FOR BAREILLY GA

Size	Scale	Sheet			Rev.
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FOR 4" MAIN LINE

PI

N2 PURGING

IG

IG

CONC. RED.
2" x 3/4"

2"

PI

DETAIL-B

(DETAIL-A)

DETAIL-A

SUMP
300x300x300
DEEP

4" SV VALVE CHAMBER
WITH VENT & WITHOUT TAP-OFF

2" TO VENT

IG

2"

PI

4" MAIN LINE

DETAIL-B

SUMP
300x300x300
DEEP

SECTION-AA

REFERENCE DRAWING

S. NO.	DRAWING TITLE	DRAWING NO.
1	TYPICAL DETAILS FOR 4" SV STATION RCC VALVE CHAMBER	P.014714

NOTES

1. ALL DIMENSIONS ARE IN MM AND LEVELS ARE IN M UNLESS OTHERWISE MENTIONED.
2. PIPELINE COVER OR LEVELS SHALL BE MAINTAINED AS MENTIONED IN TENDER.
3. VALVE CHAMBER PROJECTION ABOVE FGL SHALL BE 150MM-300MM SUITED AS PER SITE CONDITIONS.

LEGENDS

BV	BALL VALVE
GV	GLOBE VALVE
IG	INSULATING GASKET
	TIE-IN POINT
	CENTER LINE OF PIPE

NG - NATURAL GAS PIPELINE

Rev	D M Y	Modifications	Drawn	Checked	Approved	Validated

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CENTRAL U. P. GAS LIMITED

PROJECT
CITY GAS DISTRIBUTION PROJECT

SUBJECT
PIPING GENERAL ARRANGEMENT DRAWING
FOR 4" SV VALVE CHAMBER WITH VENT ARRANGEMENT
ARRANGEMENT FOR BAREILLY GA

Size	Scale	Sheet		Rev.
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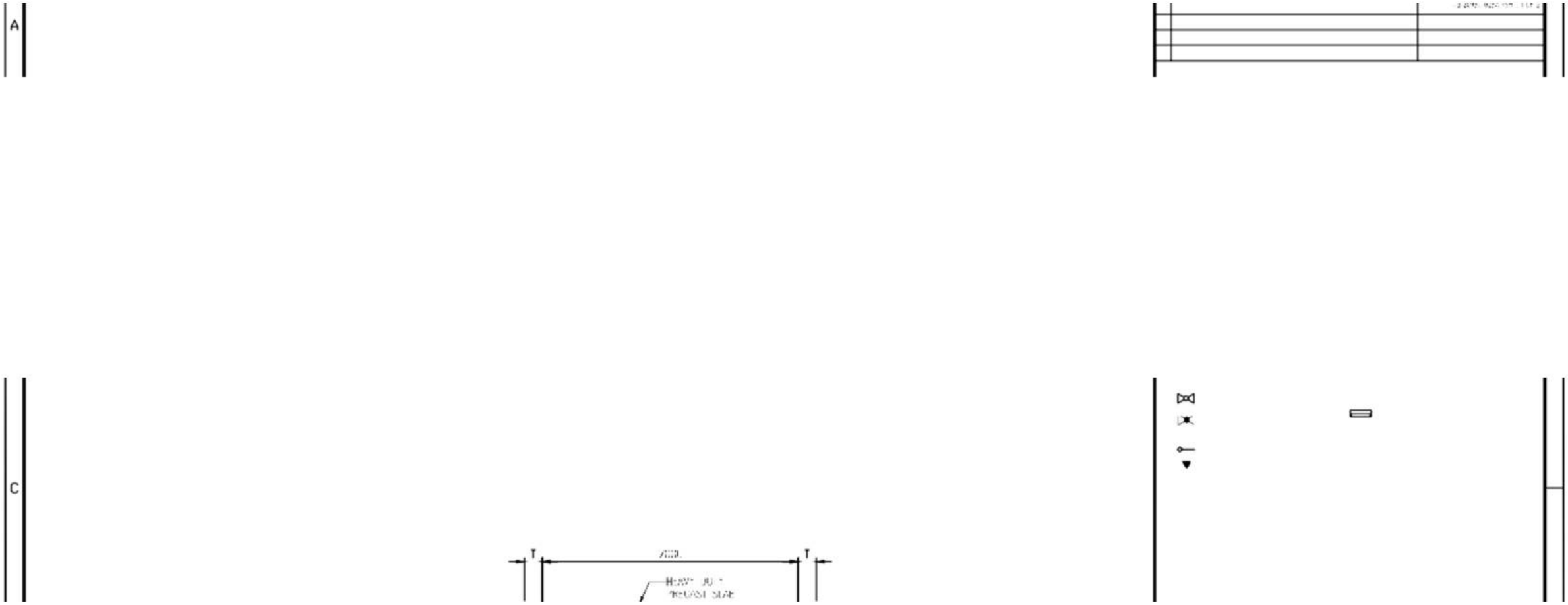
A
C
T
T

FOR 4" MAIN LINE

REFERENCE DRAWING		
S NO.	DRAWING TITLE	DRAWING NO.
1	TYPICAL DETAILS FOR 4" SV STATION RCC VALVE CHAMBER	P.014734

NOTES

1. ALL DIMENSIONS ARE IN MM AND LEVELS ARE IN M UNLESS OTHERWISE MENTIONED.
2. PIPELINE COVER OR LEVELS SHALL BE MAINTAINED AS MENTIONED IN TENDER.
3. VALVE CHAMBER PROJECTION ABOVE FGL SHALL BE 150MM-300MM SUITED AS PER SITE CONDITIONS.

DETAIL-A

N2 PURGE

SUMP 300x300x300 DEEP

N2 PURGING

IG

CONC. RED. 2" x 3/4"

2"

4" TAP-OFF CHAMBER

DETAIL - A

LEGENDS

BV	BALL VALVE	NG - NATURAL GAS PIPELINE
GV	GLOBE VALVE	
IG	INSULATING GASKET	
	TIE-IN POINT	
	CENTER LINE OF PIPE	

4" MAIN LINE

SUMP 300x300x300 DEEP

SECTION-AA

Rev	D M Y	Modifications	Drawn	Checked	Approved	Validated

CLIENT CENTRAL U. P. GAS LIMITED

PROJECT CITY GAS DISTRIBUTION PROJECT

SUBJECT PIPING GENERAL ARRANGEMENT DRAWING
FOR 4" TAP-OFF CHAMBER ARRANGEMENT
FOR BAREILLY GA

Size	Scale	Sheet			Rev.
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FOR 6" MAIN LINE

PI

N2 PURGING

IG

IG

CONC. RED.
2" x 3/4"

2"

6" PIPE

DETAIL-A

DETAIL-C

PI

N2
PURGE

DETAIL-B

N2 PURGING

SUMP
300x300x300
DEEP

IG

CONC. RED.
2" x 3/4"

2"

4" PIPE

DETAIL-B

6" SV VALVE CHAMBER WITH VENT
& WITH TAP-OFF

PI

2" TO VENT

IG

2"

6" PIPE

6" MAIN LINE

DETAIL-C

SUMP
300x300x300
DEEP

SECTION-AA

REFERENCE DRAWING

S. NO.	DRAWING TITLE	DRAWING NO.
1	TYPICAL DETAILS FOR 4" SV STATION RCC VALVE CHAMBER	P.014714

NOTES

1. ALL DIMENSIONS ARE IN MM AND LEVELS ARE IN M UNLESS OTHERWISE MENTIONED.
2. PIPELINE COVER OR LEVELS SHALL BE MAINTAINED AS MENTIONED IN TENDER.
3. VALVE CHAMBER PROJECTION ABOVE FGL SHALL BE 150MM-300MM SUITED AS PER SITE CONDITIONS.

LEGENDS

BV	BALL VALVE	NG - NATURAL GAS PIPELINE
GV	GLOBE VALVE	
IG	INSULATING GASKET	
	TIE-IN POINT	
	CENTER LINE OF PIPE	

Rev	D M Y	Modifications	Drawn	Checked	Approved	Validated

CLIENT CENTRAL U. P. GAS LIMITED

PROJECT CITY GAS DISTRIBUTION PROJECT

SUBJECT PIPING GENERAL ARRANGEMENT DRAWING

FOR 6" SV VALVE CHAMBER WITH VENT & WITH TAP-OFF ARRANGEMENT FOR BAREILLY GA

Size	Scale	Sheet			Rev.
A3	1:30	4	of	6	0
Project No.	Discipline Code	System Code	Serial No.		

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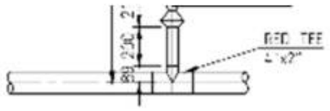
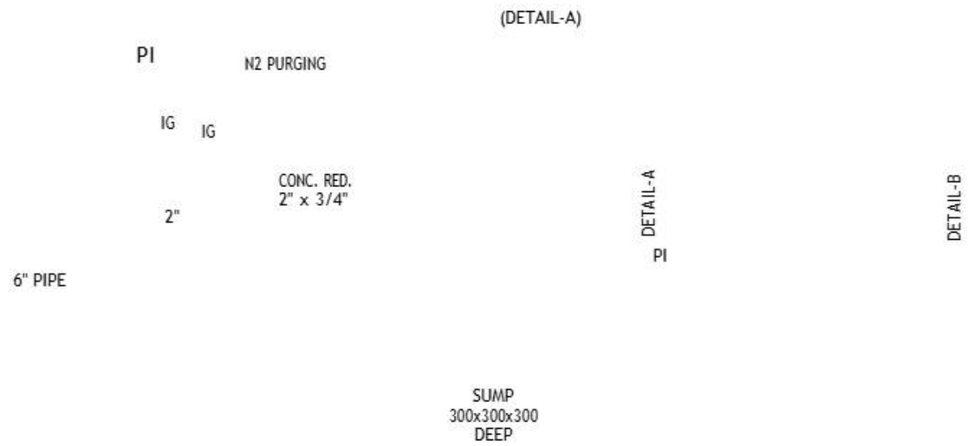
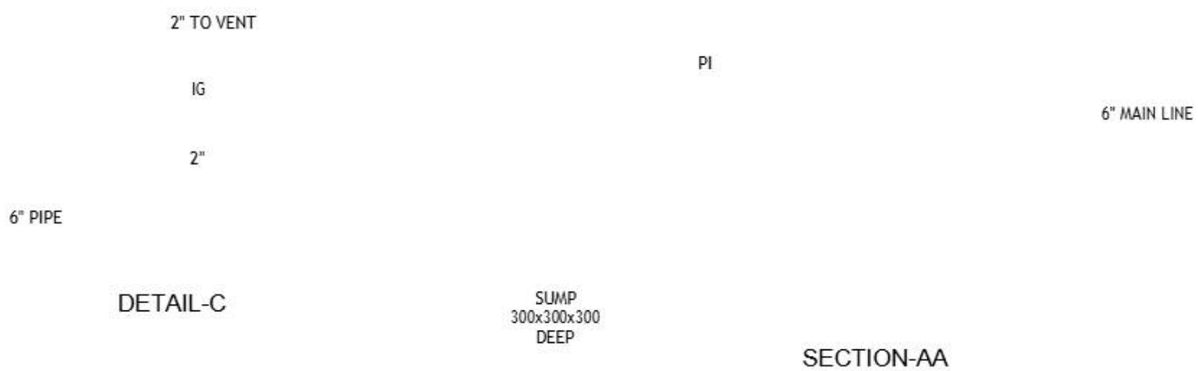

2"
RD 2'-0"
BTD TEE
1"x2"

FOR 6" MAIN LINE



6" SV VALVE CHAMBER
WITH VENT & WITHOUT TAP-OFF



DETAIL-C

SECTION-AA

REFERENCE DRAWING

S. NO.	DRAWING TITLE	DRAWING NO.
1	TYPICAL DETAILS FOR 4" SV STATION RCC VALVE CHAMBER	P.014714

NOTES

1. ALL DIMENSIONS ARE IN MM AND LEVELS ARE IN M UNLESS OTHERWISE MENTIONED.
2. PIPELINE COVER OR LEVELS SHALL BE MAINTAINED AS MENTIONED IN TENDER.
3. VALVE CHAMBER PROJECTION ABOVE FGL SHALL BE 150MM-300MM SUITED AS PER SITE CONDITIONS.

LEGENDS

BV	BALL VALVE
GV	GLOBE VALVE
IG	INSULATING GASKET
	TIE-IN POINT
	CENTER LINE OF PIPE

NG - NATURAL GAS PIPELINE

Rev	D M Y	Modifications	Drawn	Checked	Approved	Validated

CLIENT
CENTRAL U. P. GAS LIMITED

PROJECT
CITY GAS DISTRIBUTION PROJECT

SUBJECT
PIPING GENERAL ARRANGEMENT DRAWING
FOR 6" SV VALVE CHAMBER WITH VENT ARRANGEMENT
FOR BAREILLY GA

Size	Scale	Sheet			Rev.
A3	1:30	5	of	6	0

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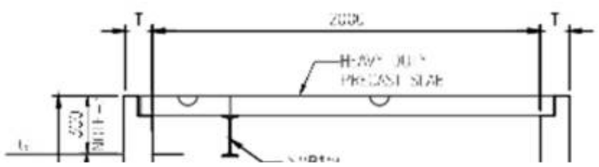

FOR 6" MAIN LINE

DETAIL-A

N2
PURGE

SUMP
300x300x300
DEEP

N2 PURGING

IG

CONC. RED.
2" x 3/4"

2"

6" TAP-OFF CHAMBER

4" PIPE

DETAIL-A

6" MAIN LINE

SUMP
300x300x300
DEEP

SECTION-AA

REFERENCE DRAWING

S. NO.	DRAWING TITLE	DRAWING NO.
1	TYPICAL DETAILS FOR 4" SV STATION RCC VALVE CHAMBER	P.014714

NOTES

1. ALL DIMENSIONS ARE IN MM AND LEVELS ARE IN M UNLESS OTHERWISE MENTIONED.
2. PIPELINE COVER OR LEVELS SHALL BE MAINTAINED AS MENTIONED IN TENDER.
3. VALVE CHAMBER PROJECTION ABOVE FGL SHALL BE 150MM-300MM SUITED AS PER SITE CONDITIONS.

LEGENDS

BV	BALL VALVE	NG - NATURAL GAS PIPELINE
GV	GLOBE VALVE	
IG	INSULATING GASKET	
	TIE-IN POINT	
	CENTER LINE OF PIPE	

Rev	D M Y	Modifications	Drawn	Checked	Approved	Validated

CLIENT
CENTRAL U. P. GAS LIMITED

PROJECT
CITY GAS DISTRIBUTION PROJECT

SUBJECT
PIPING GENERAL ARRANGEMENT DRAWING
FOR 6" TAP-OFF CHAMBER ARRANGEMENT
FOR BAREILLY GA

Size	Scale	Sheet		Rev.
A3	1:30	6	of 6	
Project No.	Discipline Code	System Code	Serial No.	

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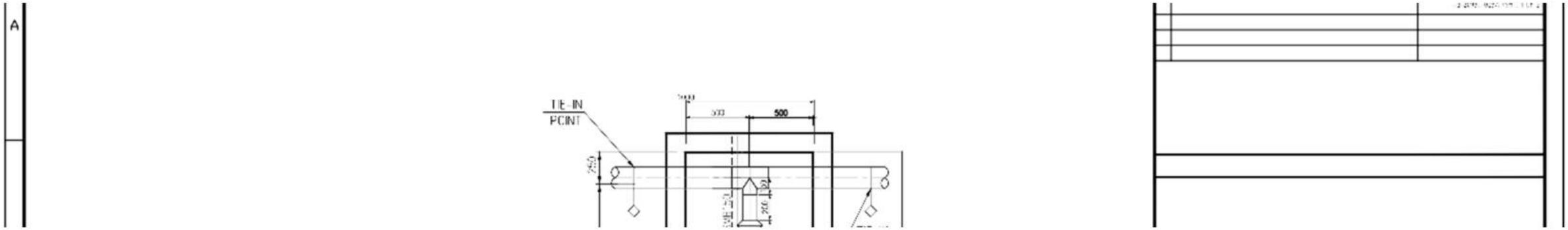
A
TIE-IN
POINT
500

NOTES

Rev.	D M Y	Modifications	Drawn By	Checked By	Approved By

CUSTOMER

CENTRAL U. P. GAS LIMITED

PROJECT

CITY GAS DISTRIBUTION PROJECT

SUBJECT

TYPICAL DETAILS OF FENCING

Size	Scale	Sheet			Rev.
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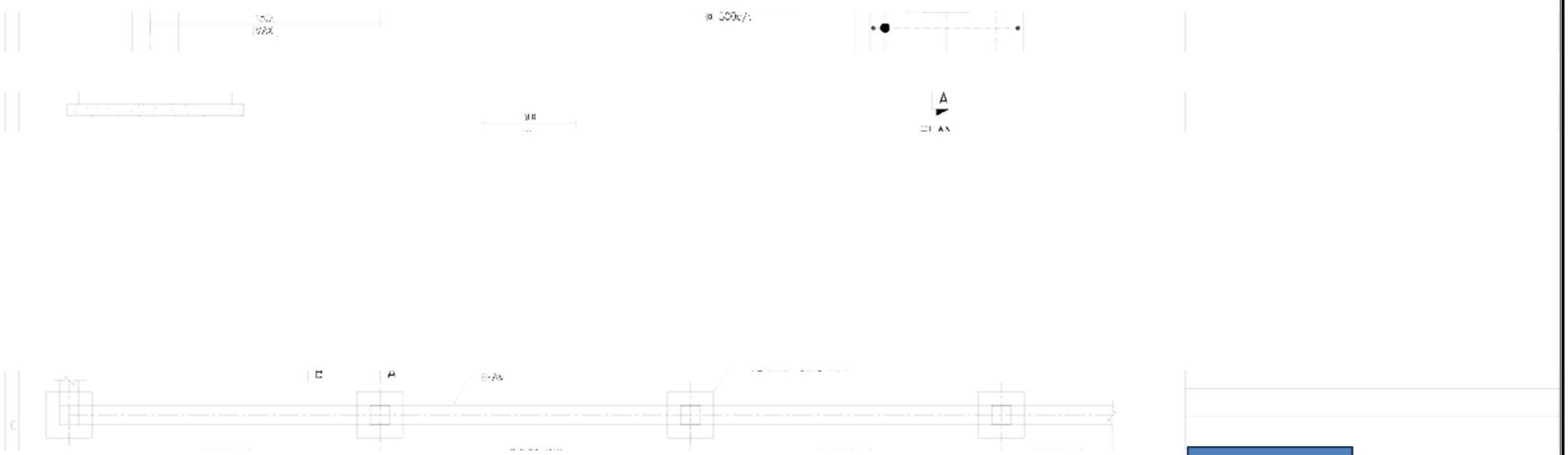
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NOTES

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CUSTOMER

CENTRAL U. P. GAS LIMITED

PROJECT

CITY GAS DISTRIBUTION PROJECT

SUBJECT

TYPICAL DETAILS OF GATE

Size	Scale	Sheet			Rev.
A1	NTS	01	of	01	0

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NOTES

B B

B B

A A

A A

F.F.L.

F.F.L.

SECTION C-C

CASE - 1 (WITH R.C.C. PAVING)

C C

CASE - 2 (WITHOUT R.C.C. PAVING)

TYP. BASE PLATE DETAIL

SECTION B-B

SECTION A-A

Rev.	D M Y	Modifications	Drawn By	Checked By	Approved By

CUSTOMER

CENTRAL U. P. GAS LIMITED

PROJECT

CITY GAS DISTRIBUTION PROJECT

SUBJECT

TYPICAL DETAILS OF PIPE SUPPORT

Size	Scale	Sheet	Rev.
A1	NTS	01 of 01	0

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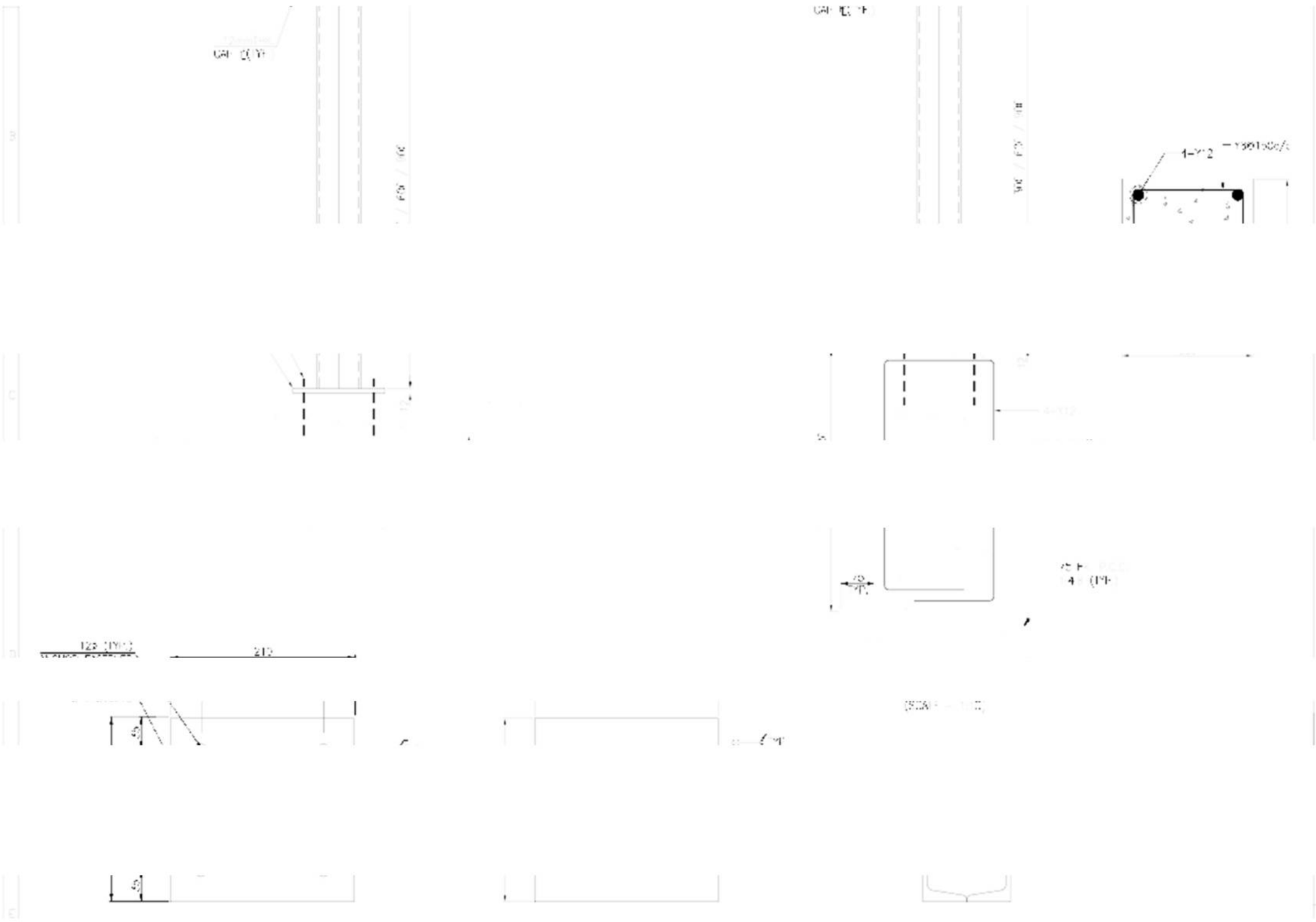

NOTES

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CUSTOMER

CENTRAL U. P. GAS LIMITED

PROJECT

CITY GAS DISTRIBUTION PROJECT

SUBJECT

TYPICAL DETAILS OF RCC ROUTE MARKER

Size	Scale	Sheet			Rev.
A1	NTS	01	of	01	0

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SECTION – E-B
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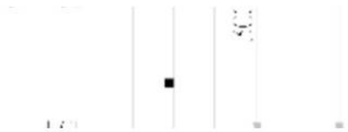

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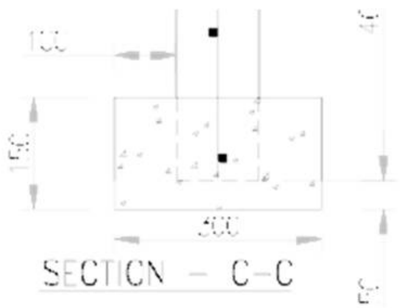
PLAN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SECTION – C-C

(1:48)
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NOTES

CAUTION
BOARDS

CAUTION
BOARDS

SCHEMATIC LAYOUT OF CAUTION BOARDS AND BARRICADDING

Rev.	D M Y	Modifications	Drawn By	Checked By	Approved By

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CENTRAL U. P. GAS LIMITED

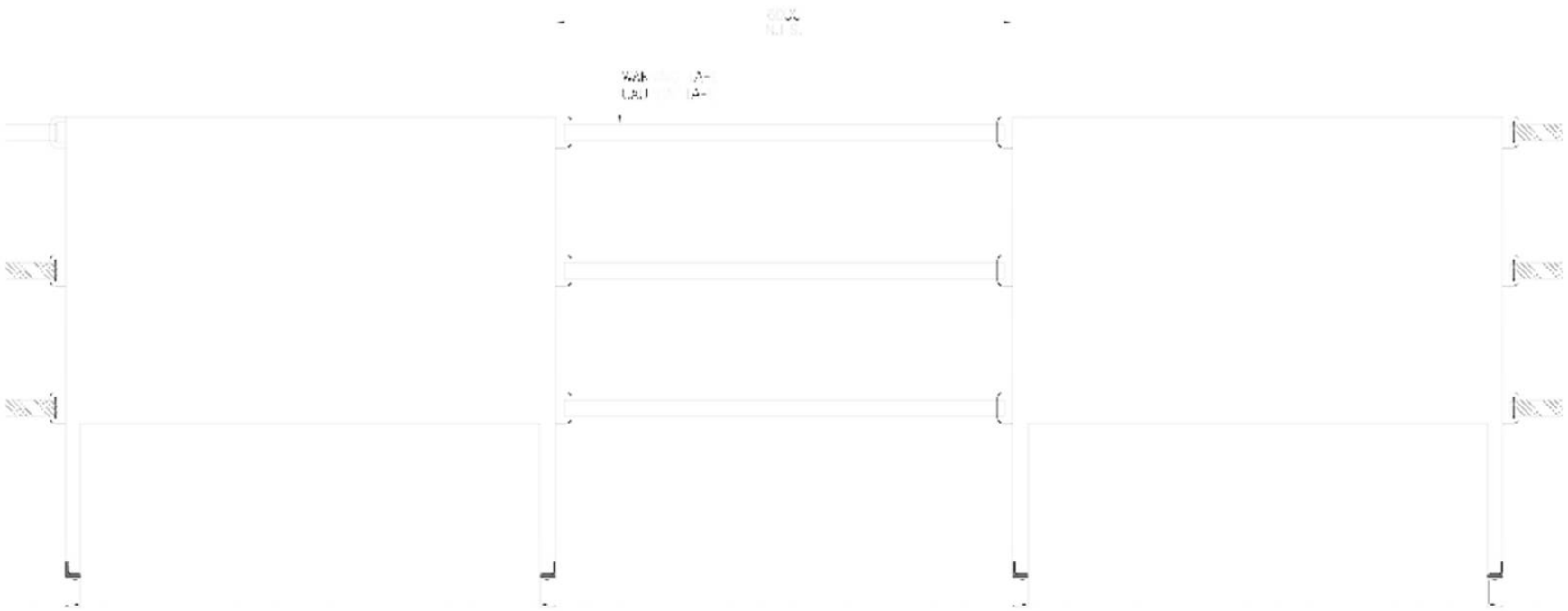
PROJECT

CITY GAS DISTRIBUTION PROJECT

SUBJECT

TYPICAL DETAIL OF BARRICADING

Size	Scale	Sheet			Rev.
A1	NTS	01	of	01	0



2	08/03/21	ISSUED FOR TENDER	SLAVY	JMW	MC

NOTES

ELEVATION A-A

ELEVATION B-B

CAUTION

B

(TO BE PRINTED ON BOTH SIDE
OF ITEM NO. 01)

B

A

A

PLAN VIEW

Rev.	D M Y	Modifications	Drawn By	Checked By	Approved By

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CENTRAL U. P. GAS LIMITED

PROJECT

CITY GAS DISTRIBUTION PROJECT

SUBJECT

TYPICAL DETAIL OF CAUTION BOARD

Size	Scale	Sheet			Rev.
A1	NTS	01	of	01	0

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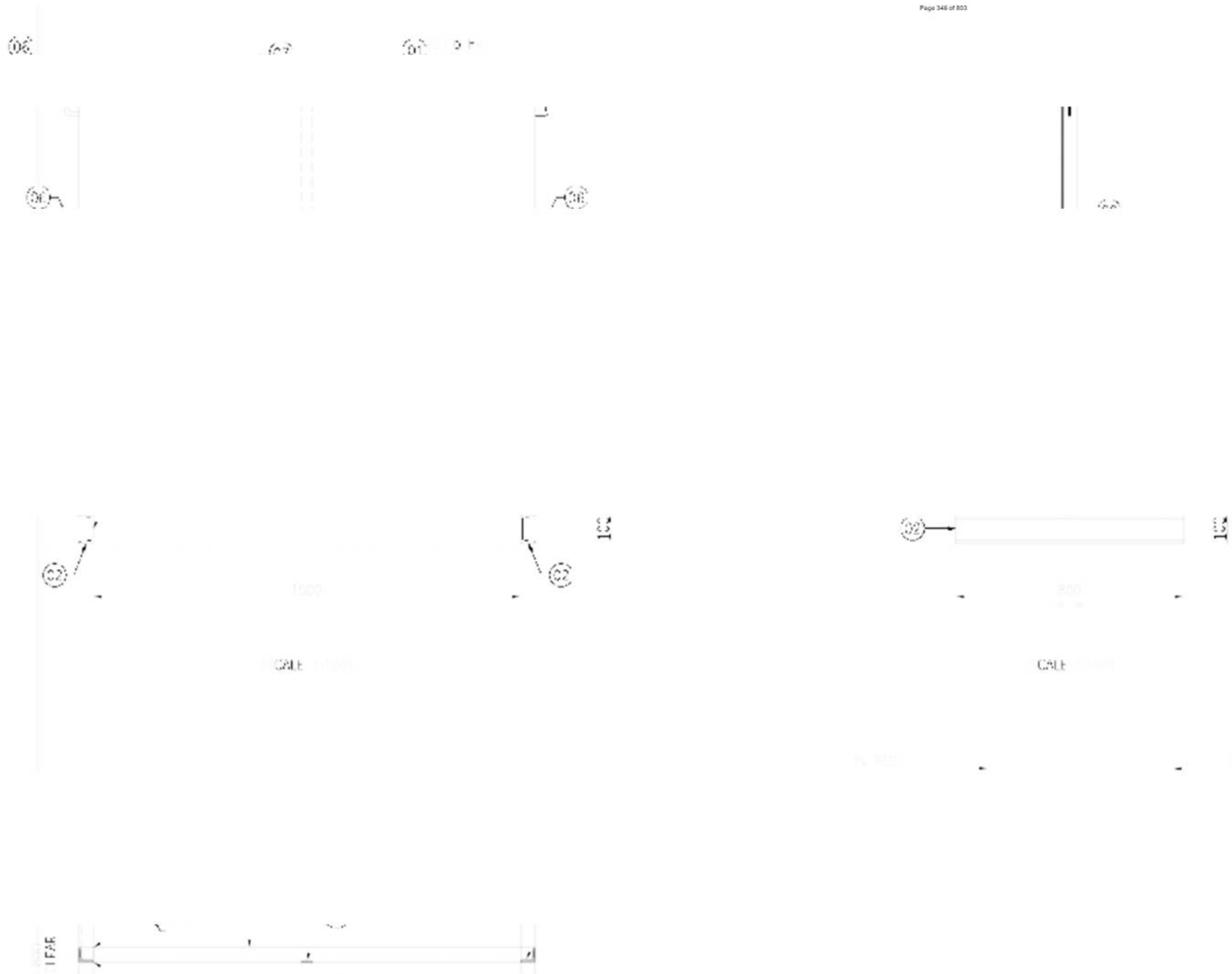
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02
02
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FOR 4" SV VALVE CHAMBER WITH VENT
& WITH TAP-OFF

NOTES

A

A

DETAIL OF HOOK

JOINTING DETAIL OF PRECAST
COVER SLAB

D

C

D

VALVE PIT BOTTOM PLAN

C

LOCKING ARRANGEMENT OF
PRECAST COVER SLAB

SECTION C-C

SECTION A-A

SECTION B-B

INSERT PLATE IP1

SECTION IP-IP

PLAN OF PRECAST COVER SLAB
(FOR VEHICLE MOVING AREA)

TYP. REINF. DETAIL
FOR SUMP

ISSUED FOR TENDER

Rev.	D M Y	Modifications	Drawn	Checked	Approved	Validated

CLIENT

CENTRAL U. P. GAS LIMITED

PRIJECT

CITY GAS DISTRIBUTION PROJECT

SUBJECT

TYPICAL DETAILS FOR 4"
SV VALVE CHAMBER WITH VENT & WITH TAP-OFF ARRANGEMENT
FOR BAREILLY GA

DETAIL-A

DSECTION D-D

Size	Scale	Sheet			Rev.
A1	1:50	01	of	06	A

Project No.	Discipline Code	System Code	Serial No.
P.014714	G	20730	010

NOTES

FOR 4" SV VALVE CHAMBER WITH VENT
& WITH TAP-OFF

A

A

DETAIL OF HOOK

JOINTING DETAIL OF PRECAST
COVER SLAB

D

C

D

VALVE PIT BOTTOM PLAN

C

LOCKING ARRANGEMENT OF
PRECAST COVER SLAB

SECTION C-C

SECTION A-A

SECTION B-B

INSERT PLATE IP1

SECTION IP-IP

PLAN OF PRECAST COVER SLAB
(FOR VEHICLE MOVING AREA)

TYP. REINF. DETAIL
FOR SUMP

ISSUED FOR TENDER

Rev.	D M Y	Modifications	Drawn	Checked	Approved	Validated

CLIENT

CENTRAL U. P. GAS LIMITED

PRIJECT

CITY GAS DISTRIBUTION PROJECT

SUBJECT

TYPICAL DETAILS FOR 4"
SV VALVE CHAMBER WITH VENT ARRANGEMENT
FOR BAREILLY GA

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DETAIL-A

DSECTION D-D

Size	Scale	Sheet			Rev.
A1	1:50	02	of	06	A

Project No.	Discipline Code	System Code	Serial No.
P.014714	G	20730	011

NOTES

4" TAP-OFF CHAMBER

A

A

VALVE PIT BOTTOM PLAN

C

C

C

LOCKING ARRANGEMENT OF PRECAST COVER SLAB

DETAIL OF HOOK

JOINTING DETAIL OF PRECAST COVER SLAB

SECTION A-A

SECTION B-B

PLAN OF PRECAST COVER SLAB
(FOR VEHICLE MOVING AREA)

ISSUED FOR TENDER

TYP. REINF. DETAIL FOR SUMP

SECTION C-C

Rev.	D M Y	Modifications	Drawn	Checked	Approved	Validated

CLIENT

CENTRAL U. P. GAS LIMITED

PRIJECT

CITY GAS DISTRIBUTION PROJECT

SUBJECT

TYPICAL DETAILS FOR 4"
TAP-OFF CHAMBER ARRANGEMENT
FOR BAREILLY GA

1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES UNLESS NOTED OTHERWISE

Size	Scale	Sheet			Rev.
A1	1:50	03	of	06	A

Project No.	Discipline Code	System Code	Serial No.
P.014714	G	20730	012

(SCALE 1:25)

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(SCALE 1:10)

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150 1000 150

HEAVY DUTY PRECAST SLAB

FGL

(SCALE 1:25)

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150

500 150

FOR 6" SV VALVE CHAMBER WITH VENT
& WITH TAP-OFF

NOTES

A

A

DETAIL OF HOOK

JOINTING DETAIL OF PRECAST
COVER SLAB

D

C

D

VALVE PIT BOTTOM PLAN

C

LOCKING ARRANGEMENT OF
PRECAST COVER SLAB

SECTION C-C

SECTION A-A

SECTION B-B

INSERT PLATE IP1

SECTION IP-IP

PLAN OF PRECAST COVER SLAB
(FOR VEHICLE MOVING AREA)

TYP. REINF. DETAIL
FOR SUMP

ISSUED FOR TENDER

Rev.	D M Y	Modifications	Drawn	Checked	Approved	Validated

CLIENT

CENTRAL U. P. GAS LIMITED

PRIJECT

CITY GAS DISTRIBUTION PROJECT

SUBJECT

TYPICAL DETAILS FOR 6"
SV VALVE CHAMBER WITH VENT & WITH TAP-OFF ARRANGEMENT
FOR BAREILLY GA

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DETAIL-A

DSECTION D-D

Size	Scale	Sheet			Rev.
A1	1:50	04	of	06	A

Project No.	Discipline Code	System Code	Serial No.
P.014714	G	20730	013

NOTES

FOR 6" SV VALVE CHAMBER WITH VENT
& WITH TAP-OFF

A

A

DETAIL OF HOOK

JOINTING DETAIL OF PRECAST
COVER SLAB

D

C

D

VALVE PIT BOTTOM PLAN

C

LOCKING ARRANGEMENT OF
PRECAST COVER SLAB

SECTION C-C

SECTION A-A

SECTION B-B

INSERT PLATE IP1

SECTION IP-IP

PLAN OF PRECAST COVER SLAB
(FOR VEHICLE MOVING AREA)

TYP. REINF. DETAIL
FOR SUMP

ISSUED FOR TENDER

Rev.	D M Y	Modifications	Drawn	Checked	Approved	Validated

CLIENT

CENTRAL U. P. GAS LIMITED

PRIJECT

CITY GAS DISTRIBUTION PROJECT

SUBJECT

TYPICAL DETAILS FOR 6"
SV VALVE CHAMBER WITH VENT ARRANGEMENT
FOR BAREILLY GA

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DETAIL-A

DSECTION D-D

Size	Scale	Sheet			Rev.
A1	1:50	05	of	06	A

Project No.	Discipline Code	System Code	Serial No.
P.014714	G	20730	014

NOTES

4" TAP-OFF CHAMBER

A A

C C

VALVE PIT BOTTOM PLAN

LOCKING ARRANGEMENT OF PRECAST COVER SLAB

DETAIL OF HOOK

JOINTING DETAIL OF PRECAST COVER SLAB

SECTION A-A

SECTION B-B

PLAN OF PRECAST COVER SLAB
(FOR VEHICLE MOVING AREA)

ISSUED FOR TENDER

TYP. REINF. DETAIL FOR SUMP

SECTION C-C

Rev.	D M Y	Modifications	Drawn	Checked	Approved	Validated

CLIENT

CENTRAL U. P. GAS LIMITED

PRIJECT

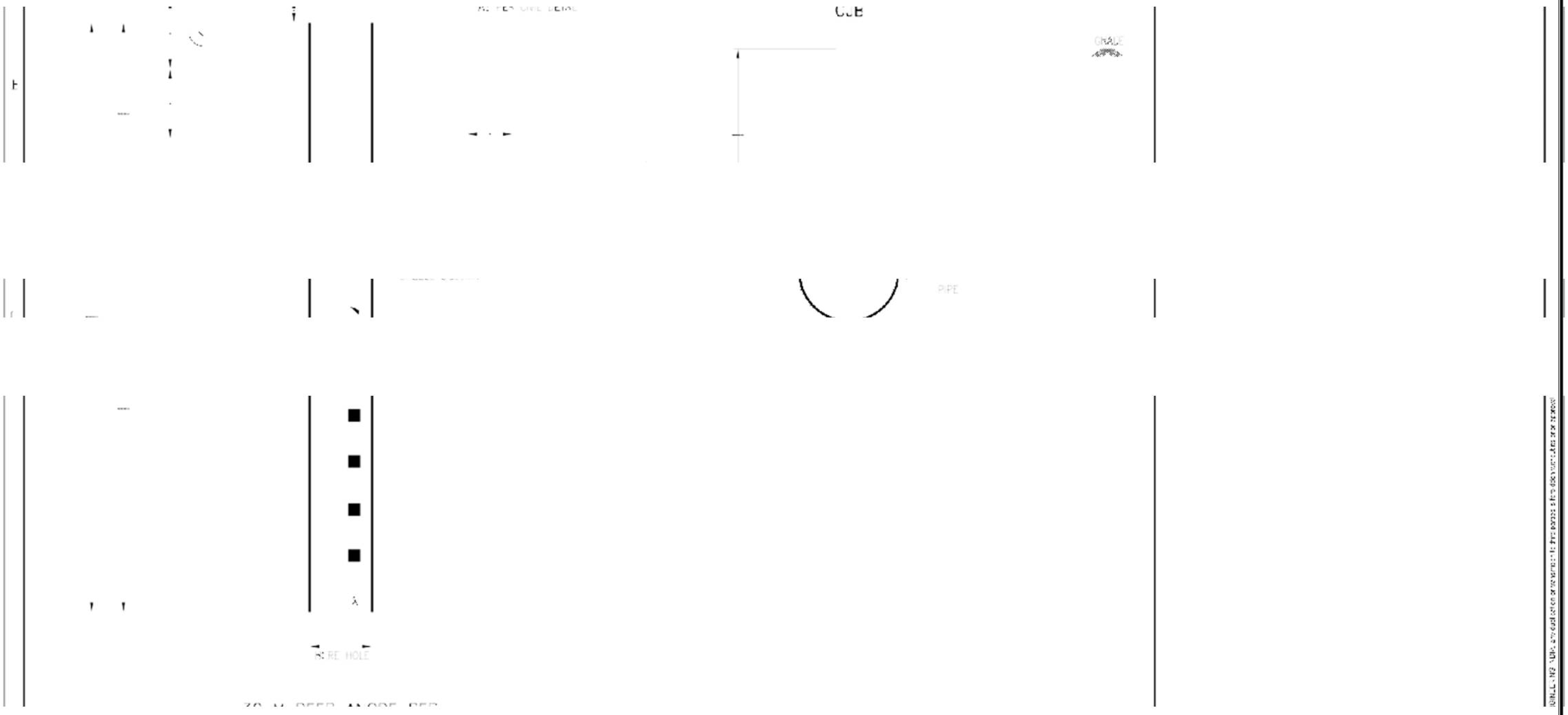
CITY GAS DISTRIBUTION PROJECT

SUBJECT

TYPICAL DETAILS FOR 6" TAP-OFF CHAMBER ARRANGEMENT FOR BAREILLY GA

Size	Scale	Sheet			Rev.
A1	1:50	06	of	06	A

Project No.	Discipline Code	System Code	Serial No.
P.014714	G	20730	015


CJB
PIPE

BILL OF MATERIAL

Rev.	D M Y	Modifications	Drawn	Checked	Approved	Validated

SUBJECT

FABRICATION AND INSTALLATION

DETAILS OF CABLE LAYING (TYPICAL) FOR CATHODIC PROTECTION

Size	Scale	Sheet
A3	NTS	01 of 01

Drawing No. GGNG-E-20712-323

Rev. 0

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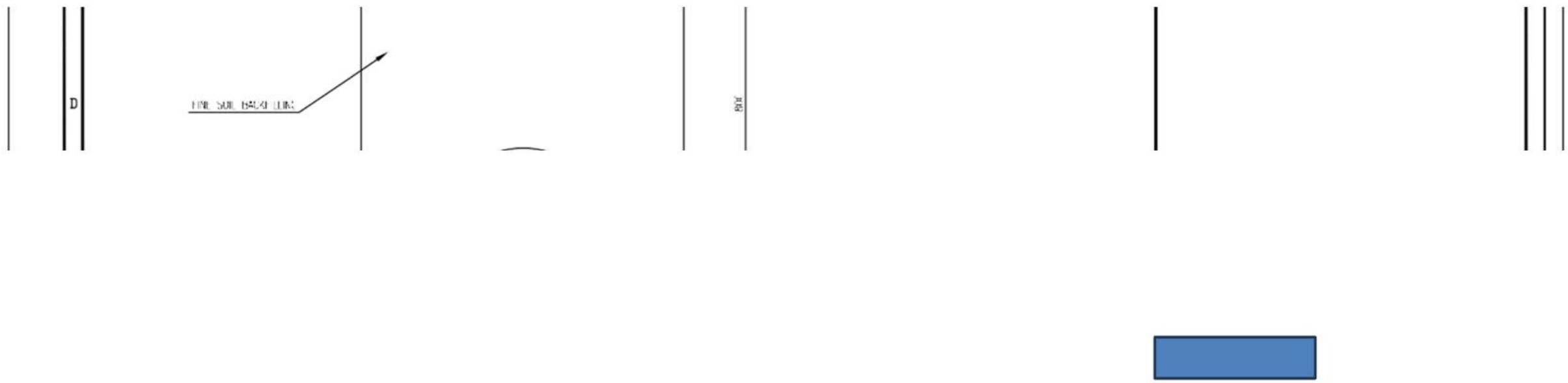
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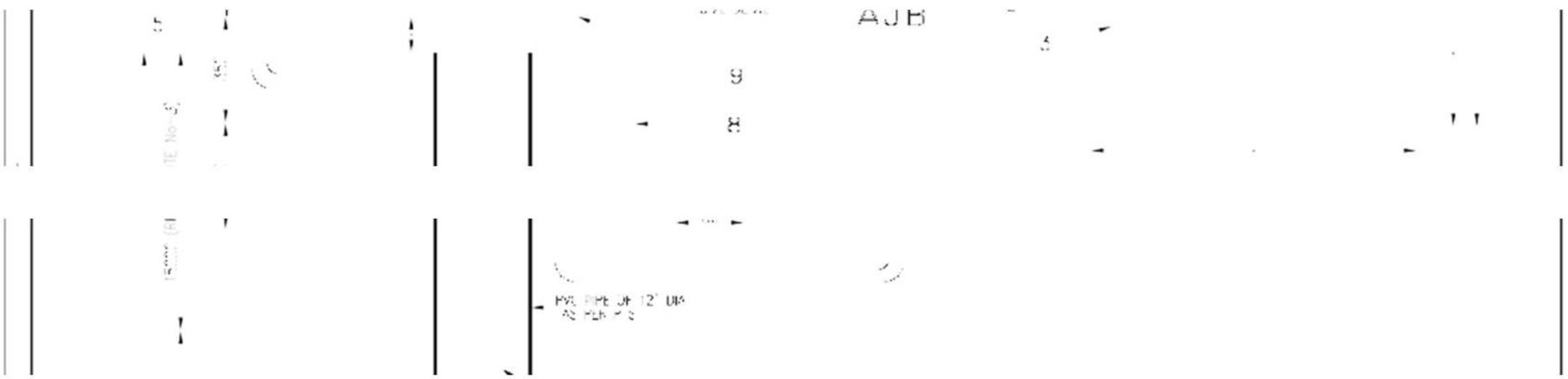

BILL OF MATERIAL

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TYPE-A1
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WEBBOLT INSTOT
SHEAR
TYPE-A
SHEAR LINE

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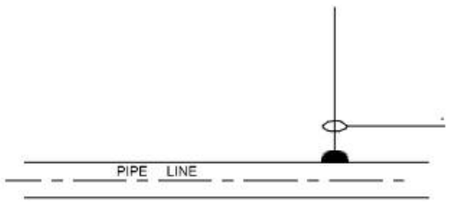

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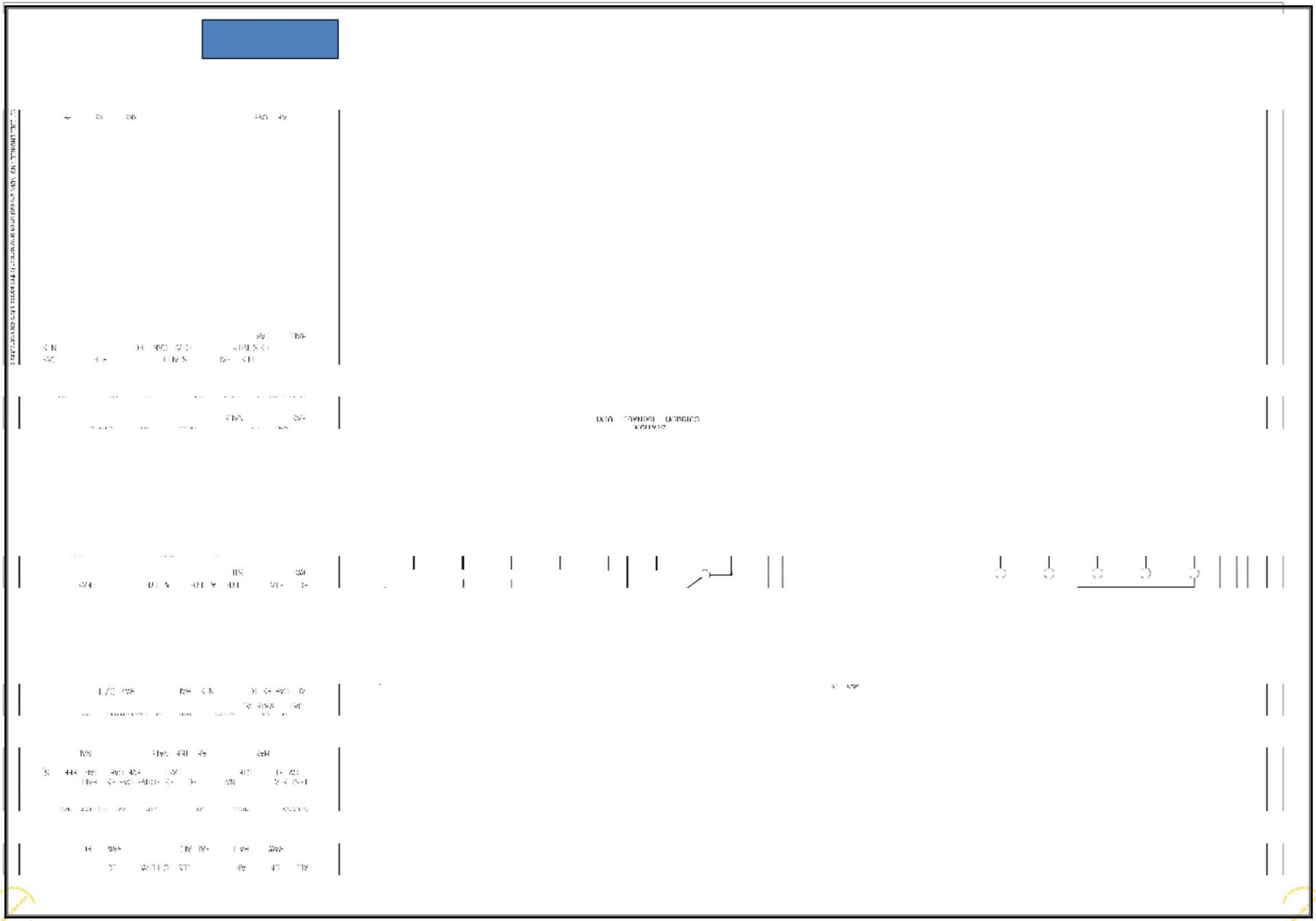
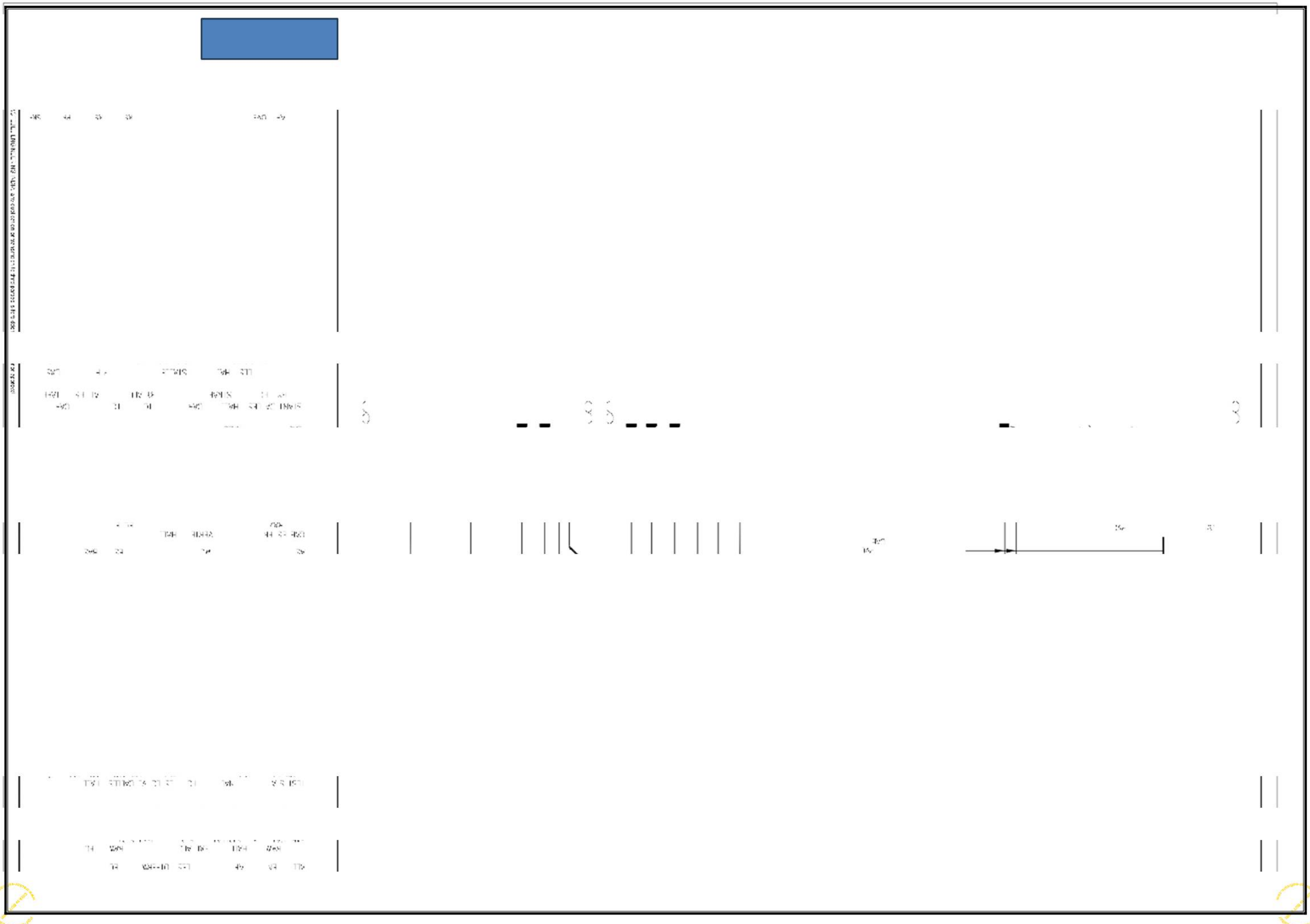
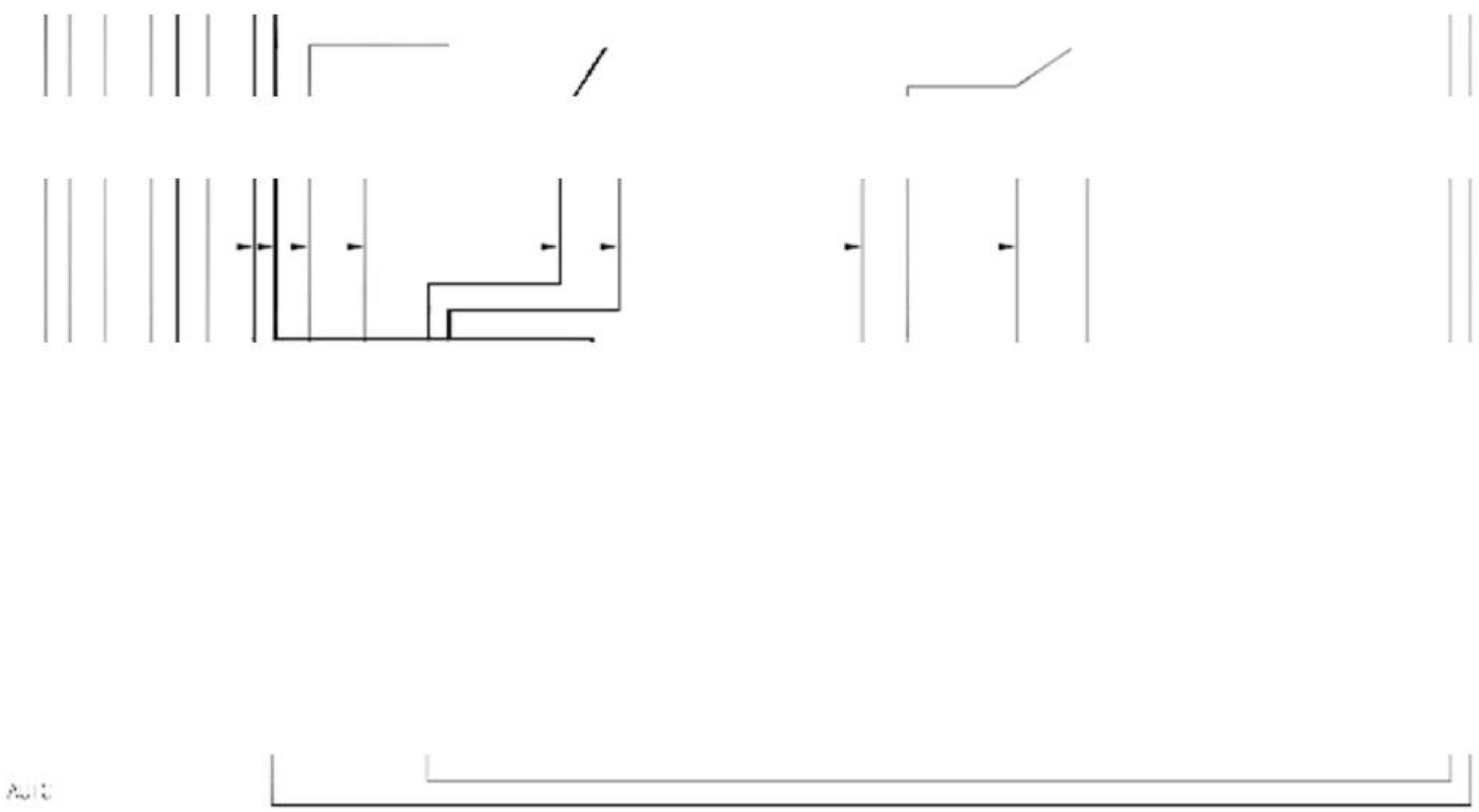
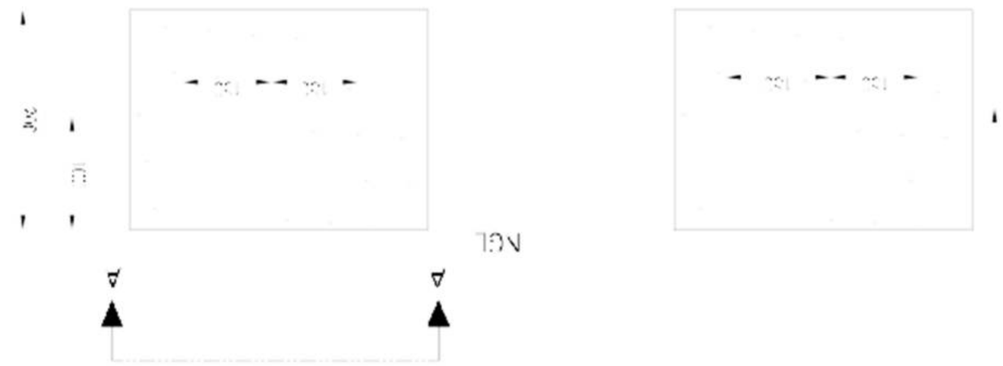


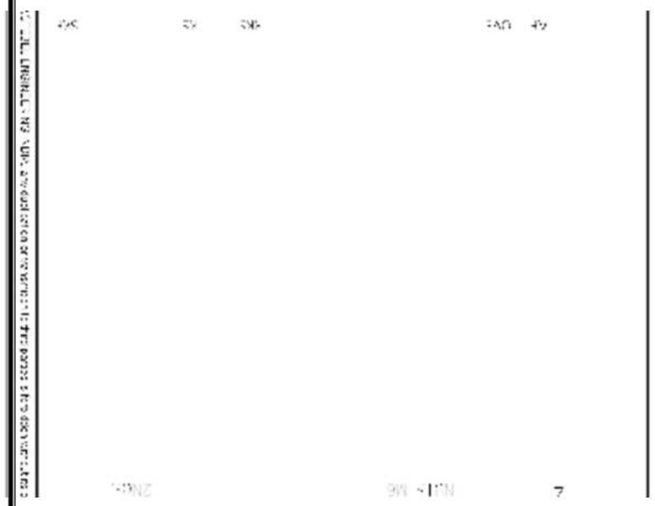
STATION
CURRENT DRAINAGE POINT





TERMINAL STATION MANIFOLD PIPELINE TYPE FOR TWO


A
A
NGL
24"


NOTE: ALL UNDERLINE, NO SUPPORT OR FOUNDATION IS REQUIRED UNLESS SPECIFIED
NOTE: NO
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BILL OF MATERIAL
DESCRIPTION
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LETTER SIZE
22 x 10
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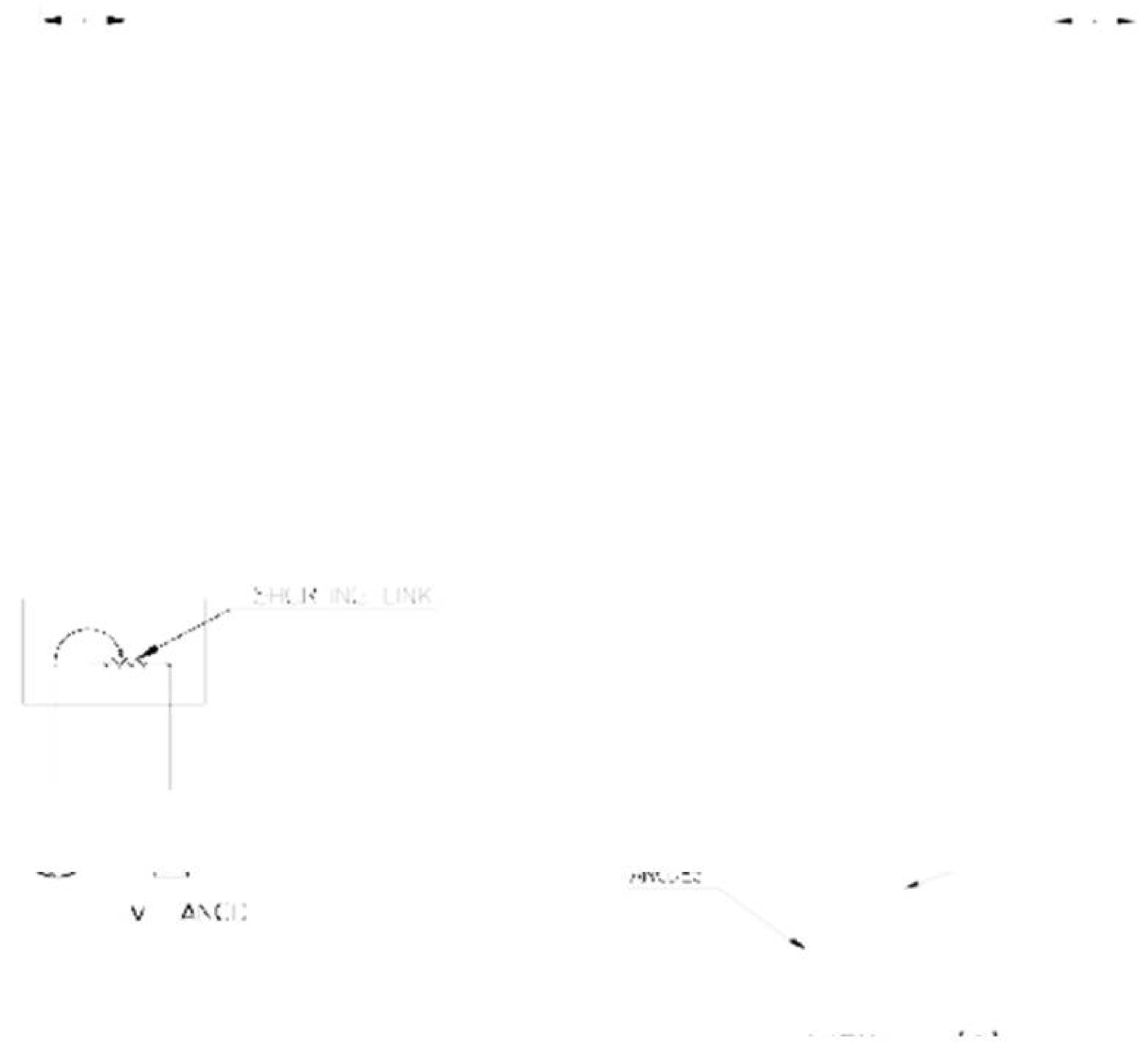
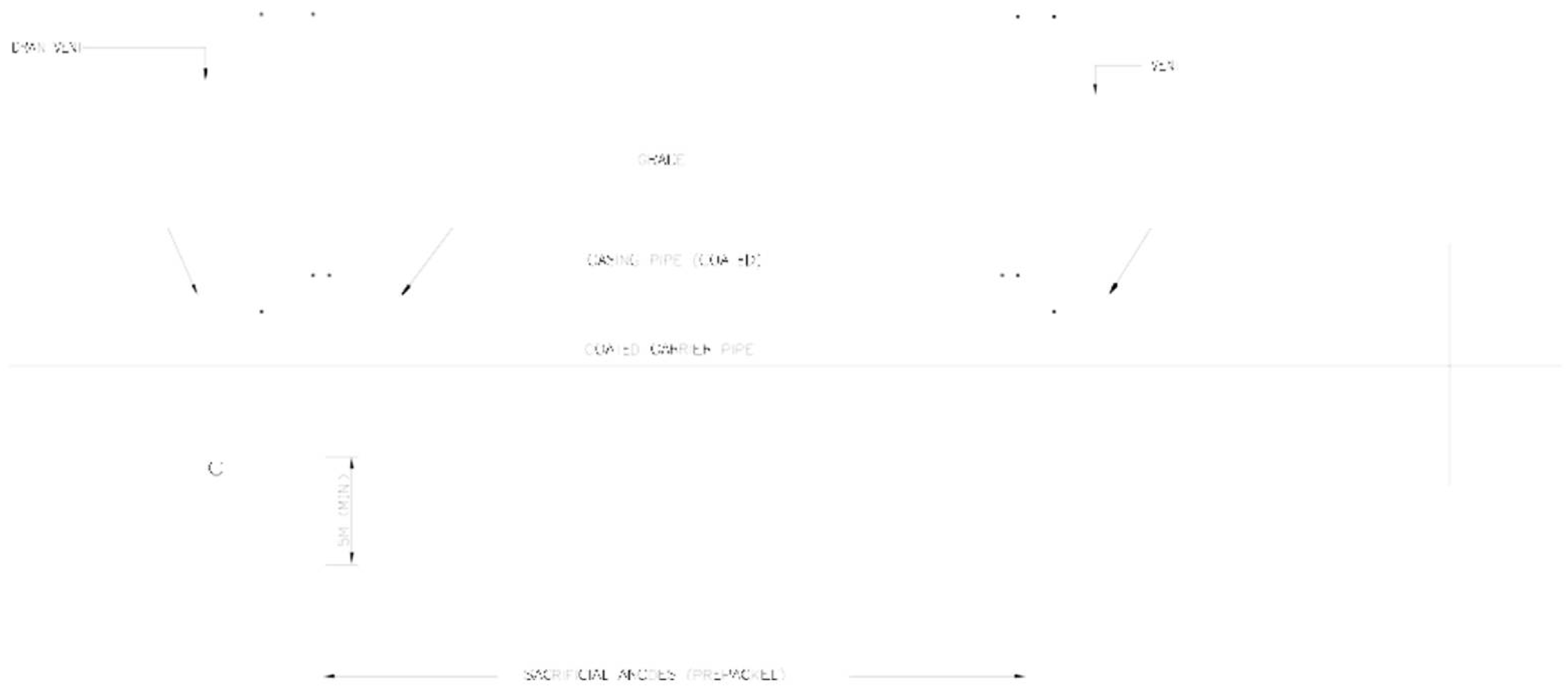


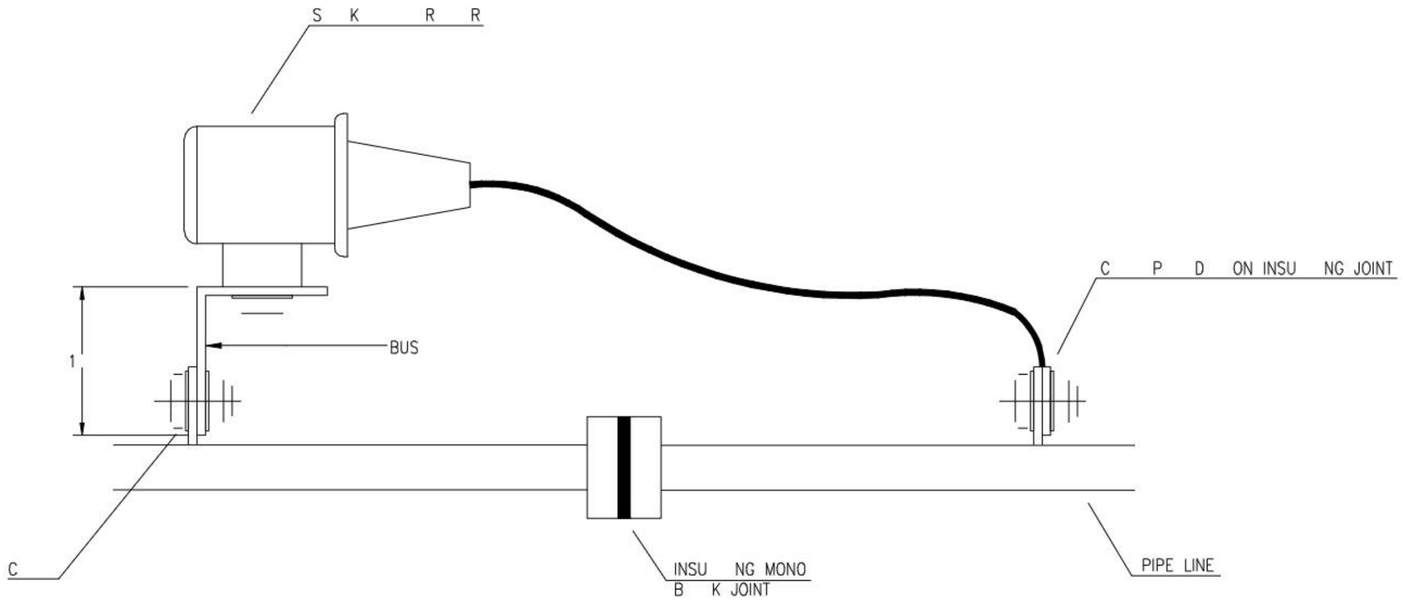
(i) GYPSUM – 75%
(ii) BENTONITE – 20%
(iii) SODIUM SULPHATE – 5%
(#) ANODE UTILIZATION FACTOR – 85%


DRAIN VENT
VENT
GRADE
CASING PIPE (COATED)
COATED CARRIER PIPE
5M (MIN)
SACRIFICIAL ANODES (PREPACKED)

cugPage 365
803

A1
A2
GL
A10
A11
A12
SINGLE ANODE (MMO)
BACKFILL
BACKFILL WITH BRIDGE

EPOXY RESIN
COUPLER LUG
M-SEAL
M-SEAL
PIPELINE COATING
STEEL PIPE WALL



TE

1. DIM SIONS E IN MM UN SE SP IFI .
2. DIM SIONS ON N
3. THIS D NG R IN R ON ON

S. .	DE I TI	.
1	TINN THK mm AT ONE	1
2	TINN COPP BUS BAR mm X 3mm THK 'L' S E B D AT C FOR TOTAL mm TO BE DIVID IN TWO PART BOTH END WILL HAVE M12 HO	1
3	N 10 SIZE B NUT , WASH N NUT ARE P DED EACH S K GAP ARR R.	2

0	05.10.16 D M Y	PR D	R			

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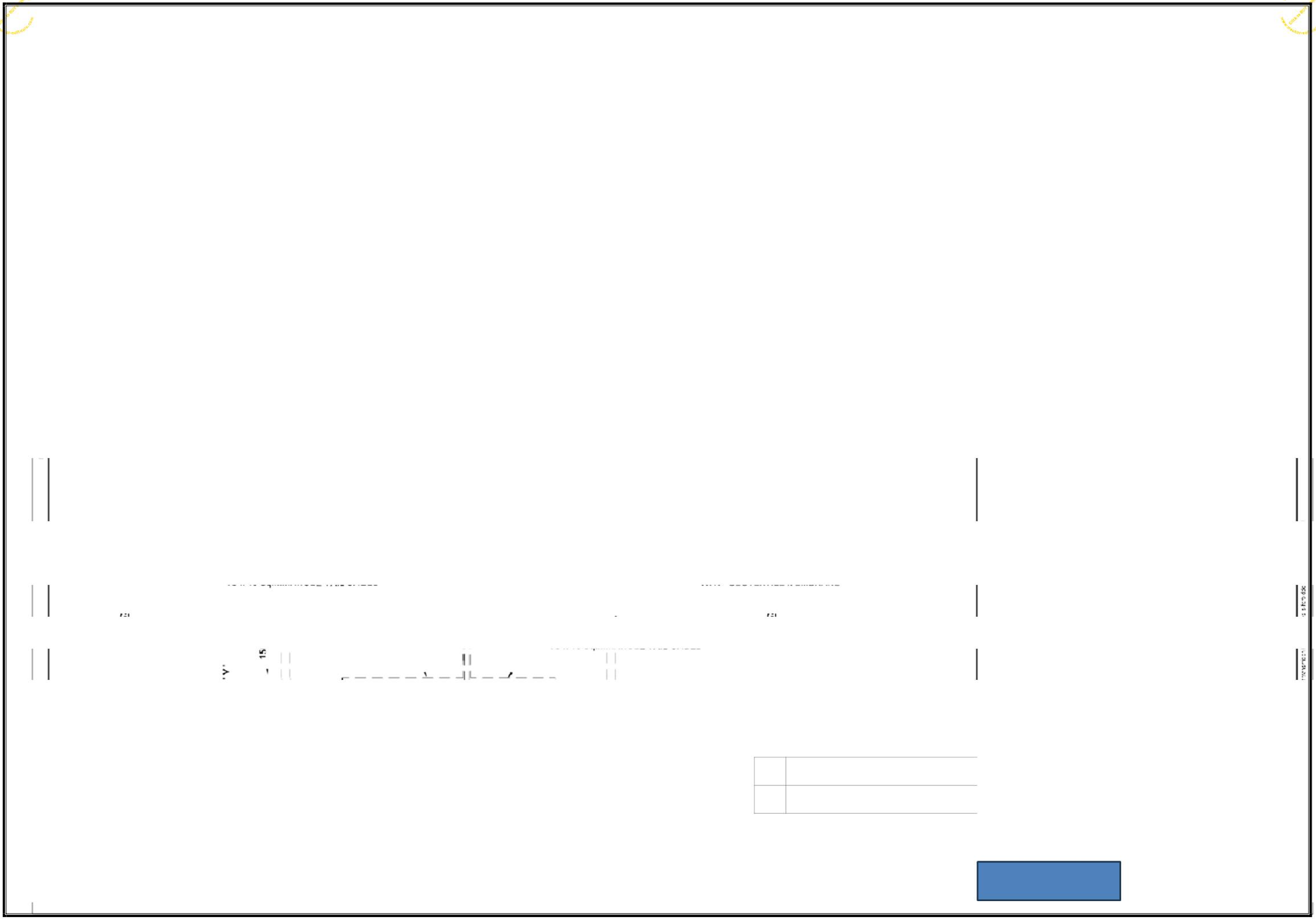
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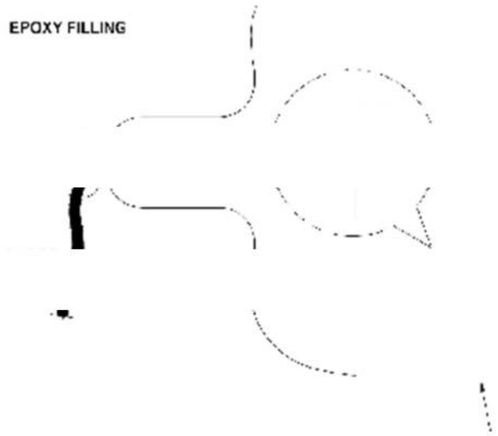
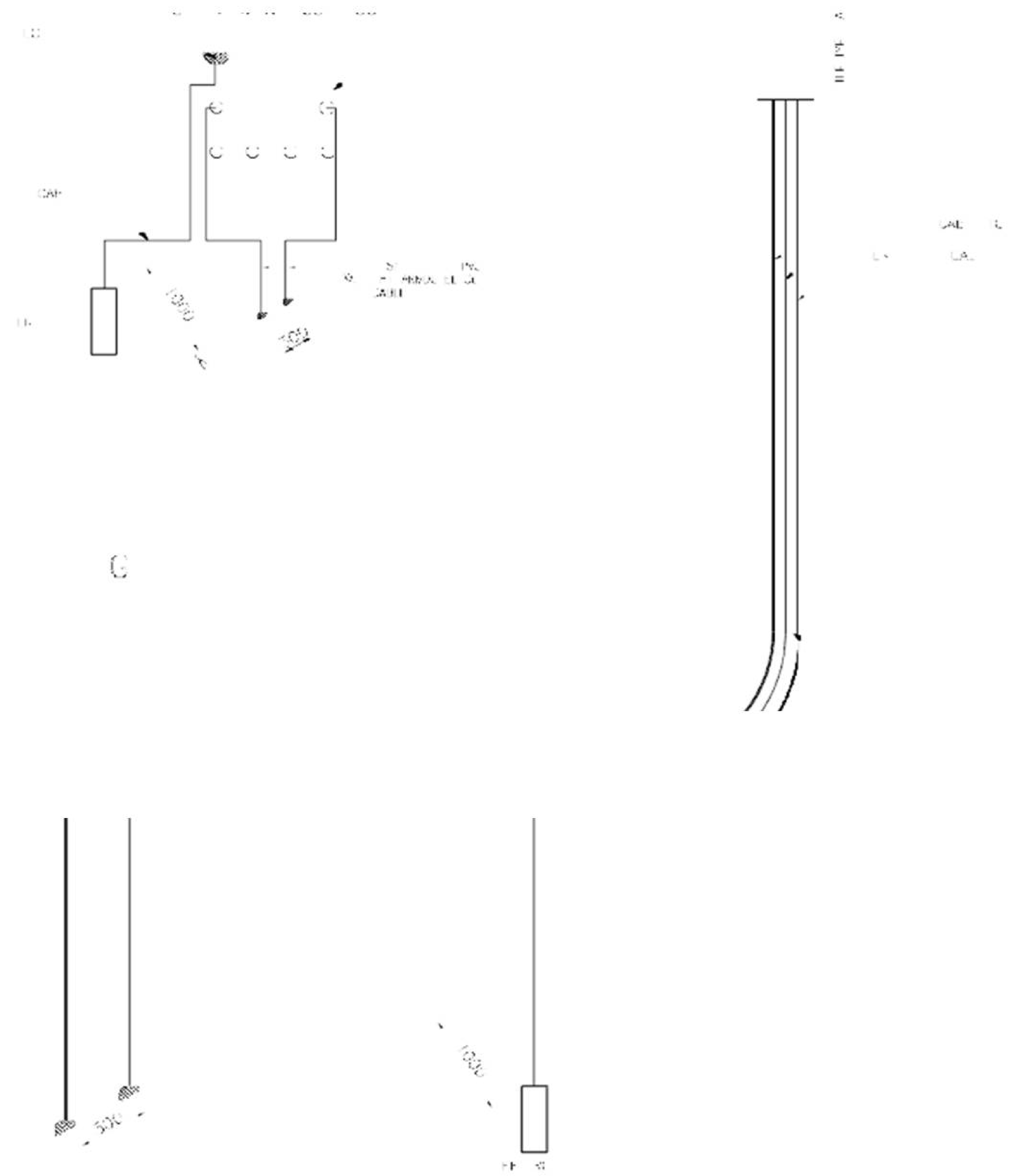
DISC
PIPELINE



DETAIL-X