

LAPORAN KERJA PRAKTEK

**PT. CEMERLANG SAMUDRA KONTRINDO
PROYEK PILE ON SLAB, ST BATANG, ROKAN HILIR**

**FEBRIAN ASRI
4204181185**



**TEKNIK SIPIL
TEKNIK PERANCANGAN JALAN DAN JEMBATAN
POLITEKNIK NEGERI BENGKALIS
BENGKALIS-RIAU
2021**

LAPORAN KERJA PRAKTEK
PT. CEMERLANG SAMUDRA KONTRINDO

Ditulis sebagai salah satu syarat untuk menyelesaikan Kerja Praktek

FEBRIAN ASRI
4204181185

Rokan Hilir, 12 September 2021

Quality Control
PT. Cemerlang Samudra Kontrindo



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KATA PENGANTAR

Dengan mengucapkan syukur Alhamdulillah atas kehadiran Allah swt yang telah memberikan rahmat dan karunia nya kepada saya, sehingga dapat menyelesaikan laporan hasil pelaksanaan kerja praktek yang berlangsung selama 2 bulan dengan baik, dan saya dapat menyusun laporan ini sebagai kewajiban pelaksanaan kerja praktek di Politeknik Bengkalis.

Tidak lupa saya ucapkan terimakasih yang sebesar-besarnya kepada :

1. Bpk. Muhammad Idham, M.Sc, selaku ketua prodi.
2. Bpk. Hendra Saputra, M.Sc, selaku dosen pembimbing.
3. Bpk. Dr. Noerdin Basir, selaku koordinator KP.
4. PT. Cemerlang Samudra Kontrindo, yang telah memberikan izin / kesempatan kepada saya untuk melakukan kerja praktek.
5. Pembimbing di lapangan, yakni Adelina Wulandari (QS), Hartanto Sinaga (Supervisor), Muhammad Rizky (QC), Natanael Purba (HSE), Muhammad Dahlan (Drafter), dan seluruh anggota team di PT CSK.
6. Dan juga kepada teman-teman seperjuangan.

Dengan adanya kerja praktek ini, saya dapat menambah wawasan dan pengalaman di dunia lapangan. Dan dengan ini juga mahasiswa menjadi lebih percaya diri nantinya jika sudah menempuh dunia kerja yang sesungguhnya.

Dan juga saya mohon maaf jika terdapat kesalahan dan kekurangan dalam laporan ini, semoga laporan ini dapat bermanfaat. Demikian yang dapat saya sampaikan, saya ucapkan terima kasih.

Bengkalis, September 2021

Febrian Asri

4204181185

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BAB I

GAMBARAN UMUM PERUSAHAAN

1.1 Latar Belakang Perusahaan/ Industri

PT. Cemerlang Samudra Kontrindo (CSK) didirikan pada tahun 1998, berdasarkan semangat, komitmen, ide, visi, misi dan tekad yang kuat dari para pendiri untuk mewujudkan partisipasi nyata pertumbuhan industri di perusahaan konstruksi.

Sejak tahun 1998, PT CSK dimulai di Jl.S. Parman gg Rustam no.57B, Medan, Sumatera Utara. Seiring pertumbuhan konstruksi, PT CSK telah meresmikan cabang di Pekanbaru pada tahun 2005 dan cabang di Jakarta pada tahun 2009. PT ini telah didukung oleh para ahli, insinyur dan klien besar serta pekerjaan pemerintah.

Berdasarkan keputusan departemen kehakiman RI no: 02-22234 HT.01.01.th.98 dan Sertifikat Gepaksindo (Badan Pengembangan Jasa Konstruksi) Gedung (0212446), Sipil (0212447), Mekanikal Elektrikal (0131588). PT CSK bergerak dibidang konstruksi, meliputi infrastruktur, bangunan industri, mekanikal, elektrikal dan instrumentasi.

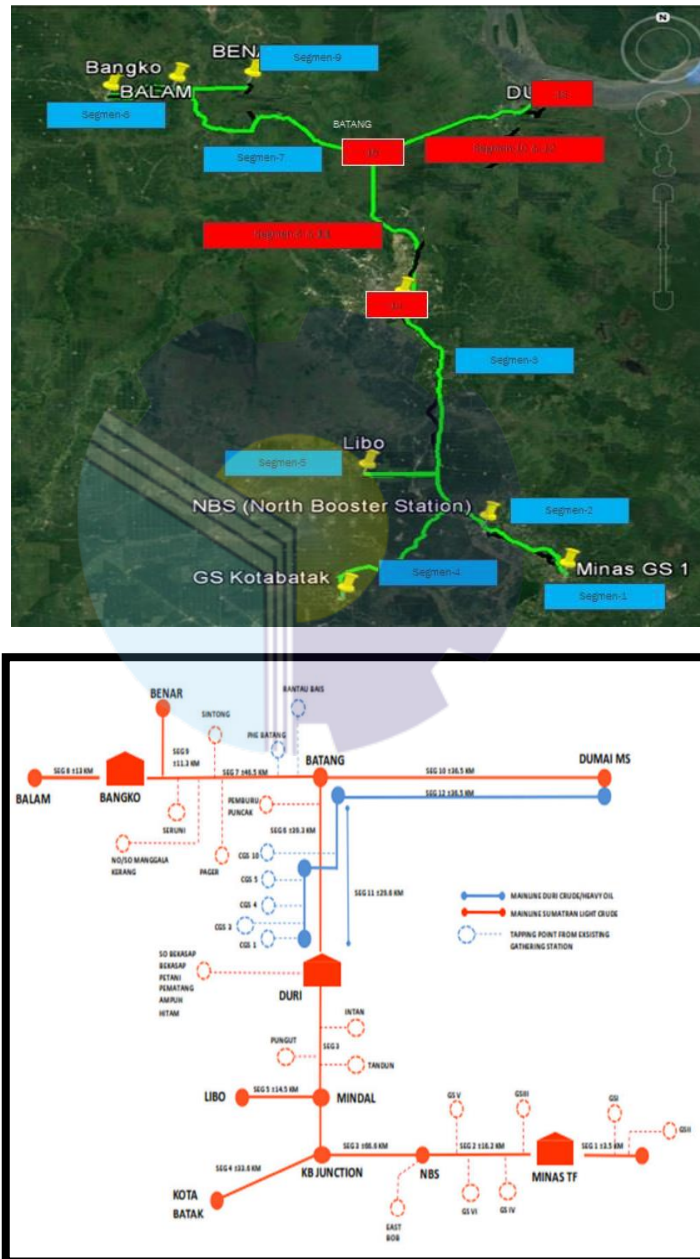
PT CSK selalu melakukan inovasi dalam rangka membantu terwujudnya *good governance* di Indonesia baik skala lokal maupun nasional, melalui berbagai kegiatan sebagai penyedia jasa konstruksi.

PT CSK juga mengutamakan kemitraan yang didukung oleh para praktisi sebagai ahli seleksi dari para profesional yang berkualitas dan berpengalaman dibidangnya. PT ini siap bekerjasama dengan Instansi non Departemen RI, Pemerintah Daerah, dan BUMN Swasta.

Sebagai pengetahuan dan kecerdasan perseroan telah menjalin kerjasama dengan Pemerintah Pusat, Pemerintah Daerah, dan Perusahaan Swasta.

1.2 Tujuan Proyek

Tujuan utama proyek ini ialah untuk mengganti jaringan pipa di Wilayah Kerja Rokan, Provinsi Riau yang akan melampaui umur desain. Jaringan pipa baru terdiri dari sekitar panjang 290 km *Sumatra Light Crude (SLC)* dan *Duri Crude (HO)* ditunjukkan pada gambar dibawah ini :



Gambar 1. Skema Diagram Jasa Perancangan, Pengadaan dan Konstruksi
Penggantian Pipa Minyak Wilayah Rokan

Sumatra Light Crude dari Minas, Kota Batak, Libo dan Bekasap akan dikumpulkan dalam tangki *Crude Oil* di Stasiun Duri untuk keperluan pengukuran sebelum dipindahkan ke *Dumai Tank farm*. Sistem ini akan disebut Jaringan Selatan.

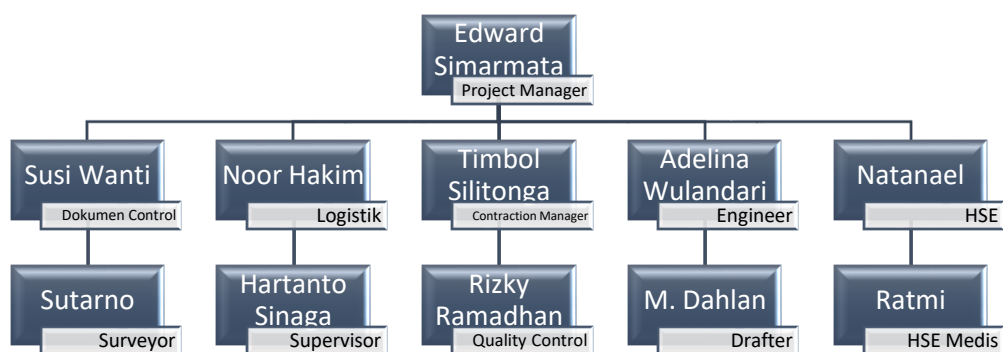
Sumatra Light Crude (SLC) dari Balam, Bangko, dan Benar akan ditransfer ke *Dumai Tank Farm* setelah datang dengan *Crude* dan *Heavy Oil* dari PHE Batang. Sistem ini akan disebut Jaringan Utara.

Heavy Oil dari daerah Duri akan dikirim ke *Dumai Tank Farm* melalui Batang, Sistem ini disebut Jaringan *Heavy Oil*.

Proyek yang kami ikuti yakni Pile On Slab For Access Road di Station Batang, bertujuan sebagai akses jalan (Area) dan untuk meletakkan pipa (Segmen).

1.3 Struktur Organisasi Perusahaan/ Industri

Struktur organisasi PT. Cemerlang Samudra Kontrindo (CSK) di Station Batang.



1.4 Ruang Lingkup Perusahaan/ Industri

PT. Pertamina Gas, sebagai Owner dari Jasa Perancangan, Pengadaan dan Kontruksi Penggantian Pipa Minyak Wilayah Rokan.

Konsorsium PT. PGAS Soltion dan PT. Patra Drilling Contractor (PDC) sebagai Kontraktor , ditunjuk oleh owner untuk melaksanakan dan menyelesaikan pekerjaan EPC (Engineering, Procurement, Construction) pada Jasa Perancangan, Pengadaan dan Kontruksi Penggantian Pipa Minyak Wilayah Rokan.

PT. Cemerlang Samudra Kontrindo (CSK), sebagai Subkontraktor yaitu Pihak yang menyediakan/ membuat material atau peralatan sesuai dengan spesifikasi yang dipesan oleh kontraktor.

Migas, sebagai Perwakilan dari Pemerintah Indonesia yang bertanggung jawab untuk memberikan izin dan sertifikat untuk fasilitas minyak dan gas.



BAB II

DATA PROYEK

2.1 Proses Pelelangan

Pendahuluan

- PT. PERTAMINA GAS (PERTAGAS) menawarkan pekerjaan tersebut kepada penyedia barang/ jasa dengan klasifikasi perusahaan usaha besar sesuai bidang/ sub bidang pengamanan, mempunyai kredibilitas dan kompetensi serta berpengalaman yang sesuai bidang pekerjaannya.
- Prakuifikasi ini digunakan oleh panitia sebagai tahap awal penyeleksian penyedia barang/ jasa yang berminat sebagai calon peserta pelelangan, dimana calon peserta diharuskan melengkapi dan memasukkan semua persyaratan.
- Kekurangan dan kekeliruan atas dokumen yang disampaikan kepada panitia pengadaan sehingga mengakibatkan calon peserta dinyatakan tidak lulus prakuifikasi adalah merupakan resiko bagi calon peserta.
- Proses ini mengacu kepada pedoman pengadaan barang dan jasa No. A-002/PG0300/2016-S0.

Syarat-Syarat Prakuifikasi

- Mempunyai pengalaman dibidang pekerjaan yang dimaksud.
- Calon peserta tidak boleh mempunyai hubungan istimewa dengan calon peserta lainnya.
- Pada saat pemasukan dokumen prakuifikasi, calon peserta harus melampirkan persyaratan administrasi, teknis, finansial dan konsorsium.
- Dokumen prakuifikasi sesuai persyaratan diatas agar di paraf oleh wakil perusahaan yang memiliki otoritas yang tertera dalam akte notaris atau personil yang diberi kewenangan oleh perusahaan.

- Pengajuan dokumen prakualifikasi calon peserta terdiri dari satu (1) asli tidak perlu dimasukkan kedalam sampul tertutup, dibawa kepanitia untuk diperiksa kelengkapan dokumen.
- Penyerahan dokumen prakualifikasi harus sesuai jadwal yang telah ditentukan.

Tata Cara Prakualifikasi

- Dokumen prakualifikasi yang telah disampaikan oleh calon peserta akan dievaluasi menggunakan “Sistem Gugur”.
- Kekurangan satu (1) dokumen yang dipersyaratkan, akan menyebabkan calon peserta dinyatakan gugur atau tidak lulus prakualifikasi.

2.2 Data Umum



Gambar 2. Lokasi Proyek

Lokasi :

Jl. Lintas Riau – Sumit Simpang Bukit Timah, Rantau Bais, Kec. Tanah Putih,
Kabupaten Rokan Hilir, Riau 28983

Nama Kegiatan : Kontruksi Pergantian Pipa Minyak Wilayah Rokan
Nama Proyek : Pile On Slab For Access Road
Owner : PT. Pertamina Gas
Kontraktor : PT. PGAS Sol dan PT. PDC
Subkontraktor : PT. CSK
Pekerjaan Mulai : Desember 2020
Pekerjaan Selesai : Oktober 2021
Waktu Pemeliharaan : 12 Bulan Kalender
Nilai Proyek : Rp. 72.000.000.000,00

2.3 Data Teknis

Jenis Perkerasan : Rigid Pavement
Panjang Perkerasan : 231 m
Lebar Perkerasan : 16 m
Jenis Tanah : Gambut

Data Koordinat :

FGL (Finish Grade Level) EL \pm 00.00 M Refer to MSL = EL + 11 M (Local Elevation).

Global Coordinate E = 742396.421 N = 171425.185

Coordinate Refer to Datum WGS 1984 With UTM 47 N

Tiang Pancang : 18 m (250 mm x 250 mm)

Pilecap : D16 – 250

Balok : 2 D16 (Atas)
2 D16 (Bawah)
2 D10 – 100 (Stirup)

Pelat : D10 – 100



BAB III

DESKRIPSI KEGIATAN SELAMA KP

3.1 Spesifikasi Tugas Yang Dilaksanakan

- Dokumenter

Terdapat dua pengertian dokumentasi secara umum yaitu menyuguhkan informasi atau bukti resmi yang berguna untuk catatan dan sebagai upaya mengkategorikan suatu informasi dalam bentuk tulisan, foto, video, dll.

Tugas yang saya lakukan ialah dokumentasi segala hal pekerjaan yang sedang dilakukan dalam bentuk foto kemudian melaporkan pada atasan.

- Pelaporan Kegiatan di Lapangan

Tugas kedua yang saya lakukan ialah menulis laporan mengenai kegiatan/ pekerjaan yang sedang berlangsung diiringi dengan dokumentasi dan dikirim melalui sosial media kepada atasan. Contoh pertama, melaporkan kegiatan pengecoran di satu segmen dengan mencatat waktu dan menghitung berapa m³ yang sudah dicor. Kedua, melaporkan logistik dilapangan dengan memberikan bukti paraf. Ketiga mengukur/ mengecek dimensi-dimensi material dilapangan dengan yang direncanakan.

- Menggambar Denah Rencana Pile on Slab

Tugas ini merupakan inisiatif dari saya sendiri, dengan tujuan untuk lebih memahami/ mengerti ukuran-ukuran gambar rencana dengan proses real dilapangan nya. Gambar yang saya buat menggunakan software autocad.

3.2 Target Yang Diharapkan

Dapat membantu/ memudahkan urusan perusahaan dalam membuat laporan kepada owner & kontraktor dengan memberikan bukti dokumentasi, laporan yang

telah saya buat. Dan juga dengan melakukan dokumentasi dan pelaporan kegiatan, dapat menambah ilmu di lapangan dengan melihat dan bertanya secara langsung kepada para pekerja.

3.3 Perangkat Lunak/ Keras Yang Digunakan

Perangkat lunak yang digunakan :

- Software Microsoft, yang biasa digunakan ialah microsoft word untuk membuat berita acara dan daftar hadir pekerja.
- Software Autocad, merupakan software yang membantu saya dalam membuat gambar dan membuat saya lebih memahami proyek yang sedang dikerjakan.

Perangkat Keras yang digunakan :

- Laptop, perangkat yang saya gunakan untuk menjalankan software microsoft word dan juga autocad.
- Printer, perangkat untuk mencetak hasil dari software yang saya gunakan.
- Handphone, perangkat yang saya gunakan untuk dokumentasi dan pelaporan kegiatan dilapangan kepada atasan.





3.4 Data-Data Yang Diperlukan

- Data gambar dari drafter

Untuk mempelajari lebih dalam proyek yang sedang dikerjakan. Maka dari itu hal pertama yang dilakukan adalah memahami gambar rencana terlebih dahulu.



- Data material

Nama Bahan & Material	Gambar
Beton (cor ditempat)	
Tiang Pancang	
Kayu 5/7, 5/10	
Triplek, Pelat, Wiremesh	

Besi Ulir D13 & D16	
Kawat Beton 25 kg	
Scaffolding	
Minyak Solar	

Material Grade :

Concrete K-300 (253,9 kg/cm²)



Concrete Spun Pile K-500 (423,2 kg/cm²)

Lean Concrete K-125 (105,85 kg/cm²)

Rebar fy = 400 Mpa

- Data alat berat

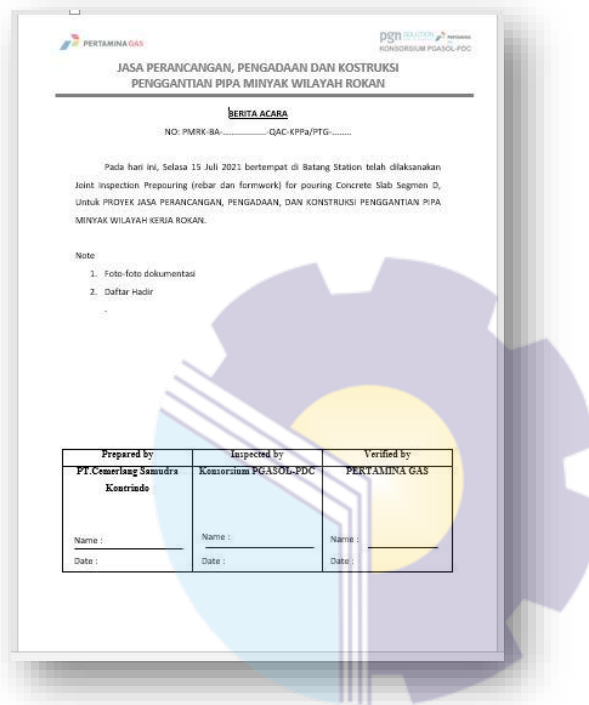
- Nama	Kegunaan	Gambar
Crane Fuwa 55 T	Untuk mengangkat dan memindahkan material.	
Excavator	Untuk pekerjaan tanah dan memindahkan bahan material.	
Excavator Long Arm Hitachi	Untuk pekerjaan tanah dan memindahkan bahan material dengan jangkauan yang panjang.	
Bore pile	Untuk melakukan pekerjaan pemancangan tiang pancang.	

<p>Bomag</p>	<p>Untuk memadatkan dan meratakan permukaan tanah.</p>	
<p>Loader</p>	<p>Untuk pembersihan lokasi awal.</p>	
<p>Dump Truck</p>	<p>Sebagai alat transportasi sekaligus pengangkut berbagai macam material.</p>	
<p>Concrete Pump Truck</p>	<p>Untuk mendorong hasil cairan beton yang sudah diolah dari mixer truck.</p>	
<p>Mixer Truck</p>	<p>Mengangkut beton dari batching plant ke lokasi konstruksi sambil menjaga konsistensi beton agar tetap cair dan tidak mengeras dalam perjalanan.</p>	

3.5 Dokumen-Dokumen File Yang Dihasilkan



- Berita acara

Memiliki peran penting bagi sebuah instansi, bertujuan untuk menjadi bukti legal tertulis atas sebuah peristiwa tertentu sebagai keabsahan suatu kegiatan yang telah dilakukan.



- Daftar hadir

Absensi pekerja merupakan hal yang sangat penting untuk memantau kehadiran para pekerja dan juga bertujuan untuk memonitor kedatangan sekaligus kepulangan para pekerja, mempermudah perhitungan absen untuk mempermudah penggajian, dan lain-lain.



 KONSORSIUM PGASOL-PDC

DAFTAR HADIR

HARI/TANGGAL : :
 JAM : :
 TEMPAT : :
 KEGIATAN/TOPIK : :

NO	NAMA	JABATAN	PERUSAHAAN	No.TELP/E-MAIL	PARAF
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
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25					

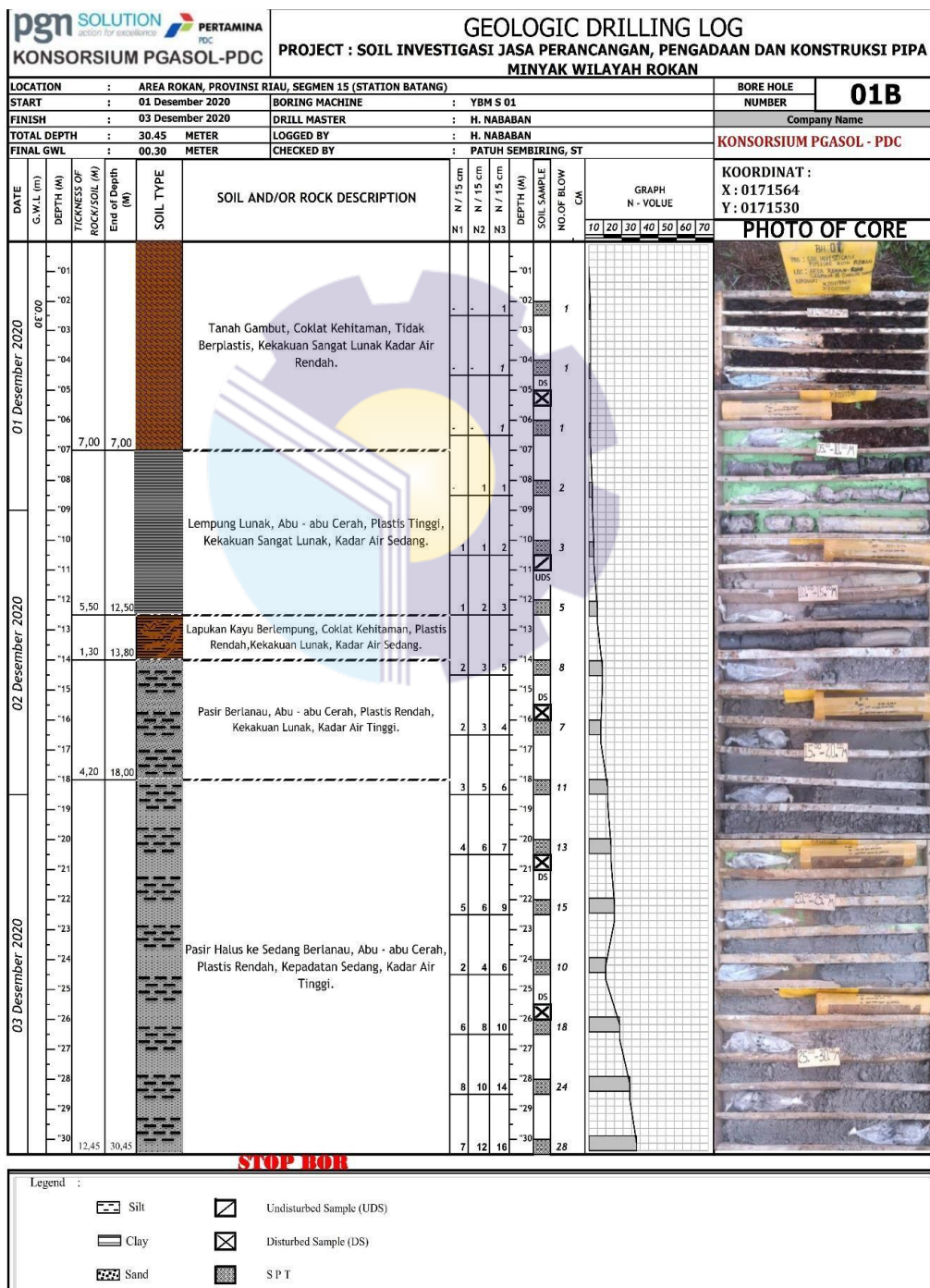
3.6 Kendala-Kendala Yang Dihadapi

Kendala yang saya hadapi di lokasi magang tidak ada, namun lokasi tempat proyek cukup jauh dengan tempat tinggal. Jadi jadwal saya ke lokasi proyek tidak setiap hari yaitu 5x seminggu atau 4x seminggu.

BAB IV TINJAUAN KHUSUS

4.1 Analisis Daya Dukung Tiang Pancang

Perencanaan tiang pancang pondasi 250 mm x 250 mm



Kapasitas Tekan

$$Q_{ult} = Q_b + Q_s - W_s$$

$$Q_{all} = \frac{Q_{ult}}{SF}$$

$$Q_b = \alpha \times N_p \times K \times A_p$$

$$Q_s = \beta \times \left(\frac{N_s}{3} + 1 \right) \times A_s$$

Kapasitas Tarik

$$Q_{ult} = Q_s$$

$$Q_{all} = \frac{Q_s}{SF}$$

Dimana :

Q_{ult} : daya dukung ultimit tiang (ton)

Q_b : daya dukung ujung tiang (ton)

Q_s : daya dukung selimut tiang

N_p : nilai rata-rata SPT disekitar 4B diatas dan dibawah dasar pondasi

N_s : nilai rata-rata SPT sepanjang tiang terbenam, dengan batasan $3 \leq N \leq 50$

A_p : luas penampang dasar tiang (m^2)

A_s : luas selimut tiang (m^2)

α : *base* koefisien,

1,00 untuk tiang pancang

0,85 untuk *bored pile* (tanah *clay*)

0,60 untuk *bored pile* (tanah *intermediate*)

0,50 untuk *bored pile* (tanah *sands*)

β : *shaft* koefisien,

1,00 untuk tiang pancang

0,85 untuk *bored pile* (tanah *clay*)

0,65 untuk *bored pile* (tanah *intermediate*)

0,50 untuk *bored pile* (tanah *sands*)

K : koefisien karakteristik tanah,

12 t/m² untuk tanah lempung

20 t/m² untuk tanah berlempung

25 t/m² untuk tanah lanau berpasir

40 t/m² untuk tanah pasir

Dimensi Tiang : 250 mm (D)

Luas Ujung Tiang : 0.063 m² (A_p)

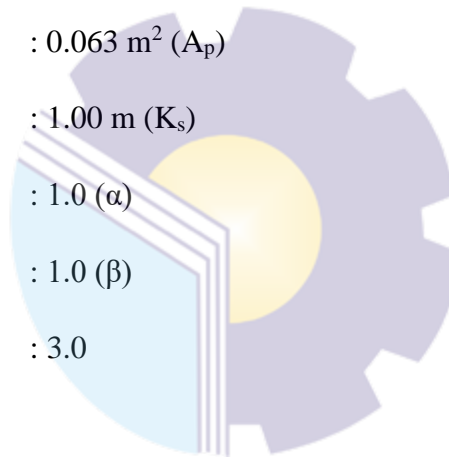
Keliling Tiang : 1.00 m (K_s)

Base Koefisien : 1.0 (α)

Shaft Koefisien : 1.0 (β)

Safety Factor : 3.0

Data Barlog



Kedalaman (m)	Tipe Tanah	N	N'	N''	N _p	N _s ₁	N _s	K	A _p (m ²)	A _s (m ²)
2.00	Lanau-Pasir	1	8	8.0	8.0	3.0	3.0	25	0.063	2.00
4.00	lanau-Pasir	1	8	8.0	6.5	3.0	3.0	25	0.063	4.00
6.00	lanau-Pasir	1	8	8.0	5.8	3.0	3.0	25	0.063	6.00
8.00	Lempung	2	8.5	2.0	5.2	3.0	3.0	12	0.063	8.00
10.00	Lempung	3	9	3.0	5.9	3.0	3.0	12	0.063	10.00
12.00	Lempung	5	10	5.0	6.5	5.0	3.3	12	0.063	12.00
14.00	Lanau-Pasir	8	11.5	11.5	8.7	8.0	4.0	25	0.063	14.00
16.00	Lanau-Pasir	7	11	11.0	10.9	7.0	4.4	25	0.063	16.00
18.00	Pasir	11	13	13.0	12.9	11.0	5.1	40	0.063	18.00
20.00	Pasir	13	14	14.0	13.1	13.0	5.9	40	0.063	20.00
22.00	Pasir	15	15	15.0	14.2	15.0	6.7	40	0.063	22.00
24.00	Pasir	10	12.5	12.5	15.5	10.0	7.0	40	0.063	24.00
26.00	Pasir	18	16.5	16.5	12.7	18.0	7.8	40	0.063	26.00
28.00	Pasir	24	19.5	19.5	9.7	24.0	9.0	40	0.063	28.00

Kedalaman (m)	Q _b (ton)	Q _s (ton)	W _s (ton)	Kapasitas Tekan		Kapasitas Tarik	
				Q _u (ton)	Q _{all} (ton)	Q _u (ton)	Q _{all} (ton)
2.00	12.5	4.0	0.3	16.2	5.4	4.0	1.3
4.00	10.2	4.0	0.6	17.5	5.8	4.0	1.3
6.00	9.1	4.0	0.9	20.1	6.7	4.0	1.3
8.00	3.9	4.0	1.2	18.7	6.2	4.0	1.3
10.00	4.4	4.0	1.5	22.9	7.6	4.0	1.3
12.00	4.9	4.2	1.8	27.3	9.1	4.2	1.4
14.00	13.6	4.7	2.1	40.3	13.4	4.7	1.6
16.00	17.0	4.9	2.5	48.4	16.1	4.9	1.6
18.00	32.3	5.4	2.8	68.7	22.9	5.4	1.8
20.00	32.8	5.9	3.1	74.8	24.9	5.9	2.0
22.00	35.5	6.5	3.4	83.8	27.9	6.5	2.2
24.00	38.8	6.7	3.7	93.4	31.1	6.7	2.2
26.00	39.7	7.2	4.0	101.2	33.7	7.2	2.4
28.00	40.4	8.0	4.3	109.7	36.6	8.0	2.7

Gaya aksial maksimum dan minimum tiang pancang yang direncanakan:

- Pu_max = 18.477 Ton
- Pu_min = 2.640 Ton

Dari perhitungan kapasitas tiang pancang diperoleh tiang dengan kedalaman -18m, mempunyai kapasitas tekan sebesar 22.9 Ton.

Kesimpulan, tiang pancang ukuran 250mm x 250mm dengan panjang total 18m cukup menahan beban yang direncanakan (22.9 Ton > 18.477 Ton).

BAB V

PENUTUP

5.1 Kesimpulan

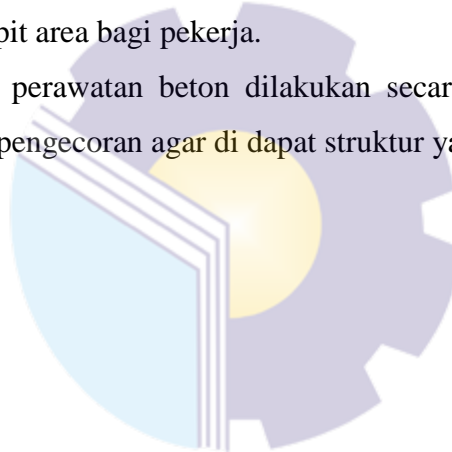
Kesimpulan setelah mengikuti kegiatan kerja praktek pada proyek pile on slab, didapatkan pengetahuan tentang pelaksanaan pekerjaan yang dihadapi dilapangan, serta dapat membandingkan antara teori yang diperoleh di bangku perkuliahan dengan kenyataan di lapangan.

Kesimpulan yang telah saya dapatkan adalah sebagai berikut :

- Kerja praktek merupakan salah satu kegiatan dalam menambah wawasan mahasiswa/i dalam pengalaman kerja di lapangan. Ruang lingkup kerja praktek meliputi pengamatan dan pelaporan pelaksanaan kegiatan suatu proyek.
- Proyek ini berlatar belakang jaringan pipa wilayah Rokan akan melampaui umur desain maka perlu dilakukan penggantian, proyek ini meliputi jasa kontruksi civil yang berada di Stasiun Duri, Dumai & Batang. Proyek yang saya ikuti berada di Stasiun Batang.
- Metode pelaksanaan pekerjaan sesuai dengan prosedur tata cara pelaksanaan di masing-masing pekerjaan yang sudah ditentukan.
- Pengendalian proyek meliputi pengendalian mutu, biaya dan waktu. Pada pengendalian mutu terdapat pengendalian dari segi material, proses pekerjaan dan hasil pekerjaan yang dilakukan oleh QC (Quality Control). Semua dilaksanakan melalui pengujian dan pengawasan melalui daftar checklist yang harus diisi sesuai dengan kondisi dilapangan. Pada pengendalian biaya ada QS yang mengatur keuangan pada proyek ini.
- Proyek ini mengalami keterlambatan dikarenakan beberapa kendala seperti cuaca, perubahan desain dikarenakan kondisi lapangan. Namun permasalahan ini dapat diselesaikan melalui rapat intern kontraktor, rapat antar pihak kontraktor dengan owner, maupun rapat antara kontraktor utama dengan sub kontraktor yang terkait.

5.2 Saran

- Agar pelaksanaan pekerjaan berjalan dengan lancar dibutuhkan tenaga kerja yang dapat mencukupi kebutuhan pekerjaan sehingga waktu yang direncanakan dapat tercapai.
- Dibutuhkan gudang penyimpanan material khususnya besi tulangan, karena stok material pada proyek ini hanya diletakkan ditempat terbuka diatas lapangan sehingga jika terkena hujan dapat terjadi korosidan berakibat menurunnya mutu material tersebut.
- Dibutuhkan lebih banyak pekerja dalam bidang kebersihan karena pekerjaan lantai yang sudah selesai masih banyak terdapat sampah-sampah material yang tidak terpakai yang bisa membahayakan pekerja serta mempersempit area bagi pekerja.
- Pada proses perawatan beton dilakukan secara rutin dan diterapkan ke semua hasil pengecoran agar di dapat struktur yang kokoh dan kuat.



DAFTAR PUSTAKA

Copyright ©2017, “About – PT. Cemerlang Samudra Kontrindo”
<http://www.csk.co.id/page/about>

PGAS-00-GEN-KAK-006, “Kerangka Acuan Kerja, Civil (Inc. Site Preparation) Station
Duri, Dumai dan Batang”.



SURAT KETERANGAN
(CSK-SKT/2-PROJ-ROKAN-IX-2021)

Yang bertanda tangan di bawah ini menerangkan bahwa :

Nama : Febrian Asri

Tempat/ Tgl. Lahir : Perawang / 02 Februari 2000

Alamat : Jl. HR.Soebrantas, Gg Melati, Kec Bengkalis, Kab
Bengkalis, Riau

Telah melakukan Kerja Praktek pada perusahaan kami, PT CEMERLANG SAMUDRA KONTRINDO sejak tanggal 12 Juli sampai dengan 12 September 2021, sebagai tenaga Kerja Praktek (KP).

Selama bekerja di perusahaan kami, yang bersangkutan telah menunjukkan ketekunan dan kesungguhan bekerja dengan baik.

Surat keterangan ini diberikan untuk dipergunakan sebagaimana mestinya.

Demikian agar yang berkepentingan maklum.

Rokan Hilir, 12 September 2021



Edward Simarmata
Project Manager

PENILAIAN DARI PERUSAHAAN KERJA PRAKTEK
DI PT. CSK (CEMERLANG SAMUDRA KONTRINDO)

Nama : FEBRIAN ASRI
NIM : 4204181185
Program Studi : D-IV TEKNIK PERANCANGAN JALAN & JEMBATAN
Politeknik Bengkalis

No.	Aspek Penilaian	Bobot	Nilai
1.	Disiplin	20%	20%
2.	Tanggung-jawab	25%	25%
3.	Penyesuaian diri	10%	10%
4.	Hasil Kerja	30%	30%
5.	Perilaku secara umum	15%	15%
Total Jumlah (1+2+3+4+5)		100%	

Keterangan :
Nilai : Kriteria
81 - 100 : Istimewa
71 - 80 : Baik sekali
66 - 70 : Baik
61 - 65 : Cukup Baik
56 - 60 : Cukup

Catatan :

.....
.....
.....
.....
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ROKAN HILIR, 12 SEPTEMBER 2021





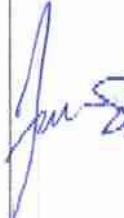


Super Visor






















HARTANTO SINAGA

LAPORAN HARIAN KERJA PRAKTEK (KP)

NO	TIARI / TANGGAL	GAMBAR KERJA	URAIAN KEGIATAN	PEMBERI TUGAS	PARAF
1	Selasa / 13 Juli 2021		Pemasangan besi dan lantai kerja di Segmen D	Muhammad Rizky.R.S	
2	Kamis / 15 Juli 2021		Pemasangan besi dan penyiraman air sebelum dicor, di Segmen D	Muhammad Rizky.R.S	
3	Jumat / 16 Juli 2021		Pengecoran dan Tes Slump di Segmen D	Muhammad Rizky.R.S	

4	Sabtu / 17 Juli 2021		Pemasangan besi pagar pengaman di Segmen D dan pemindahan square pile dengan alat berat	Muhammad Rizky.R.S	R
5	Senin / 26 Juli 2021		Pembuatan pile cap di Segmen C dan meratakan tanah dengan alat berat	Natanael Purba	
6	Selasa / 27 Juli 2021		Pembuatan pile cap di Segmen A	Natanael Purba	
7	Kamis / 19 Agustus 2021		Pemasangan besi dan lantai kerja di Segmen C dan pengecoran pile Segmen B	Natanael Purba	

8	Sabtu / 21 Agustus 2021		Pemasangan besi di Segmen C dan pemasangan scaffolding di Segmen B	Natanael Purba	
9	Rabu / 25 Agustus 2021		Pembuatan pilecap Segmen B	Muhammad Rizky.R.S	
10	Kamis / 26 Agustus 2021		Pembuatan pilecap Segmen B dan pembuatan bekisting square pile di Area 1	Muhammad Rizky.R.S	
11	Rabu / 01 September 2021		Pemasangan besi Segmen B dan Pemasangan tulangan bekisting square pile Area 1	Muhammad Rizky.R.S	

12	Kamis / 02 September 2021		Pengecoran Square pile Area 1	Muhammad Rizky.R.S	
13	Jumat / 03 September 2021	 	Pembuatan bekisting square pile Area 1	Muhammad Rizky.R.S	
14	Senin / 06 September 2021	 	Pemasangan tulangan bekisting di Area 1 dan pengecoran Segmen B	Muhammad Rizky.R.S	
15	Sabtu / 11 September 2021	 	Pembuatan pilecap Segmen E dan pemancangan tiang pancang	Muhammad Dahlan	

CLIENT : PT. PERTAMINA GAS
 PROJECT : JASA PERANCANGAN, PENGADAAN DAN KONSTRUKSI
 PENGGANTIAN PIPA MINYAK WILAYAH ROKAN

CIVIL GENERAL ARRANGEMENT DRAWING BATANG STATION

PMRK-EPC-52-CIV-DRW-009

APPROVED FOR CONSTRUCTION
 PT. PERTAMINA GAS

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Date :	Date :

DOCUMENT REVIEW STATUS

- 1. APPROVED
- 2. APPROVED WITH COMMENTS
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- 3. REVIEWED /COMMENTED
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NOTES

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE
- FGL (FINISH GRADE LEVEL) EL ± 00.00 M REFER TO MSL = EL + 11.00 M (LOCAL ELEVATION)
- GLOBAL COORDINATE E = 742396.421 N = 171425.185 SAME WITH E = 0.00 N = 0.00 (LOCAL COORDINATE)
- COORDINATE REFER TO DATUM WGS 1984 WITH
 - PROJECTION : UNIVERSAL TRANSVERSE MERCATOR (UTM)
 - ZONE : 47 N
- SITE SURVEY AND CONSTRUCTION WILL VERIFY AND ADJUST THE DIMENSION MORE EXACT DIMENSION WILL BE SHOWN AFTER SITE SURVEY

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PT. PERTAMINA GAS

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Date :	Date :

REV.	DATE	DESCRIPTION	PRP'D	CHK'D	APR'D	APR'D
2	19/03/2021	RE-APPROVED FOR CONSTRUCTION	SDP	FRN	HEN	PCH
1	19/03/2021	RE-APPROVED FOR CONSTRUCTION	SDP	FRN	HEN	PCH
0	20/02/2021	APPROVED FOR CONSTRUCTION	SDP	FRN	HEN	PCH
B	10/12/2020	ISSUED FOR APPROVAL	SDP	FRN	HEN	PCH
A	05/11/2020	ISSUED FOR REVIEW	FAP	FRN	HEN	PCH

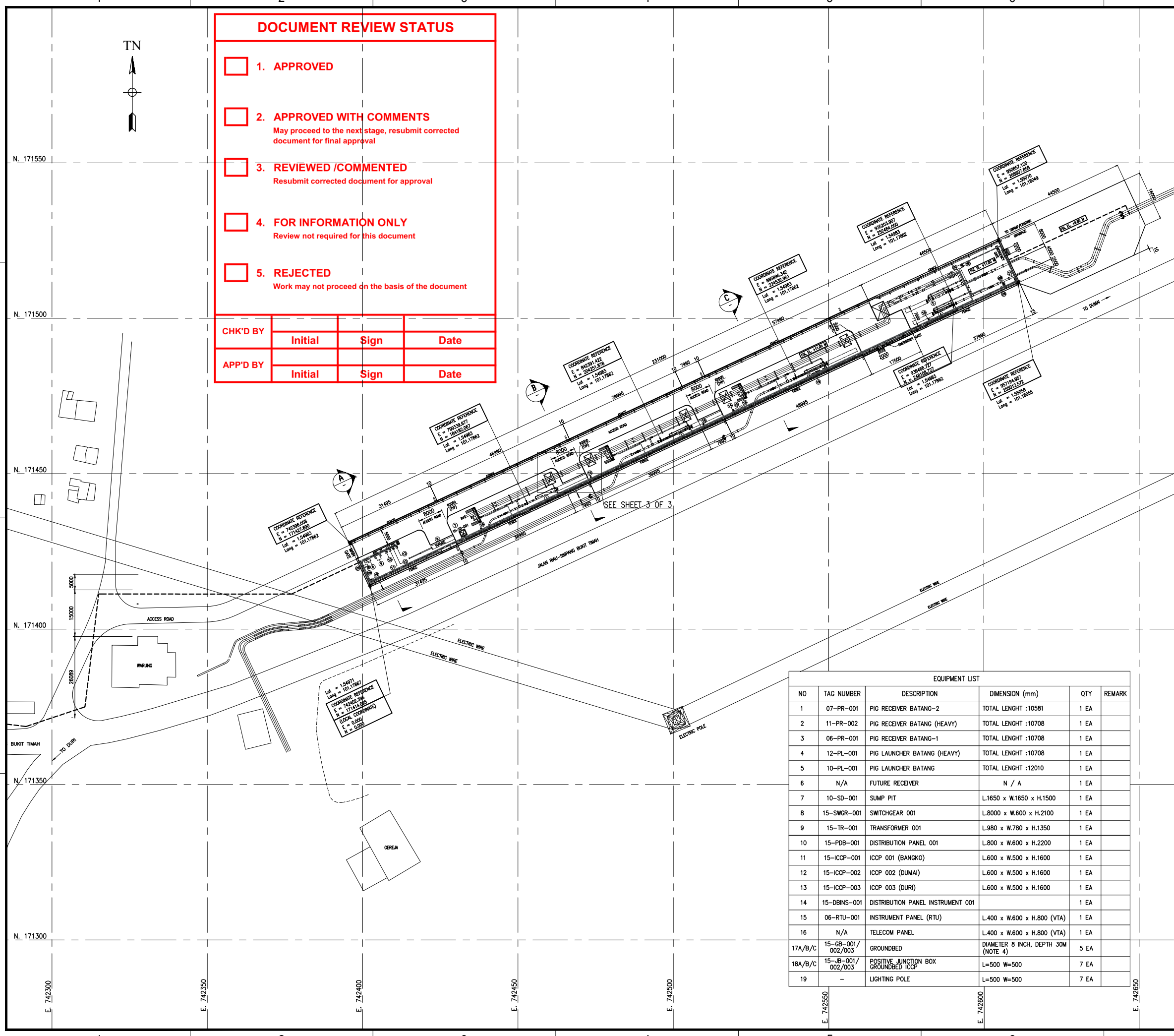
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OWNER :

CONTRACTOR :
KONSORSIUM PGASOL-PDC

TITLE : **CIVIL GENERAL ARRANGEMENT DRAWING BATANG STATION**

SCALE	DRAWING NO.	SHEET	REV.
1 : 600	PMRK-EPC-52-CIV-DRW-009	1 OF 3	1



NO	TAG NUMBER	DESCRIPTION	DIMENSION (mm)	QTY	REMARK
1	07-PR-001	PIG RECEIVER BATANG-2	TOTAL LENGHT :10581	1 EA	
2	11-PR-002	PIG RECEIVER BATANG (HEAVY)	TOTAL LENGHT :10708	1 EA	
3	06-PR-001	PIG RECEIVER BATANG-1	TOTAL LENGHT :10708	1 EA	
4	12-PL-001	PIG LAUNCHER BATANG (HEAVY)	TOTAL LENGHT :10708	1 EA	
5	10-PL-001	PIG LAUNCHER BATANG	TOTAL LENGHT :12010	1 EA	
6	N/A	FUTURE RECEIVER	N / A	1 EA	
7	10-SD-001	SUMP PIT	L.1650 x W.1650 x H.1500	1 EA	
8	15-SWGR-001	SWITCHGEAR 001	L.8000 x W.600 x H.2100	1 EA	
9	15-TR-001	TRANSFORMER 001	L.980 x W.780 x H.1350	1 EA	
10	15-PDB-001	DISTRIBUTION PANEL 001	L.800 x W.600 x H.2200	1 EA	
11	15-ICCP-001	ICCP 001 (BANGKO)	L.600 x W.500 x H.1600	1 EA	
12	15-ICCP-002	ICCP 002 (DUMAI)	L.600 x W.500 x H.1600	1 EA	
13	15-ICCP-003	ICCP 003 (DURI)	L.600 x W.500 x H.1600	1 EA	
14	15-DBINS-001	DISTRIBUTION PANEL INSTRUMENT 001		1 EA	
15	06-RTU-001	INSTRUMENT PANEL (RTU)	L.400 x W.600 x H.800 (VTA)	1 EA	
16	N/A	TELECOM PANEL	L.400 x W.600 x H.800 (VTA)	1 EA	
17A/B/C	15-GB-001/002/003	GROUND BED	DIAMETER 8 INCH, DEPTH 30M (NOTE 4)	5 EA	
18A/B/C	15-JB-001/002/003	POSITIVE JUNCTION BOX GROUND BED ICCP	L=500 W=500	7 EA	
19	-	LIGHTING POLE	L=500 W=500	7 EA	



DOCUMENT REVIEW STATUS

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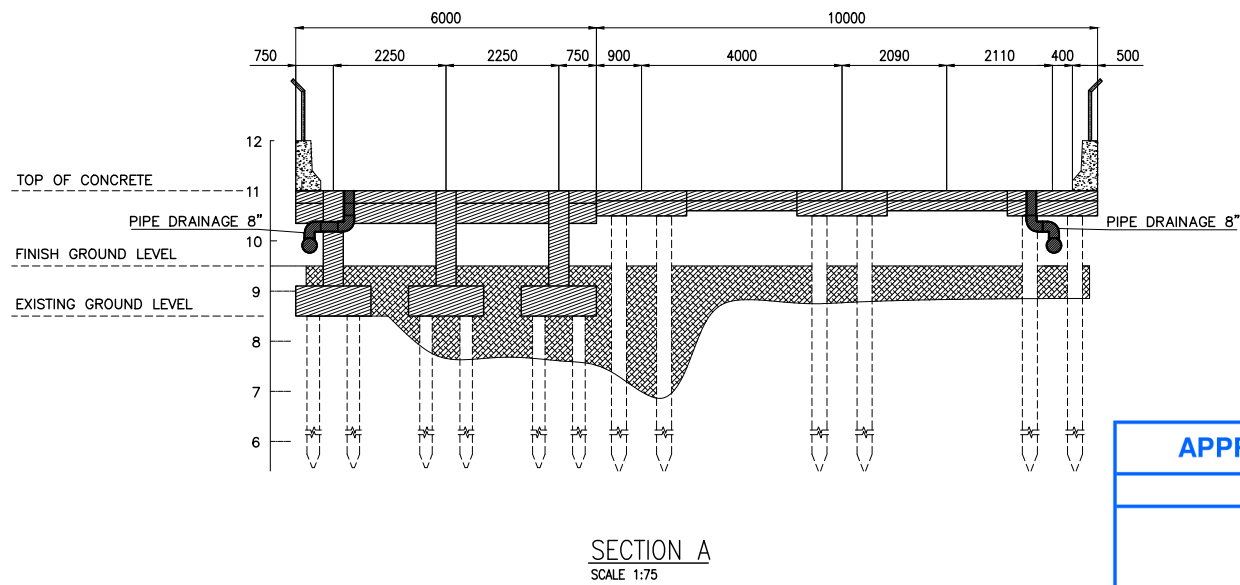
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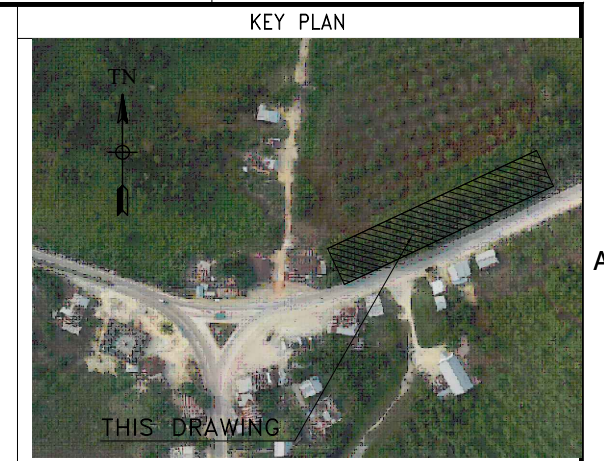
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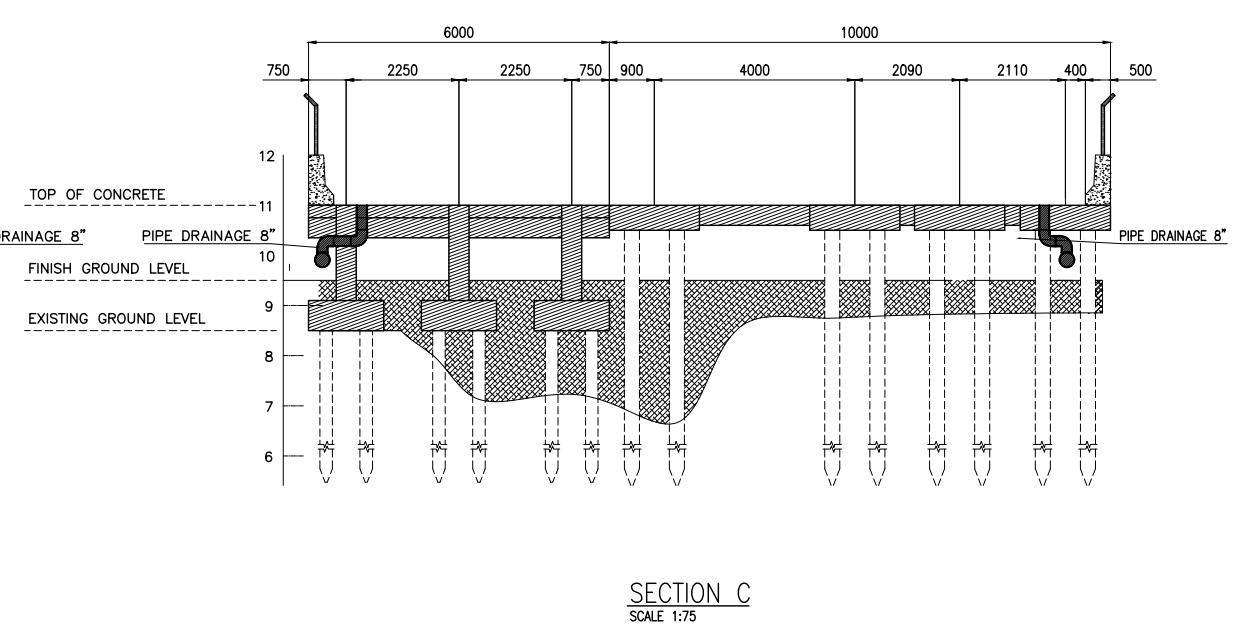
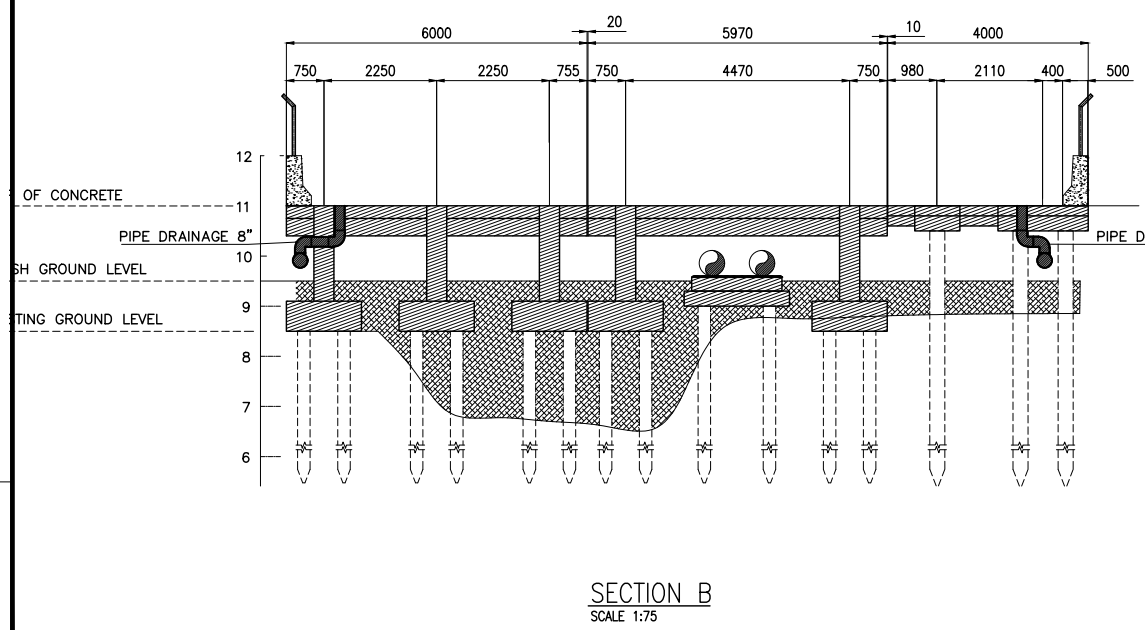


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PT. PERTAMINA GAS

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 - ZONE : 47 N
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REV.	DATE	DESCRIPTION	PRP'D	CHK'D	APR'D	APR'D
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B	10/12/2020	ISSUED FOR APPROVAL	SDP	FRN HEN PCH ADR	FRN HEN PCH ADR	
A	05/11/2020	ISSUED FOR REVIEW	FAP	FRN HEN PCH ADR	FRN HEN PCH ADR	

PROJECT :
JASA PERANCANGAN, PENGADAAN, DAN KONSTRUKSI PENGGANTIAN PIPA MINYAK WILAYAH ROKAN

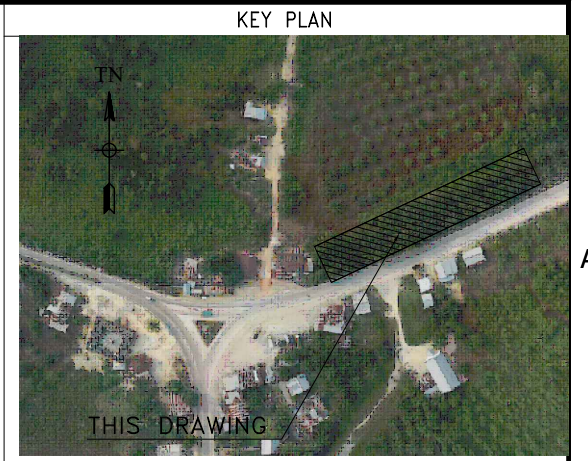
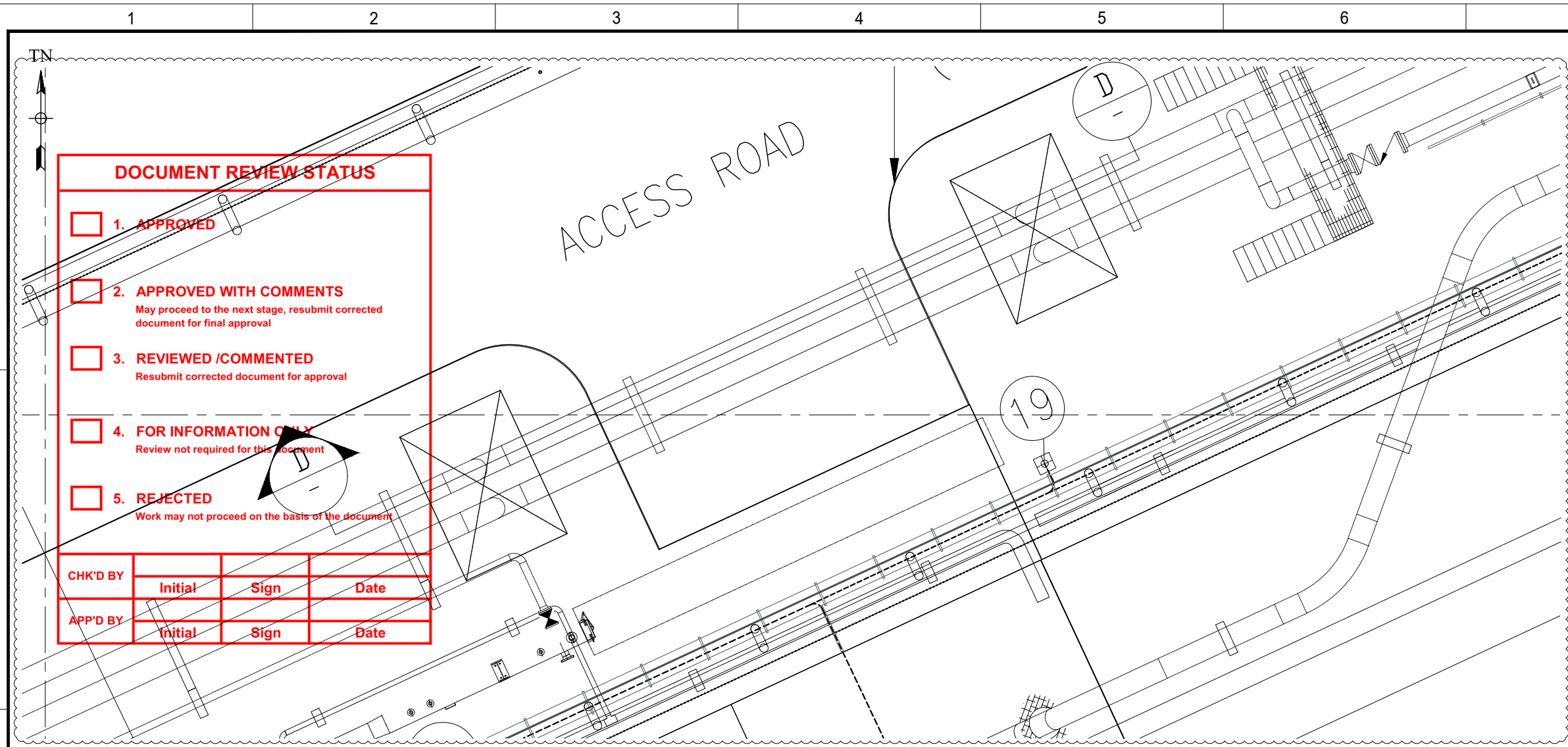
OWNER :

CONTRACTOR :

KONSORSIUM PGASOL-PDC

TITLE :
CIVIL GENERAL ARRANGEMENT DRAWING
BATANG STATION

SCALE	DRAWING NO.	SHEET	REV.
1 : 600	PMRK-EPC-52-CIV-DRW-009	2 OF 3	1



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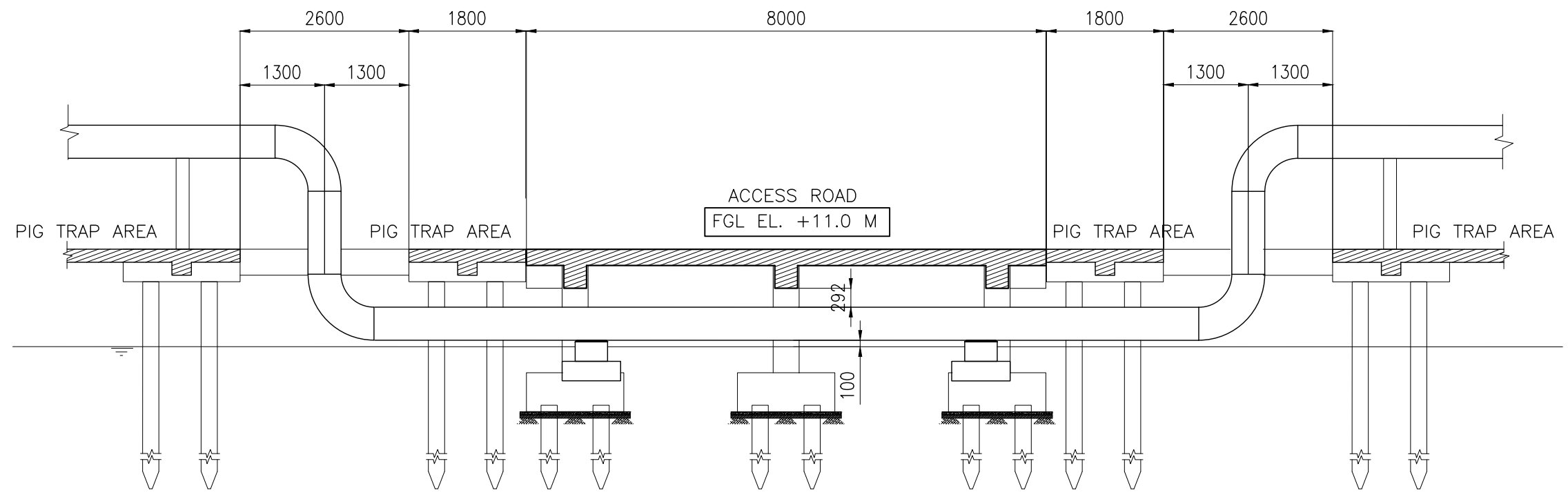
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- PROJECTION : UNIVERSAL TRAVERSE MERCATOR (UTM)
- ZONE : 47 N
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PT. PERTAMINA GAS	
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Date :	Date :



SECTION D
SCALE 1:50

REV.	DATE	DESCRIPTION	PRP'D	CHK'D	APP'D	APP'D
2	19/03/2021	RE-APPROVED FOR CONSTRUCTION	SDP	FRN HEN	PGH ADR	
1	19/03/2021	RE-APPROVED FOR CONSTRUCTION	SDP	FRN HEN	PGH ADR	
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B	10/12/2020	ISSUED FOR APPROVAL	SDP	FRN HEN	PGH ADR	
A	05/11/2020	ISSUED FOR REVIEW	FAP	FRN HEN	PGH ADR	

PROJECT : **JASA PERANCANGAN, PENGADAAN, DAN KONSTRUKSI PENGGANTIAN PIPA MINYAK WILAYAH ROKAN**

OWNER : **PERTAMINA GAS**

CONTRACTOR : **pgn SOLUTION** action for excellence **PERTAMINA PDC**
KONSORSIUM PGASOL-PDC

TITLE : **CIVIL GENERAL ARRANGEMENT DRAWING BATANG STATION**

SCALE	DRAWING NO.	SHEET	REV.
1 : 600	PMRK-EPC-52-CIV-DRW-009	3 OF 3	1

CLIENT : PT. PERTAMINA GAS
 PROJECT : JASA PERANCANGAN, PENGADAAN DAN KONSTRUKSI
 PENGGANTIAN PIPA MINYAK WILAYAH ROKAN

FOUNDATION DRAWING SLAB ON PILE AREA PIG RECEIVER BATANG 07-PR-001 STATION BATANG

DOCUMENT REVIEW STATUS

<input type="checkbox"/>	1. APPROVED
<input checked="" type="checkbox"/>	2. APPROVED WITH COMMENTS May proceed to the next stage, resubmit corrected document for final approval
<input type="checkbox"/>	3. REVIEWED /COMMENTED Resubmit corrected document for approval
<input type="checkbox"/>	4. FOR INFORMATION ONLY Review not required for this document
<input type="checkbox"/>	5. REJECTED Work may not proceed on the basis of the document
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	Initial Sign Date
APP'D BY	<i>HWD</i> <i>HWD</i>
	Initial Sign Date

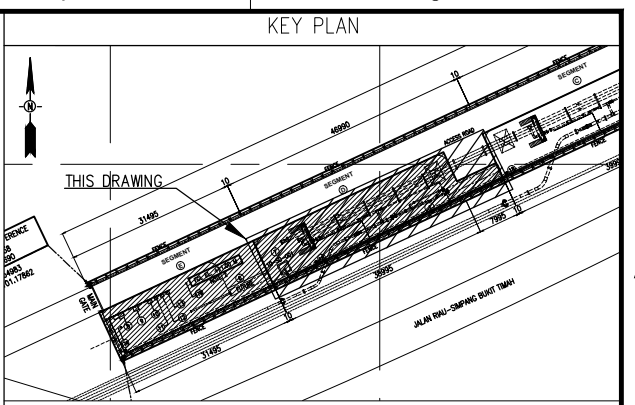
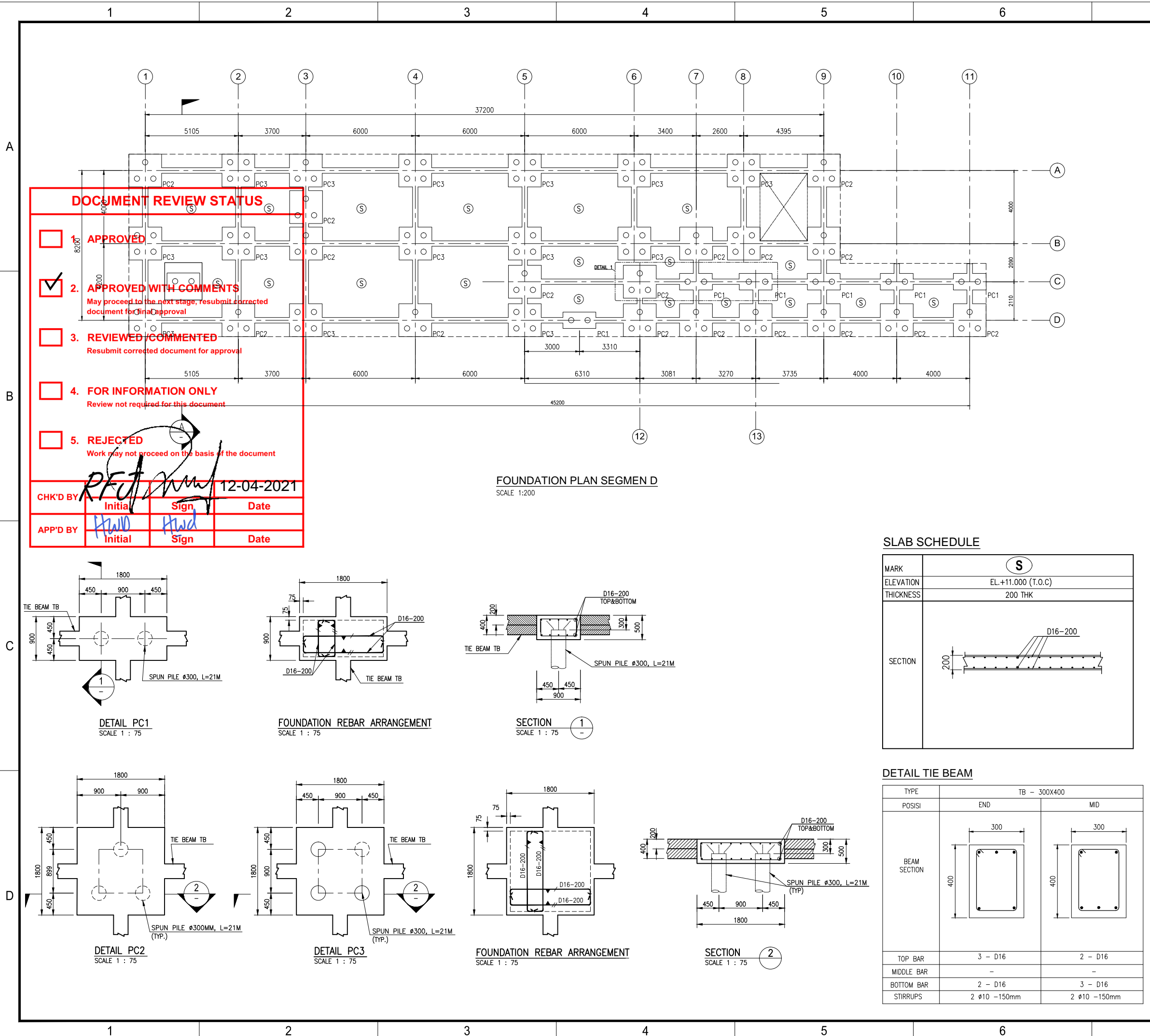
COMMENT TYPICAL REFER TO
 PMRK-EPC-52-CIV-DRW-012 Rev.0

PMRK-EPC-52-CIV-DRW-014

Hold for all dimension related to pedestal, base plate, anchor bolt

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Date :	Date :

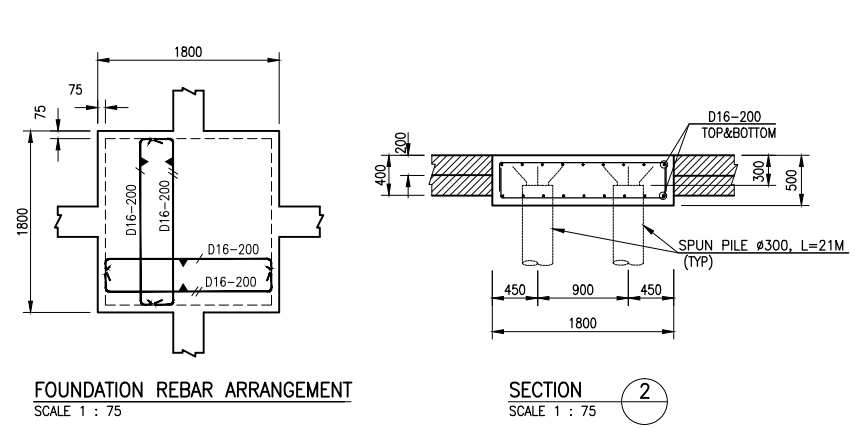
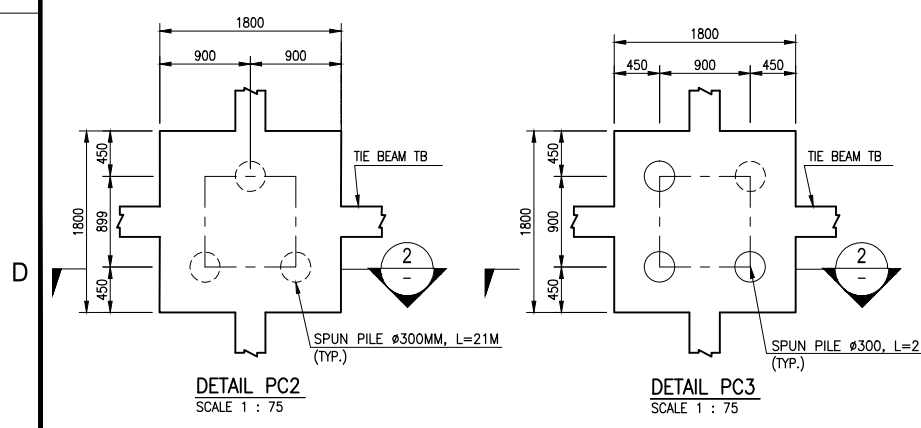
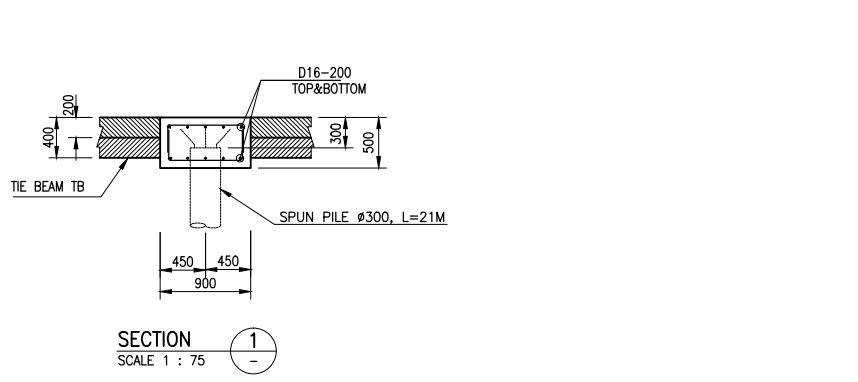
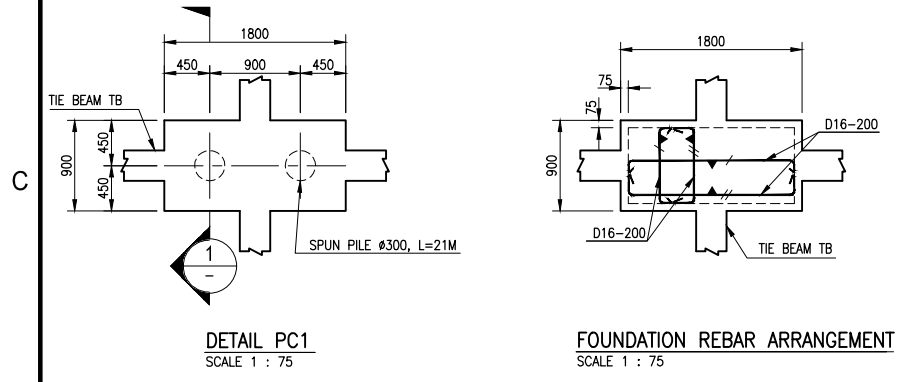




- NOTES**
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTE OTHERWISE.
 - ELEVATIONS ARE IN METERS UNLESS NOTE OTHERWISE.
 - FGL (FINISH GROUND LEVEL) EL. ±0.000 REFER TO MSL = EL. +11.000
 - MATERIAL GRADE
 - CONCRETE K-300 (253.9 kg/cm²)
 - CONCRETE SPUN PILE K-500 (423.2 kg/cm²)
 - LEAN CONCRETE K-125 (105.85 kg/cm²)
 - REBAR - DEFORMED BAR fy = 400 MPa ASTM A615 Gr 60, BJTS 40 OR EQUAL
 - GROUTING NON SHRINK GROUT
 - FOR SPECIFICATION SEE DOC. NO. :
 - PMRK-00-CIV-SPC-002 "SPECIFICATION FOR CONCRETE WORKS."
 - PMRK-00-CIV-SPC-007 "SPECIFICATION FOR BUILDING."
 - NUMBER DOCUMENT WAS CHANGED FROM NO : PMRK-EPC-17-CIV-DRAW-002
 - ANCHOR BOLT FOR PIG TRAP PROVIDE BY MECHANICAL REFER TO DOCUMENT NO : PMRK-GSB-EPC-07R-MEC-DRAW-001
 - SEGMENT D
 - NUMBER OF PILE CAP : 38
 - NUMBER OF PILE : 121
 - SEGMENT E
 - NUMBER OF PILE CAP : 23
 - NUMBER OF PILE : 107

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PT. PERTAMINA GAS

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Date :	Date :



SLAB SCHEDULE

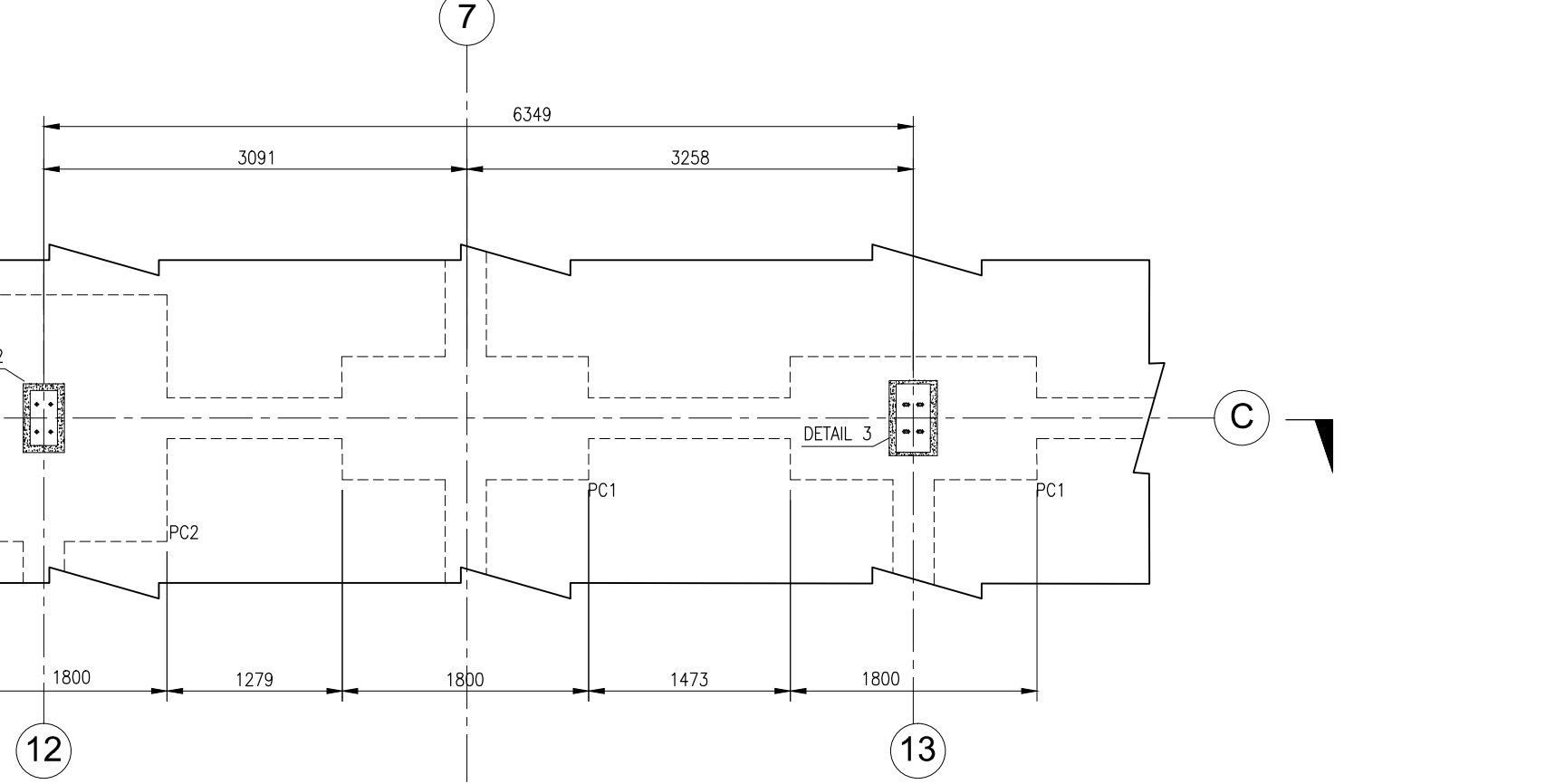
MARK	S
ELEVATION	EL. +11.000 (T.O.C)
THICKNESS	200 THK
SECTION	

DETAIL TIE BEAM

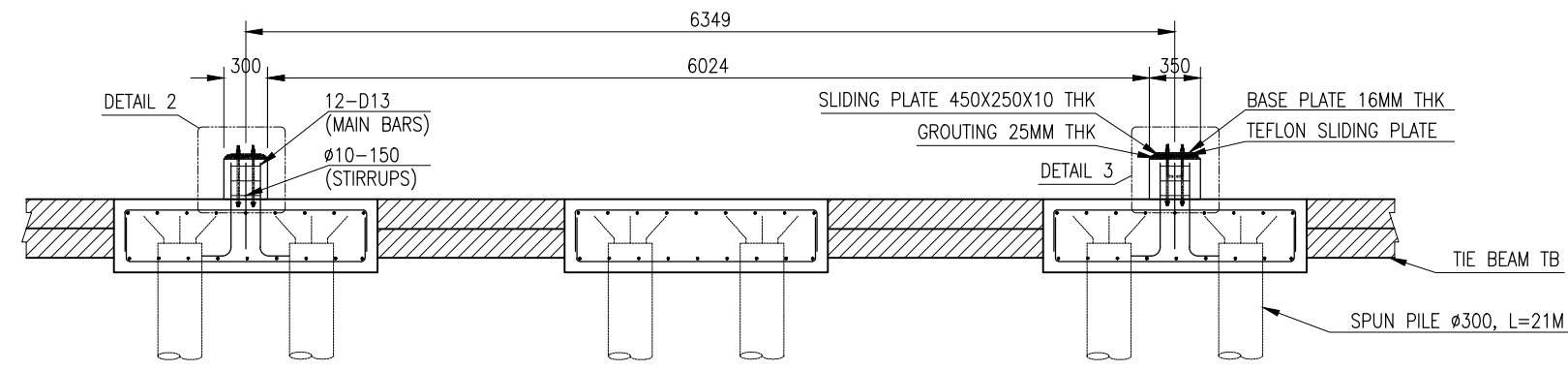
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	END	MID
BEAM SECTION		
TOP BAR	3 - D16	2 - D16
MIDDLE BAR	-	-
BOTTOM BAR	2 - D16	3 - D16
STIRRUPS	2 Ø10 -150mm	2 Ø10 -150mm

REV.	DATE	DESCRIPTION	PRP'D	CHK'D	APR'D	APR'D
△						
○	29/03/2021	APPROVED FOR CONSTRUCTION	FIR	FRN HEN	PGH ARD	
□	03/12/2020	ISSUED FOR APPROVAL	RK	FRN HEN	PGH ARD	
△	20/11/2020	RE-ISSUED FOR REVIEW	RK	FRN HEN	PGH ARD	
△	31/08/2020	ISSUED FOR REVIEW	RK	FRN HEN	PGH ARD	
PROJECT :			JASA PERANCANGAN, PENGADAAN, DAN KONSTRUKSI PENGGANTIAN PIPA MINYAK WILAYAH ROKAN			
OWNER :						
CONTRACTOR :			 KONSORSIUM PGASOL-PDC			
TITLE :			FOUNDATION DRAWING SLAB ON PILE AREA PIG RECEIVER BATANG 07-PR-002 STATION BATANG			
SCALE	DRAWING NO.	SHEET	REV.			
AS SHOWN	PMRK-EPC-52-CIV-DRW-014	1 OF 5	0			

DOCUMENT REVIEW STATUS			
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<input checked="" type="checkbox"/>	2. APPROVED WITH COMMENTS	May proceed to the next stage, resubmit corrected document for final approval	
<input type="checkbox"/>	3. REVIEWED /COMMENTED	Resubmit corrected document for approval	
<input type="checkbox"/>	4. FOR INFORMATION ONLY	Review not required for this document	
<input type="checkbox"/>	5. REJECTED	Work may not proceed on the basis of the document	
CHK'D BY	<i>RF</i>	<i>mm</i>	12-04-2021
	Initial	Sign	Date
APP'D BY	<i>HWD</i>	<i>HWD</i>	
	Initial	Sign	Date

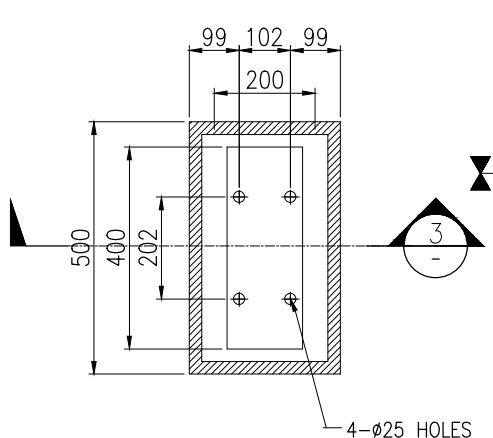


DETAIL FOUNDATION PIG RECEIVER 1
SCALE 1 : 50

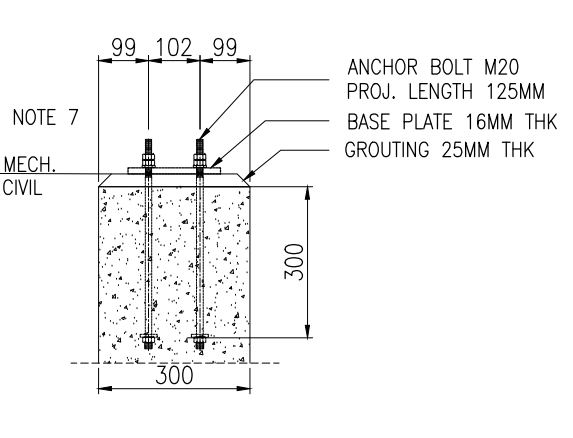


Hold for all dimension related to pedestal, base plate, anchor bolt

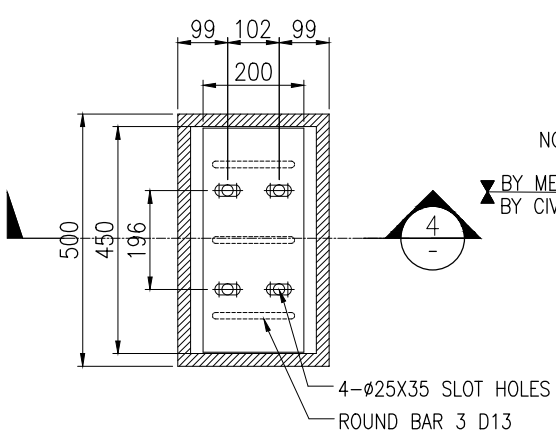
SECTION B
SCALE 1 : 50



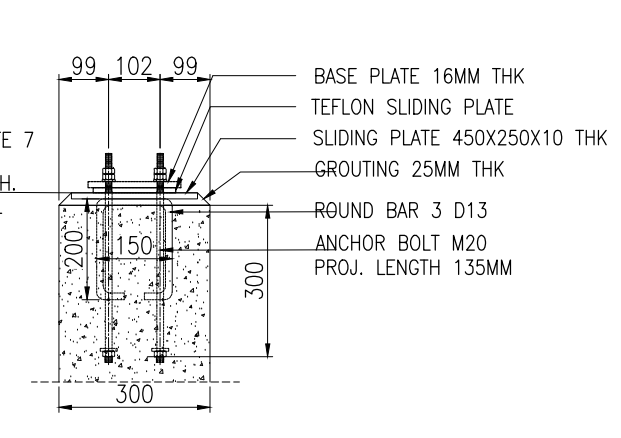
DETAIL FIXED SADDLE 2
SCALE 1 : 15



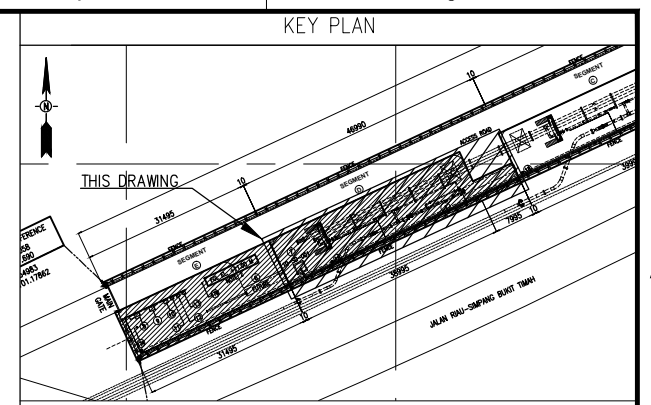
SECTION 3
SCALE 1 : 15



DETAIL SLIDING SADDLE 3
SCALE 1 : 15



SECTION 4
SCALE 1 : 15



- NOTES
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTE OTHERWISE.
 - ELEVATIONS ARE IN METERS UNLESS NOTE OTHERWISE.
 - FGL (FINISH GROUND LEVEL) EL. ±0.000 REFER TO MSL = EL. +11.000
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 - FOR SPECIFICATION SEE DOC. NO. :
 - PMRK-00-CIV-SPC-002 "SPECIFICATION FOR CONCRETE WORKS."
 - PMRK-00-CIV-SPC-007 "SPECIFICATION FOR BUILDING."
 - NUMBER DOCUMENT WAS CHANGED FROM NO : PMRK-EPC-17-CIV-DRAW-002
 - ANCHOR BOLT FOR PIG TRAP PROVIDE BY MECHANICAL REFER TO DOCUMENT NO : PMRK-GSB-EPC-07R-MEC-DRAW-001
 - SEGMENT D
 - NUMBER OF PILE CAP : 38
 - NUMBER OF PILE : 121
 - SEGMENT E
 - NUMBER OF PILE CAP : 23
 - NUMBER OF PILE : 107

APPROVED FOR CONSTRUCTION	
PT. PERTAMINA GAS	
CHECKED BY	APPROVED BY
Initial :	Initial :
Date :	Date :

REV.	DATE	DESCRIPTION	PRP'D	CHK'D	APR'D	APR'D
△						
○	29/03/2021	APPROVED FOR CONSTRUCTION	FIR	FRN HEN	PGH ARD	
□	03/12/2020	ISSUED FOR APPROVAL	RK	FRN HEN	PGH ARD	
△	20/11/2020	RE-ISSUED FOR REVIEW	RK	FRN HEN	PGH ARD	
△	31/08/2020	ISSUED FOR REVIEW	RK	FRN HEN	PGH ARD	

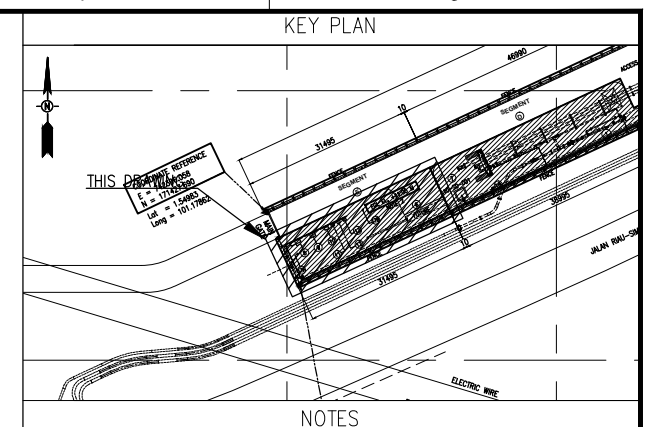
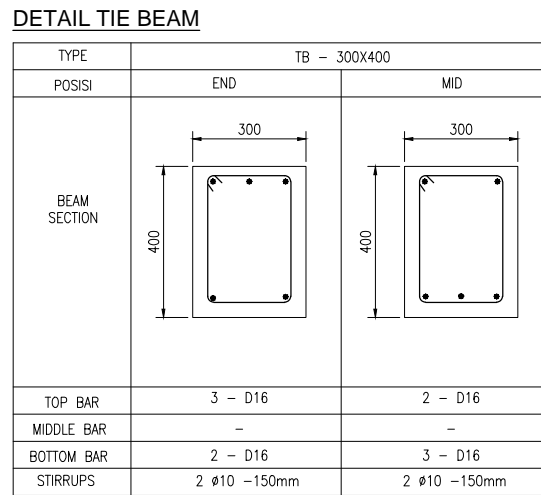
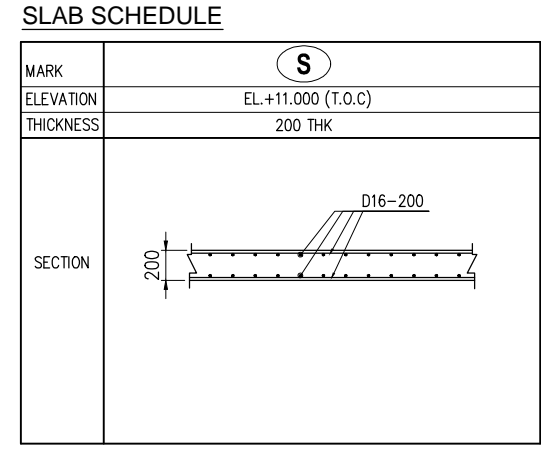
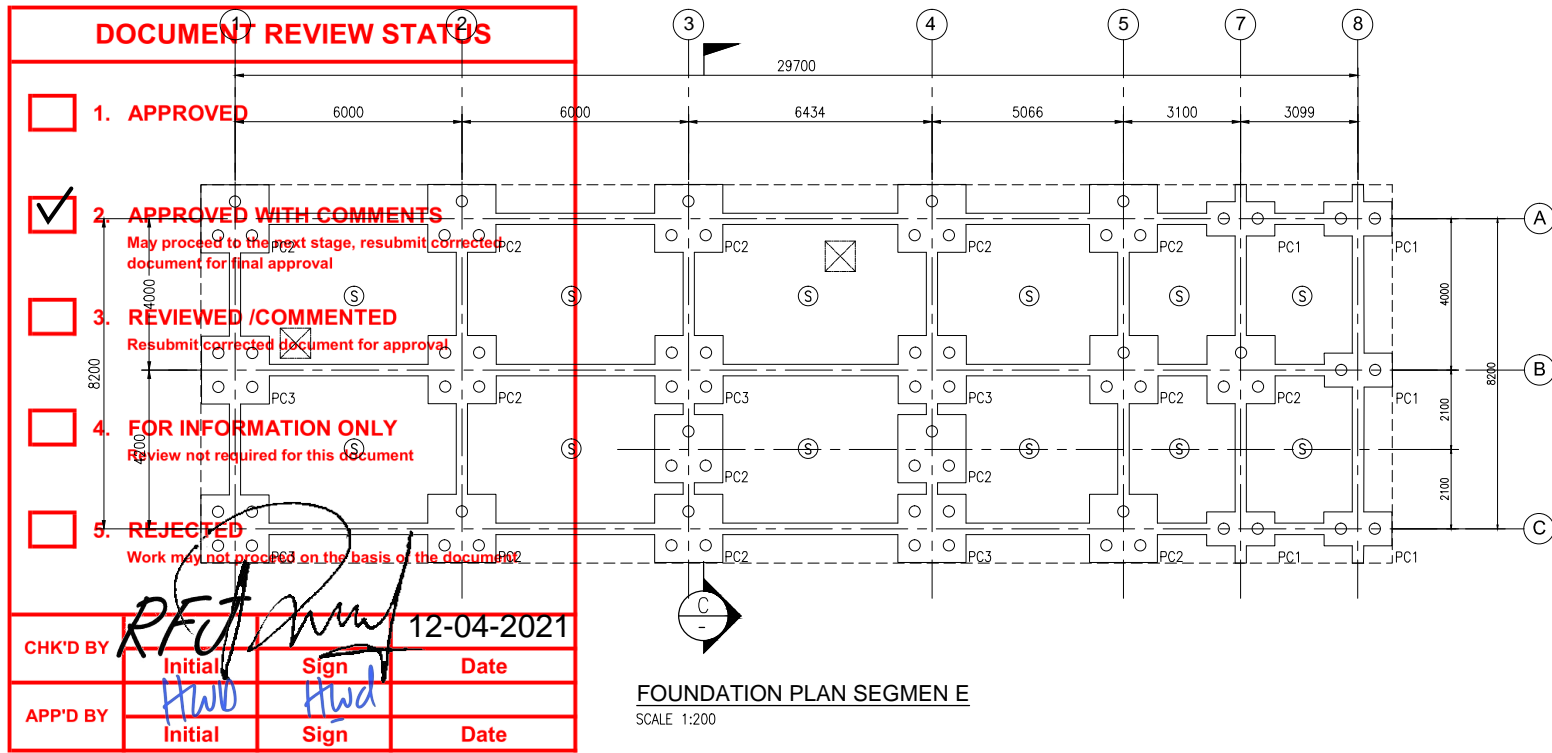
PROJECT :
JASA PERANCANGAN, PENGADAAN, DAN KONSTRUKSI PENGGANTIAN PIPA MINYAK WILAYAH ROKAN



CONTRACTOR :
pgn SOLUTION action for excellence
PERTAMINA PDC
KONSORSIUM PGASOL-PDC

TITLE :
FOUNDATION DRAWING SLAB ON PILE AREA PIG RECEIVER BATANG 07-PR-002 STATION BATANG

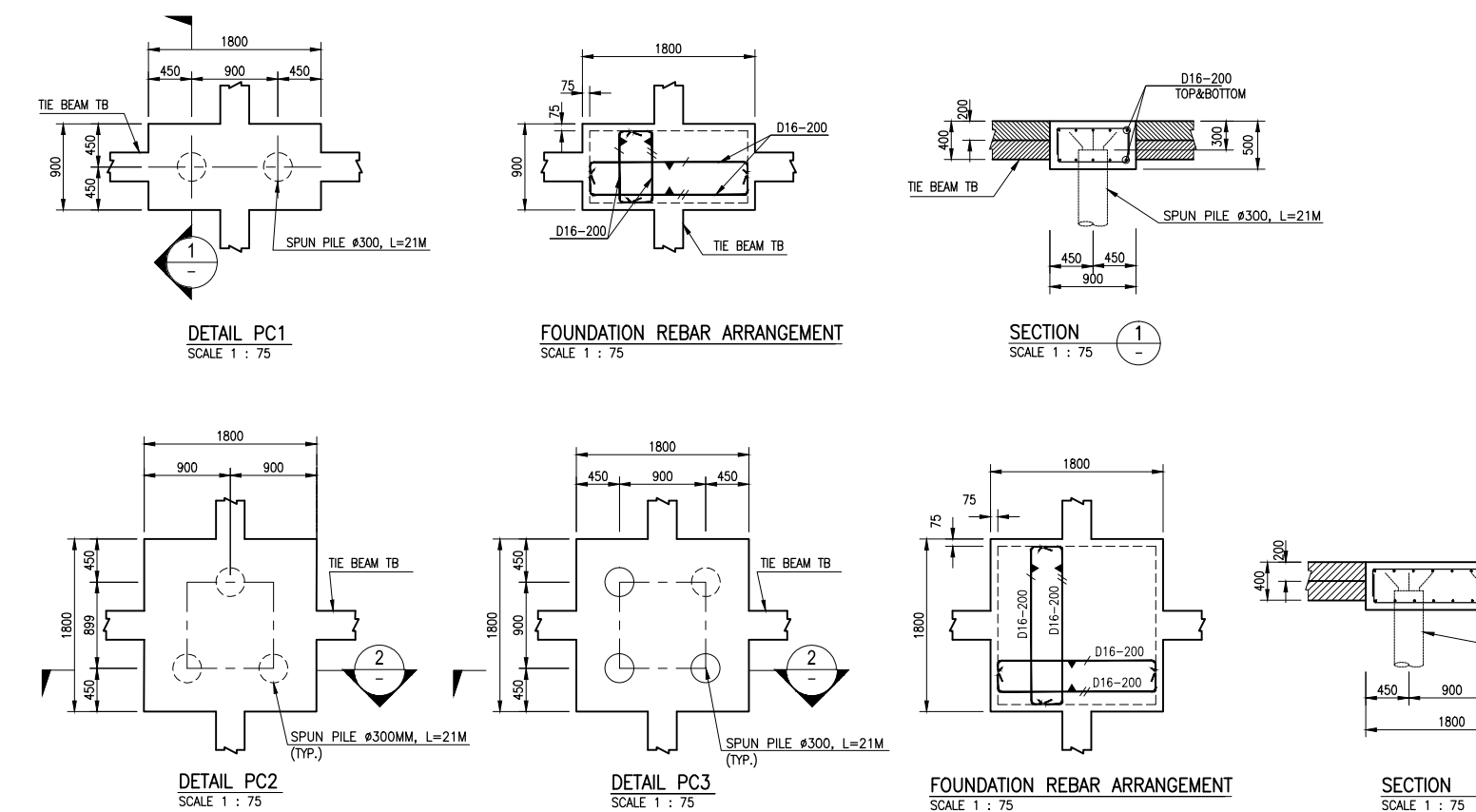
SCALE	DRAWING NO.	SHEET	REV.
AS SHOWN	PMRK-EPC-52-CIV-DRW-014	2 OF 5	0



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 - LEAN CONCRETE: K-125 (105.85 kg/cm²)
 - REBAR - DEFORMED BAR: fy = 400 MPa ASTM A615 Gr 60, BJTS 40 OR EQUAL
 - GROUTING: NON SHRINK GROUT
 - FOR SPECIFICATION SEE DOC. NO.:
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 - NUMBER OF PILE CAP: 23
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APPROVED FOR CONSTRUCTION
PT. PERTAMINA GAS

CHECKED BY: *[Signature]* APPROVED BY: *[Signature]*
 Initial: *[Initials]* Initial: *[Initials]*
 Date: *[Date]* Date: *[Date]*



REV.	DATE	DESCRIPTION	PRP'D	CHK'D	APR'D	APR'D
△						
0	29/03/2021	APPROVED FOR CONSTRUCTION	FIR	FRN HEN	PGH ARD	
C	03/12/2020	ISSUED FOR APPROVAL	RK	FRN HEN	PGH ARD	
B	20/11/2020	RE-ISSUED FOR REVIEW	RK	FRN HEN	PGH ARD	
A	31/08/2020	ISSUED FOR REVIEW	RK	FRN HEN	PGH ARD	

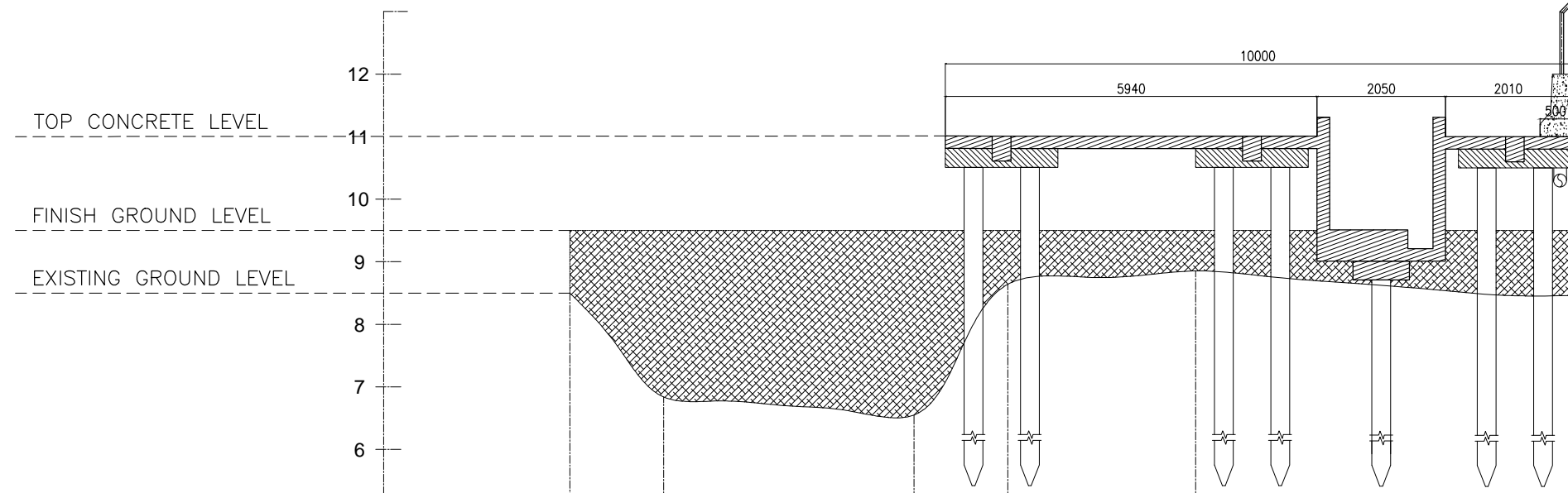
PROJECT : **JASA PERANCANGAN, PENGADAAN, DAN KONSTRUKSI PENGGANTIAN PIPA MINYAK WILAYAH ROKAN**

OWNER : **PERTAMINA GAS**

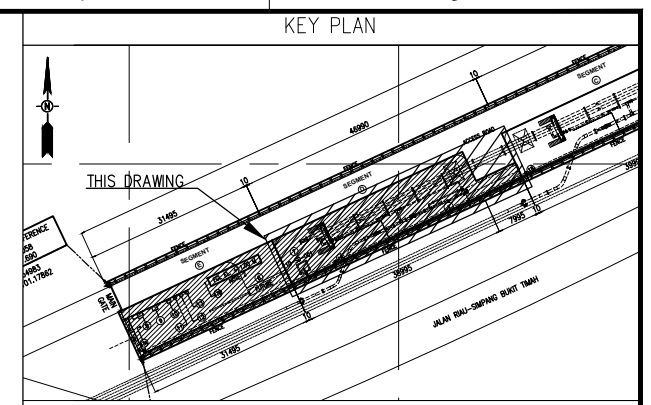
CONTRACTOR : **pgn SOLUTION** **Pertamina PDC**
KONSORSIUM PGASOL-PDC

TITLE : **FOUNDATION DRAWING SLAB ON PILE AREA PIG RECEIVER BATANG 07-PR-002 STATION BATANG**

SCALE	DRAWING NO.	SHEET	REV.
AS SHOWN	PMRK-EPC-52-CIV-DRW-014	3 OF 5	0



EXISTING GROUND LEVEL (m)		8.545	6.884	6.596	8.685	8.898	8.505
DISTANCE (m)		0.000	1.500	5.500	7.000	10.000	16.000
FINISH GROUND LEVEL		11.000	11.000	11.000	11.000	11.000	11.000
SOIL THICKNESS FROM ORIGINAL GROUND LEVEL TO FINISH GROUND LEVEL		2.455	4.116	4.404	2.315	2.102	2.495
DEPTH OF STRIPPING LEVEL (DEPTH OF STRIPPING : 50cm)		8.045	6.384	6.096	8.185	8.398	8.005



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DOCUMENT REVIEW STATUS

1. APPROVED

2. APPROVED WITH COMMENTS
May proceed to the next stage, resubmit corrected document for final approval

3. REVIEWED /COMMENTED
Resubmit corrected document for approval

4. FOR INFORMATION ONLY
Review not required for this document

5. REJECTED
Work may not proceed on the basis of the document

CHK'D BY	<i>[Signature]</i>	12-04-2021
	Initial Sign	Date
APP'D BY	<i>[Signature]</i>	
	Initial Sign	Date

ELEVATION SECTION A

SCALE 1:100

APPROVED FOR CONSTRUCTION
PT. PERTAMINA GAS

CHECKED BY	APPROVED BY
Initial :	Initial :
Date :	Date :

REV.	DATE	DESCRIPTION	PRP'D	CHK'D	APR'D	APR'D
0	29/03/2021	APPROVED FOR CONSTRUCTION	FIR	FRN	HEN	PCH
C	03/12/2020	ISSUED FOR APPROVAL	RK	FRN	HEN	PCH
B	20/11/2020	RE-ISSUED FOR REVIEW	RK	FRN	HEN	PCH
A	31/08/2020	ISSUED FOR REVIEW	RK	FRN	HEN	PCH

PROJECT : **JASA PERANCANGAN, PENGADAAN, DAN KONSTRUKSI PENGGANTIAN PIPA MINYAK WILAYAH ROKAN**

OWNER : **PERTAMINA GAS**

CONTRACTOR : **pgn SOLUTION action for excellence** **PERTAMINA PDC**
KONSORSIUM PGASOL-PDC

TITLE : **FOUNDATION DRAWING SLAB ON PILE AREA PIG RECEIVER BATANG 07-PR-002 STATION BATANG**

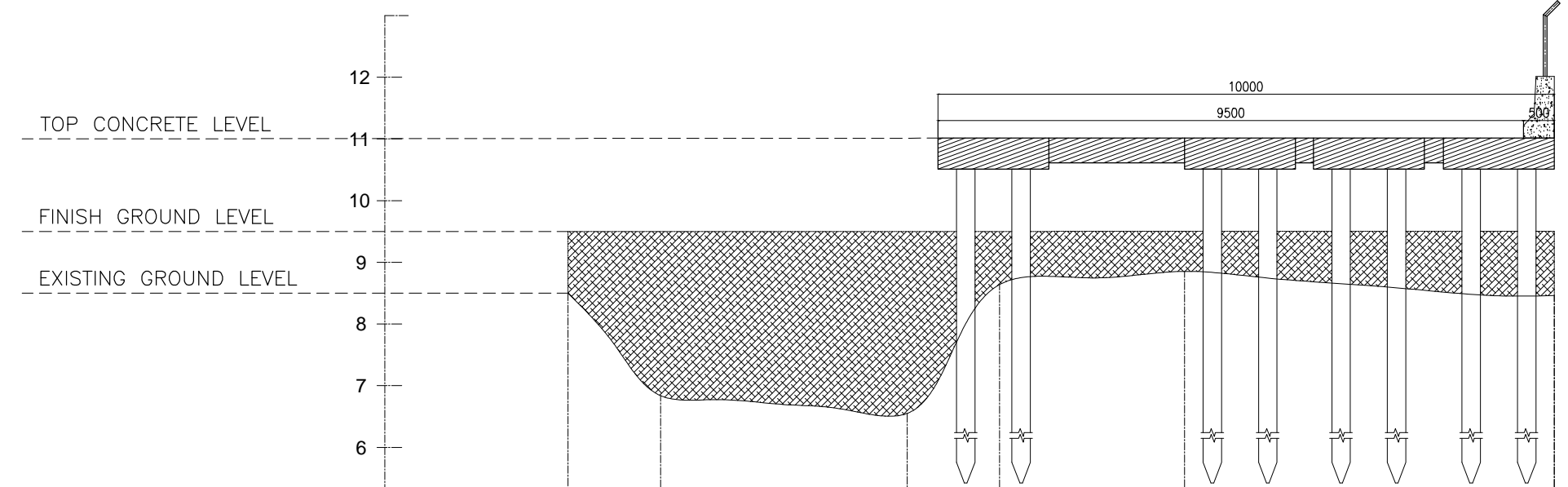
SCALE	DRAWING NO.	SHEET	REV.
AS SHOWN	PMRK-EPC-52-CIV-DRW-014	4 OF 5	0

A

B

C

D



EXISTING GROUND LEVEL (m)	8.545	6.884	6.596	8.685	8.898	8.505
DISTANCE (m)	0.000	1.500	5.500	7.000	10.000	16.000
FINISH GROUND LEVEL	11.000	11.000	11.000	11.000	11.000	11.000
SOIL THICKNESS FROM ORIGINAL GROUND LEVEL TO FINISH GROUND LEVEL	2.455	4.116	4.404	2.315	2.102	2.495
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CHK'D BY	<i>RF</i>	<i>[Signature]</i>	12-04-2021
	<small>Initial</small>	<small>Sign</small>	<small>Date</small>
APP'D BY	<i>HWD</i>	<i>HWD</i>	
	<small>Initial</small>	<small>Sign</small>	<small>Date</small>

ELEVATION SECTION C

SCALE 1:100

APPROVED FOR CONSTRUCTION

PT. PERTAMINA GAS

CHECKED BY	APPROVED BY
Initial :	Initial :
Date :	Date :

KEY PLAN

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTE OTHERWISE.
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8. SEGMENT D
 - NUMBER OF PILE CAP : 38
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 - NUMBER OF PILE CAP : 23
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REV.	DATE	DESCRIPTION	PRP'D	CHK'D	APR'D	APR'D
△						
○	29/03/2021	APPROVED FOR CONSTRUCTION	FIR	FRN HEN	PCH ARD	
□	03/12/2020	ISSUED FOR APPROVAL	RK	FRN HEN	PCH ARD	
△	20/11/2020	RE-ISSUED FOR REVIEW	RK	FRN HEN	PCH ARD	
△	31/08/2020	ISSUED FOR REVIEW	RK	FRN HEN	PCH ARD	

PROJECT : **JASA PERANCANGAN, PENGADAAN, DAN KONSTRUKSI PENGGANTIAN PIPA MINYAK WILAYAH ROKAN**

OWNER :

CONTRACTOR :
KONSORSIUM PGASOL-PDC

TITLE : **FOUNDATION DRAWING SLAB ON PILE AREA PIG RECEIVER BATANG 07-PR-002 STATION BATANG**

SCALE	DRAWING NO.	SHEET	REV.
AS SHOWN	PMRK-EPC-52-CIV-DRW-014	5 OF 5	0

CLIENT : PT. PERTAMINA GAS
PROJECT : JASA PERANCANGAN, PENGADAAN DAN KONSTRUKSI
 PENGGANTIAN PIPA MINYAK WILAYAH ROKAN

FOUNDATION DRAWING SLAB ON PILE AREA PIG RECEIVER 11-PR-002 BATANG STATION

PMRK-EPC-52-CIV-DRW-015

DOCUMENT REVIEW STATUS

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CHK'D BY	Initial	Sign	Date
APP'D BY	Initial	Sign	Date

APPROVED FOR CONSTRUCTION	
PT. PERTAMINA GAS	
CHECKED BY	APPROVED BY
Initial :	Initial :
Date :	Date :



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5. FOR SPECIFICATION SEE DOC. NO. :
 - PMRK-00-CIV-SPC-002 "SPECIFICATION FOR CONCRETE WORKS."
6. NUMBER DOCUMENT WAS CHANGED FROM NO : PMRK-EPC-21-CIV-DRW-002
7. ANCHOR BOLT FOR PIG TRAP PROVIDE BY MECHANICAL REFER TO DOCUMENT NO. :
 - PMRK-EPC-21-MEC-DRW-002 "GA DRAWING PIG RECEIVER BATANG (11-PR-002)"
 - PMRK-EPC-21-MEC-DTS-002 "DATA SHEET FOR PIG RECEIVER BATANG (11-PR-002)"
8. SEGMENT C
 - NUMBER OF PILE CAP : 36 EA
 - NUMBER OF PILE : 118 EA

APPROVED FOR CONSTRUCTION
PT. PERTAMINA GAS

CHECKED BY		APPROVED BY	
Initial :		Initial :	
Date :		Date :	

REV.	DATE	DESCRIPTION	PRP'D	CHK'D	APR'D	APR'D

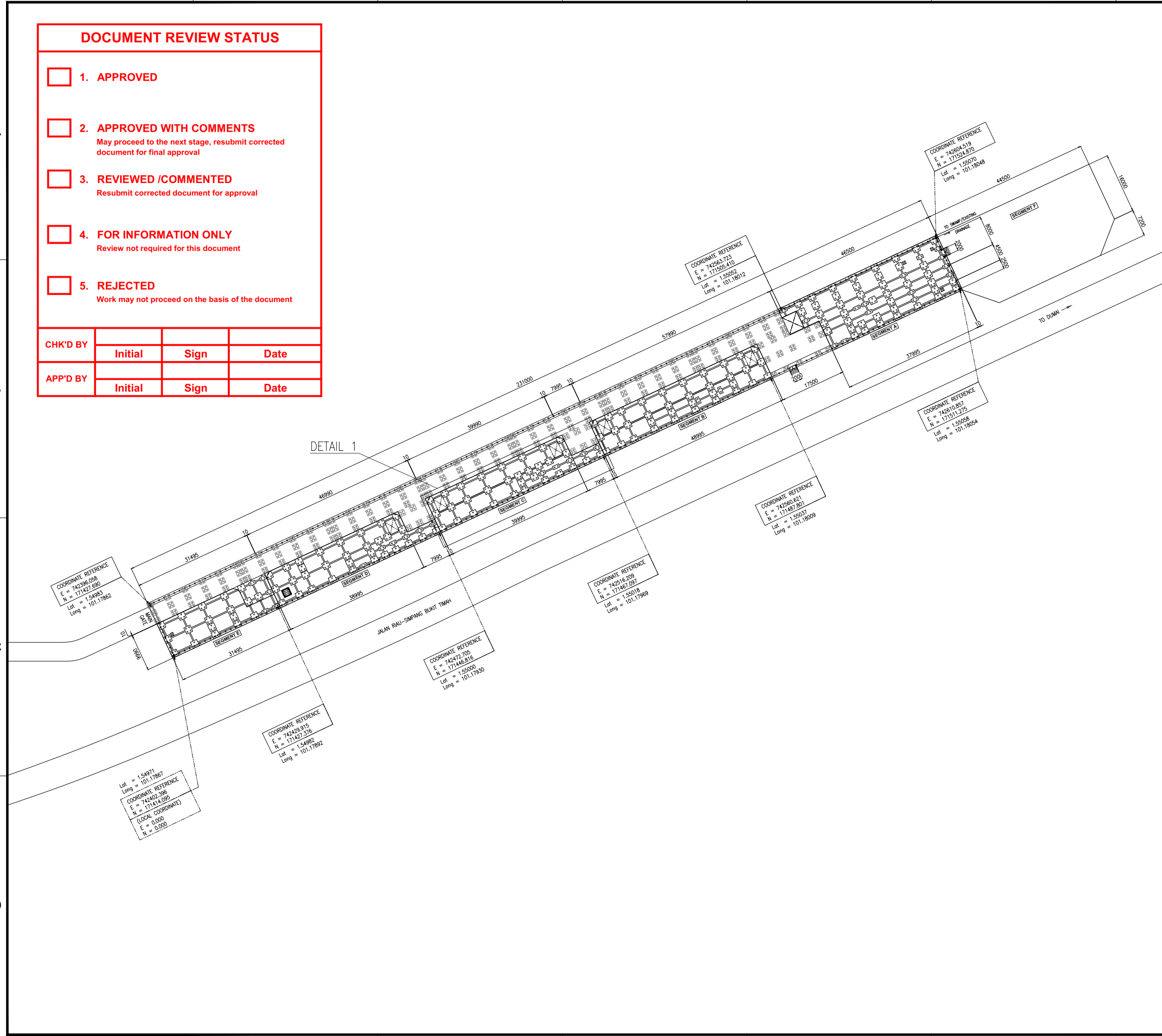
PROJECT : **JASA PERANCANGAN, PENGADAAN, DAN KONSTRUKSI PENGGANTIAN PIPA MINYAK WILAYAH ROKAN**

OWNER :

CONTRACTOR :
KONSORSIUM PGASOL-PDC

TITLE : **FOUNDATION DRAWING SLAB ON PILE AREA PIG RECEIVER 11-PR-002 BATANG STATION**

SCALE	DRAWING NO.	SHEET	REV.
AS SHOWN	PMRK-EPC-52-CIV-DRW-015	1 OF 4	0

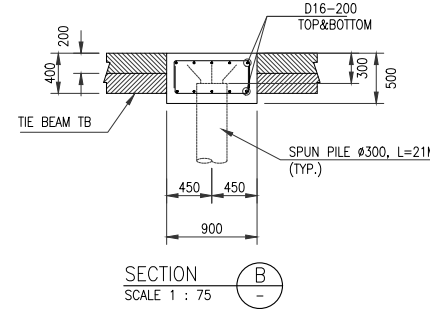
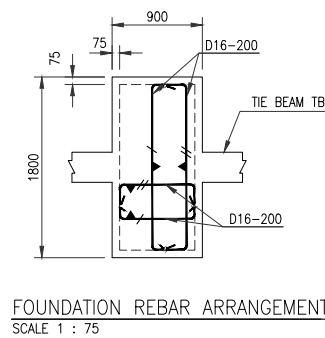
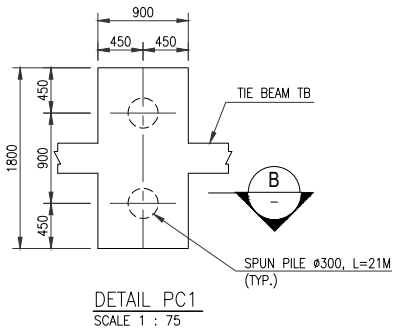


DOCUMENT REVIEW STATUS

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CHK'D BY	Initial	Sign	Date
APP'D BY	Initial	Sign	Date

FOUNDATION PLAN SEGMENT C
SCALE 1:200

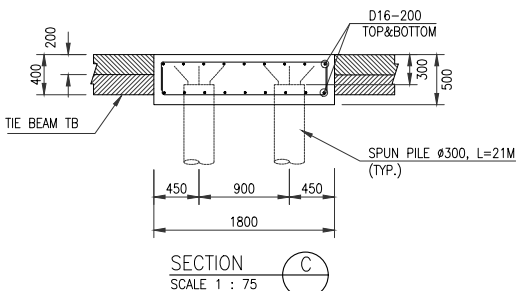
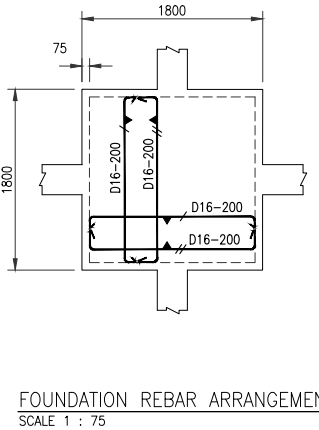
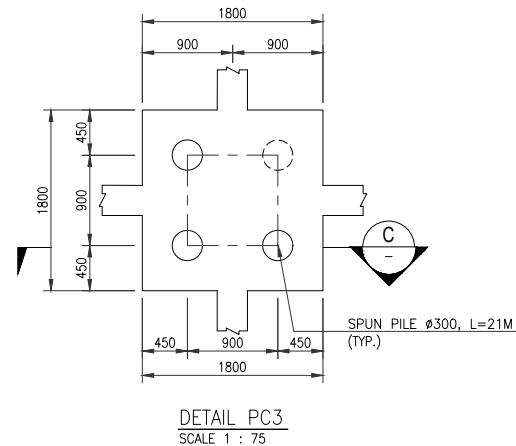
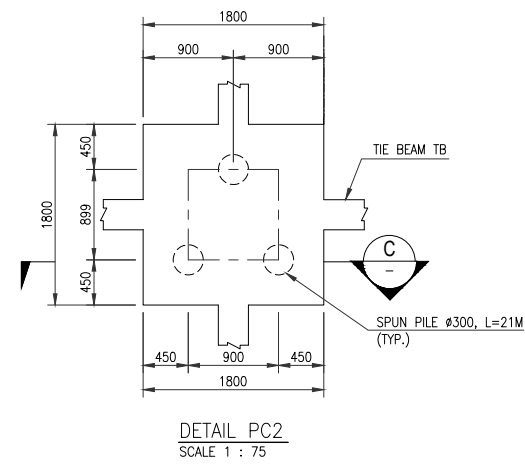


DETAIL TIE BEAM

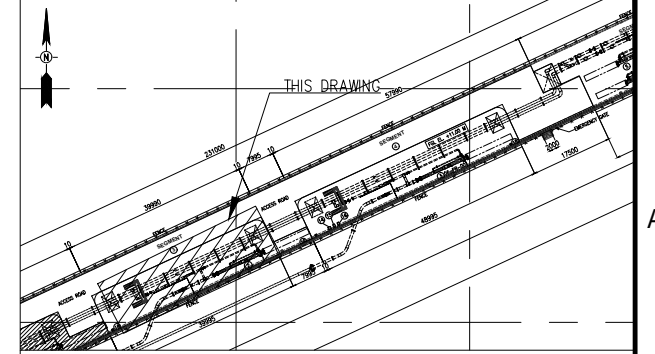
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	END	MID
BEAM SECTION		
TOP BAR	3 - D16	2 - D16
MIDDLE BAR	-	-
BOTTOM BAR	2 - D16	3 - D16
STIRRUPS	2 #10 - 150mm	2 #10 - 150mm

SLAB SCHEDULE

MARK	S
ELEVATION	EL. +11.000 (T.O.C)
THICKNESS	200 THK
SECTION	



KEY PLAN



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- SEGMENT C
 - NUMBER OF PILE CAP : 36 EA
 - NUMBER OF PILE : 118 EA

APPROVED FOR CONSTRUCTION
PT. PERTAMINA GAS

CHECKED BY	APPROVED BY
Initial :	Initial :
Date :	Date :

REV.	DATE	DESCRIPTION	PRP'D	CHK'D	APR'D	APR'D
0	26-MAR-2021	APPROVED FOR CONSTRUCTION	RIK	FRN HEN	PCH ARD	
1	04-DES-2020	ISSUED FOR APPROVAL	RK	FRN HEN	PCH ARD	
2	06-NOV-2020	RE-ISSUED FOR REVIEW	RK	FRN HEN	PCH ARD	
3	25-AUG-2020	ISSUED FOR REVIEW	RK	FRN HEN	PCH ARD	

PROJECT : **JASA PERANCANGAN, PENGADAAN, DAN KONSTRUKSI PENGGANTIAN PIPA MINYAK WILAYAH ROKAN**

OWNER : **PERTAMINA GAS**

CONTRACTOR : **pgn SOLUTION action for excellence** **PERTAMINA PDC**
KONSORSIUM PGASOL-PDC

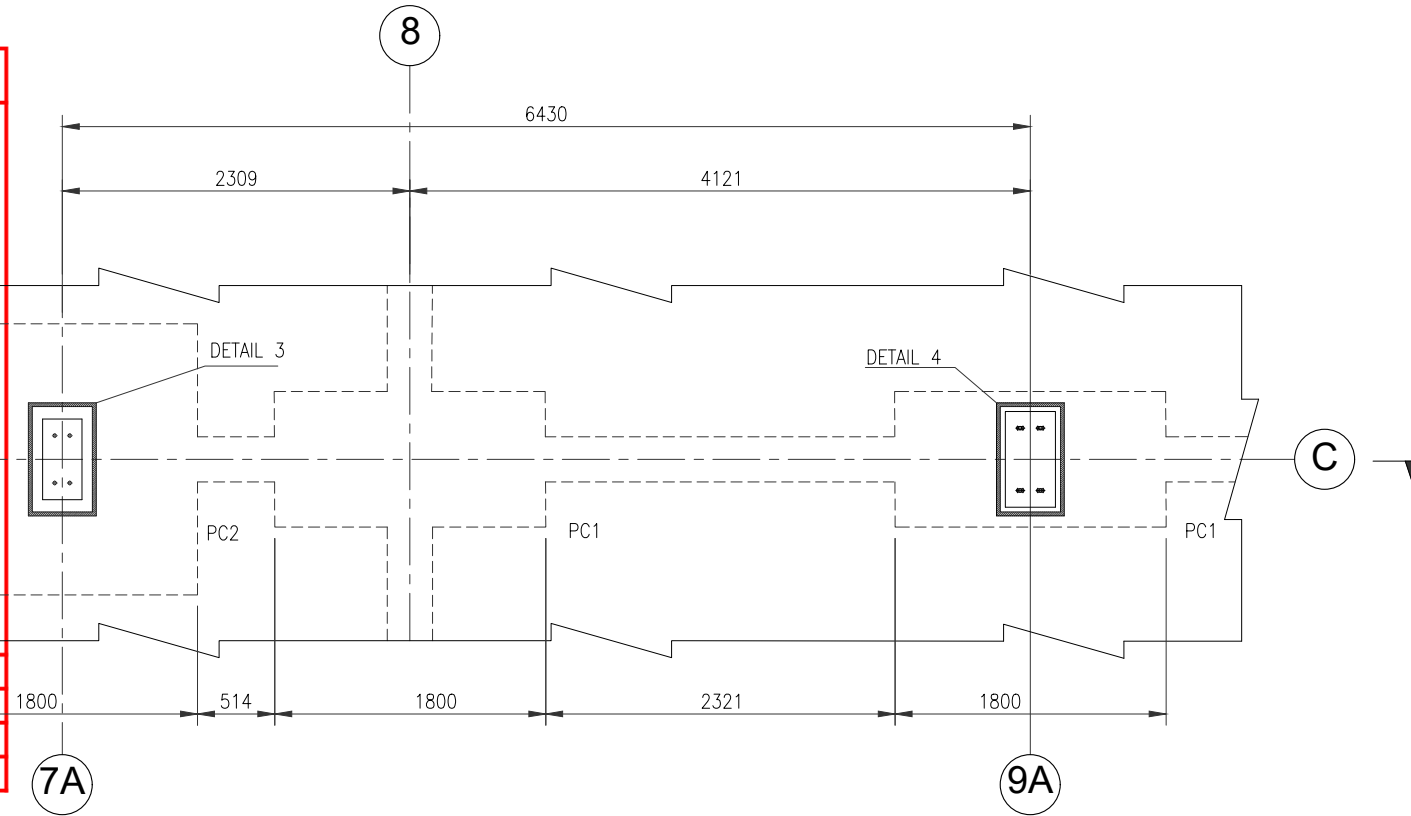
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SCALE	DRAWING NO.	SHEET	REV.
AS SHOWN	PMRK-EPC-52-CIV-DRW-015	2 OF 4	0

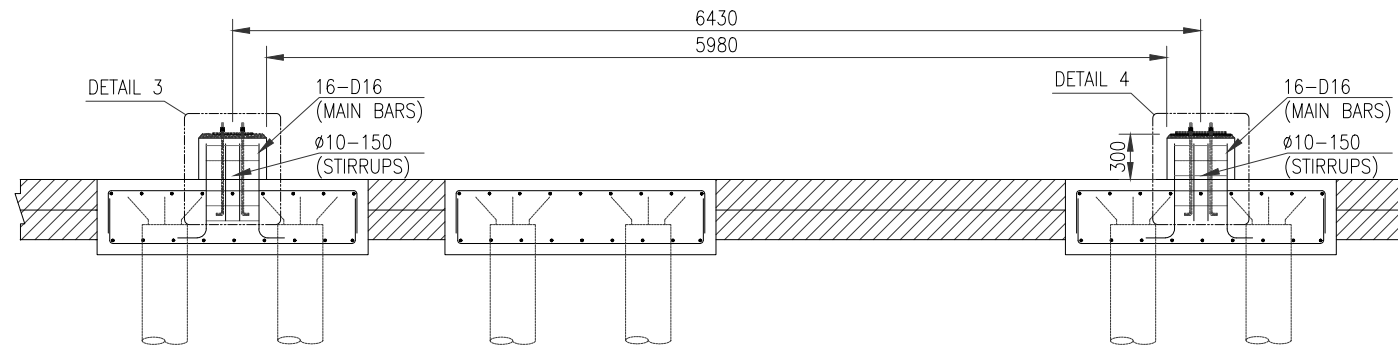
DOCUMENT REVIEW STATUS

- 1. **APPROVED**
- 2. **APPROVED WITH COMMENTS**
May proceed to the next stage, resubmit corrected document for final approval
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- 5. **REJECTED**
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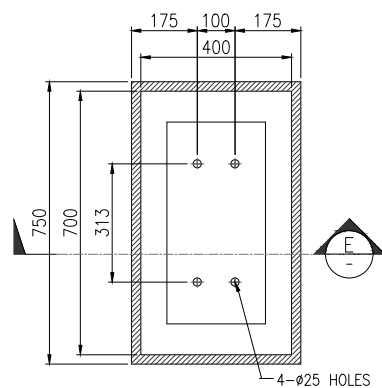
CHK'D BY	Initial	Sign	Date
APP'D BY	Initial	Sign	Date



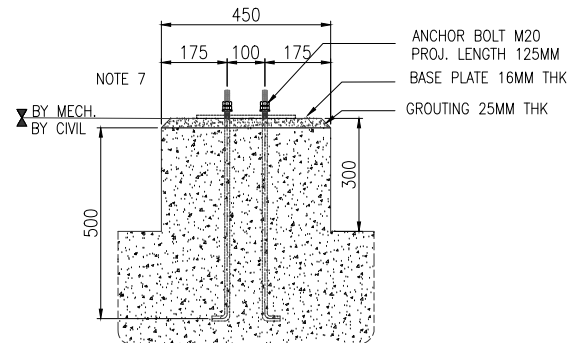
DETAIL FOUNDATION PIG RECEIVER 1
SCALE 1 : 50



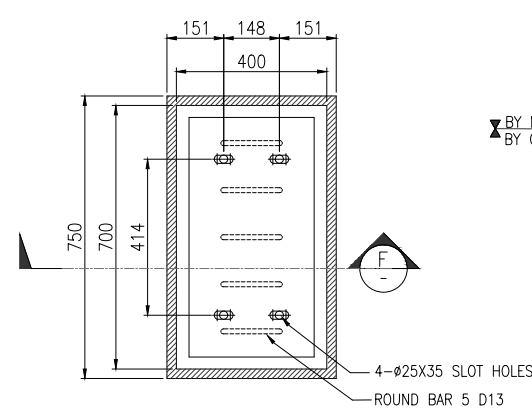
SECTION D
SCALE 1 : 50



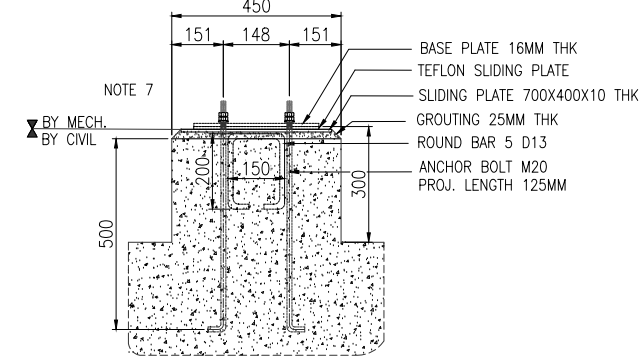
DETAIL FIXED SADDLE 3
SCALE 1 : 20



SECTION E
SCALE 1 : 20

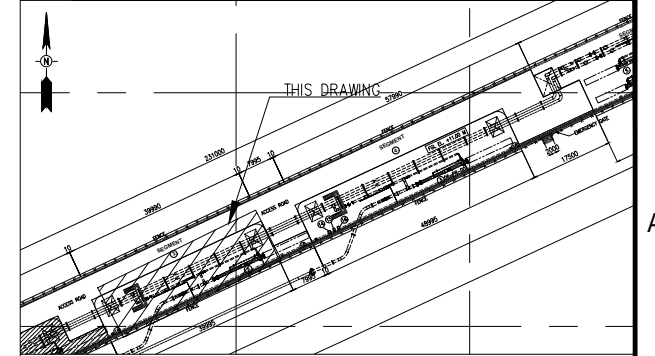


DETAIL SLIDING SADDLE 4
SCALE 1 : 20



SECTION F
SCALE 1 : 20

KEY PLAN



NOTES

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 - CONCRETE K-300 (253.9 kg/cm²)
 - CONCRETE SPUN PILE K-500 (423.2 kg/cm²)
 - LEAN CONCRETE K-125 (105.85 kg/cm²)
 - REBAR -DEFORMED BAR fy = 400 MPa ASTM A615 Gr 60, BJTS 40 OR EQUAL
 - GROUTING NON SHRINK GROUT
5. FOR SPECIFICATION SEE DOC. NO. :
 - PMRK-00-CIV-SPC-002 "SPECIFICATION FOR CONCRETE WORKS."
6. NUMBER DOCUMENT WAS CHANGED FROM NO : PMRK-EPC-21-CIV-DRW-002
7. ANCHOR BOLT FOR PIG TRAP PROVIDE BY MECHANICAL REFER TO DOCUMENT NO. :
 - PMRK-EPC-21-MEC-DRW-002 "GA DRAWING PIG RECEIVER BATANG (11-PR-002)"
 - PMRK-EPC-21-MEC-DTS-002 "DATA SHEET FOR PIG RECEIVER BATANG (11-PR-002)"
8. SEGMENT C
 - NUMBER OF PILE CAP : 36 EA
 - NUMBER OF PILE : 118 EA

APPROVED FOR CONSTRUCTION
PT. PERTAMINA GAS

CHECKED BY	APPROVED BY
Initial :	Initial :
Date :	Date :

REV.	DATE	DESCRIPTION	PRP'D	CHK'D	APP'D	APP'D

PROJECT : **JASA PERANCANGAN, PENGADAAN, DAN KONSTRUKSI PENGGANTIAN PIPA MINYAK WILAYAH ROKAN**

OWNER :

CONTRACTOR :
KONSORSIUM PGASOL-PDC

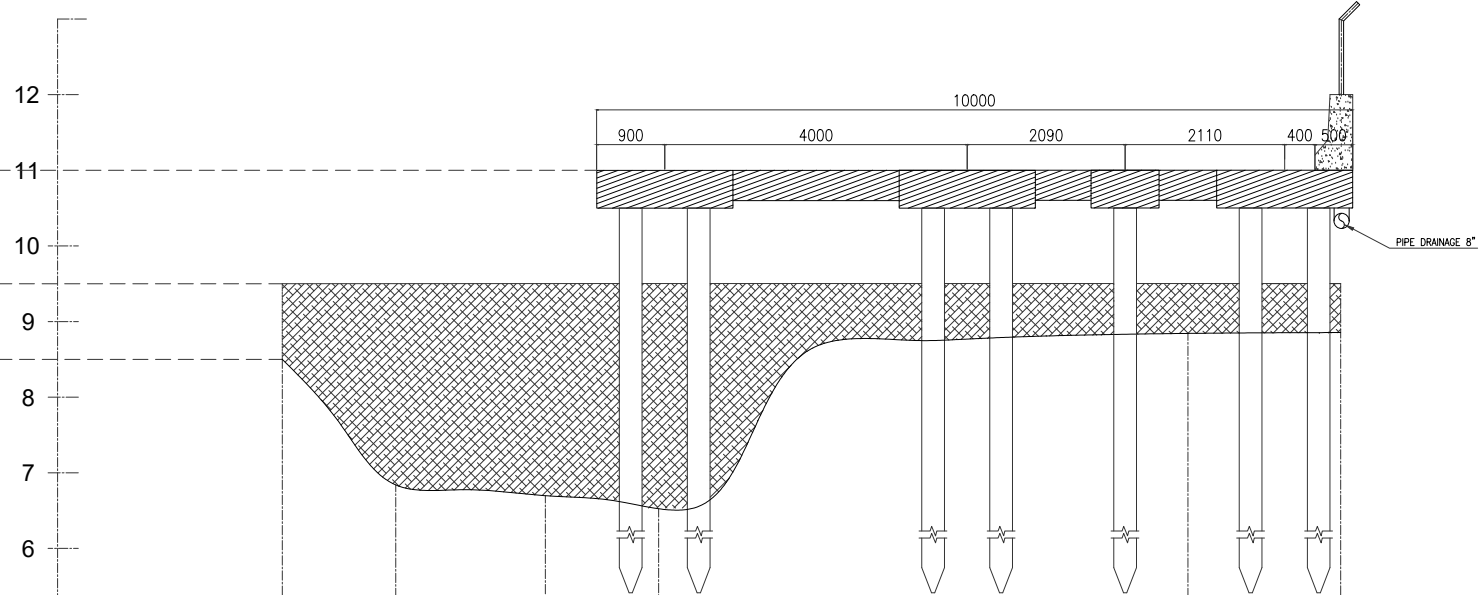
TITLE : **FOUNDATION DRAWING SLAB ON PILE AREA PIG RECEIVER 11-PR-002 BATANG STATION**

SCALE	DRAWING NO.	SHEET	REV.
AS SHOWN	PMRK-EPC-52-CIV-DRW-015	3 OF 4	0

DOCUMENT REVIEW STATUS

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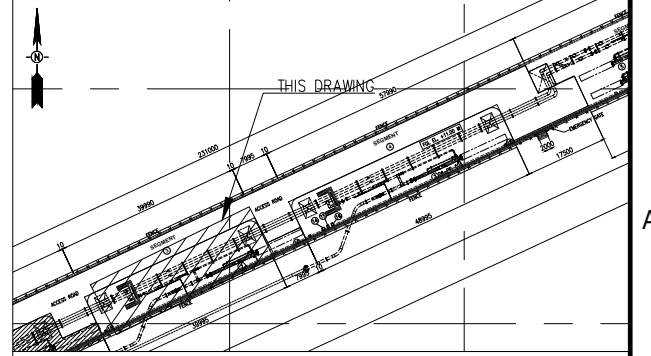
CHK'D BY	Initial	Sign	Date
APP'D BY	Initial	Sign	Date



EXISTING GROUND LEVEL (m)	8.545	6.884	6.596	8.685	8.898	8.505
DISTANCE (m)	0.000	1.500	5.500	7.000	10.000	16.000
FINISH GROUND LEVEL	11.000	11.000	11.000	11.000	11.000	11.000
SOIL THICKNESS FROM ORIGINAL GROUND LEVEL TO FINISH GROUND LEVEL	2.455	4.116	4.404	2.315	2.102	2.495
DEPTH OF STRIPPING LEVEL (DEPTH OF STRIPPING : 50cm)	8.045	6.384	6.096	8.185	8.398	8.005

ELEVATION SECTION A
SCALE 1:100

KEY PLAN



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APPROVED FOR CONSTRUCTION

PT. PERTAMINA GAS

CHECKED BY	APPROVED BY
Initial :	Initial :
Date :	Date :

△						
△	26-MAR-2021	APPROVED FOR CONSTRUCTION	RIK	FRN	HEN	PGH
△	04-DES-2020	ISSUED FOR APPROVAL	RK	FRN	HEN	PGH
△	06-NOV-2020	RE-ISSUED FOR REVIEW	RK	FRN	HEN	PGH
△	25-AUG-2020	ISSUED FOR REVIEW	RK	FRN	HEN	PGH
REV.	DATE	DESCRIPTION	PRP'D	CHK'D	APR'D	APR'D
			Konsorsium PT. PGAS Solution- PT. Patra Drilling Contractor		PT. Pertamina Gas	

PROJECT :
JASA PERANCANGAN, PENGADAAN, DAN KONSTRUKSI PENGANTIAN PIPA MINYAK WILAYAH ROKAN

OWNER :

CONTRACTOR :

KONSORSIUM PGASOL-PDC

TITLE :
FOUNDATION DRAWING SLAB ON PILE AREA PIG RECEIVER 11-PR-002 BATANG STATION

SCALE	DRAWING NO.	SHEET	REV.
1:100	PMRK-EPC-52-CIV-DRW-015	4 OF 4	0

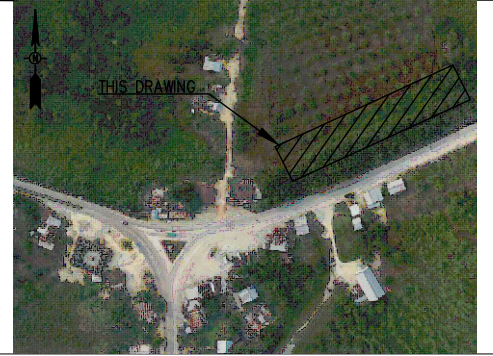
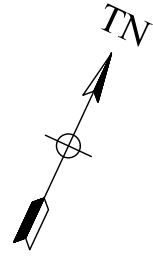
CLIENT : PT. PERTAMINA GAS
PROJECT : JASA PERANCANGAN, PENGADAAN DAN KONSTRUKSI
 PENGGANTIAN PIPA MINYAK WILAYAH ROKAN

GENERAL LAYOUT & FOUNDATION - BATANG STATION

PMRK-EPC-52-CIV-DRW-017

DOCUMENT REVIEW STATUS			
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<input type="checkbox"/>	2. APPROVED WITH COMMENTS	May proceed to the next stage, resubmit corrected document for final approval	
<input type="checkbox"/>	3. REVIEWED /COMMENTED	Resubmit corrected document for approval	
<input type="checkbox"/>	4. FOR INFORMATION ONLY	Review not required for this document	
<input type="checkbox"/>	5. REJECTED	Work may not proceed on the basis of the document	
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NOTES

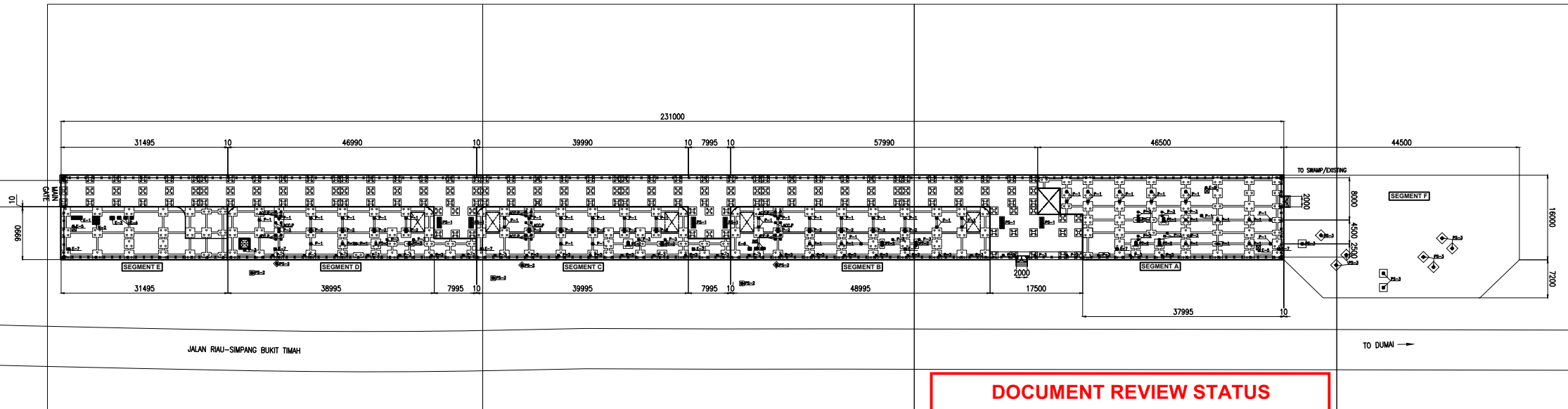
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 - PMRK-EPC-16-MEC-DTS-002 "DATA SHEET FOR PIG RECEIVER BATANG (06-PR-001)"

SEE SHEET 2 OF 6

SEE SHEET 3 OF 6

SEE SHEET 4 OF 6

SEE SHEET 5 OF 6



FOUNDATION LAYOUT
SCALE 1 : 1000

DOCUMENT REVIEW STATUS

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May proceed to the next stage, resubmit corrected document for final approval
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CHK'D BY	Initial	Sign	Date
APP'D BY	Initial	Sign	Date

REV.	DATE	DESCRIPTION	PRP'D	CHK'D	APP'D	APR'D
G	05-MAY-2021	RE-ISSUED FOR APPROVAL	FIR	FRN	HEN	PCH
F	16-APR-2021	RE-ISSUED FOR APPROVAL	FIR	FRN	HEN	PCH
E	05-NOV-2020	RE-ISSUED FOR APPROVAL	RIK	FRN	HEN	PCH
D	09-OCT-2020	RE-ISSUED FOR APPROVAL	RIK	FRN	HEN	PCH
C	14-SEP-2020	ISSUED FOR APPROVAL	RIK	FRN	HEN	PCH
B	04-SEP-2020	RE-ISSUED FOR REVIEW	RIK	FRN	HEN	PCH
A	24-JUL-2020	ISSUED FOR REVIEW	RIK	FRN	HEN	PCH

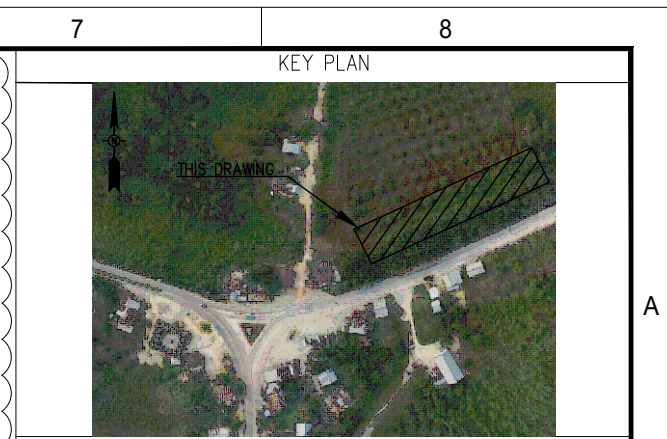
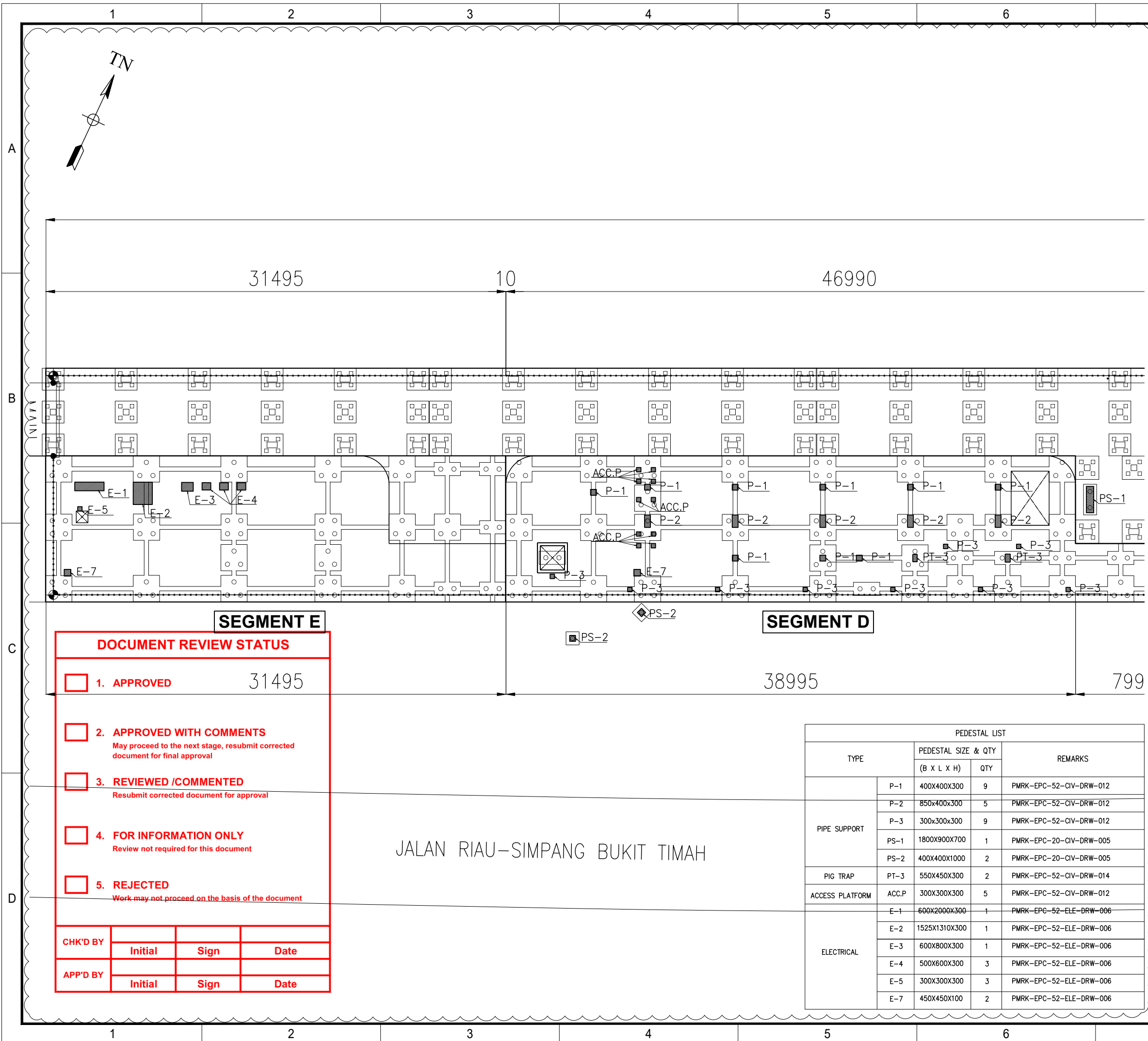
PROJECT : **JASA PERANCANGAN, PENGADAAN, DAN KONSTRUKSI PENGGANTIAN PIPA MINYAK WILAYAH ROKAN**

OWNER : **PERTAMINA GAS**

CONTRACTOR : **pgn SOLUTION action for excellence** **PERTAMINA PDC**
KONSORSIUM PGASOL-PDC

TITLE : **GENERAL LAYOUT & FOUNDATION - BATANG STATION**

SCALE	DRAWING NO.	SHEET	REV.
AS SHOWN	PMRK-EPC-52-CIV-DRW-017	1 OF 6	0



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 - PMRK-EPC-16-MEC-DTS-002 "DATA SHEET FOR PIG RECEIVER BATANG (06-PR-001)"

DOCUMENT REVIEW STATUS			
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	May proceed to the next stage, resubmit corrected document for final approval		
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PEDESTAL LIST				
TYPE		PEDESTAL SIZE & QTY		REMARKS
		(B X L X H)	QTY	
PIPE SUPPORT	P-1	400X400X300	9	PMRK-EPC-52-CIV-DRW-012
	P-2	850X400X300	5	PMRK-EPC-52-CIV-DRW-012
	P-3	300X300X300	9	PMRK-EPC-52-CIV-DRW-012
	PS-1	1800X900X700	1	PMRK-EPC-20-CIV-DRW-005
	PS-2	400X400X1000	2	PMRK-EPC-20-CIV-DRW-005
PIG TRAP	PT-3	550X450X300	2	PMRK-EPC-52-CIV-DRW-014
ACCESS PLATFORM	ACC.P	300X300X300	5	PMRK-EPC-52-CIV-DRW-012
ELECTRICAL	E-1	600X2000X300	1	PMRK-EPC-52-ELE-DRW-006
	E-2	1525X1310X300	1	PMRK-EPC-52-ELE-DRW-006
	E-3	600X800X300	1	PMRK-EPC-52-ELE-DRW-006
	E-4	500X600X300	3	PMRK-EPC-52-ELE-DRW-006
	E-5	300X300X300	3	PMRK-EPC-52-ELE-DRW-006
	E-7	450X450X100	2	PMRK-EPC-52-ELE-DRW-006

REV.	DATE	DESCRIPTION	PRP'D	CHK'D	APP'D	APP'D
G	05-MAY-2021	RE-ISSUED FOR APPROVAL	FIR	FRN	HEN	BCH
F	16-APR-2021	RE-ISSUED FOR APPROVAL	FIR	FRN	HEN	PCH
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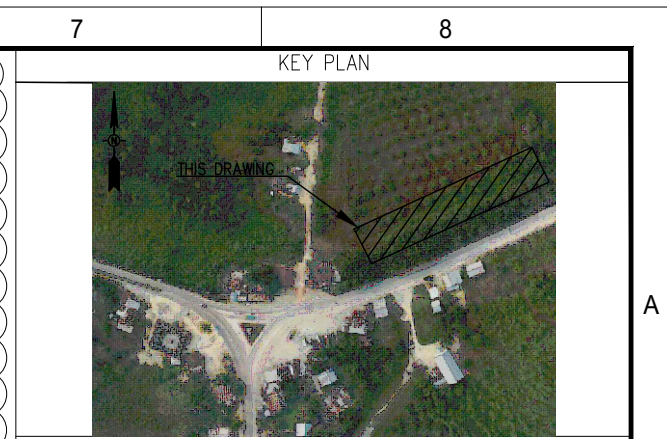
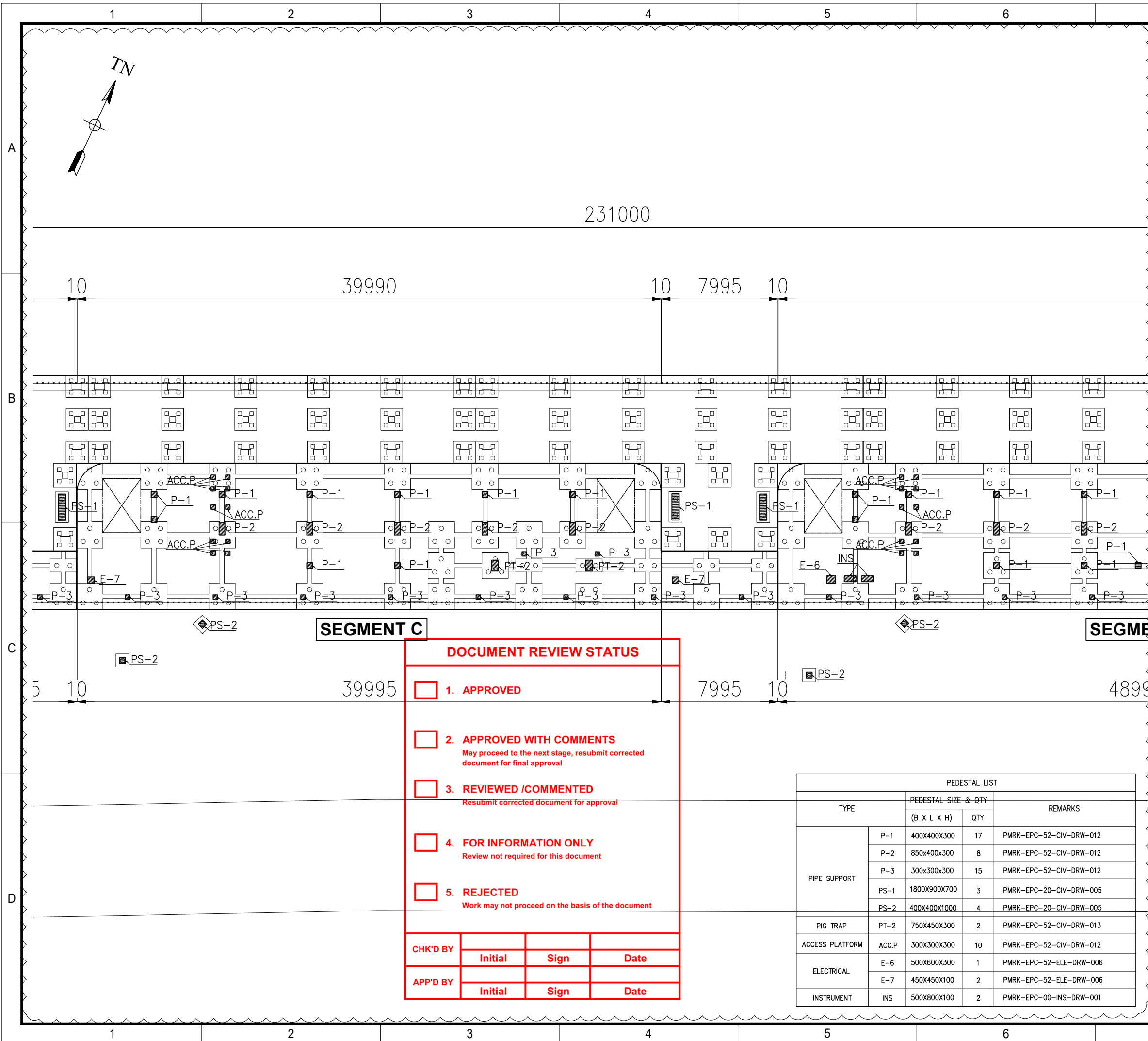
PROJECT : **JASA PERANCANGAN, PENGADAAN, DAN KONSTRUKSI PENGGANTIAN PIPA MINYAK WILAYAH ROKAN**

OWNER :

CONTRACTOR : **KONSORSIUM PGASOL-PDC**

TITLE : **GENERAL LAYOUT & FOUNDATION - BATANG STATION**

SCALE	DRAWING NO.	SHEET	REV.
AS SHOWN	PMRK-EPC-52-CIV-DRW-017	2 OF 6	0



- NOTES
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	P-3	300x300x300 15	PMRK-EPC-52-CIV-DRW-012
	PS-1	1800X900X700 3	PMRK-EPC-20-CIV-DRW-005
	PS-2	400X400X1000 4	PMRK-EPC-20-CIV-DRW-005
PIG TRAP	PT-2	750X450X300 2	PMRK-EPC-52-CIV-DRW-013
ACCESS PLATFORM	ACC.P	300X300X300 10	PMRK-EPC-52-CIV-DRW-012
ELECTRICAL	E-6	500X600X300 1	PMRK-EPC-52-ELE-DRW-006
	E-7	450X450X100 2	PMRK-EPC-52-ELE-DRW-006
INSTRUMENT	INS	500X800X100 2	PMRK-EPC-00-INS-DRW-001

REV.	DATE	DESCRIPTION	PRP'D	CHK'D	APR'D	APR'D
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A	24-JUL-2020	ISSUED FOR REVIEW	RIK	FRN HEN PCH	ARD	

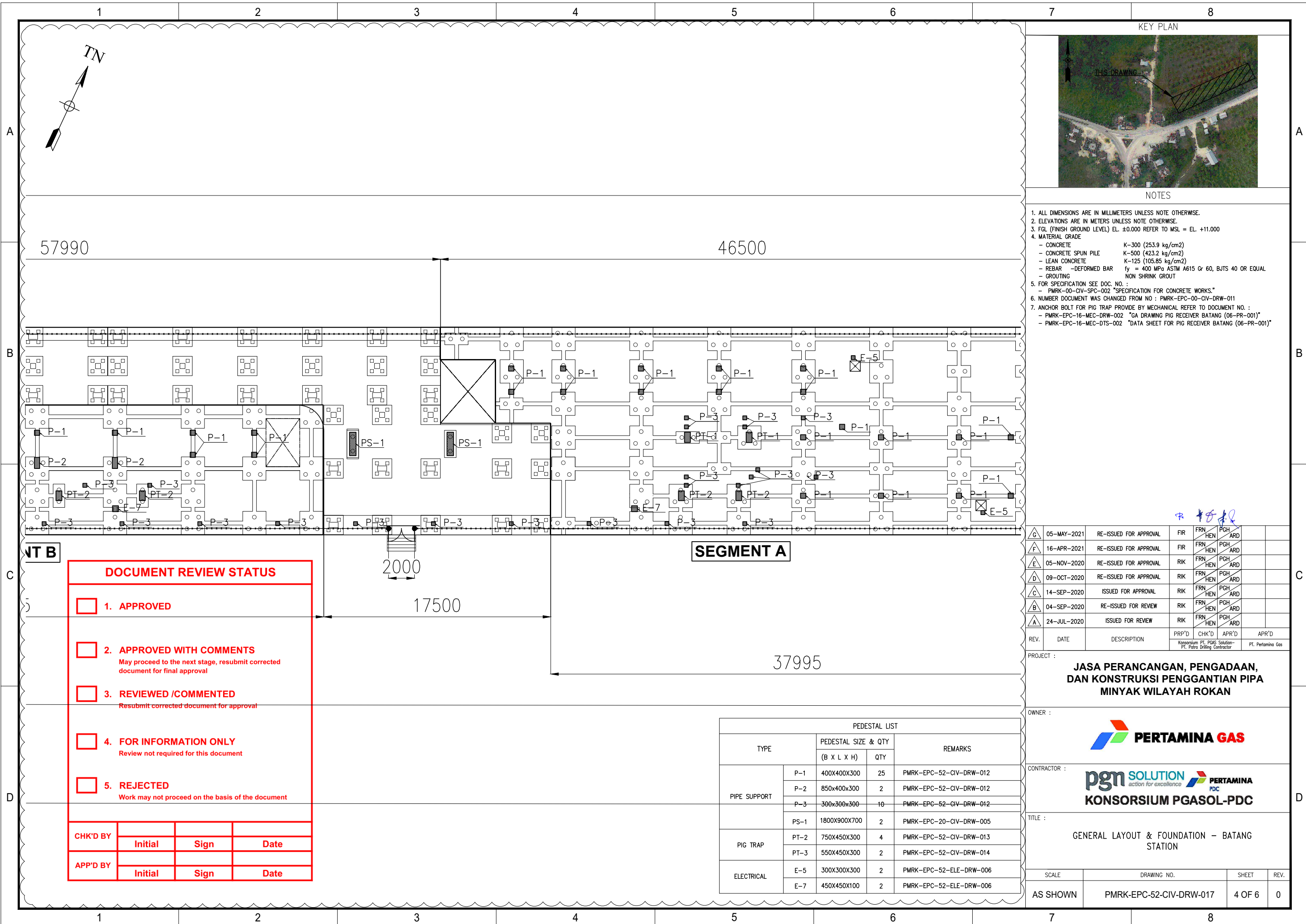
PROJECT : **JASA PERANCANGAN, PENGADAAN, DAN KONSTRUKSI PENGGANTIAN PIPA MINYAK WILAYAH ROKAN**

OWNER :

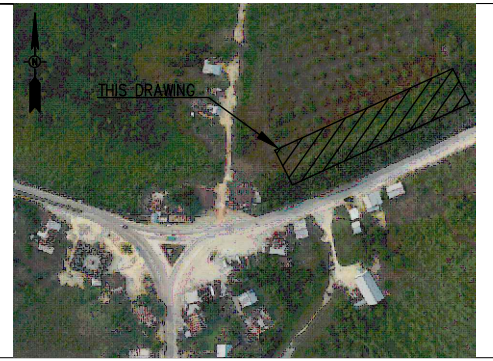
CONTRACTOR : **KONSORSIUM PGASOL-PDC**

TITLE : **GENERAL LAYOUT & FOUNDATION - BATANG STATION**

SCALE	DRAWING NO.	SHEET	REV.
AS SHOWN	PMRK-EPC-52-CIV-DRW-017	3 OF 6	0



KEY PLAN



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PROJECT : **JASA PERANCANGAN, PENGADAAN, DAN KONSTRUKSI PENGGANTIAN PIPA MINYAK WILAYAH ROKAN**

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CONTRACTOR : **pgn SOLUTION action for excellence** **PERTAMINA PDC**
KONSORSIUM PGASOL-PDC

TITLE : **GENERAL LAYOUT & FOUNDATION - BATANG STATION**

SCALE	DRAWING NO.	SHEET	REV.
AS SHOWN	PMRK-EPC-52-CIV-DRW-017	4 OF 6	0

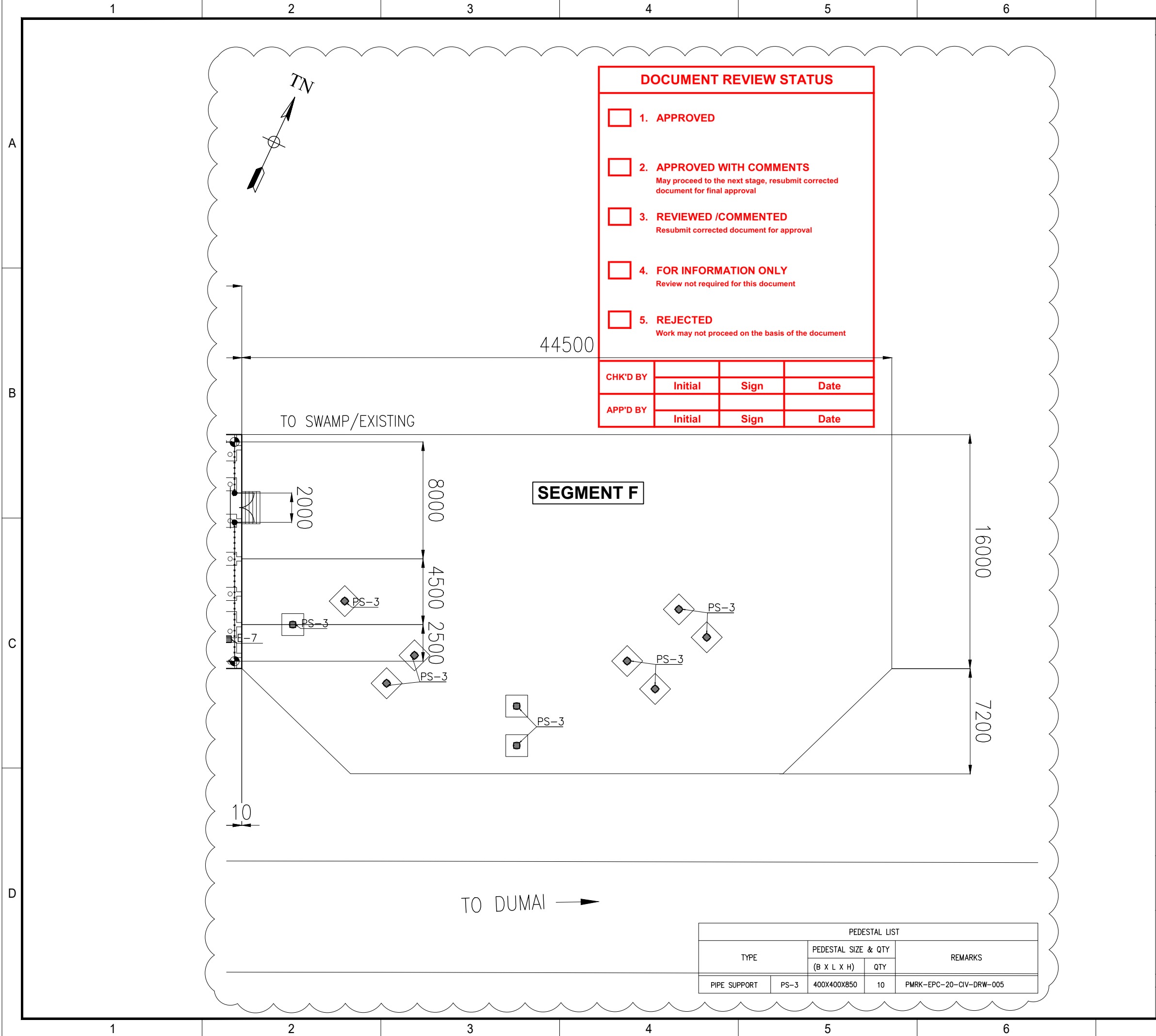
DOCUMENT REVIEW STATUS

- 1. APPROVED
- 2. APPROVED WITH COMMENTS
May proceed to the next stage, resubmit corrected document for final approval
- 3. REVIEWED /COMMENTED
Resubmit corrected document for approval
- 4. FOR INFORMATION ONLY
Review not required for this document
- 5. REJECTED
Work may not proceed on the basis of the document

CHK'D BY	Initial	Sign	Date
APP'D BY	Initial	Sign	Date

SEGMENT A

PEDESTAL LIST			
TYPE	PEDESTAL SIZE & QTY		REMARKS
	(B X L X H)	QTY	
PIPE SUPPORT	P-1	400X400X300 25	PMRK-EPC-52-CIV-DRW-012
	P-2	850X400X300 2	PMRK-EPC-52-CIV-DRW-012
	P-3	300X300X300 10	PMRK-EPC-52-CIV-DRW-012
	PS-1	1800X900X700 2	PMRK-EPC-20-CIV-DRW-005
PIG TRAP	PT-2	750X450X300 4	PMRK-EPC-52-CIV-DRW-013
	PT-3	550X450X300 2	PMRK-EPC-52-CIV-DRW-014
ELECTRICAL	E-5	300X300X300 2	PMRK-EPC-52-ELE-DRW-006
	E-7	450X450X100 2	PMRK-EPC-52-ELE-DRW-006



DOCUMENT REVIEW STATUS

1. **APPROVED**

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CHK'D BY	Initial	Sign	Date
APP'D BY	Initial	Sign	Date

SEGMENT F

PEDESTAL LIST				
TYPE		PEDESTAL SIZE & QTY		REMARKS
		(B X L X H)	QTY	
PIPE SUPPORT	PS-3	400X400X850	10	PMRK-EPC-20-CIV-DRW-005

KEY PLAN



NOTES

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTE OTHERWISE.
2. ELEVATIONS ARE IN METERS UNLESS NOTE OTHERWISE.
3. FGL (FINISH GROUND LEVEL) EL. ±0.000 REFER TO MSL = EL. +11.000
4. MATERIAL GRADE
 - CONCRETE K-300 (253.9 kg/cm²)
 - CONCRETE SPUN PILE K-500 (423.2 kg/cm²)
 - LEAN CONCRETE K-125 (105.85 kg/cm²)
 - REBAR -DEFORMED BAR fy = 400 MPa ASTM A615 Gr 60, BJTS 40 OR EQUAL
 - GROUTING NON SHRINK GROUT
5. FOR SPECIFICATION SEE DOC. NO. :
 - PMRK-00-CIV-SPC-002 "SPECIFICATION FOR CONCRETE WORKS."
6. NUMBER DOCUMENT WAS CHANGED FROM NO : PMRK-EPC-00-CIV-DRW-011
7. ANCHOR BOLT FOR PIG TRAP PROVIDE BY MECHANICAL REFER TO DOCUMENT NO. :
 - PMRK-EPC-16-MEC-DRW-002 "GA DRAWING PIG RECEIVER BATANG (06-PR-001)"
 - PMRK-EPC-16-MEC-DTS-002 "DATA SHEET FOR PIG RECEIVER BATANG (06-PR-001)"

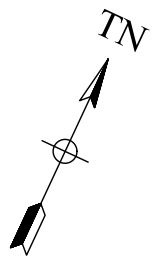
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F	16-APR-2021	RE-ISSUED FOR APPROVAL	FIR	FRN	HEN	PCH
E	05-NOV-2020	RE-ISSUED FOR APPROVAL	RIK	FRN	HEN	PCH
D	09-OCT-2020	RE-ISSUED FOR APPROVAL	RIK	FRN	HEN	PCH
C	14-SEP-2020	ISSUED FOR APPROVAL	RIK	FRN	HEN	PCH
B	04-SEP-2020	RE-ISSUED FOR REVIEW	RIK	FRN	HEN	PCH
A	24-JUL-2020	ISSUED FOR REVIEW	RIK	FRN	HEN	PCH

PROJECT : **JASA PERANCANGAN, PENGADAAN, DAN KONSTRUKSI PENGGANTIAN PIPA MINYAH WILAYAH ROKAN**



TITLE : **GENERAL LAYOUT & FOUNDATION - BATANG STATION**

SCALE	DRAWING NO.	SHEET	REV.
AS SHOWN	PMRK-EPC-52-CIV-DRW-017	5 OF 6	0

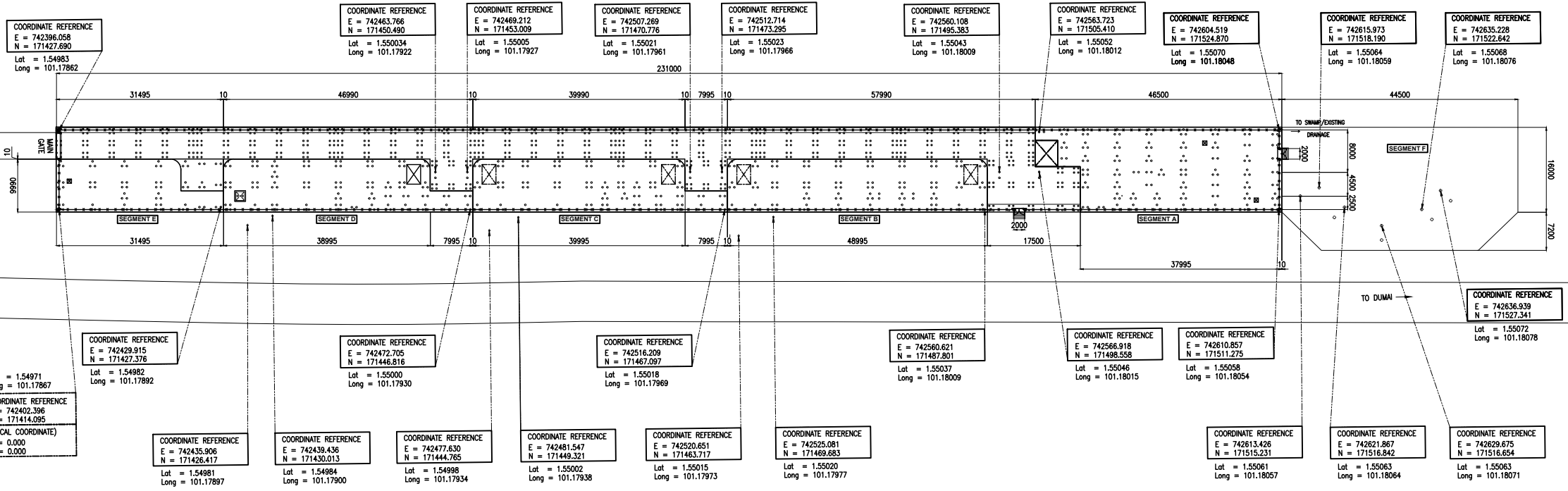


KEY PLAN



NOTES

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2. ELEVATIONS ARE IN METERS UNLESS NOTE OTHERWISE.
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 - PMRK-EPC-16-MEC-DTS-002 "DATA SHEET FOR PIG RECEIVER BATANG (06-PR-001)"



DOCUMENT REVIEW STATUS

<input type="checkbox"/>	1. APPROVED
<input type="checkbox"/>	2. APPROVED WITH COMMENTS May proceed to the next stage, resubmit corrected document for final approval
<input type="checkbox"/>	3. REVIEWED /COMMENTED Resubmit corrected document for approval
<input type="checkbox"/>	4. FOR INFORMATION ONLY Review not required for this document
<input type="checkbox"/>	5. REJECTED Work may not proceed on the basis of the document

PILE LAYOUT
SCALE 1 : 1000

REV.	DATE	DESCRIPTION	PRP'D	CHK'D	APR'D	APR'D
F	16-APR-2021	RE-ISSUED FOR APPROVAL	FIR	FRN HEN	PCH ARD	
E	05-NOV-2020	RE-ISSUED FOR APPROVAL	RIK	FRN HEN	PCH ARD	
D	09-OCT-2020	RE-ISSUED FOR APPROVAL	RIK	FRN HEN	PCH ARD	
C	14-SEP-2020	ISSUED FOR APPROVAL	RIK	FRN HEN	PCH ARD	
B	04-SEP-2020	RE-ISSUED FOR REVIEW	RIK	FRN HEN	PCH ARD	
A	24-JUL-2020	ISSUED FOR REVIEW	RIK	FRN HEN	PCH ARD	

PROJECT : **JASA PERANCANGAN, PENGADAAN, DAN KONSTRUKSI PENGGANTIAN PIPA MINYAK WILAYAH ROKAN**

OWNER :

CONTRACTOR : **KONSORSIUM PGASOL-PDC**

TITLE : **GENERAL LAYOUT & FOUNDATION - BATANG STATION**

SCALE	DRAWING NO.	SHEET	REV.
AS SHOWN	PMRK-EPC-52-CIV-DRW-017	6 OF 6	0

CHK'D BY	Initial	Sign	Date
APP'D BY	Initial	Sign	Date

CLIENT : PT. PERTAMINA GAS
PROJECT : JASA PERANCANGAN, PENGADAAN DAN KONSTRUKSI
PENGANTIAN PIPA MINYAK WILAYAH ROKAN

DOCUMENT REVIEW STATUS

- 1. APPROVED
- 2. APPROVED WITH COMMENTS
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- 3. REVIEWED /COMMENTED
Resubmit corrected document for approval
- 4. FOR INFORMATION ONLY
Review not required for this document
- 5. REJECTED
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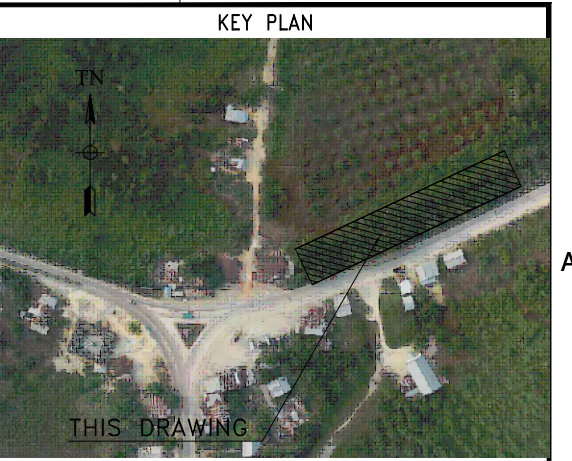
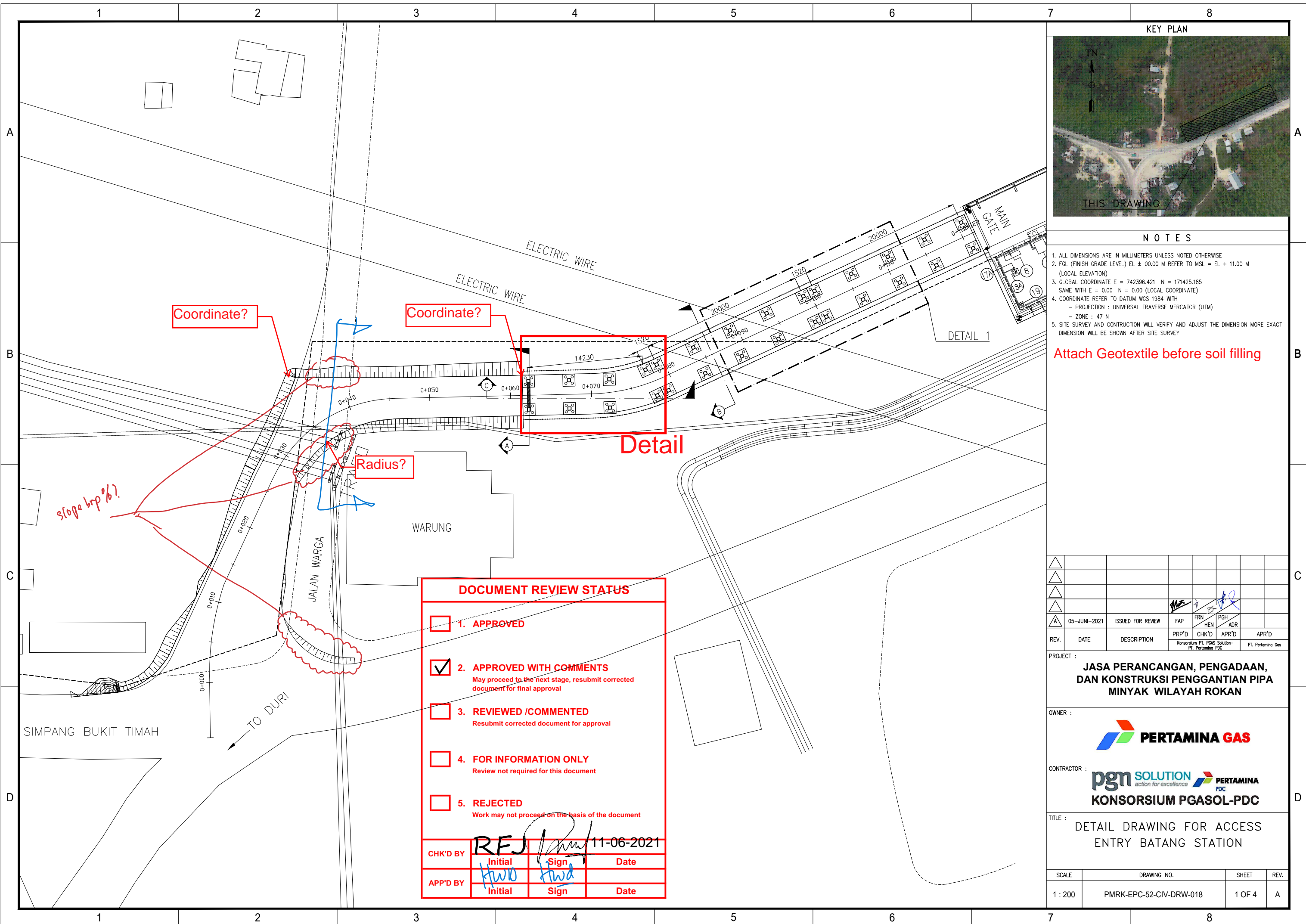
CHK'D BY	RFJ		11-06-2021
	Initial	Sign	Date
APP'D BY	Hwo		
	Initial	Sign	Date

DETAIL DRAWING FOR ACCESS ENTRY BATANG STATION

SUBMIT CALCULATION

PMRK-EPC-52-CIV-DRW-018





NOTES

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE
2. FGL (FINISH GRADE LEVEL) EL ± 00.00 M REFER TO MSL = EL + 11.00 M (LOCAL ELEVATION)
3. GLOBAL COORDINATE E = 742396.421 N = 171425.185
SAME WITH E = 0.00 N = 0.00 (LOCAL COORDINATE)
4. COORDINATE REFER TO DATUM WGS 1984 WITH
- PROJECTION : UNIVERSAL TRANSVERSE MERCATOR (UTM)
- ZONE : 47 N
5. SITE SURVEY AND CONSTRUCTION WILL VERIFY AND ADJUST THE DIMENSION MORE EXACT
DIMENSION WILL BE SHOWN AFTER SITE SURVEY

Attach Geotextile before soil filling

DOCUMENT REVIEW STATUS			
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<input checked="" type="checkbox"/>	2. APPROVED WITH COMMENTS	May proceed to the next stage, resubmit corrected document for final approval	
<input type="checkbox"/>	3. REVIEWED /COMMENTED	Resubmit corrected document for approval	
<input type="checkbox"/>	4. FOR INFORMATION ONLY	Review not required for this document	
<input type="checkbox"/>	5. REJECTED	Work may not proceed on the basis of the document	
CHK'D BY	Initial	Sign	Date
	REFJ	[Signature]	11-06-2021
APP'D BY	Initial	Sign	Date
	Hwo	[Signature]	

REV.	DATE	DESCRIPTION	PRP'D	CHK'D	APR'D	APR'D
A	05-JUNI-2021	ISSUED FOR REVIEW	FAP	FRN HEN	PGH ADR	
			Konsorsium PT. PGAS Solution- PT. Pertamina PDC		PT. Pertamina Gas	

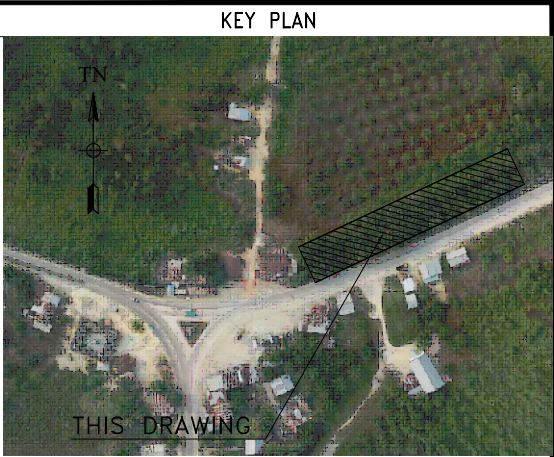
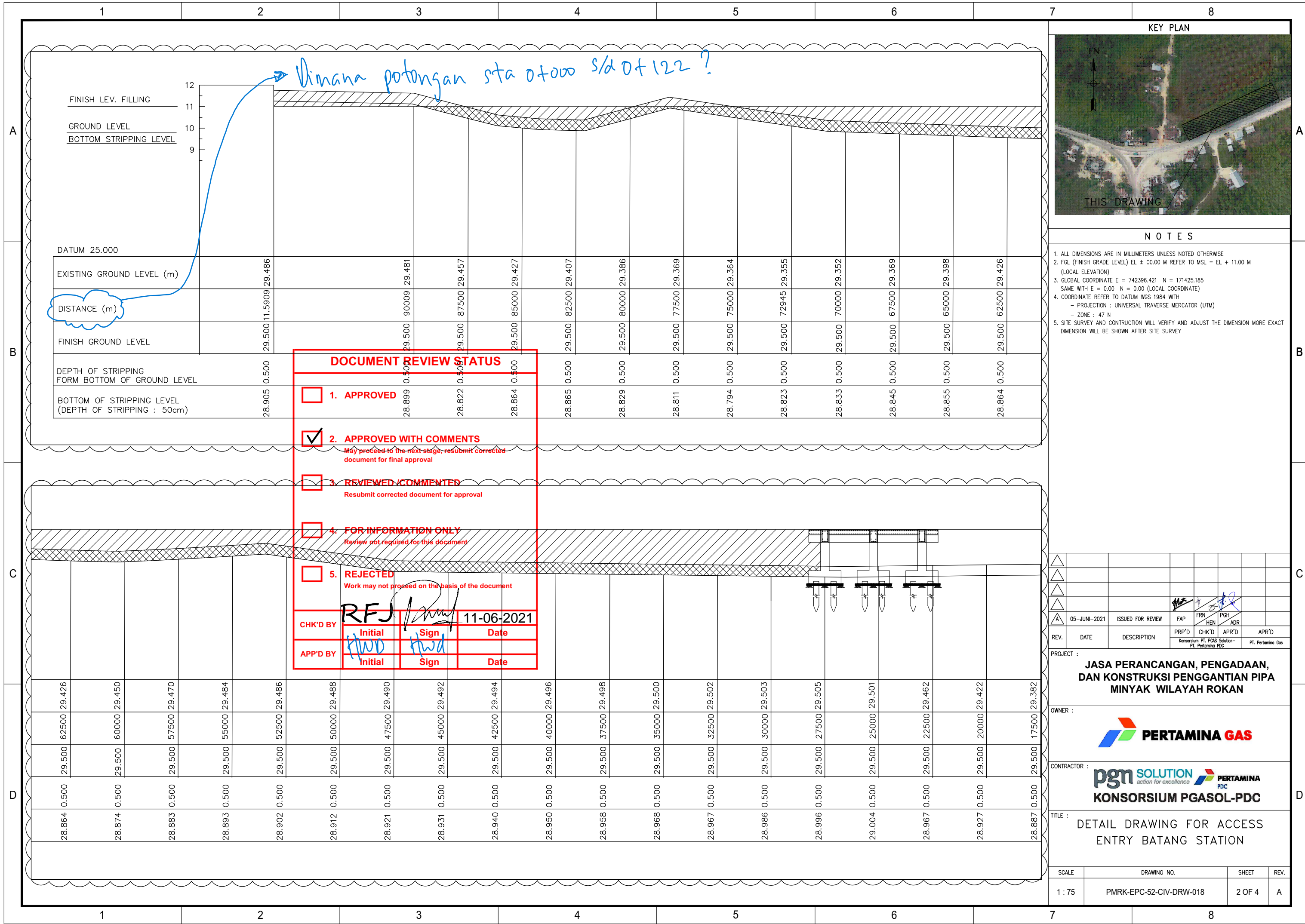
PROJECT :
**JASA PERANCANGAN, PENGADAAN,
DAN KONSTRUKSI PENGGANTIAN PIPA
MINYAK WILAYAH ROKAN**

OWNER :
PERTAMINA GAS

CONTRACTOR :
pgn SOLUTION action for excellence **PERTAMINA PDC**
KONSORSIUM PGASOL-PDC

TITLE :
**DETAIL DRAWING FOR ACCESS
ENTRY BATANG STATION**

SCALE	DRAWING NO.	SHEET	REV.
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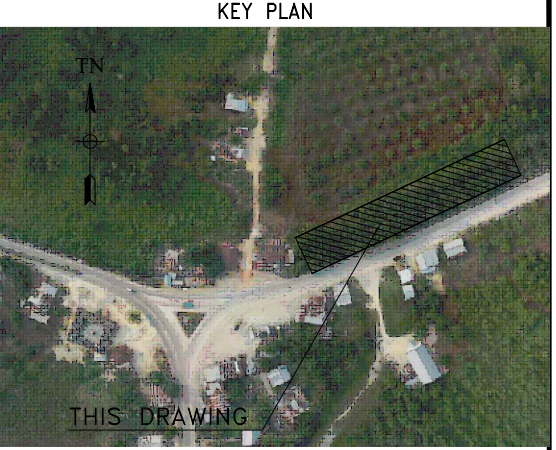
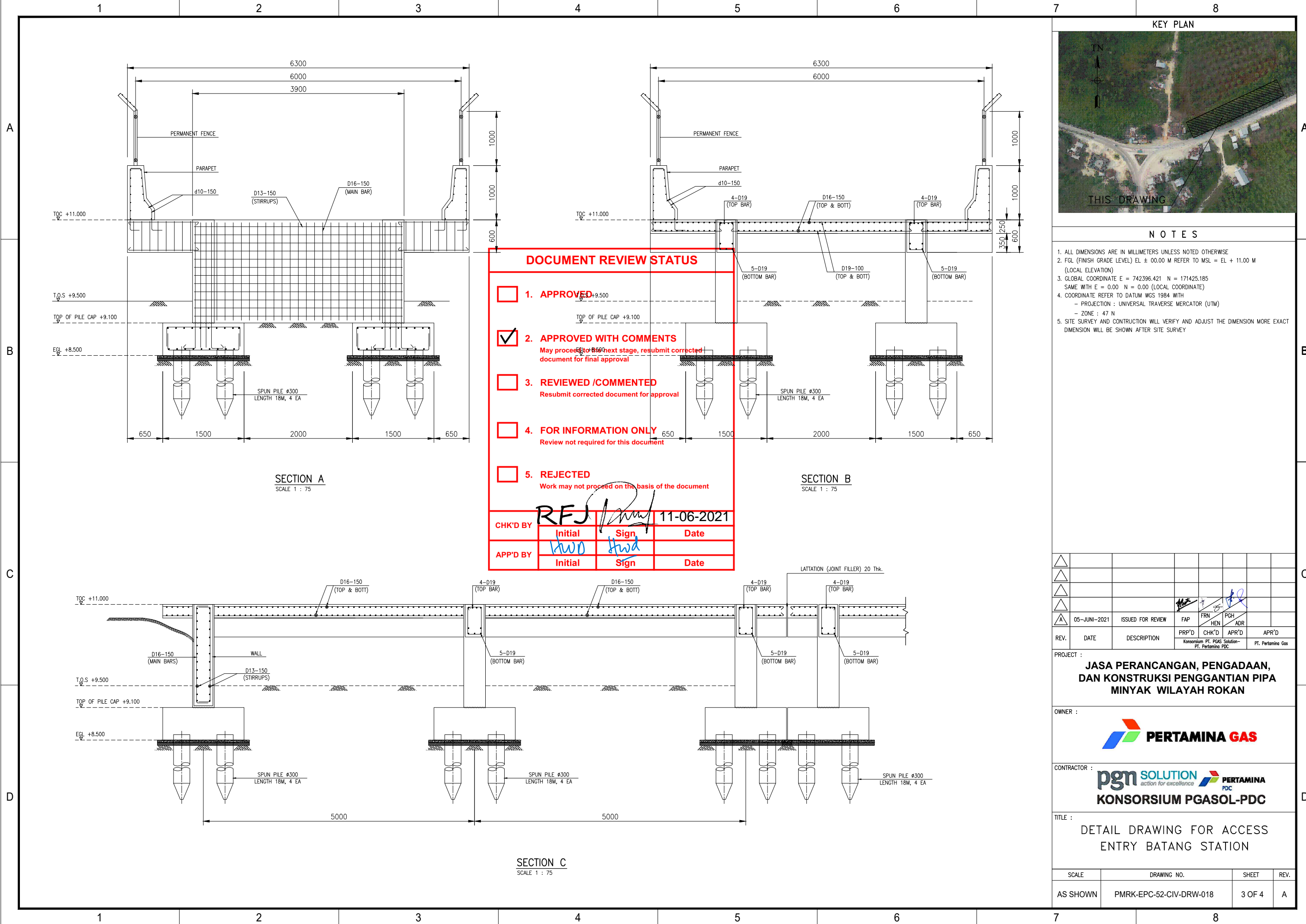


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 - PROJECTION : UNIVERSAL TRAVERSE MERCATOR (UTM)
 - ZONE : 47 N
- SITE SURVEY AND CONSTRUCTION WILL VERIFY AND ADJUST THE DIMENSION MORE EXACT DIMENSION WILL BE SHOWN AFTER SITE SURVEY

PROJECT :	OWNER :
JASA PERANCANGAN, PENGADAAN, DAN KONSTRUKSI PENGGANTIAN PIPA MINYAK WILAYAH ROKAN	PERTAMINA GAS
CONTRACTOR :	TITLE :
pgn SOLUTION KONSORSIUM PGASOL-PDC	DETAIL DRAWING FOR ACCESS ENTRY BATANG STATION

SCALE	DRAWING NO.	SHEET	REV.
1 : 75	PMRK-EPC-52-CIV-DRW-018	2 OF 4	A



NOTES

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DOCUMENT REVIEW STATUS

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May proceed to the next stage

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	Initial	Sign	Date
APP'D BY	[Signature]	[Signature]	
	Initial	Sign	Date

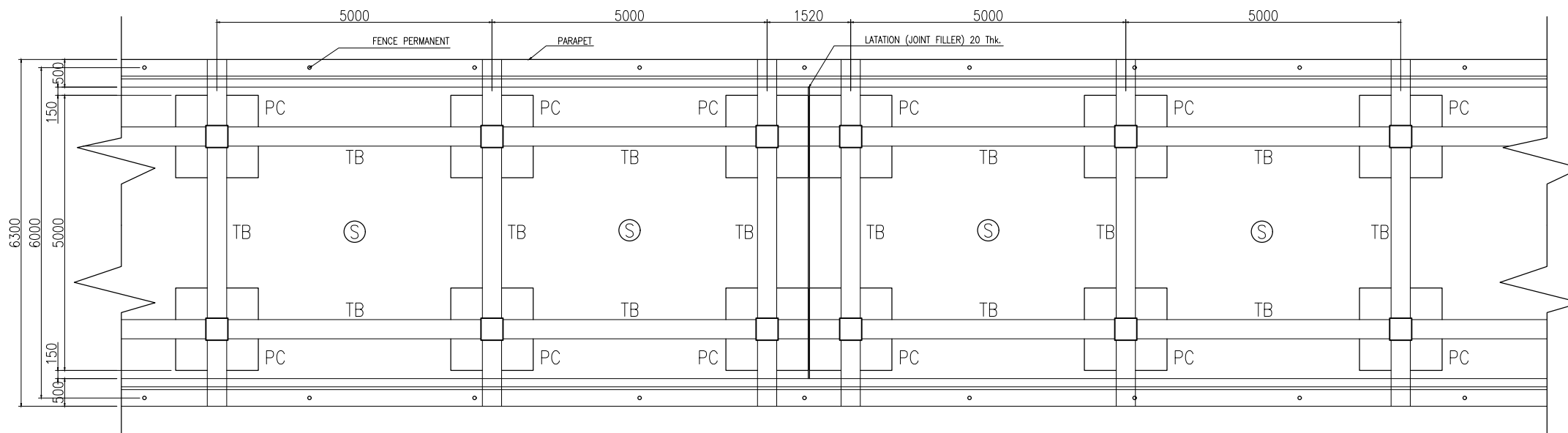
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△	05-JUN-2021	ISSUED FOR REVIEW	FAP	FRN HEN	PGH ADR		
REV.	DATE	DESCRIPTION	PRP'D	CHK'D	APR'D	APR'D	
			Konsorsium PT. PGAS Solution-PT. Pertamina PDC		PT. Pertamina Gas		

PROJECT :
JASA PERANCANGAN, PENGADAAN, DAN KONSTRUKSI PENGGANTIAN PIPA MINYAK WILAYAH ROKAN

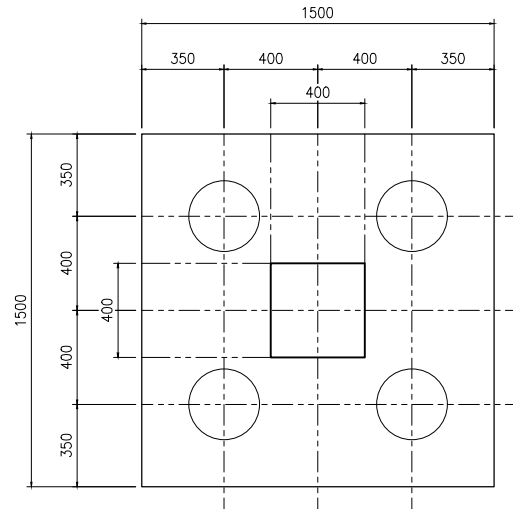


TITLE :
DETAIL DRAWING FOR ACCESS ENTRY BATANG STATION

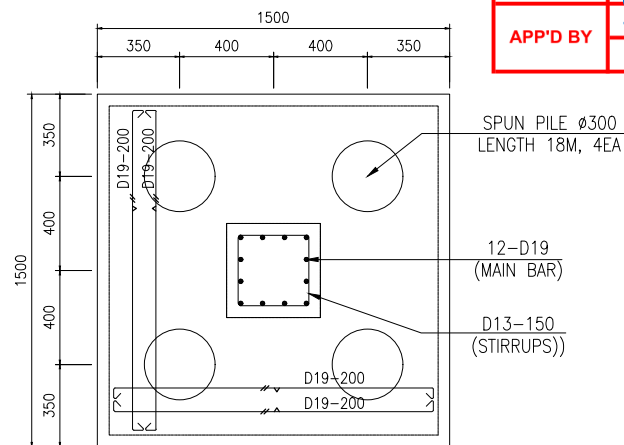
SCALE	DRAWING NO.	SHEET	REV.
AS SHOWN	PMRK-EPC-52-CIV-DRW-018	3 OF 4	A



DETAIL 1
SCALE 1 : 50



DETAIL PILE CAP
SCALE 1 : 15



PILE CAP REBAR ARRANGEMENT
SCALE 1 : 15

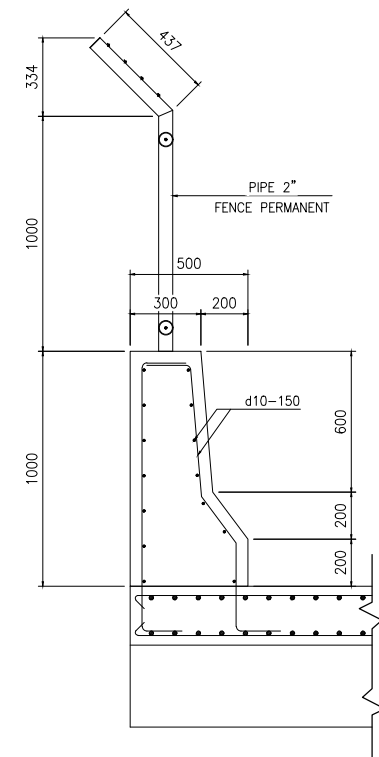
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CHK'D BY	Initial	Sign	Date
APP'D BY	<i>Hwd</i>	<i>Hwd</i>	
	Initial	Sign	Date

TYPE	TIE BEAM 350x600	
	MID	END
BEAM SECTION		
TOP BAR	4 - D19	5 - D19
MIDDLE BAR	-	-
BOTTOM BAR	5 - D19	4 - D19
STIRRUPS	2D13 - 150	2D13 - 150

DETAIL TIE BEAM
SCALE 1 : 15



DETAIL PARAPET & FENCE
SCALE 1 : 15

KEY PLAN



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A	05-JUNI-2021	ISSUED FOR REVIEW	FAP	FRN HEN	PGH ADR	

PROJECT :
**JASA PERANCANGAN, PENGADAAN,
DAN KONSTRUKSI PENGGANTIAN PIPA
MINYAK WILAYAH ROKAN**

OWNER :

CONTRACTOR :

KONSORSIUM PGASOL-PDC

TITLE :
**DETAIL DRAWING FOR ACCESS
ENTRY BATANG STATION**

SCALE	DRAWING NO.	SHEET	REV.
AS SHOWN	PMRK-EPC-52-CIV-DRW-018	4 OF 4	A