



KPD-TAY COMPRESSION PROJECT
Tender Enquiry No.: PROC/FC/PROJ/KPD-TAY/COMP/5313/2022
PRE-BID CLARIFICATION # 04



One of the bidder has asked following queries, OGDCL/ENAR's response is as follows:

| Sr. No. | Tender Document Reference | Clarification By Bidder | OGDCL / ENAR's Response |
|---------|--|--|---|
| 1 | Volume-II2- Volume-IIB (Mechanical)\Specifications\Specification for Reciprocating Compressor-4.4 Fuel Gas System iii) Duplex Fuel gas strainer vii) Duplex Fuel gas filter/separator complete with level gauge high level switch and drain valve. | The requirement for duplex fuel gas strainer and filter mentioned in Specification are inconsistent with the P&ID 0258-PB-2101-0 Sheet 3 of 3, and we suggest that the strainer and filter should follow P&ID 0258-PB-2101-0 Sheet 3 of 3. | Bidder to note that, minimum requirements are shown in the provided P&IDs and it shall further be reviewed & updated after firmed detailed engineering by EPCC, however, bidder to follow the requirement mentioned in the specification as well as in P&IDs. |
| 2 | Volume-II2- Volume-IIB (Mechanical)\Specifications\Specification for Reciprocating Compressor-4.5 Start Gas System iii) Duplex Start gas strainer. v) Duplex Start gas in-line coalescing filter with manual drain valve. | The requirement for duplex fuel gas strainer and filter mentioned in Specification are inconsistent with the P&ID 0258-PB-2101-0 Sheet 3 of 3, and we suggest that the strainer and filter should follow P&ID 0258-PB-2101-0 Sheet 3 of 3. | Bidder to note that, minimum requirements are shown in the provided P&IDs and it shall further be reviewed & updated after firmed detailed engineering by EPCC, however, bidder to follow the requirement mentioned in the specification as well as in P&IDs. |
| 3 | Volume-II1- Volume-IIA (Process)\4-P&IDs\0258-PB-2101-0 Sheet 1 of 3 (P&ID For Nodal Compression Package Typical P&IDs); 0258-PB-2101-0 Sheet 2 of 3 (P&ID For Nodal Compression Package Typical P&IDs) | The suction temperature of gas is 140-150°F, that could meet the requirement of compressor, and the pre-cooler E01 is not needed. Please confirm. | Bidder to note that minimum requirements are shown in the provided P&IDs and it shall further be finalized after firmed detailed engineering by EPCC Contractor during detailed engineering stage |
| 4 | Volume-II1- Volume-IIA (Process)\6-Datasheets\0258-DS-1051-0 (Bore Water Filters F-5601AB); 0258-DS-1055-0 (Bore Water Filters F-5801AB) | Please provide raw water quality information for the selection of sand filters. | Please find raw water analysis in Attachment-I . |
| 5 | Volume-II1- Volume-IIA (Process)\4-P&IDs\0258-PB-2110-0 (P&ID For Raw Water System For Tay-3 GGS Nodal Facility); 0258-PB-2113-0 (P&ID For Raw Water System For Thora-3 GGS Nodal) | Please confirm whether the raw water well is within EPC Contractor's scope of work | Confirmed. |
| 6 | Volume-II2- Volume-IIB (Mechanical)\Piping Layouts | We found that piping layouts (165-4-MPL-10009, 10014, 10019, 10020-R-F2) are missing. Please provide. | These piping layouts are not used for the conceptual piping of KPD-TAY Compression Project. For clarity, these piping layouts are attached as Attachment-II . |
| 7 | Instrumentation | Please provide Specification of DCS/ESD/F&GS; | Please note that basic technical details already mentioned in tender scope of work. Detail Specification of existing system shall be shared with the successful bidder. |
| 8 | SEC-II (INSTRUCTIONS TO BIDDERS)\3.2.1.3 Project Specific Technical Information item h) Integration Philosophy | Please elaborate the required "Integration Philosophy". | Integration Philosophy is related to intergration of existing system with new system by EPCC Contractor |
| 9 | Instrumentation | Please confirm the SIL level for NEW ESD system at FEED stage. | Existing SIL level 3 will be applicable for the new ESD system as well. However, SIL level of the loops shall be finalized after SIL study during Detailed Engineering Stage. |
| 10 | Instrumentation | Please provide the Brand/Model No. for exsiting DCS/ESD/F&GS and please confirm whether the same brands/models are required for the above control systems in this project. | Refer Tender Scope of Work Sec.5.17 & 5.18 for required details. |
| 11 | Volume-II3- Volume-IIC (Electrical)\GEN\0258-ELA-6500-1 | For THORA DEEP-03 GGS & TAY-03 GGS, each facility shall be provided with separate power generation comprising 02 nos. of GAS GENSETS and 01 no. of diesel generator (DG SET). Please provide the datasheets and specification of gas/diesel generator. | Please refer Document # 0258-ELA-6507 (Specification for Gas Engine Driven Generator) and document # 0258-ELA-6508 (Specification for Diesel Engine Driven Generator) already submitted in Tender Documents (refer Volume-IIC Electrical). |

ATTACHMENT-I



OIL & GAS DEVELOPMENT COMPANY LTD.
KPD TAY / KUNNAR LPG PLANT & OIL FIELD.

Laboratory Section

Dated : 07-04-2022

WATER ANALYSIS REPORT

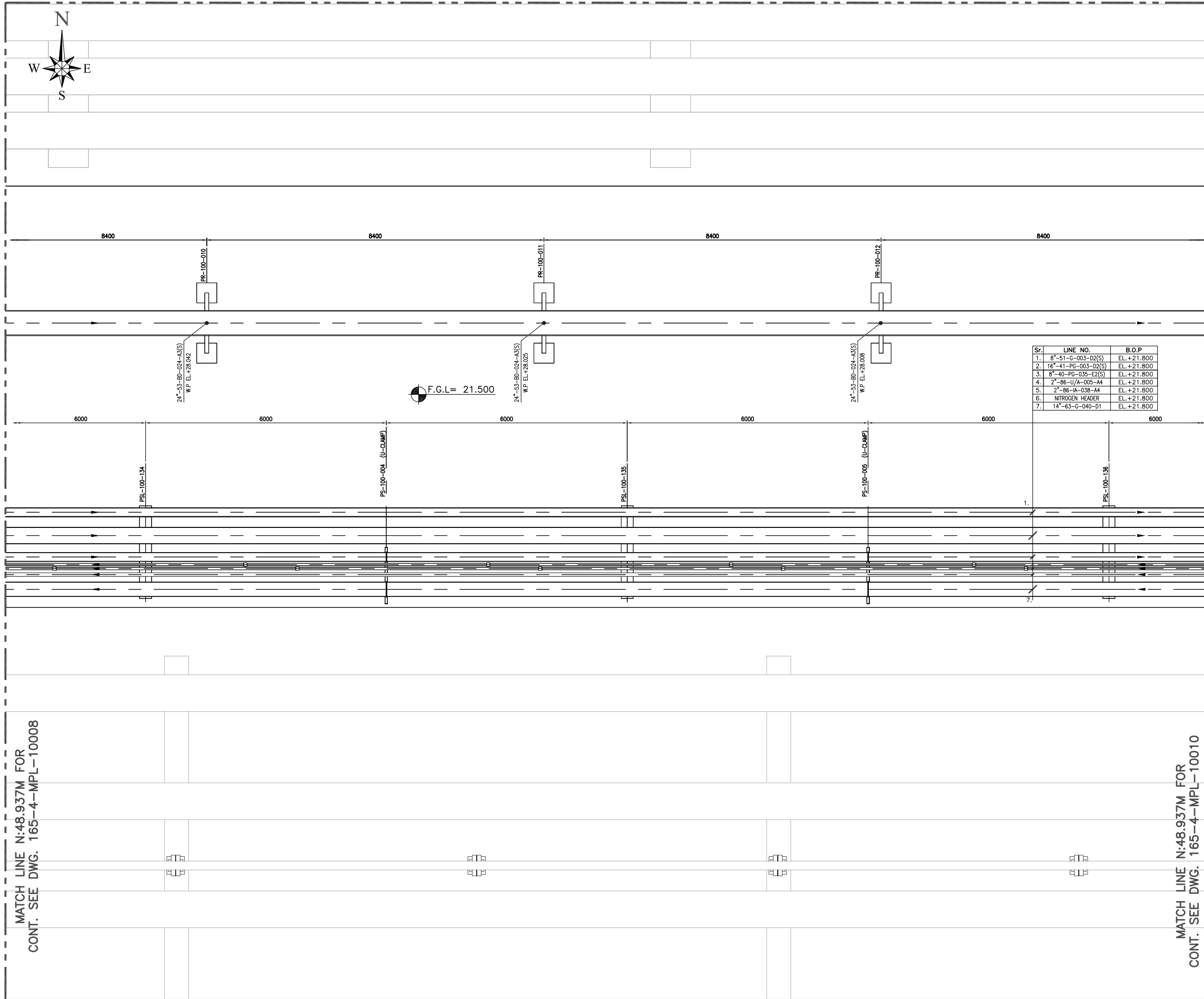
| Description | GROUND WATER | GROUND WATER |
|--|-------------------------------------|-------------------------------|
| | Thora Deep-03 | TAY GGS |
| Sampling Point | Tube Well water Adjacent to Well | Tap Water Adjacent to Well |
| Sampling Date | 06-04-2022 | 06-04-2022 |
| Sampling Time | 12:00 Hrs | 17:00 Hrs |
| PARAMETERS | Results | Results |
| Appearance | Clear | Clear |
| pH | 7.4 | 7.5 |
| Conductivity US/cm | 1696 | 1182 |
| Total Dissolved Solids mg/L | 1086 | 758 |
| Total Suspended Solids mg/L | 06 | 03 |
| Total Hardness as CaCO ₃ mg/L | 246 | 160 |
| Chlorides mg/L | 362 | 241 |
| Turbidity NTU | 01 | 01 |
| Iron mg/L | 0.22 | 0.07 |
| Specific Gravity | 1.006 @ 82 °F | 0.998 @ 77 °F |
| | | |

Faiz Hussain Qazi
Incharge Laboratory

Incharge Production Operation
KPD/Kunnar

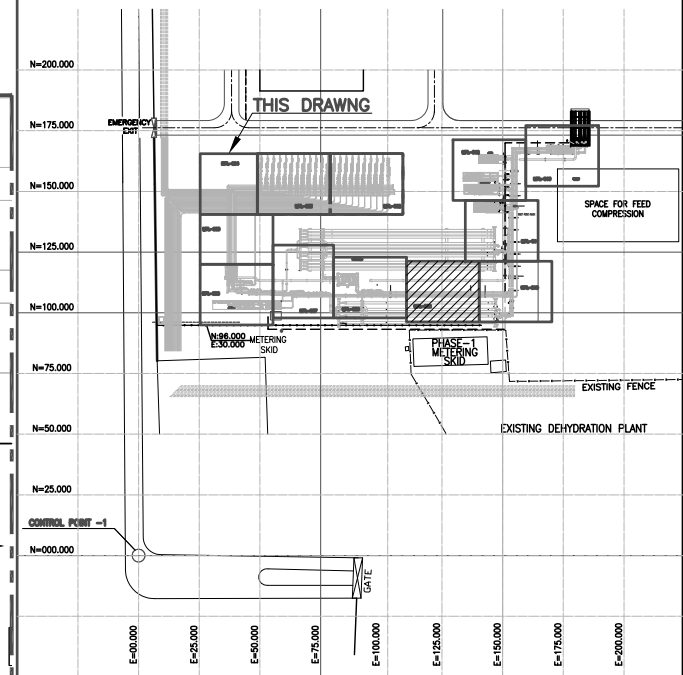
ATTACHMENT-II

DRAWING LIMIT E:164.610M



F.G.L= 21.500

| Sr. | LINE NO. | B.O.P |
|-----|---------------------|------------|
| 1. | 8"-51-G-003-02(S) | EL.+21.800 |
| 2. | 16"-41-PG-003-02(S) | EL.+21.800 |
| 3. | 8"-40-PG-035-E2(S) | EL.+21.800 |
| 4. | 2"-86-U/A-005-A4 | EL.+21.800 |
| 5. | 2"-86-U/A-038-A4 | EL.+21.800 |
| 6. | NITROGEN HEADER | EL.+21.800 |
| 7. | 14"-63-G-040-01 | EL.+21.800 |

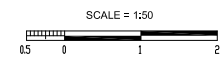


KEY PLAN FOR AREA-100

AS BUILT

NOTES

1. ALL DIMENSIONS ARE IN mm. UNLESS OTHERWISE STATED.
2. ALL COORDINATES ARE IN METERS.
3. THE PIPING LAYOUT IS TO BE CONSIDERED PRELIMINARY.
4. LOCATION OF SUPPORTS TO BE FINALIZED AFTER STRESS ANALYSIS OF THE PIPING SYSTEM.



| REV. | DATE | DESCRIPTION OF REVISION | SMU DRAWN | MMA CHECKED | MAS APPR. |
|------|------------|-------------------------|-----------|-------------|-----------|
| F0 | 20-02-2017 | AS BUILT | | | |

CLIENT: **OIL & GAS DEVELOPMENT COMPANY LTD.**
 OGDCL HOUSE TOWER-8, FIRST FLOOR FRIER, BLUE AREA, JINNAH AVENUE ISLAMABAD PAKISTAN
 FAX: +92 51 2823033, PHONE: +92-51-9209859

CONSULTANT: **Zishan Engineers (Pvt.) Ltd.**
 An ISO 9001-2008 certified company
 47th Block 6, PECHS, Karachi-Pakistan
 Tel: (92-21) 34393045-48, & 34310151-54, Fax: (92-21) 34533430 & 34510156
 E-Mail: contact@zishanengineers.com Website: www.zishanengineers.com

PROJECT : **KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II**

TITLE : **PIPING LAYOUT FOR SLUG CATCHER AREA**

DWG. NO. **165-4-MPL-10009**

REV. **F0**

JOB NO. **165-4**

| | | |
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MATCH LINE N:48.937M FOR CONT. SEE DWG. 165-4-MPL-10010

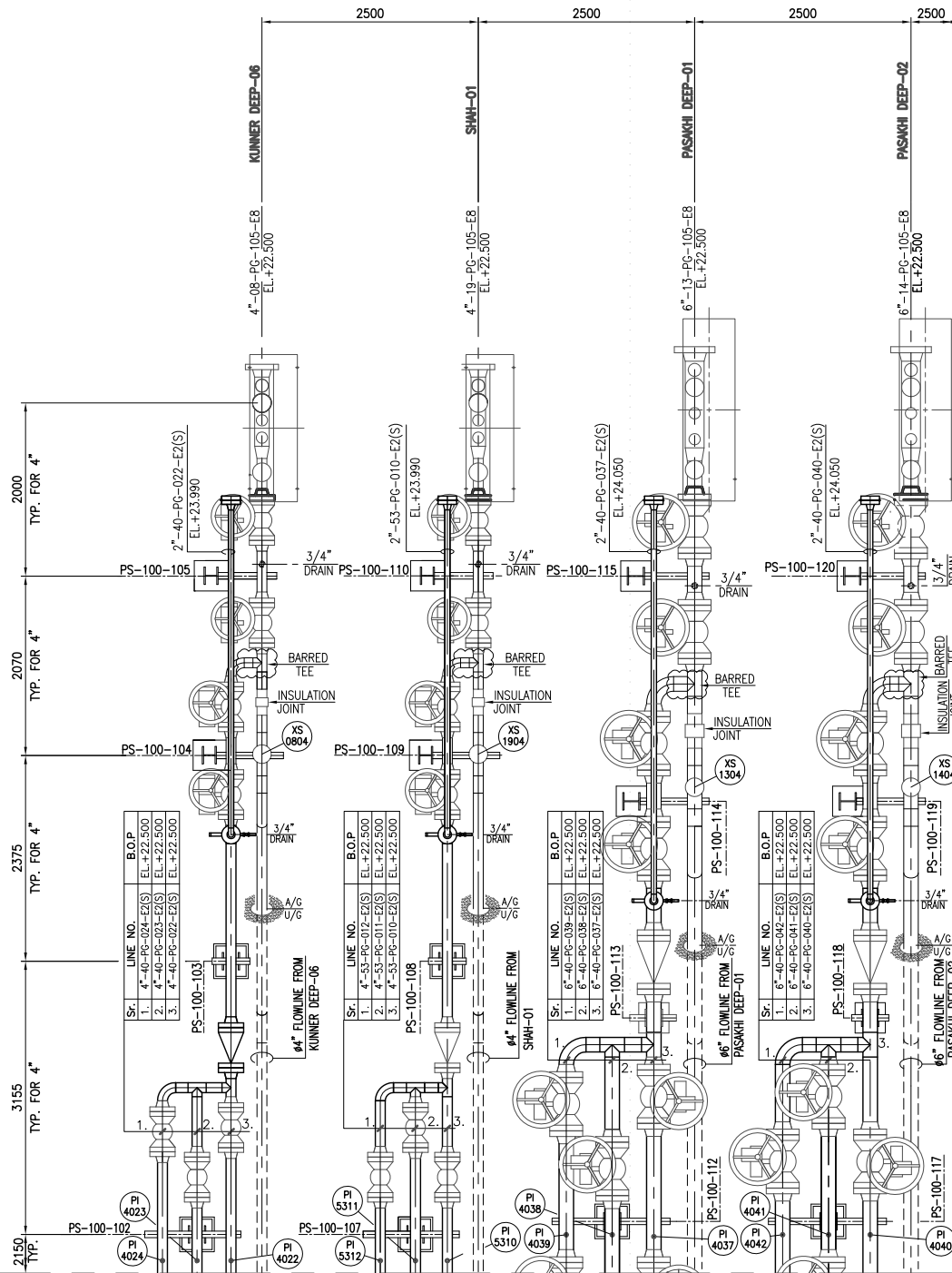
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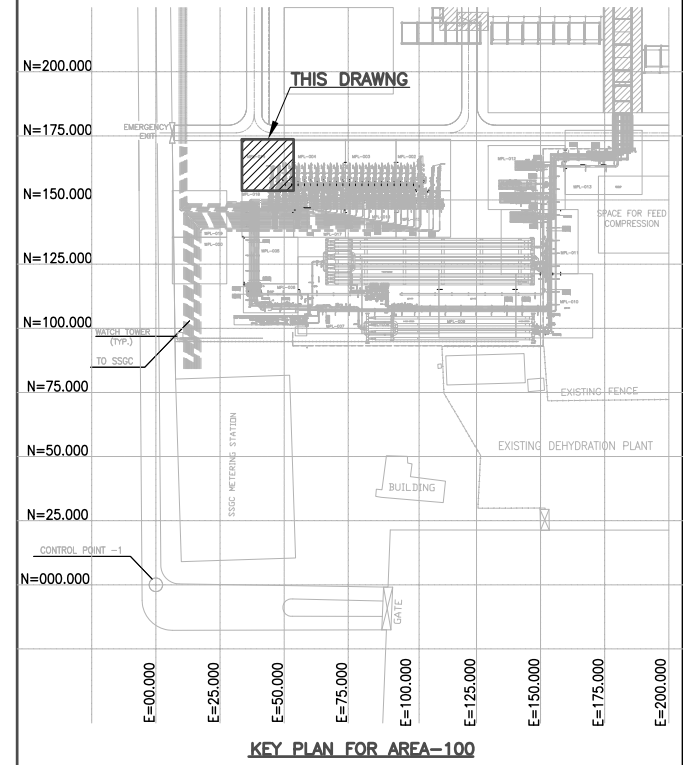
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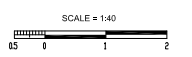
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MATCH LINE E:53.725M FOR
CONT. SEE DWG. 165-4-MPL-10004



AS BUILT

- NOTES.**
1. ALL DIMENSIONS ARE IN mm. UNLESS OTHERWISE STATED.
 2. ALL COORDINATES ARE IN METERS.
 3. THE PIPING LAYOUT IS TO BE CONSIDERED PRELIMINARY.
 4. LOCATION AND DETAILS OF PIPE SUPPORTS WILL BE PROVIDED LATER.



| | | | | | |
|------|------------|-------------------------|-------|---------|-------|
| F0 | 24-02-2017 | AS BUILT | SMU | SMHA | MAS |
| REV. | DATE | DESCRIPTION OF REVISION | DRAWN | CHECKED | APPR. |

CLIENT: **OIL & GAS DEVELOPMENT COMPANY LTD.**
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E-Mail: contact@zishanengineers.com Website: www.zishanengineers.com

| | | | |
|-----------|---|--------|--|
| PROJECT : | KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II | | |
| TITLE : | PIPING LAYOUT PLAN FOR PIG RECEIVER & MANIFOLD AREA | | |
| DWG. NO. | 165-4-MPL-10014 | | |
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| JOB NO. | 165-4 | | |
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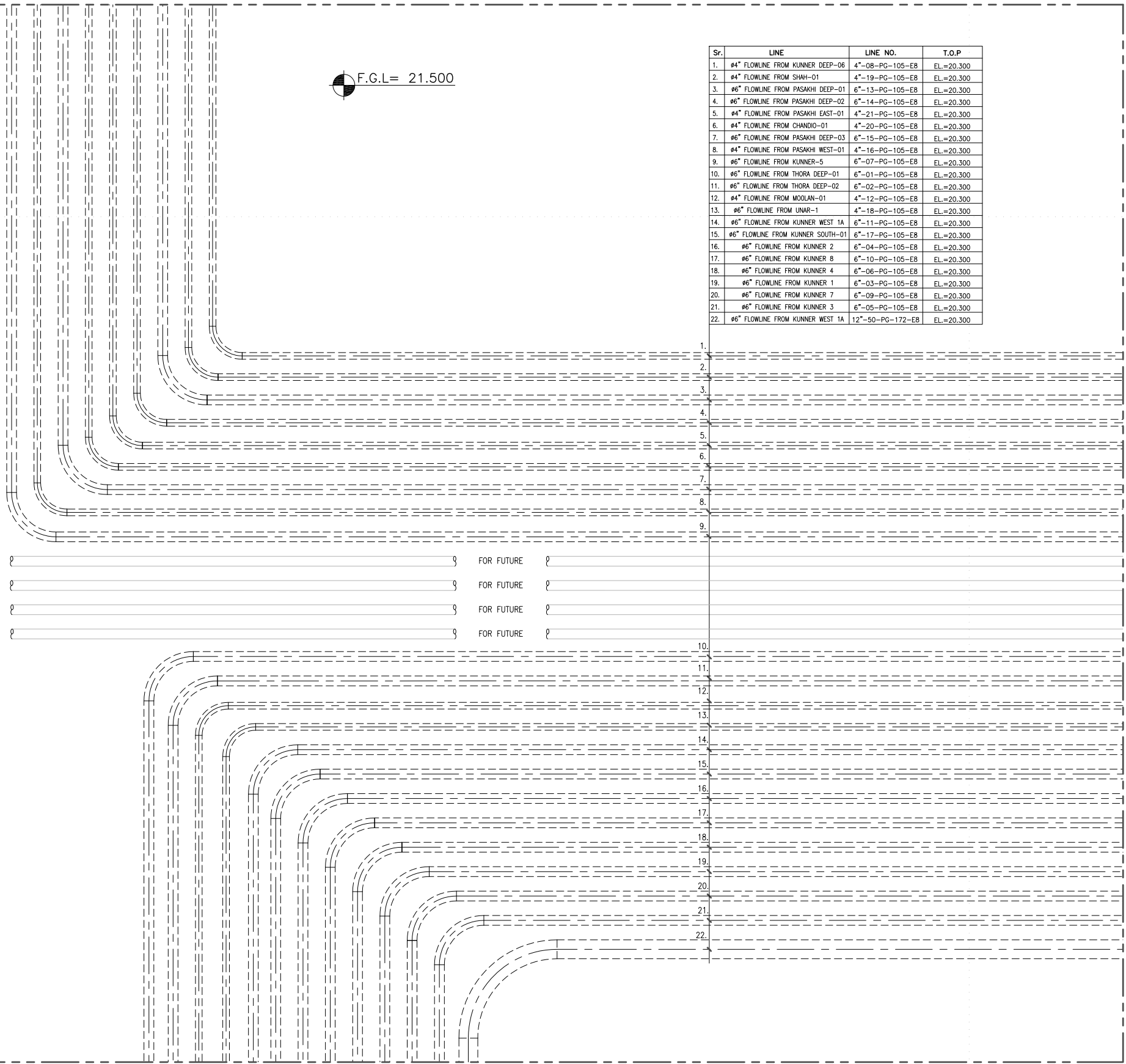


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F.G.L= 21.500

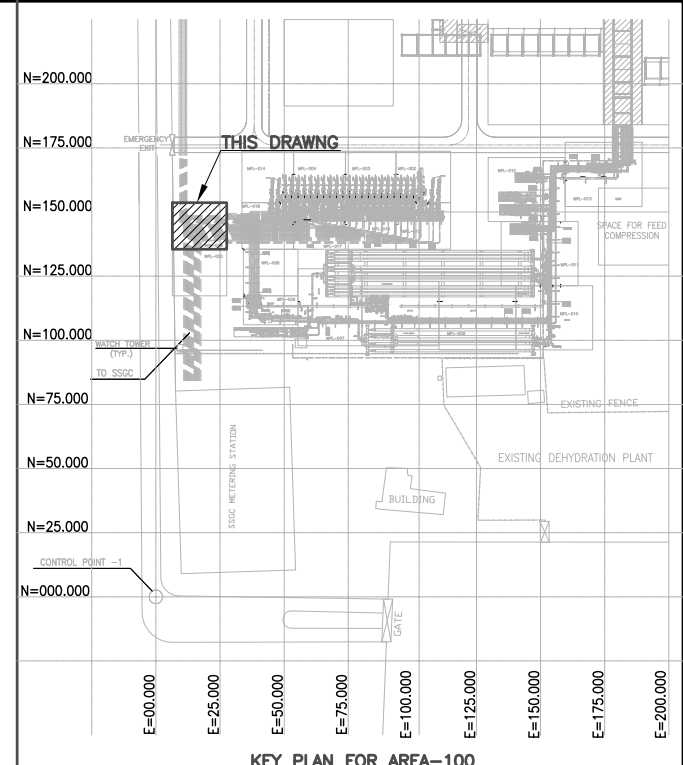
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| 1. | #4" FLOWLINE FROM KUNNER DEEP-06 | 4"-08-PG-105-EB | EL=20.300 |
| 2. | #4" FLOWLINE FROM SHAH-01 | 4"-19-PG-105-EB | EL=20.300 |
| 3. | #6" FLOWLINE FROM PASAKHI DEEP-01 | 6"-13-PG-105-EB | EL=20.300 |
| 4. | #6" FLOWLINE FROM PASAKHI DEEP-02 | 6"-14-PG-105-EB | EL=20.300 |
| 5. | #4" FLOWLINE FROM PASAKHI EAST-01 | 4"-21-PG-105-EB | EL=20.300 |
| 6. | #4" FLOWLINE FROM CHANDIO-01 | 4"-20-PG-105-EB | EL=20.300 |
| 7. | #6" FLOWLINE FROM PASAKHI DEEP-03 | 6"-15-PG-105-EB | EL=20.300 |
| 8. | #4" FLOWLINE FROM PASAKHI WEST-01 | 4"-16-PG-105-EB | EL=20.300 |
| 9. | #6" FLOWLINE FROM KUNNER-5 | 6"-07-PG-105-EB | EL=20.300 |
| 10. | #6" FLOWLINE FROM THORA DEEP-01 | 6"-01-PG-105-EB | EL=20.300 |
| 11. | #6" FLOWLINE FROM THORA DEEP-02 | 6"-02-PG-105-EB | EL=20.300 |
| 12. | #4" FLOWLINE FROM MOOLAN-01 | 4"-12-PG-105-EB | EL=20.300 |
| 13. | #6" FLOWLINE FROM LUNAR-1 | 4"-18-PG-105-EB | EL=20.300 |
| 14. | #6" FLOWLINE FROM KUNNER WEST 1A | 6"-11-PG-105-EB | EL=20.300 |
| 15. | #6" FLOWLINE FROM KUNNER SOUTH-01 | 6"-17-PG-105-EB | EL=20.300 |
| 16. | #6" FLOWLINE FROM KUNNER 2 | 6"-04-PG-105-EB | EL=20.300 |
| 17. | #6" FLOWLINE FROM KUNNER 8 | 6"-10-PG-105-EB | EL=20.300 |
| 18. | #6" FLOWLINE FROM KUNNER 4 | 6"-06-PG-105-EB | EL=20.300 |
| 19. | #6" FLOWLINE FROM KUNNER 1 | 6"-03-PG-105-EB | EL=20.300 |
| 20. | #6" FLOWLINE FROM KUNNER 7 | 6"-09-PG-105-EB | EL=20.300 |
| 21. | #6" FLOWLINE FROM KUNNER 3 | 6"-05-PG-105-EB | EL=20.300 |
| 22. | #6" FLOWLINE FROM KUNNER WEST 1A | 12"-50-PG-172-EB | EL=20.300 |

DRAWING LIMIT E:6.390M



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CONT. SEE DWG. 165-4-MPL-10020

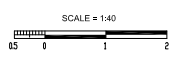
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KEY PLAN FOR AREA-100

AS BUILT

- NOTES.**
1. ALL DIMENSIONS ARE IN mm. UNLESS OTHERWISE STATED.
 2. ALL COORDINATES ARE IN METERS.
 3. THE PIPING LAYOUT IS TO BE CONSIDERED PRELIMINARY.
 4. LOCATION AND DETAILS OF PIPE SUPPORTS WILL BE PROVIDED LATER.



| REV. | DATE | DESCRIPTION OF REVISION | SMU DRAWN | SMHA CHECKED | MAS APPR. |
|------|------------|-------------------------|-----------|--------------|-----------|
| F0 | 27-02-2017 | AS BUILT | | | |

CLIENT: **OIL & GAS DEVELOPMENT COMPANY LTD.**
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PROJECT : **KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II**

TITLE : **PIPING LAYOUT PLAN FOR PIG RECEIVER & MANIFOLD AREA**

DWG. NO. **165-4-MPL-10019**

REV. **F0**

JOB NO. **165-4**

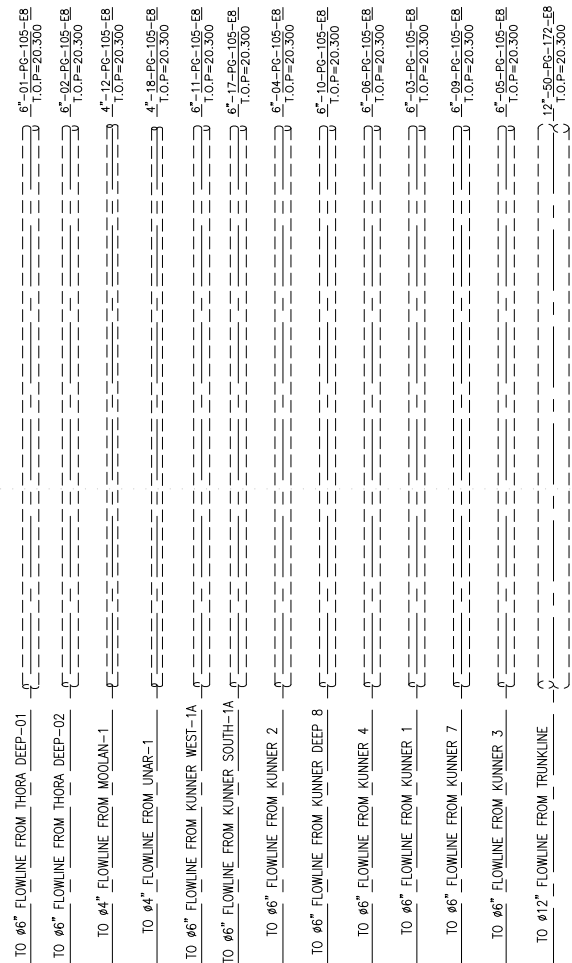
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| SIZE | SCALE | SHEET |
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DRAWING LIMIT E:6.390M

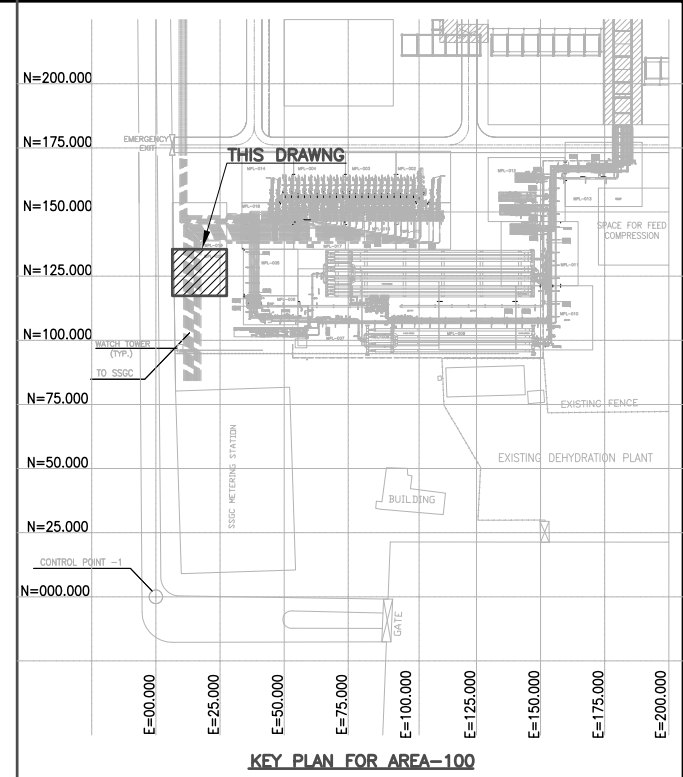
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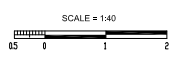
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KEY PLAN FOR AREA-100

AS BUILT

- NOTES.**
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 2. ALL COORDINATES ARE IN METERS.
 3. THE PIPING LAYOUT IS TO BE CONSIDERED PRELIMINARY.
 4. LOCATION AND DETAILS OF PIPE SUPPORTS WILL BE PROVIDED LATER.



| REV. | DATE | DESCRIPTION OF REVISION | SMU DRAWN | SMHA CHECKED | MAS APPR. |
|------|------------|-------------------------|--------------|-----------------|--------------|
| F0 | 27-02-2017 | AS BUILT | | | |

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| | | | |
|-----------|---|--------|--|
| PROJECT : | KPD-TAY INTEGRATED DEVELOPMENT PROJECT PHASE-II | | |
| TITLE : | PIPING LAYOUT PLAN FOR PIG RECEIVER & MANIFOLD AREA | | |
| DWG. NO. | 165-4-MPL-10020 | | |
| REV. | F0 | | |
| JOB NO. | 165-4 | | |
| SIZE | SCALE | SHEET | |
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