

[illegible]

CHANGE RECORD SHEET

SHEET NO.	REVISION								
	D00	D01	D02	D03	D04	D05	D06	D07	D08
1	X	X	X						
2	X	X	X						
3	X	X	X						
4	X	X	X						
5	X	X	X						
6	X	X	X						
7	X	X	X						
8			X						
9			X						
10			X						
11			X						
12			X						
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41									
42									

NOTES

LEGEND

REFERENCE DRAWING

DRG. No.

UNIT PLAT PLAN DRAWING

HE-GCS-PEDCO-120-PI-PY-0001




SPECIFICATION FOR FIRE & GAS SENSOR AND SERVICES

HE-GSAL-PEDCO-000-18-02-0000

FIRE & GAS DETECTION DESIGN CRITERIA

HE-GCS-PEDCO-120-18-DC-0001

KEY PLAN

DOE	OCT.2022	IFA	P.SILVERBERG	A.FACHMAN	M.MOHRSHAD	00.00	000	0000000000	00.00	000.0000	00.00	000.0000						
DO1	MAY.2022	IFA	P.SILVERBERG	A.FACHMAN	M.MOHRSHAD	00.00	REV.	DESCRIPTION	BY	DATE	BY	DATE						
DOO	FEB.2022	IPC	P.SILVERBERG	A.FACHMAN	M.MOHRSHAD	00.00		CHECKED			REV. APPR.							
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.	اصل و کليه نسخ اين نقشه و حق انقياس متعلق به شرکت ملی مناطق نفت خيز جنوب مي باشد.											
PROJECT NAME: BINAQ OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION							 THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS											
PROJECT NO.: 071000							BINAQ OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION											
EPC CONTRACTOR:			EPD/EPC CONTRACTOR (GC):															
 HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES			 PETROIRAN DEVELOPMENT COMPANY															
DRAWING TITLE: F&G LOCATION LAYOUT FOR PROCESS AREA							NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED											
APPROVED FOR CONSTRUCTION							BY: DATE:											
SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION							
	A3	HK-GCS-PEDCO-120-IN-PY-0005	02 OF 12	D02	0-60-070-0184	F	2	J	708090	12	D02							

(VENDOR TITLE BLOCK)**

~~TO BINAK-GLUSTER-FACILITES~~

AREA	DESCRIPTION
AREA-1	PIG RECEIVER AREA
AREA-2	SLUG CATCHER SYSTEM AREA
AREA-3	CHEMICAL PACKAGE AREA
AREA-4	1ST. & 2ND STAGE GAS COMPRESSOR AREA
AREA-5	1ST. & 2ND STAGE AIR COMPRESSOR AREA
AREA-6	SUMP & PIG LAUNCHER AREA
AREA-7	LEAN GLN/COL STORAGE TANK & DEHYDRATION PACKAGE AREA
AREA-8	DIESEL GENERATOR AREA
AREA-9	AIR COMPRESSOR AIR DRYER PACKAGES AREA

NEW FLARE AREA






TAG NO.	EQUIPMENT LIST
DELETED	DELETED
PL-5201	PIG LAUNCHER
PR-2102	GOLDAK 3 PIG RECEIVER (BY OTHERS)
DELETED	DELETED
SU-2201	CLOSED DRUM AND FLARE DRUM SLUMP
SU-2202	OLY WATER SLUMP
DELETED	DELETED
TK-2102	LEAN GLYCOL STORAGE TANK
TK-2209	POTABLE WATER TANK
TK-2301 A/B	FIRE WATER STORAGE TANKS
V-2101 A/B/C	1ST STAGE GAS SUCTION DRUM
V-2102 A/B/C	2ND STAGE GAS SUCTION DRUM
V-2103	2ND STAGE GAS DISCHARGE DRUM
V-2104	SUG CATCHER DRUM
V-2105	INLET KNOCK OUT DRUM
V-2106	DEGASSING DRUM
V-2107	GLYCOL SLUMP DRUM
V-2201	FLARE K.O. DRUM
V-2202	CLOSED DRUM
V-2301	INSTRUMENT AIR RECEIVER
V-2304	NITROGEN RECEIVER
V-2205	FUEL GAS K.O. DRUM
V-2206	FUEL OL STORAGE DRUM
V-2207	DIESEL CONVERSION DIESEL OIL DRUM
X-2110	NEW SEPTIC PACKAGE

TAG NO.	EQUIPMENT LIST
AE-2101 A/B/C	1ST STAGE GAS AIR COOLER
AE-2102 A/B/C	2ND STAGE GAS AIR COOLER
CE-2101 A/B/C	1ST STAGE GAS COMPRESSORS
AE-2102 A/B/C	2ND STAGE GAS COMPRESSORS
FST-2201	LP FLARE STACK
P-2201	LP FLARE IGNITION PACKAGE
CE-2201 A/B	SULC PUMPS
P-2102	GYCOL MANUAL PUMP
P-2103 A/B	GYCOL TRANSFER PUMPS
P-2104	GYCOL DRAIN PUMP
DELETED	DELETED
P-2201 A/B	FLARE K.O. DRUM PUMPS
P-2202 A/B	CLORED DRAIN PUMPS
P-2203 A/B	SUMP PUMPS
P-2206	FUEL OIL PUMP
P-2207	DIESEL GENERATOR DIESEL PUMP
P-2209	POTABLE WATER PUMP
P-2201 A	FIRE WATER PUMP - ELECTRICAL MOTOR DRIVEN
P-2201 B	FIRE WATER PUMP - DIESEL ENGINE DRIVEN
P-2201 A/B	FIRE WATER JOCKEY PUMPS
PK-2101	GAS DEHYDRATION PACKAGE
PK-2103 A/B	AIR COMPRESSOR PACKAGES
PK-2108 A/B	AIR DRYER PACKAGE
CK-2204	NITROGEN COMPRESSOR PACKAGE
CK-2204	NITROGEN GENERATION PACKAGE
CK-2205	DIESEL GENERATOR PACKAGE
CK-2207	CORROSION INHIBITOR INJECTION PACKAGE

(VENDOR TITLE BLOCK)*

[illegible]

LEGEND

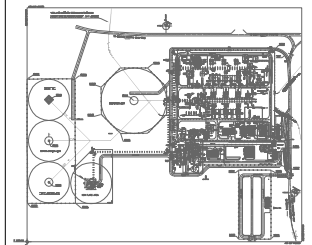
			BEACON(RED/BLUE/YELLOW)
	HORN		
	MANUAL CALL POINT		

REFERENCE DRAWING

DRG. No.	
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UNIT PLAN DRAWING	HK-GCS-PEDCO-120-P1-P1-0001
SPECIFICATION FOR FIRE & GAS SENSOR AND DEVICES	HK-ONRAL-PEDCO-000-IN-SF-0000
FIRE & GAS DETECTION DESIGN CRITERIA	HK-GCS-PEDCO-120-IN-DC-0001

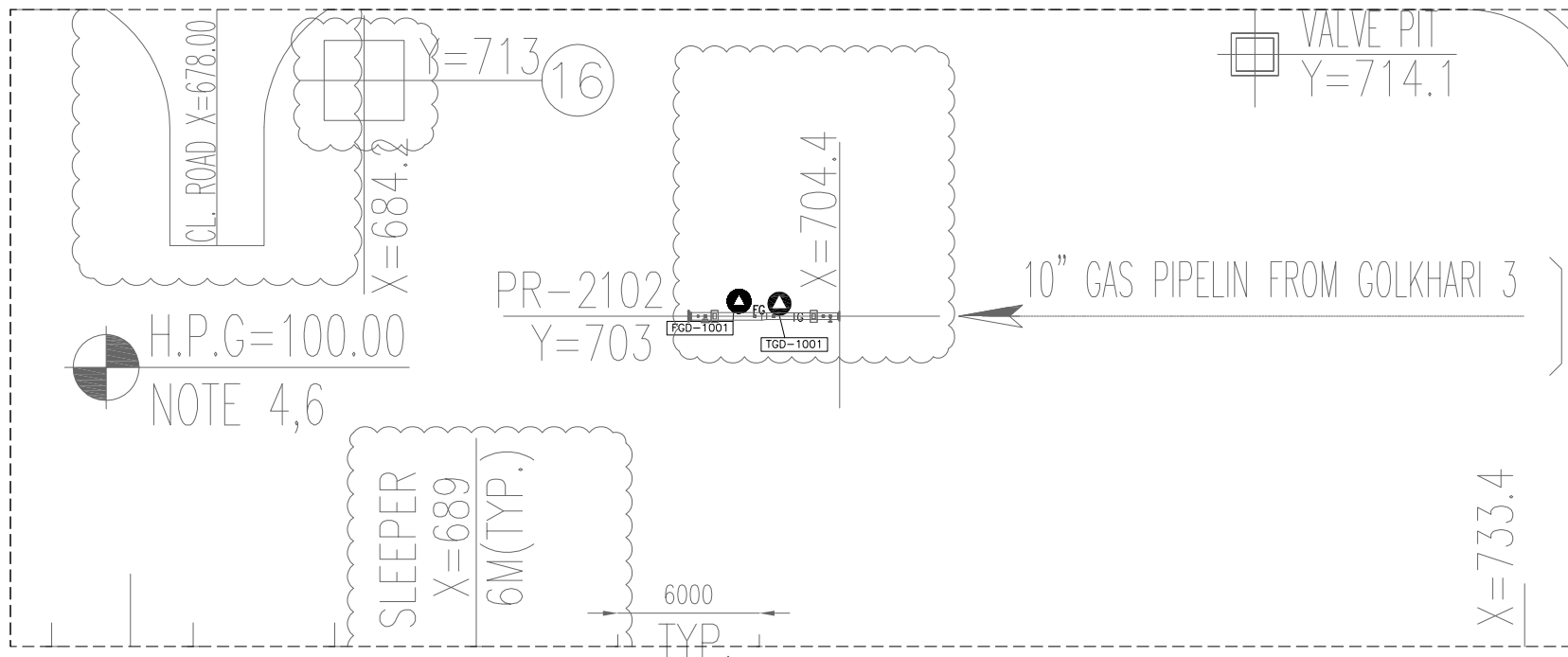
KEY PLAN





D02

TOTALLY
REVISED



ITEM	DESCRIPTION	QTY.	INSTALLATION ELEVATION
1	FLAMMABLE GAS DETECTOR(FGD)	1	TO BE FINALIZED LATER AS PER PDMS MODEL
2	TOXIC GAS DETECTOR(TGD)	1	TO BE FINALIZED LATER AS PER PDMS MODEL

AREA-1: PIG RECIEVER AREA

NOTES

- DIMENSIONS ARE IN MILLIMETER.
- ALL EQUIPMENT SHALL BE MOUNTED ON 2" PIPE.
- ALL INSTALLATION ELEVATION SHALL BE ADJUSTED AT SITE.
- FGDs SHALL BE LOCATED AT HEIGHT 1.5-2.5 METER AND TGDs SHALL BE LOCATED AT HEIGHT 0.5-1.5 METER ABOVE FINISHED FLOOR.
- FOR GAS/VAPOR IS LIGHTER THAN THE AIR (FLAMMABLE GAS DETECTOR) SHALL BE INSTALLED 0.5m ABOVE FLANGE/VALVE.
- FOR GAS/VAPOR IS HEAVIER THAN THE AIR (TOXIC GAS DETECTOR) SHALL BE INSTALLED 0.5m BELOW FLANGE/VALVE.
- THIS DOCUMENT IS PREPARED AS PER LATEST VERSION OF REFERENCE DOCUMENTS.

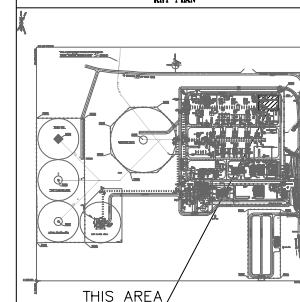
LEGEND

- FG FLAMMABLE GAS DETECTOR
- LINEAR HEAT DETECTOR
- TG TOXIC GAS DETECTOR

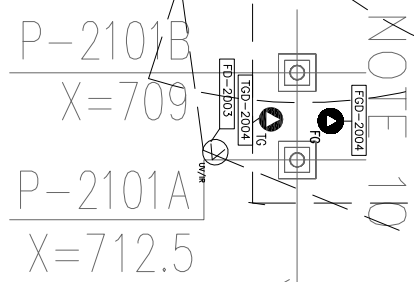
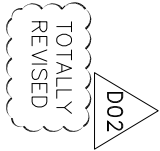
REFERENCE DRAWING

UNIT PLANT PLAN DRAWING	DRG. No.
SPECIFICATION FOR FIRE & GAS SENSOR AND DETECTOR	IRI-GCS-PEDCO-120-IN-PY-0001
FIRE & GAS DETECTION DESIGN CRITERIA	IRI-GCS-PEDCO-120-IN-DC-0001

KEY PLAN






PROJECT NO.:	071080	PROJECT NAME:	BINAQ OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION
EPC CONTRACTOR:	IRISAN ENERGY - DESIGN & INSPECTION COMPANY	EPC CONTRACTOR (GC):	PETROIRAN DEVELOPMENT COMPANY
DRAWING TITLE:	F&G LOCATION LAYOUT FOR PROCESS AREA	NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED	
SCALE:	1/200	APPROVED FOR CONSTRUCTION BY:	DATE:
SIZE:	A3	BUDGET REF. LOCATION SIZE CLASS SERIAL NO. SHEET REVISION	
		IRI-GCS-PEDCO-120-IN-PY-0005	04 OF 12 D02
		0-68-078-0184	F 2 J 708090 12 D02

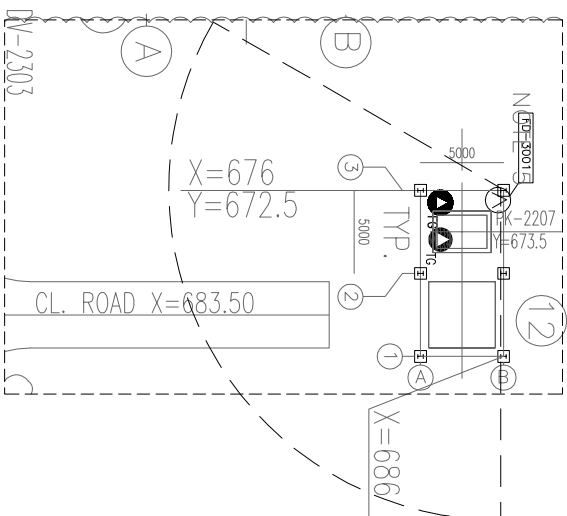
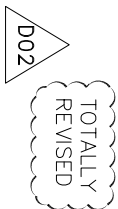


AREA-2: SLUG CATCHER SYSTEM AREA

1. DIMENSIONS ARE IN MILLIMETERS.
2. ALL EQUIPMENT SHALL BE LOCATED ON 2ND FLOOR.
3. ALL INSTALLATION ELEVATION SHALL BE ADJUSTED AT SITE.
4. FLAME DETECTOR SHALL BE PUT ON A SHELF THAT IS TWICE THE HEIGHT OF THE HIGHEST ROCKET IN THE AREA.
5. RADIUS OF ROP COVERAGE IS CONSIDERED 3000mm.
6. FISH SHALL BE LOCATED AT HEIGHT 1.5-2.5 METER AND TONG SHALL BE LOCATED AT HEIGHT 0.1-0.2 METER ABOVE FINISHED FLOOR.
7. FOR AS/VAMOR IS LIGHTER THAN THE AIR (FLAMMABLE GAS DETECTOR) SHALL BE INSTALLED 0.5 M ABOVE FINISH/AIR/VALE.
8. FOR AS/VAMOR IS HEAVIER THAN THE AIR (TOXIC GAS DETECTOR) SHALL BE INSTALLED 0.5 M BELOW FINISH/AIR/VALE.
9. THIS DOCUMENT IS PREPARED AS PER LATEST VERSION OF RELEVANT DOCUMENTS.

	FLAMMABLE GAS DETECTOR
	TOXIC GAS DETECTOR
	FLAME DETECTOR

REFERENCE DRAWING	DWG. No.
UNIT PLOT PLAN DRAINAGE	HC-003-7PDC0-120-15-PY-0001
SPECIFICATION FOR PILES & GAS SENSOR AND DEVICES	EX-004L-7PDC0-000-10-15-0009
PILES & GAS DETECTION DESIGN CERTIFICA	HC-003-7PDC0-120-15-DC-0001



ITEM	DESCRIPTION	QTY.	INSTALLATION ELEVATION
1	FLAMMABLE GAS DETECTOR (FGD)	1	TO BE FINIALIZED LATER AS PER PDMs MODEL
2	TOXIC GAS DETECTOR (TGD)	1	TO BE FINIALIZED LATER AS PER PDMs MODEL
3	FLAME DETECTOR (FD)	1	TO BE FINIALIZED LATER AS PER PDMs MODEL

[illegible]

 HIRFAN ENERGY - DESIGN & INSPECTION	 PETROBRAN DEVELOPMENT COMPANY	SURFACE FACILITIES		
		GAS COMPRESSOR STATION		
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT NO.

(PERSON TITLE BLOCK)**	DRAWING TITLE:						NO CONSTRUCTION PERMITTED		UNLESS DRAWING APPROVED	
	P&G LOCATION LAYOUT FOR PROCESS AREA						APPROVED BY:		DATE:	
SCALE	SHEET	DRAWING NO.	SHEET NO.	RBY	INCHES REQ.	LOCATION	BEE CLASS	SERIAL NO.	SHEET	METRIC
1/300	A3	ME-DCS-P&GC-120-N-PT-0005	04 OF 12	D08	0-63-779-9164	F	Z	J	706900	12

AREA-3:CHEMICAL PACKAGE AREA

NOTES

1. DIMENSIONS ARE IN MILLIMETER.
 2. ALL COMPONENT SHALL BE MOUNTED ON 7" PIPE.
 3. ALL INSTALLATION ELEVATION SHALL BE ADJUSTED AT SITE.
 4. FLAME DETECTOR SHALL BE PUT ON A HEIGHT THAT IS TWICE THE HEIGHT OF THE HARBOR DUCTED IN THE AREA.
 5. HAZARD OF FLU COVERAGE IS CONSIDERED 2000MM.
 6. BURN SHALL BE LOCATED AT HEIGHT 1.5-2.2 METRE AND TOP SHALL BE LOCATED AT HEIGHT 12-15 METRE FROM THE HARBOR DUCTED IN THE AREA.
 7. DETECTOR SHALL BE INSTALLED 12-15 METRE FROM THE HARBOR DUCTED IN THE AREA.
 8. TOP OF HARBOR DUCT IS HEATED THAN THE FLAME (HAS DETECTION) SHALL BE INSTALLED 15mm BELOW HARBOR DUCT.
9. THIS DOCUMENT IS PREPARED AS PER LATEST VERSION OF REFERENCE DOCUMENTS.

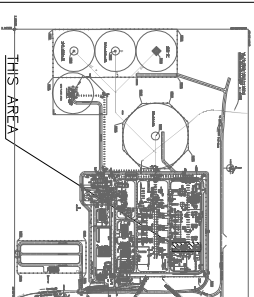
URGENT

- | | | |
|------------------------|-------|--|
| FLAMMABLE GAS DETECTOR | FG | |
| TOXIC GAS DETECTOR | TG | |
| FLAME DETECTOR | UV/IR | |

REFERENCE DRAWING

UNIT PLAT PLAN DRAWING	HK-02S-P2000-120-PI-PI-000
SPECIFICATION FOR FIRE & GAS SENSOR AND DEVICES	HK-02S-PI2000-000-IN-SF-000
FIRE & GAS DETECTION DESIGN CRITERIA	HK-02S-P2000-130-IN-DC-000

KEY PLAN



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N.I.S.O.C./ FIELDS

**BINAK OILFIELD DEVELOPMENT
SURFACE FACILITIES
GAS COMPRESSOR STATION**

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
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0-63-073-9184	P	2	J	706990	12	D02
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TOTALLY
REVISED
D02

NOTES

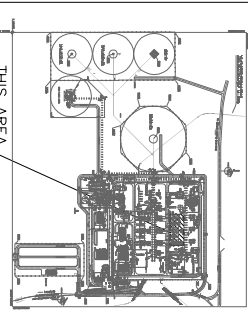
1. DIMENSIONS ARE IN MILLIMETER.
2. ALL EQUIPMENT SHALL BE MOUNTED ON 1" PIPE.
3. ALL INSTALLATION ELEVATION SHALL BE ADJUSTED AT SITE.
4. FLAMMABLE GAS DETECTOR SHALL BE LOCATED ON A HEIGHT THAT IS TWICE THE HEIGHT OF THE PROCESS VESSEL OR TANK.
5. RADIUS OF FD COVERAGE IS CONSIDERED 3000mm.
6. FD'S SHALL BE LOCATED AT HEIGHT 1.5-2.5 METERS AND TOP SHALL BE LOCATED AT HEIGHT 0.5-1.5 METERS ABOVE INSURED FLOOR.
7. FOR GAS/VAPOR IS LIGHTER THAN THE AIR (FLAMMABLE GAS DETECTOR) SHALL BE INSTALLED 0.5m ABOVE FLAME/VAPE.
8. FOR GAS/VAPOR IS HEAVIER THAN THE AIR (TOXIC GAS DETECTOR) SHALL BE INSTALLED 0.5m BELOW FLAME/VAPE.
9. THIS DOCUMENT IS PREPARED AS PER LATEST VERSION OF APPLICABLE STANDARDS.

LEGEND

- FLAMMABLE GAS DETECTOR
TOXIC GAS DETECTOR
FLAME DETECTOR

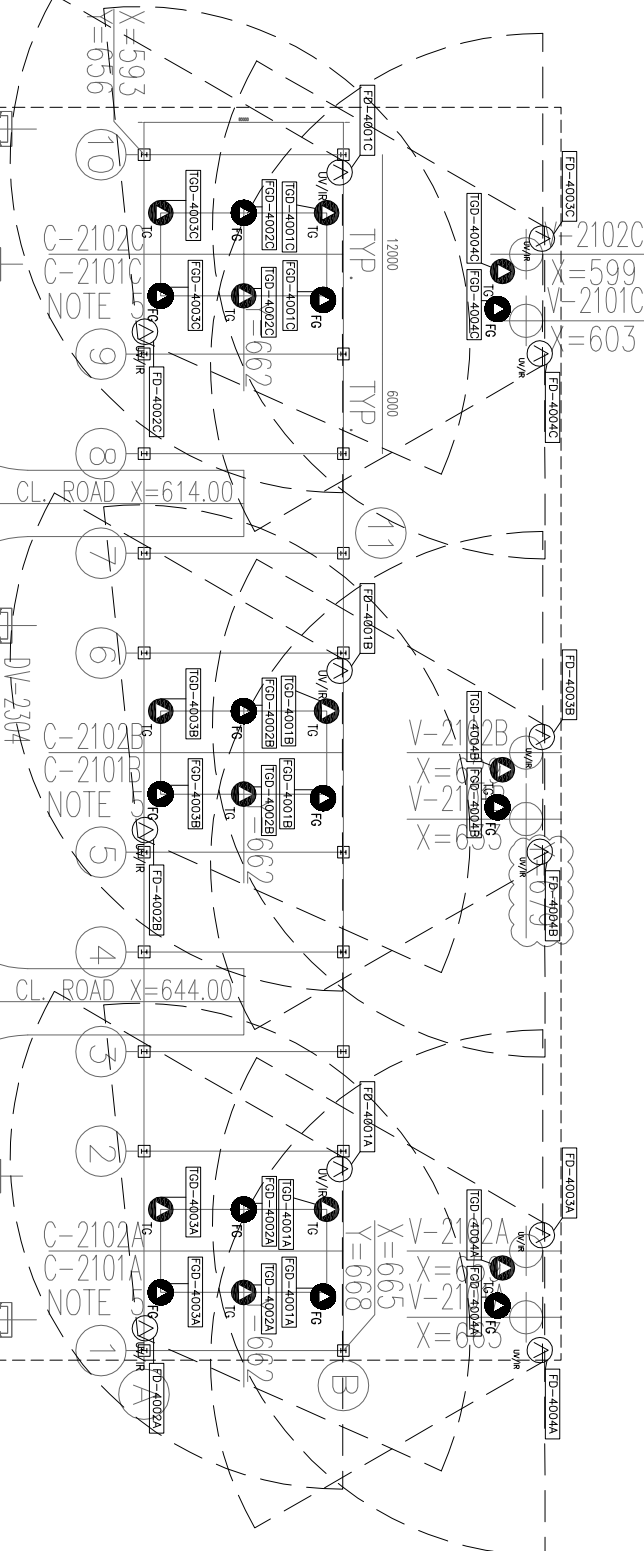
REFERENCE DRAWING	DATE
DATE FOR FINAL DRAWING	DATE FOR FINAL DRAWING
DATE FOR PRELIMINARY DRAWING	DATE FOR PRELIMINARY DRAWING
DATE FOR CONSTRUCTION DRAWING	DATE FOR CONSTRUCTION DRAWING

KEY PLAN



ITEM	DESCRIPTION	QTY.	INSTALLATION ELEVATION
1	FLAMMABLE GAS DETECTOR(FGD)	12	TO BE FINALIZED LATER AS PER PIMS MODEL
2	TOXIC GAS DETECTOR(TGD)	12	TO BE FINALIZED LATER AS PER PIMS MODEL
3	FLAME DETECTOR(FD)	12	TO BE FINALIZED LATER AS PER PIMS MODEL

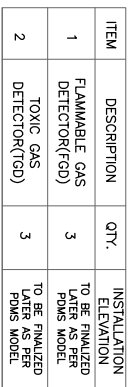
AREA-4: 1ST. & 2ND STAGE GAS COMPRESSOR AREA



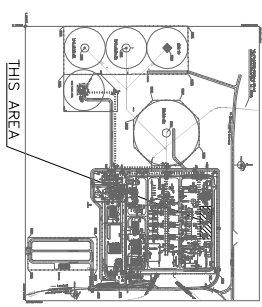
DATE	SCALE	DRAWING BY	CHECKED BY	DATE
DATE	SCALE	DRAWING BY	CHECKED BY	DATE
DATE	SCALE	DRAWING BY	CHECKED BY	DATE

































DATE	SCALE	DRAWING BY	CHECKED BY	DATE
DATE	SCALE	DRAWING BY	CHECKED BY	DATE
DATE	SCALE	DRAWING BY	CHECKED BY	DATE

DATE	SCALE	DRAWING BY	CHECKED BY	DATE
DATE	SCALE	DRAWING BY	CHECKED BY	DATE
DATE	SCALE	DRAWING BY	CHECKED BY	DATE



AREA-5: 1ST. & 2ND STAGE AIR COOLER AREA

[illegible]

 PDC CONTRACTOR	 PETROBRAS	 PDC CONTRACTOR (CO):	 BANK OBTAINED DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION	DATES			
				SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.
 BANK OBTAINED DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION	 PETROBRAS	 PDC CONTRACTOR (CO):	 BANK OBTAINED DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION	DATES			
 PETROBRAS	 PDC CONTRACTOR	 PDC CONTRACTOR (CO):	 BANK OBTAINED DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION	DATES			
 BANK OBTAINED DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION	 PETROBRAS	 PDC CONTRACTOR (CO):	 BANK OBTAINED DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION	DATES			
 PETROBRAS	 PDC CONTRACTOR	 PDC CONTRACTOR (CO):	 BANK OBTAINED DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION	DATES			
 BANK OBTAINED DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION	 PETROBRAS	 PDC CONTRACTOR (CO):	 BANK OBTAINED DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION	DATES			
 PETROBRAS	 PDC CONTRACTOR	 PDC CONTRACTOR (CO):	 BANK OBTAINED DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION	DATES			
 BANK OBTAINED DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION	 PETROBRAS	 PDC CONTRACTOR (CO):	 BANK OBTAINED DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION	DATES			

DRAWING TITLE		NO. CONTRACTOR PERMITTED (NUMBER DRAWING APPROVED)	
REG. LOCATION LAYOUT FOR PROCESS AREA		BY:	
SCALE	SHEET	DRAWING NO.	SHEET NO.
1/300	A3	REG-002-PRDCT-100-PR-0003	07 OF 12
			DOZ
			REV
			0-03-079-014
			PROJECT APP.
			LOCATION (SITE CLASS)
			2
			1
			700000
			12
			DOZ

<div>NOTES</div> <div><div><div>1. DIMENSIONS ARE IN MILLIMETER.</div><div>2. ALL COMPONENT SHALL BE MOUNTED ON 7" PIPE.</div><div>3. ALL INSTALLATION ELEVATION SHALL BE INDICATED AT SITE.</div><div>4. TROD SHALL BE LOCATED AT HEIGHT 1.5-2.3 METER AND TROD SHALL BE LOCATED AT HEIGHT 0.5-1.5 METER ABOVE FINISHED FLOOR.</div><div>5. TROD COLOUR/SHADE IS LIGHTER THAN THE GAS FLAMMABLE GAS.</div><div>6. FOR COLOUR/SHADE IS LIGHTER THAN THE GAS TROD COLOUR/SHADE SHALL BE INDICATED 0.2cm BELOW FLAME/HAZE.</div><div>7. THIS DOCUMENT IS PREPARED AS PER LATEST VERSION OF REFERENCE DOCUMENTS.</div></div></div>		
<div>REFERENCE DRAWING</div> <div>UNION PLANT DRAWING</div> <div>FIG 1 GAS DETECTION SYSTEM CENTRAL</div> <div>FIG 2 GAS DETECTION SYSTEM CENTRAL</div>	<div>FIG 1</div> <div>FIG 2</div> <div>FIG 3</div> <div>FIG 4</div> <div>FIG 5</div> <div>FIG 6</div> <div>FIG 7</div> <div>FIG 8</div> <div>FIG 9</div> <div>FIG 10</div> <div>FIG 11</div> <div>FIG 12</div> <div>FIG 13</div> <div>FIG 14</div> <div>FIG 15</div> <div>FIG 16</div> <div>FIG 17</div> <div>FIG 18</div> <div>FIG 19</div> <div>FIG 20</div> <div>FIG 21</div> <div>FIG 22</div> <div>FIG 23</div> <div>FIG 24</div> <div>FIG 25</div> <div>FIG 26</div> <div>FIG 27</div> <div>FIG 28</div> <div>FIG 29</div> <div>FIG 30</div> <div>FIG 31</div> <div>FIG 32</div> <div>FIG 33</div> <div>FIG 34</div> <div>FIG 35</div> <div>FIG 36</div> <div>FIG 37</div> <div>FIG 38</div> <div>FIG 39</div> <div>FIG 40</div> <div>FIG 41</div> <div>FIG 42</div> <div>FIG 43</div> <div>FIG 44</div> <div>FIG 45</div> <div>FIG 46</div> <div>FIG 47</div> <div>FIG 48</div> <div>FIG 49</div> <div>FIG 50</div> <div>FIG 51</div> <div>FIG 52</div> <div>FIG 53</div> <div>FIG 54</div> <div>FIG 55</div> <div>FIG 56</div> <div>FIG 57</div> <div>FIG 58</div> <div>FIG 59</div> <div>FIG 60</div> <div>FIG 61</div> <div>FIG 62</div> <div>FIG 63</div> <div>FIG 64</div> <div>FIG 65</div> <div>FIG 66</div> <div>FIG 67</div> <div>FIG 68</div> <div>FIG 69</div> <div>FIG 70</div> <div>FIG 71</div> <div>FIG 72</div> <div>FIG 73</div> <div>FIG 74</div> <div>FIG 75</div> <div>FIG 76</div> <div>FIG 77</div> <div>FIG 78</div> <div>FIG 79</div> <div>FIG 80</div> <div>FIG 81</div> <div>FIG 82</div> <div>FIG 83</div> <div>FIG 84</div> <div>FIG 85</div> <div>FIG 86</div> <div>FIG 87</div> <div>FIG 88</div> <div>FIG 89</div> <div>FIG 90</div> <div>FIG 91</div> <div>FIG 92</div> <div>FIG 93</div> <div>FIG 94</div> <div>FIG 95</div> <div>FIG 96</div> <div>FIG 97</div> <div>FIG 98</div> <div>FIG 99</div> <div>FIG 100</div> <div>FIG 101</div> <div>FIG 102</div> <div>FIG 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<div>REFERENCE DRAWING</div> <div>UNION PLANT DRAWING</div> <div>FIG 1 GAS DETECTION SYSTEM CENTRAL</div> <div>FIG 2 GAS DETECTION SYSTEM CENTRAL</div>	<div>FIG 1</div> <div>FIG 2</div> <div>FIG 3</div> <div>FIG 4</div> <div>FIG 5</div> <div>FIG 6</div> <div>FIG 7</div> <div>FIG 8</div> <div>FIG 9</div> <div>FIG 10</div> <div>FIG 11</div> <div>FIG 12</div> <div>FIG 13</div> <div>FIG 14</div> <div>FIG 15</div> <div>FIG 16</div> <div>FIG 17</div> <div>FIG 18</div> <div>FIG 19</div> <div>FIG 20</div> <div>FIG 21</div> <div>FIG 22</div> <div>FIG 23</div> <div>FIG 24</div> <div>FIG 25</div> <div>FIG 26</div> <div>FIG 27</div> <div>FIG 28</div> <div>FIG 29</div> <div>FIG 30</div> <div>FIG 31</div> <div>FIG 32</div> <div>FIG 33</div> <div>FIG 34</div> <div>FIG 35</div> <div>FIG 36</div> <div>FIG 37</div> <div>FIG 38</div> <div>FIG 39</div> <div>FIG 40</div> <div>FIG 41</div> <div>FIG 42</div> <div>FIG 43</div> <div>FIG 44</div> <div>FIG 45</div> <div>FIG 46</div> <div>FIG 47</div> <div>FIG 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<div>FIG 156</div> <div>FIG 157</div> <div>FIG 158</div> <div>FIG 159</div> <div>FIG 160</div> <div>FIG 161</div> <div>FIG 162</div> <div>FIG 163</div> <div>FIG 164</div> <div>FIG 165</div> <div>FIG 166</div> <div>FIG 167</div> <div>FIG 168</div> <div>FIG 169</div> <div>FIG 170</div> <div>FIG 171</div> <div>FIG 172</div> <div>FIG 173</div> <div>FIG 174</div> <div>FIG 175</div> <div>FIG 176</div> <div>FIG 177</div> <div>FIG 178</div> <div>FIG 179</div> <div>FIG 180</div> <div>FIG 181</div> <div>FIG 182</div> <div>FIG 183</div> <div>FIG 184</div> <div>FIG 185</div> <div>FIG 186</div> <div>FIG 187</div> <div>FIG 188</div> <div>FIG 189</div> <div>FIG 190</div> <div>FIG 191</div> <div>FIG 192</div> <div>FIG 193</div> <div>FIG 194</div> <div>FIG 195</div> <div>FIG 196</div> <div>FIG 197</div> <div>FIG 198</div> <div>FIG 199</div> <div>FIG 200</div> <div>FIG 201</div> <div>FIG 202</div> <div>FIG 203</div> <div>FIG 204</div> <div>FIG 205</div> <div>FIG 206</div> <div>FIG 207</div> <div>FIG 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<div>FIG 261</div> <div>FIG 262</div> <div>FIG 263</div> <div>FIG 264</div> <div>FIG 265</div> <div>FIG 266</div> <div>FIG 267</div> <div>FIG 268</div> <div>FIG 269</div> <div>FIG 270</div> <div>FIG 271</div> <div>FIG 272</div> <div>FIG 273</div> <div>FIG 274</div> <div>FIG 275</div> <div>FIG 276</div> <div>FIG 277</div> <div>FIG 278</div> <div>FIG 279</div> <div>FIG 280</div> <div>FIG 281</div> <div>FIG 282</div> <div>FIG 283</div> <div>FIG 284</div> <div>FIG 285</div> <div>FIG 286</div> <div>FIG 287</div> <div>FIG 288</div> <div>FIG 289</div> <div>FIG 290</div> <div>FIG 291</div> <div>FIG 292</div> <div>FIG 293</div> <div>FIG 294</div> <div>FIG 295</div> <div>FIG 296</div> <div>FIG 297</div> <div>FIG 298</div> <div>FIG 299</div> <div>FIG 300</div> <div>FIG 301</div> <div>FIG 302</div> <div>FIG 303</div> <div>FIG 304</div> <div>FIG 305</div> <div>FIG 306</div> <div>FIG 307</div> <div>FIG 308</div> <div>FIG 309</div> <div>FIG 310</div> <div>FIG 311</div> <div>FIG 312</div> <div>FIG 313</div> <div>FIG 314</div> <div>FIG 315</div> <div>FIG 316</div> <div>FIG 317</div> <div>FIG 318</div> <div>FIG 319</div> <div>FIG 320</div> <div>FIG 321</div> <div>FIG 322</div> <div>FIG 323</div> <div>FIG 324</div> <div>FIG 325</div> <div>FIG 326</div> <div>FIG 327</div> <div>FIG 328</div> <div>FIG 329</div> <div>FIG 330</div> <div>FIG 331</div> <div>FIG 332</div> <div>FIG 333</div> <div>FIG 334</div> <div>FIG 335</div> <div>FIG 336</div> <div>FIG 337</div> <div>FIG 338</div> <div>FIG 339</div> <div>FIG 340</div> <div>FIG 341</div> <div>FIG 342</div> <div>FIG 343</div> <div>FIG 344</div> <div>FIG 345</div> <div>FIG 346</div> <div>FIG 347</div> <div>FIG 348</div> <div>FIG 349</div> <div>FIG 350</div> <div>FIG 351</div> <div>FIG 352</div> <div>FIG 353</div>
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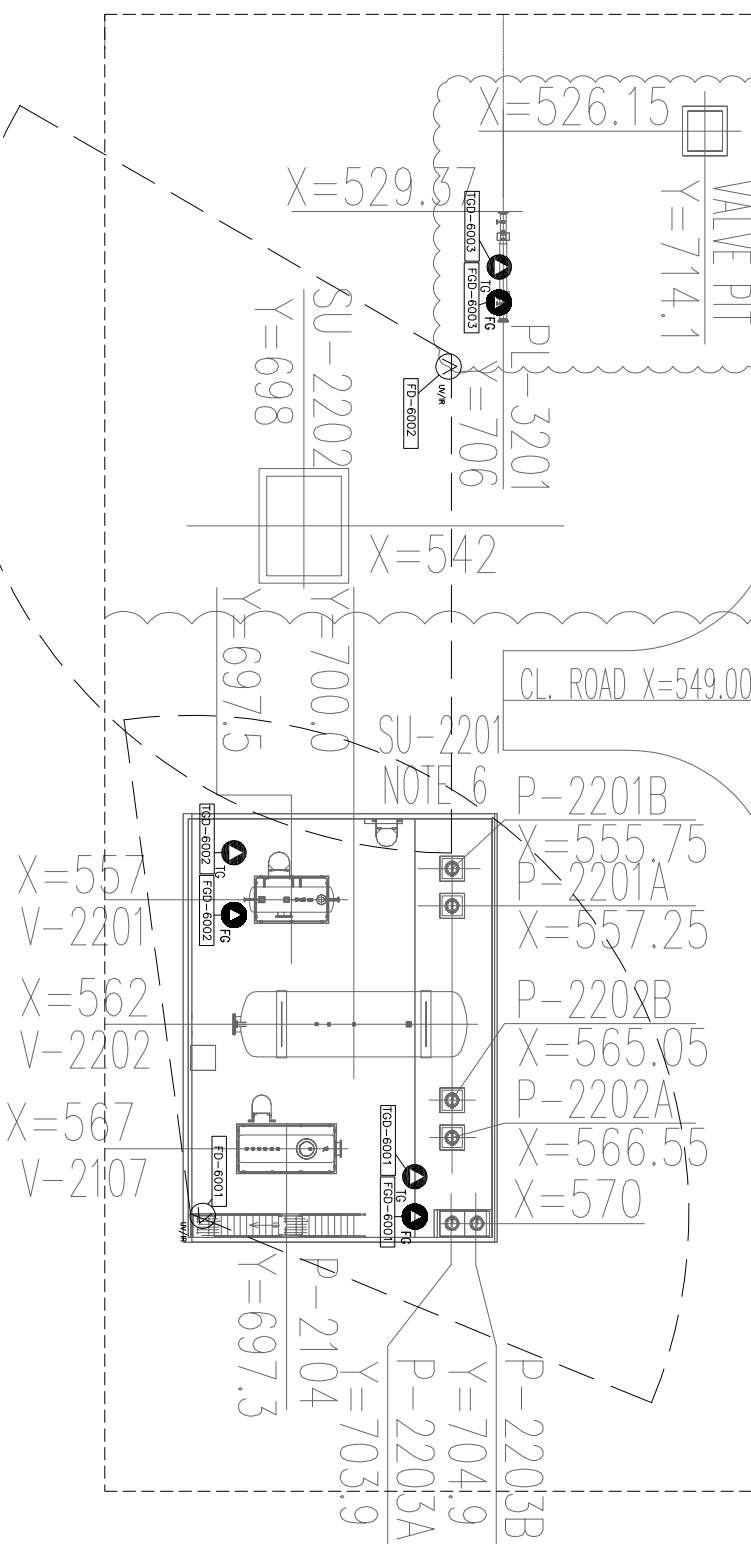
<div>REFERENCE DRAWING</div> <div>UNION PLANT DRAWING</div> <div>FIG 1 GAS DETECTION SYSTEM CENTRAL</div> <div>FIG 2 GAS DETECTION SYSTEM CENTRAL</div>	<div>FIG 1</div> <div>FIG 2</div> <div>FIG 3</div> <div>FIG 4</div> <div>FIG 5</div> <div>FIG 6</div> <div>FIG 7</div> <div>FIG 8</div> <div>FIG 9</div> <div>FIG 10</div> <div>FIG 11</div> <div>FIG 12</div> <div>FIG 13</div> <div>FIG 14</div> <div>FIG 15</div> <div>FIG 16</div> <div>FIG 17</div> <div>FIG 18</div> <div>FIG 19</div> <div>FIG 20</div> <div>FIG 21</div> <div>FIG 22</div> <div>FIG 23</div> <div>FIG 24</div> <div>FIG 25</div> <div>FIG 26</div> <div>FIG 27</div> <div>FIG 28</div> <div>FIG 29</div> <div>FIG 30</div> <div>FIG 31</div> <div>FIG 32</div> <div>FIG 33</div> <div>FIG 34</div> <div>FIG 35</div> <div>FIG 36</div> <div>FIG 37</div> <div>FIG 38</div> <div>FIG 39</div> <div>FIG 40</div> <div>FIG 41</div> <div>FIG 42</div> <div>FIG 43</div> <div>FIG 44</div> <div>FIG 45</div> <div>FIG 46</div> <div>FIG 47</div> <div>FIG 48</div> <div>FIG 49</div> <div>FIG 50</div> <div>FIG 51</div> <div>FIG 52</div> <div>FIG 53</div> <div>FIG 54</div> <div>FIG 55</div> <div>FIG 56</div> <div>FIG 57</div> <div>FIG 58</div> <div>FIG 59</div> <div>FIG 60</div> <div>FIG 61</div> <div>FIG 62</div> <div>FIG 63</div> <div>FIG 64</div> <div>FIG 65</div> <div>FIG 66</div> <div>FIG 67</div> <div>FIG 68</div> <div>FIG 69</div> <div>FIG 70</div> <div>FIG 71</div> <div>FIG 72</div> <div>FIG 73</div> <div>FIG 74</div> <div>FIG 75</div> <div>FIG 76</div> <div>FIG 77</div> <div>FIG 78</div> <div>FIG 79</div> <div>FIG 80</div> <div>FIG 81</div> <div>FIG 82</div> <div>FIG 83</div> <div>FIG 84</div> <div>FIG 85</div> <div>FIG 86</div> <div>FIG 87</div> <div>FIG 88</div> <div>FIG 89</div> <div>FIG 90</div> <div>FIG 91</div> <div>FIG 92</div> <div>FIG 93</div> <div>FIG 94</div> <div>FIG 95</div> <div>FIG 96</div> <div>FIG 97</div> <div>FIG 98</div> <div>FIG 99</div> <div>FIG 100</div> <div>FIG 101</div> <div>FIG 102</div> <div>FIG 103</div> <div>FIG 104</div> <div>FIG 105</div> <div>FIG 106</div> <div>FIG 107</div> <div>FIG 108</div> <div>FIG 109</div> <div>FIG 110</div> <div>FIG 111</div> <div>FIG 112</div> <div>FIG 113</div> <div>FIG 114</div> <div>FIG 115</div> <div>FIG 116</div> <div>FIG 117</div> <div>FIG 118</div> <div>FIG 119</div> <div>FIG 120</div> <div>FIG 121</div> <div>FIG 122</div> <div>FIG 123</div> <div>FIG 124</div> <div>FIG 125</div> <div>FIG 126</div> <div>FIG 127</div> <div>FIG 128</div> <div>FIG 129</div> <div>FIG 130</div> <div>FIG 131</div> <div>FIG 132</div> <div>FIG 133</div> <div>FIG 134</div> <div>FIG 135</div> <div>FIG 136</div> <div>FIG 137</div> <div>FIG 138</div> <div>FIG 139</div> <div>FIG 140</div> <div>FIG 141</div> <div>FIG 142</div> <div>FIG 143</div> <div>FIG 144</div> <div>FIG 145</div> <div>FIG 146</div> <div>FIG 147</div> <div>FIG 148</div> <div>FIG 149</div> <div>FIG 150</div> <div>FIG 151</div> <div>FIG 152</div> <div>FIG 153</div> <div>FIG 154</div> <div>FIG 155</div> <div>FIG 156</div> <div>FIG 157</div> <div>FIG 158</div> <div>FIG 159</div> <div>FIG 160</div> <div>FIG 161</div> <div>FIG 162</div> <div>FIG 163</div> <div>FIG 164</div> <div>FIG 165</div> <div>FIG 166</div> <div>FIG 167</div> <div>FIG 168</div> <div>FIG 169</div> <div>FIG 170</div> <div>FIG 171</div> <div>FIG 172</div> <div>FIG 173</div> <div>FIG 174</div> <div>FIG 175</div> <div>FIG </div>
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REFERENCE DRAWING	DWG. No.
UNIT PLANT MAIN DRAWINGS:	HC-003-7PDC0-120-PT-PT-0001
SPECIFICATION FOR PMS & GAS SENSOR AND DEVICES	HC-003-7PDC0-006-1P-0001
PMS & GAS DETECTION DESIGN CERTIFICA	HC-003-7PDC0-120-1P-00-0001

D02

TOTALLY
REVISED

ITEM	DESCRIPTION	QTY.	INSTALLATION ELEVATION
1	FLAMMABLE GAS DETECTOR(FGD)	3	TO BE FINALIZED LATER AS PER PDMs MODEL
2	TOXIC GAS DETECTOR(TGD)	3	TO BE FINALIZED LATER AS PER PDMs MODEL
3	FLAME DETECTOR(FD)	2	TO BE FINALIZED LATER AS PER PDMs MODEL



NOTES

- DIMENSIONS ARE IN MILLIMETER.
- ALL EQUIPMENT SHALL BE MOUNTED ON 2" PIPE.
- ALL INSTALLATION ELEVATION SHALL BE ADJUSTED AT SITE.
- FLAME DETECTOR SHALL BE PUT ON A HEIGHT THAT IS TWICE THE HEIGHT OF THE HIGHEST OBJECT IN THE AREA.
- RADIUS OF FGD COVERAGE IS CONSIDERED 3000mm.
- FGD SHALL BE LOCATED AT HEIGHT 1.5-2.5 METERS AND 200A SHALL BE LOCATED AT HEIGHT 0.5-1.5 METERS ABOVE FINISHED FLOOR.
- TOXIC GAS DETECTOR IS LOCATED FROM THE AREA (FLAMMABLE GAS DETECTOR) SHALL BE INSTALLED 0.5m BELOW FLAME/VALVE.
- FOR GAS PASSING IS HIGHER THAN THE GAS TOXIC GAS DETECTOR) SHALL BE INSTALLED 0.5m BELOW FLAME/VALVE.
- THIS DOCUMENT IS PREPARED AS PER LATEST VERSION OF REFERENCE DOCUMENTS.

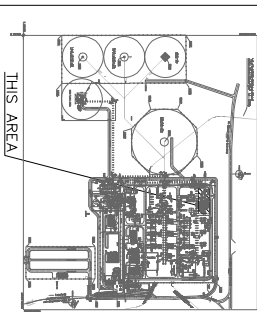
LEGEND

- FG FLAMMABLE GAS DETECTOR
TG TOXIC GAS DETECTOR
FD FLAME DETECTOR

REFERENCE DRAWING

DRAWING TITLE	DATE	NO.
PIPE PIG LAUNCHER	18-02-2020	18-02-2020-18-02-2020
APPROVED FOR PIPE & GAS DESIGN AND APPROVED FOR PIG LAUNCHER	18-02-2020	18-02-2020-18-02-2020
FILE & GAS DETECTOR DESIGN CURRENT	18-02-2020	18-02-2020-18-02-2020

KEY PLAN



AREA-6: SUMP & PIG LAUNCHER AREA

DATE	SCALE	DRAWING BY	CHECKED BY	DATE	SCALE	DRAWING BY	CHECKED BY	DATE
18-02-2020	1/200	AS	18-02-2020	18-02-2020	18-02-2020	18-02-2020	18-02-2020	18-02-2020

DATE	SCALE	DRAWING BY	CHECKED BY	DATE	SCALE	DRAWING BY	CHECKED BY	DATE
18-02-2020	1/200	AS	18-02-2020	18-02-2020	18-02-2020	18-02-2020	18-02-2020	18-02-2020

OVERSHEET TOTAL BLOCKS**

DATE	SCALE	DRAWING BY	CHECKED BY	DATE	SCALE	DRAWING BY	CHECKED BY	DATE
18-02-2020	1/200	AS	18-02-2020	18-02-2020	18-02-2020	18-02-2020	18-02-2020	18-02-2020

NOTES

1. DIMENSIONS ARE IN MILLIMETERS.
2. ALL EQUIPMENT SHALL BE MOUNTED ON 2" MFE.
3. ALL INSTALLATION ELEVATION SHALL BE ADJUSTED AT SITE.
4. FLAME DETECTOR SHALL BE PUT ON A HEIGHT THAT IS TWICE THE HEIGHT OF THE HIGHEST OBJECT IN THE AREA.
5. RADIUS OF PD COVERAGE IS CONSIDERED 2000mm.
6. THIS LHD SHALL BE CABLE TYPE AND STAPPED AROUND THE PIPE.
7. LHD SHALL BE LOCATED AT HEIGHT 1.8-2.2 METER AND TOWER SHALL BE ELEVATED AT LEAST 1000mm ABOVE THE LHD (1000mm).
8. FOR GAS/MAJOR IS LIGHTER THAN THE AIR (TOXIC GAS DETECTOR) SHALL BE INSTALLED 0.5m ABOVE FLAME/VALVE.
9. FOR GAS/MAJOR IS HEAVIER THAN THE AIR (TOXIC GAS DETECTOR) SHALL BE INSTALLED 0.5m BELOW FLAME/VALVE.
10. FIRE AND GAS DETECTOR DESIGN FOR PK-2101-SHALL BE PROVIDED UNDER.
11. REFERENCE DOCUMENTS IS PREPARED AS PER LATEST VERSION OF REFERENCE DOCUMENTS.

LEGEND

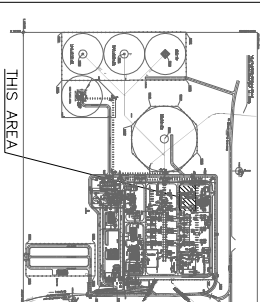
- FLAMMABLE GAS DETECTOR
TOXIC GAS DETECTOR
LINEAR HEAT DETECTOR

REFERENCE DRAWING

DWG. No.

NOTE: FOR FULL DRAWING
PROVISION FOR FIRE & GAS DESIGN AND PROTECTION SHALL BE PROVIDED AS PER DESIGN
PK-2101-2103-2103B-2103A-2103C-2103D-2103E-2103F-2103G-2103H-2103I-2103J-2103K-2103L-2103M-2103N-2103O-2103P-2103Q-2103R-2103S-2103T-2103U-2103V-2103W-2103X-2103Y-2103Z-2103AA-2103AB-2103AC-2103AD-2103AE-2103AF-2103AG-2103AH-2103AI-2103AJ-2103AK-2103AL-2103AM-2103AN-2103AO-2103AP-2103AQ-2103AR-2103AS-2103AT-2103AU-2103AV-2103AW-2103AX-2103AY-2103AZ-2103BA-2103BB-2103BC-2103BD-2103BE-2103BF-2103BG-2103BH-2103BI-2103BJ-2103BK-2103BL-2103BM-2103BN-2103BO-2103BP-2103BQ-2103BR-2103BS-2103BT-2103BU-2103BV-2103BW-2103BX-2103BY-2103BZ-2103CA-2103CB-2103CC-2103CD-2103CE-2103CF-2103CG-2103CH-2103CI-2103CJ-2103CK-2103CL-2103CM-2103CN-2103CO-2103CP-2103CQ-2103CR-2103CS-2103CT-2103CU-2103CV-2103CW-2103CX-2103CY-2103CZ-2103DA-2103DB-2103DC-2103DD-2103DE-2103DF-2103DG-2103DH-2103DI-2103DJ-2103DK-2103DL-2103DM-2103DN-2103DO-2103DP-2103DQ-2103DR-2103DS-2103DT-2103DU-2103DV-2103DW-2103DX-2103DY-2103DZ-2103EA-2103EB-2103EC-2103ED-2103EE-2103EF-2103EG-2103EH-2103EI-2103EJ-2103EK-2103EL-2103EM-2103EN-2103EO-2103EP-2103EQ-2103ER-2103ES-2103ET-2103EU-2103EV-2103EW-2103EX-2103EY-2103EZ-2103FA-2103FB-2103FC-2103FD-2103FE-2103FF-2103FG-2103FH-2103FI-2103FJ-2103FK-2103FL-2103FM-2103FN-2103FO-2103FP-2103FQ-2103FR-2103FS-2103FT-2103FU-2103FV-2103FW-2103FX-2103FY-2103FZ-2103GA-2103GB-2103GC-2103GD-2103GE-2103GF-2103GG-2103GH-2103GI-2103GJ-2103GK-2103GL-2103GM-2103GN-2103GO-2103GP-2103GQ-2103GR-2103GS-2103GT-2103GU-2103GV-2103GW-2103GX-2103GY-2103GZ-2103HA-2103HB-2103HC-2103HD-2103HE-2103HF-2103HG-2103HH-2103HI-2103HJ-2103HK-2103HL-2103HM-2103HN-2103HO-2103HP-2103HQ-2103HR-2103HS-2103HT-2103HU-2103HV-2103HW-2103HX-2103HY-2103HZ-2103IA-2103IB-2103IC-2103ID-2103IE-2103IF-2103IG-2103IH-2103II-2103IJ-2103IK-2103IL-2103IM-2103IN-2103IO-2103IP-2103IQ-2103IR-2103IS-2103IT-2103IU-2103IV-2103IW-2103IX-2103IY-2103IZ-2103JA-2103JB-2103JC-2103JD-2103JE-2103JF-2103JG-2103JH-2103JI-2103JJ-2103JK-2103JL-2103JM-2103JN-2103JO-2103JP-2103JQ-2103JR-2103JS-2103JT-2103JU-2103JV-2103JW-2103JX-2103JY-2103JZ-2103KA-2103KB-2103KC-2103KD-2103KE-2103KF-2103KG-2103KH-2103KI-2103KJ-2103KL-2103KM-2103KN-2103KO-2103KP-2103KQ-2103KR-2103KS-2103KT-2103KU-2103KV-2103KW-2103KX-2103KY-2103KZ-2103LA-2103LB-2103LC-2103LD-2103LE-2103LF-2103LG-2103LH-2103LI-2103LJ-2103LK-2103LL-2103LM-2103LN-2103LO-2103LP-2103LQ-2103LR-2103LS-2103LT-2103LU-2103LV-2103LW-2103LX-2103LY-2103LZ-2103MA-2103MB-2103MC-2103MD-2103ME-2103MF-2103MG-2103MH-2103MI-2103MJ-2103MK-2103ML-2103MN-2103MO-2103MP-2103MQ-2103MR-2103MS-2103MT-2103MU-2103MV-2103MW-2103MX-2103MY-2103MZ-2103NA-2103NB-2103NC-2103ND-2103NE-2103NF-2103NG-2103NH-2103NI-2103NJ-2103NK-2103NL-2103NM-2103NO-2103NP-2103NQ-2103NR-2103NS-2103NT-2103NU-2103NV-2103NW-2103NX-2103NY-2103NZ-2103OA-2103OB-2103OC-2103OD-2103OE-2103OF-2103OG-2103OH-2103OI-2103OJ-2103OK-2103OL-2103OM-2103ON-2103OO-2103OP-2103OQ-2103OR-2103OS-2103OT-2103OU-2103OV-2103OW-2103OX-2103OY-2103OZ-2103PA-2103PB-2103PC-2103PD-2103PE-2103PF-2103PG-2103PH-2103PI-2103PJ-2103PK-2103PL-2103PM-2103PN-2103PO-2103PP-2103PQ-2103PR-2103PS-2103PT-2103PU-2103PV-2103PW-2103PX-2103PY-2103PZ-2103QA-2103QB-2103QC-2103QD-2103QE-2103QF-2103QG-2103QH-2103QI-2103QJ-2103QK-2103QL-2103QM-2103QN-2103QO-2103QP-2103QQ-2103QR-2103QS-2103QT-2103QU-2103QV-2103QW-2103QX-2103QY-2103QZ-2103RA-2103RB-2103RC-2103RD-2103RE-2103RF-2103RG-2103RH-2103RI-2103RJ-2103RK-2103RL-2103RM-2103RN-2103RO-2103RP-2103RQ-2103RR-2103RS-2103RT-2103RU-2103RV-2103RW-2103RX-2103RY-2103RZ-2103SA-2103SB-2103SC-2103SD-2103SE-2103SF-2103SG-2103SH-2103SI-2103SJ-2103SK-2103SL-2103SM-2103SN-2103SO-2103SP-2103SQ-2103SR-2103SS-2103ST-2103SU-2103SV-2103SW-2103SX-2103SY-2103SZ-2103TA-2103TB-2103TC-2103TD-2103TE-2103TF-2103TG-2103TH-2103TI-2103TJ-2103TK-2103TL-2103TM-2103TN-2103TO-2103TP-2103TQ-2103TR-2103TS-2103TT-2103TU-2103TV-2103TW-2103TX-2103TY-2103TZ-2103UA-2103UB-2103UC-2103UD-2103UE-2103UF-2103UG-2103UH-2103UI-2103UJ-2103UK-2103UL-2103UM-2103UN-2103UO-2103UP-2103UQ-2103UR-2103US-2103UT-2103UU-2103UV-2103UW-2103UX-2103UY-2103UZ-2103VA-2103VB-2103VC-2103VD-2103VE-2103VF-2103VG-2103VH-2103VI-2103VJ-2103VK-2103VL-2103VM-2103VN-2103VO-2103VP-2103VQ-2103VR-2103VS-2103VT-2103VU-2103VV-2103VW-2103VX-2103VY-2103VZ-2103WA-2103WB-2103WC-2103WD-2103WE-2103WF-2103WG-2103WH-2103WI-2103WJ-2103WK-2103WL-2103WM-2103WN-2103WO-2103WP-2103WQ-2103WR-2103WS-2103WT-2103WU-2103WV-2103WW-2103WX-2103WY-2103WZ-2103XA-2103XB-2103XC-2103XD-2103XE-2103XF-2103XG-2103XH-2103XI-2103XJ-2103XK-2103XL-2103XM-2103XN-2103XO-2103XP-2103XQ-2103XR-2103XS-2103XT-2103XU-2103XV-2103XW-2103XX-2103XY-2103XZ-2103YA-2103YB-2103YC-2103YD-2103YE-2103YF-2103YG-2103YH-2103YI-2103YJ-2103YK-2103YL-2103YM-2103YN-2103YO-2103YP-2103YQ-2103YR-2103YS-2103YT-2103YU-2103YV-2103YW-2103YX-2103YY-2103YZ-2103ZA-2103ZB-2103ZC-2103ZD-2103ZE-2103ZF-2103ZG-2103ZH-2103ZI-2103ZJ-2103ZK-2103ZL-2103ZM-2103ZN-2103ZO-2103ZP-2103ZQ-2103ZR-2103ZS-2103ZT-2103ZU-2103ZV-2103ZW-2103ZX-2103ZY-2103ZZ

KEY PLAN



THIS AREA

THIS COMPARTMENT THERMAL AND THE MAIN PROPERTY OF NISOC / THERMIS

THIS COMPARTMENT THERMAL AND THE MAIN PROPERTY OF NISOC / THERMIS

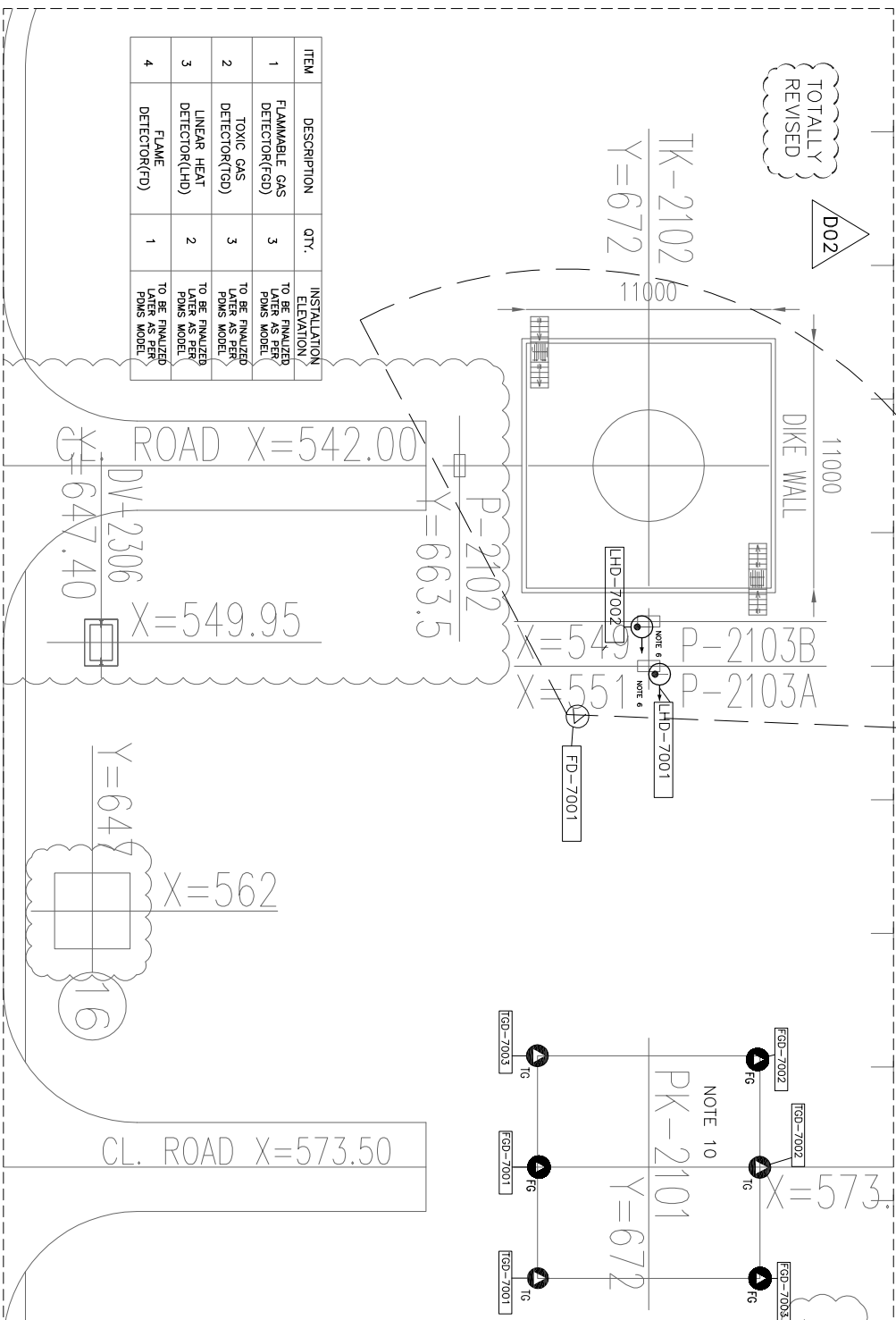
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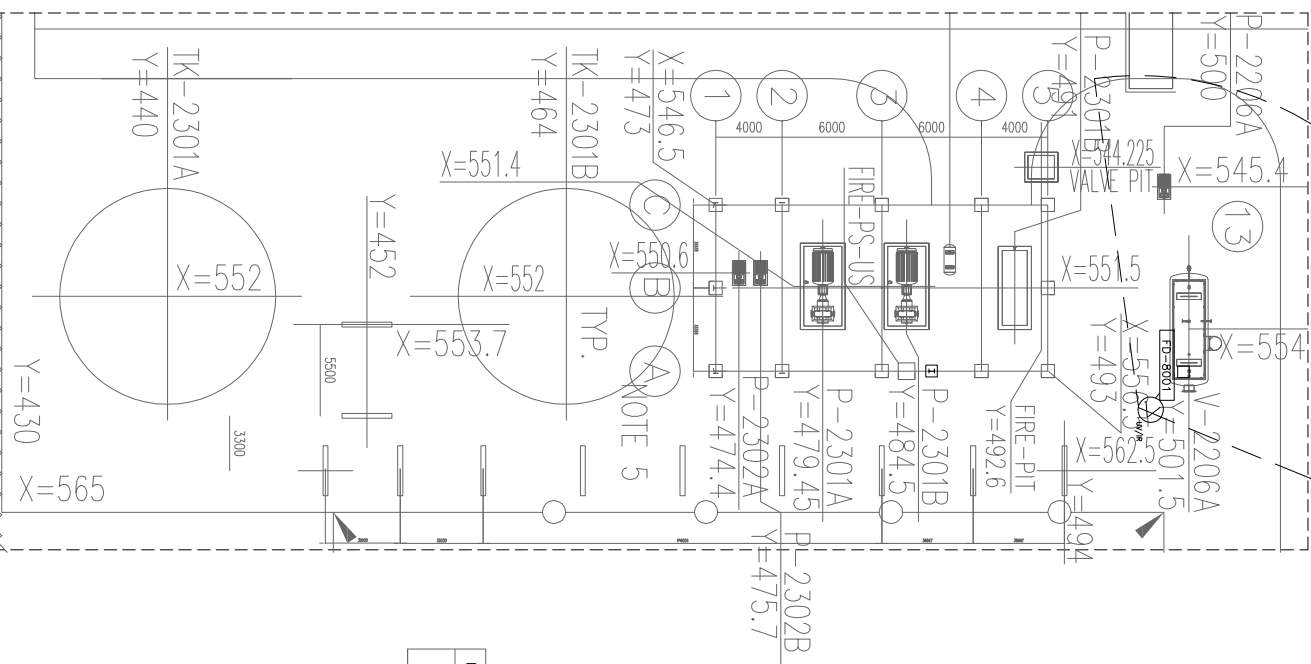
ITEM	DESCRIPTION	QTY.	INSTALLATION ELEVATION / TO BE FINALIZED LATER AS PER PDMS MODEL
1	FLAMMABLE GAS DETECTOR (FGD)	3	TO BE FINALIZED LATER AS PER PDMS MODEL
2	TOXIC GAS DETECTOR (TGD)	3	TO BE FINALIZED LATER AS PER PDMS MODEL
3	LINEAR HEAT DETECTOR (LHD)	2	TO BE FINALIZED LATER AS PER PDMS MODEL
4	FLAME DETECTOR (FD)	1	TO BE FINALIZED LATER AS PER PDMS MODEL

AREA-7: LEAN GLYCOL STORAGE TANK & DEHYDRATION PACKAGE AREA



TOTALLY
REVISED

D02



ITEM	DESCRIPTION	QTY.	INSTALLATION ELEVATION TO BE FINALIZED LATER AS PER PIMS MODEL
1	FLAME DETECTOR	1	

NOTES

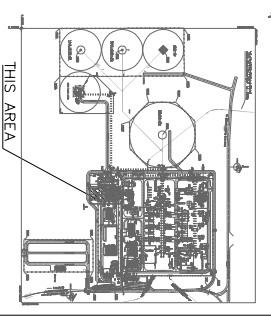
- DIMENSIONS ARE IN MILLIMETER.
- ALL EQUIPMENT SHALL BE MOUNTED ON 2" PIP.
- ALL INSTALLATION ELEVATION SHALL BE ADJUSTED AT SITE.
- FLAME DETECTOR SHALL BE PUT ON A HEIGHT THAT IS TWICE THE HEIGHT OF THE HIGHEST OBJECT IN THE AREA.
- RADIUS OF FID COVERAGE IS CONSIDERED 2000mm.
- THIS DOCUMENT IS PREPARED AS PER LATEST VERSION OF REFERENCED DOCUMENTS.

LEGEND

FLAME DETECTOR

REFERENCE DRAWING	DATE
DATE FOR PIMS DRAWING	DATE FOR PIMS DRAWING
DATE FOR PIMS & GAS DESIGN AND APPROVED BY DATE FOR PIMS & GAS DESIGN AND APPROVED BY	DATE FOR PIMS & GAS DESIGN AND APPROVED BY
DATE FOR PIMS & GAS DESIGN AND APPROVED BY	DATE FOR PIMS & GAS DESIGN AND APPROVED BY

KEY PLAN

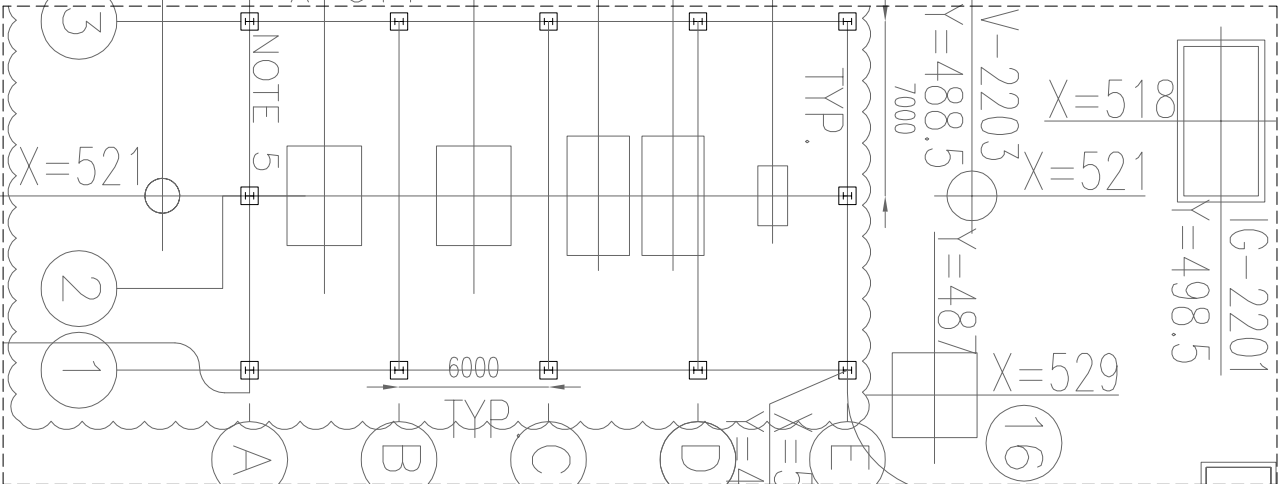


DATE	SCALE	DRAWING BY	CHECKED BY	DATE	SCALE	DRAWING BY	CHECKED BY	DATE
DATE	SCALE	DRAWING BY	CHECKED BY	DATE	SCALE	DRAWING BY	CHECKED BY	DATE
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AREA-8:DIESEL GENERATOR AREA



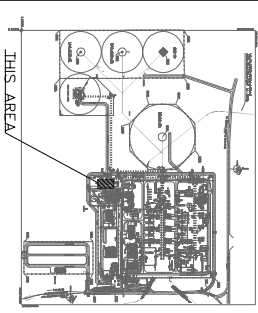
AREA-9: AIR COMPRESSOR / AIR DRYER PACKAGES AREA

REFERENCE DRAWING	DRG. No.
UNIT PLANT PLAN DRAWING	HE-025-7E020-180-FY-FY-0001
DESIGNATION FOR PHS & CDS SENSOR AND SERVICES	HE-025-7E020-000-3K-SC-0000
PHS & CDS DETECTION DESIGN CENTRAL	HE-025-7E020-180-3K-SC-0001



LINEAR HEAT DETECTOR

LEGEND

[illegible]

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**BINAK OILFIELD DEVELOPMENT
SURFACE FACILITIES
GAS COMPRESSOR STATION**

MINIMUM ENERGY - DESIGN & INNOVATION COMPANIES

**PETROIRAN
DEVELOPMENT
COMPANY**

P&G LOCATION LAYOUT FOR PROCESS AREA