



Republic of the Philippines
PROVINCE OF DAVAO DEL SUR
Office of the Governor

PROCUREMENT MANAGEMENT OFFICE BIDS AND AWARDS COMMITTEE

Mobile Nos. 0905-229-0526/0908-332-2024 (Goods), 0948-768-5848 (Infra)

Telefax: (082) 553-9579

Website: www.davaodelsur.gov.ph/pgo-bac

Email Add.: bac.davaodelsur2@gmail.com/bac.davaodelsur@gmail.com



BIDDING DOCUMENTS

One Job Order for the
**IMPROVEMENT OF GOVERNOR DOUGLAS
RA. CAGAS SPORTS COMPLEX AND
BUSINESS CENTER SITE DEVELOPMENT
(PHASE I) located at MATTI, DIGOS CITY,
DAVAO DEL SUR**

all in accordance to plans, specifications and scope of work and the Green Procurement Policy as adopted by Executive Order No. 30 series of 2019

IB No. C-011-24

Date of Opening of Bids: April 11, 2024 at 09:00 A.M.
Start Date for Issuance of Bidding Documents: March 19, 2024

Sixth Edition
July 2020

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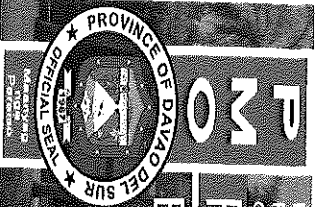
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SECTION I.

INVITATION TO BID

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Republic of the Philippines
PROVINCE OF DAVAO DEL SUR
Office of the Governor

PROCUREMENT MANAGEMENT OFFICE BIDS AND AWARDS COMMITTEE

Mobile Nos. 0905-229-0526/0908-332-2024 (Geeds), 0948-768-8648 (Infra)
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9th Ave. Davao del Sur

Invitation to Bid for C-011-24

One Job Order for the

IMPROVEMENT OF GOVERNOR DOUGLAS RA. CAGAS SPORTS COMPLEX AND BUSINESS CENTER SITE DEVELOPMENT (PHASE I) located at MATTI, DIGOS CITY, DAVAO DEL SUR

all in accordance to plans, specifications and scope of work and the Green Procurement Policy as adopted by Executive Order No. 30 series of 2019

1. The Provincial Government of Davao del Sur, through the CY 2023 - Loan Proceeds (Supplemental Budget) intends to apply the sum of P220,000,000.00 being the Approved Budget for the Contract (ABC) to payments under the contract for IB No. C-011-24. Bids received in excess of the ABC shall be automatically rejected at bid opening.
2. The Provincial Government of Davao del Sur now invites bids for the above Procurement Project. Completion of the Works is required by 240 Calendar Days Contract Duration. Bidders should have completed, within the last three (3) years), a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II. Instructions to Bidders.
3. Bidding will be conducted through open competitive bidding procedures using non-discretionary "pass/fail" criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184. The contract shall be awarded to the Lowest Calculated Responsive Bidder (LCRB) who was determined as such during post-qualification.
4. Interested bidders may obtain further information from Provincial Government of Davao del Sur and inspect the Bidding Documents at the address given below from 8:00 A.M. – 5:00 P.M., Monday to Friday:

Engr. SHEILA MAE A. ZAPANTA, MPA
Administrative Officer IV
Head, BAC Secretariat for Infrastructure Projects

5. A complete set of Bidding Documents may be acquired by interested bidders on March 19 - April 11, 2024, at the Office of the BAC Secretariat Room 16, Executive Building, Capitol Compound, Brgy. Matti, Digos City upon accomplishing a bidder's assessment slip pursuant to the latest Guidelines issued by GPPB, in the amount of P50,000.00. The Provincial Government of Davao del Sur shall allow the bidder to present its proof of payment for the fees upon payment of a non-refundable fee for the Bidding Documents in the amount stated above, to the Provincial Treasurer's Office. An authorization from the proprietor of the company shall be presented in case the latter opted to send representative/s in his/her behalf. Only bidders who purchased the Bidding Documents with corresponding official receipt of the bidding documents will be allowed to submit bids. Eligibility/Technical and Financial documents must be book bound and properly tabbed at right side. The bidder will prepare (3) sets of book bound bidding documents with corresponding proper markings (Original Copy, Copy 1 and Copy 2), respectively. Any documents submitted, not book-bound and less than three (3) sets, shall be rejected outright. For the Financial Proposals not exceeding ten (10) pages may be book bound or securely stapled.

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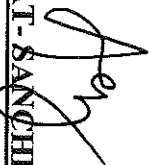
6. The Provincial Government of Davao del Sur will hold a Pre-Bid Conference on March 26, 2024, 9:00 A.M. at Ralota Hall, Gov. Douglas Ra. Cagas Cultural, Sports and Business Complex, Barangay Matti, Digos City, Davao del Sur, which shall be open to prospective bidders.
7. Bids must be duly received by the BAC Secretariat at the following through manual submission. Late bids shall not be accepted.
 - Advance dropping (before April 11, 2024) – Room 16, Procurement Management Office (Infrastructure Projects), Capitol Building, Matti, Digos City.
 - Date of opening (April 11, 2024, before 9:00 A.M.) – Ralota Hall, Davao del Sur Coliseum, Matti, Digos City.
8. All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in ITB Clause 16.
9. Bid opening shall be on April 11, 2024 at 9:00 A.M., Ralota Hall, Gov. Douglas Ra. Cagas Cultural, Sports and Business Complex, Barangay Matti, Digos City, Davao del Sur. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.
10. The Provincial Government of Davao del Sur reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised Implementing Rules and Regulations (IRR) of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.

11. For further information, please refer to:

The BAC CHAIRPERSON
Provincial Government of Davao del Sur
Contact No: 09487685848
Email Address: sbaedavaodelsur@gmail.com

Engr. SHEILA MAE A. ZAPANTA, MPA
Head, BAC Secretariat for Infrastructure Projects
PGO – Procurement Management Office
Office of BAC Secretariat for Infrastructure Projects
Room 16, Provincial Capitol Building, Matti, Digos City, Davao del Sur
Contact No: 09487685848; Email Address: sbaedavaodelsur@gmail.com

12. You may visit the website, www.davaodelsur.gov.ph, for downloading of Bidding Documents.


DESSAMIE BUAT-SANCHEZ, CPA, JD
Provincial Budget Officer
BAC Chairperson



March 18, 2024

SECTION II.

INSTRUCTION TO BIDDERS

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Section II. Instructions to Bidders

1. Scope of Bid

The PROVINCIAL GOVERNMENT OF DAVAO DEL SUR invites Bids for the **One Job Order for the IMPROVEMENT OF GOVERNOR DOUGLAS RA. CAGAS SPORTS COMPLEX AND BUSINESS CENTER SITE DEVELOPMENT (PHASE D) located at MATTI, DIGOS CITY, DAVAO DEL SUR**, with Project Identification Number IB No. C161-23.

The Procurement Project (referred to herein as (“**IMPROVEMENT OF GOVERNOR DOUGLAS RA. CAGAS SPORTS COMPLEX AND BUSINESS CENTER SITE DEVELOPMENT (PHASE D) located at MATTI, DIGOS CITY, DAVAO DEL SUR**”)) is for the construction of Works, as described in Section VI (Specifications).

2. Funding Information

- 2.1. The Procuring Entity through the source of funding as indicated below for **CY 2023-Supplemental Budget** in the amount of **P220,000,000.00**.
- 2.2. The source of funding is **LOAN PROCEEDS**:

3. Bidding Requirements

The Bidding for the Project shall be governed by all the provisions of RA No. 9184 and its 2016 revised IRR, including its Generic Procurement Manual and associated policies, rules and regulations as the primary source thereof, while the herein clauses shall serve as the secondary source thereof.

Any amendments made to the IRR and other GPPB issuances shall be applicable only to the ongoing posting, advertisement, or invitation to bid by the BAC through the issuance of a supplemental or bid bulletin.

The Bidder, by the act of submitting its Bid, shall be deemed to have inspected the site, determined the general characteristics of the contracted Works and the conditions for this Project, such as the location and the nature of the work; (b) climatic conditions; (c) transportation facilities; (c) nature and condition of the terrain, geological conditions at the site communication facilities, requirements, location and availability of construction aggregates and other materials, labor, water, electric power and access roads; and (d) other factors that may affect the cost, duration and execution or implementation of the contract, project, or work and examine all instructions, forms, terms, and project requirements in the Bidding Documents.

4. Corrupt, Fraudulent, Collusive, Coercive, and Obstructive Practices

The Procuring Entity, as well as the Bidders and Contractors, shall observe the highest standard of ethics during the procurement and execution of the contract. They or through an agent shall not engage in corrupt, fraudulent, collusive, coercive, and obstructive practices defined under Annex “1” of the 2016 revised IRR of RA No. 9184 or other integrity violations in competing for the Project.

5. Eligible Bidders

- 5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.

- 5.2. The Bidder must have an experience of having completed a Single Largest Completed Contract (SLCC), within the last three (3) years, that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC adjusted, if necessary, by the Bidder to current prices using the PSA's CPI, except under conditions provided for in Section 23.4.2.4 of the 2016 revised IRR of RA No. 9184.

A contract is considered to be "similar" to the contract to be bid if it has the major categories of work stated in the **BDS**.

- 5.3. For Foreign-funded Procurement, the Procuring Entity and the foreign government/foreign or international financing institution may agree on another track record requirement, as specified in the Bidding Document prepared for this purpose.

- 5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.2 of the 2016 IRR of RA No. 9184.

6. **Origin of Associated Goods**

There is no restriction on the origin of Goods other than those prohibited by a decision of the UN Security Council taken under Chapter VII of the Charter of the UN.

7. **Subcontracts**

- 7.1. **Subcontracting is not allowed.**

8. **Pre-Bid Conference**

The Procuring Entity will hold a pre-bid conference for this Project on the **March 26, 2024, at 9:00 A.M., Ralota Hall, Gov. Douglas Ra. Cagas Cultural Sports and Business Complex, Barangay Matti, Digos City, Davao del Sur** as indicated in paragraph 6 of the IB.

9. **Clarification and Amendment of Bidding Documents**

Prospective bidders may request for clarification on and/or interpretation of any part of the Bidding Documents. Such requests must be in writing and received by the Procuring Entity, either at its given address or through electronic mail indicated in the IB, at least ten (10) calendar days before the deadline set for the submission and receipt of Bids.

10. **Documents Comprising the Bid: Eligibility and Technical Components**

- 10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.

- 10.2. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. For Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.

- 10.3. A valid special PCAB License in case of Joint Ventures, and registration for the type and cost of the contract for this Project. Any additional type of Contractor License or permit shall be indicated in the **BDS**.

10.4. A List of Contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen) assigned to the contract to be bid, with their complete qualification and experience data shall be provided. These key personnel must meet the required minimum years of experience set in the **BDS**.

10.5. A List of Contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership, certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be, must meet the minimum requirements for the contract set in the **BDS**.

11. Documents Comprising the Bid: Financial Component

11.1. The second bid envelope shall contain the financial documents for the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.

11.2. Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.

11.3. For Foreign-funded procurement, a ceiling may be applied to bid prices provided the conditions are met under Section 31.2 of the 2016 revised IRR of RA No. 9184.

12. Alternative Bids

Bidders shall submit offers that comply with the requirements of the Bidding Documents, including the basic technical design as indicated in the drawings and specifications. Unless there is a value engineering clause in the **BDS**, alternative Bids shall not be accepted.

13. Bid Prices

All bid prices for the given scope of work in the Project as awarded shall be considered as fixed prices, and therefore not subject to price escalation during contract implementation, except under extraordinary circumstances as determined by the NEDA and approved by the GPPB pursuant to the revised Guidelines for Contract Price Escalation guidelines.

14. Bid and Payment Currencies

14.1. Bid prices may be quoted in the local currency or tradeable currency accepted by the BSP at the discretion of the Bidder. However, for purposes of bid evaluation, Bids denominated in foreign currencies shall be converted to Philippine currency based on the exchange rate as published in the BSP reference rate bulletin on the day of the bid opening.

14.2. Payment of the contract price shall be made in: **Philippine Pesos**.

15. Bid Security

15.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.

15.2. The Bid and bid security shall be valid for **120 Calendar Days** upon opening of bids. Any bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

16. Sealing and Marking of Bids

Each Bidder shall submit three (3) sets (Original, Copy 1 and Copy 2) of the first and second components of its Bid. Failure of the Bidders to comply with the said request shall be a ground for disqualification.

17. Deadline for Submission of Bids

17.1 Bids must be delivered to the Ralota Hall, Gov. Douglas Ra. Cagas Cultural Sports and Business Complex, Barangay Matti, Digos City, Davao del Sur **on or before April 11, 2024 at 9:00 A.M.** Late bids shall not be accepted. All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in ITB Clause 18.

18. Opening and Preliminary Examination of Bids

18.1. The BAC shall open the Bids in public at the time, on the date, and at the place specified in paragraph 9 of the **IB**. The Bidders' representatives who are present shall sign a register evidencing their attendance. In case videoconferencing, webcasting or other similar technologies will be used, attendance of participants shall likewise be recorded by the BAC Secretariat.

In case the Bids cannot be opened as scheduled due to justifiable reasons, the rescheduling requirements under Section 29 of the 2016 revised IRR of RA No. 9184 shall prevail.

18.2. The preliminary examination of Bids shall be governed by Section 30 of the 2016 revised IRR of RA No. 9184.

19. Detailed Evaluation and Comparison of Bids

19.1. The Procuring Entity's BAC shall immediately conduct a detailed evaluation of all Bids rated "*passed*" using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under Section 32.2 of 2016 revised IRR of RA No. 9184.

19.2. If the Project allows partial bids, all Bids and combinations of Bids as indicated in the **BDS** shall be received by the same deadline and opened and evaluated simultaneously so as to determine the Bid or combination of Bids offering the lowest calculated cost to the Procuring Entity. Bid Security as required by **ITB** Clause 15 shall be submitted for each contract (lot) separately.

19.3. In all cases, the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184 must be sufficient for the total of the ABCs for all the lots participated in by the prospective Bidder.

20. Post Qualification

Within a non-extendible period of five (5) calendar days from receipt by the Bidder of the notice from the BAC that it submitted the Lowest Calculated Bid, the Bidder shall submit its latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS), and other appropriate licenses and permits required by law and stated in the **BDS**.

21. Signing of the Contract

The documents required in Section 37.2 of the 2016 revised IRR of RA No. 9184 shall form part of the Contract. Additional Contract documents are indicated in the **BDS**.

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SECTION III.

BID DATA SHEET

2.

Bid Data Sheet

(IB No.: C-011-24)

ITB Clause																															
5.2	For this purpose, contracts similar to the Project refer to contracts which have the same major categories of work, which shall be: Buildings: Construction or Repair <i>(based on DPWH DO 14 Series of 2017)</i>																														
7.1	Subcontracting is not allowed.																														
10.3	"No further instructions."																														
10.4	The minimum work experience requirements for key personnel are the following: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Key Personnel</th> <th style="width: 30%;">General Experience</th> <th style="width: 40%;">Relevant Experience</th> </tr> </thead> <tbody> <tr> <td>1. Project Manager (PM)</td> <td style="text-align: center;">N/A</td> <td>With a minimum of five (5) years relevant work experience as Project Manager in project construction</td> </tr> <tr> <td>2. Project Engineer (PE)</td> <td>Minimum of five (5) years experience as Licensed Civil Engineer</td> <td>With a minimum of five (5) construction projects handled as Project Engineer</td> </tr> <tr> <td>3. Materials Engineer (PE)</td> <td style="text-align: center;">Civil Engineer</td> <td>Duly accredited by DPWH as Materials Engineer I following D.O. 98, Series of 2016</td> </tr> <tr> <td>4. Safety Officer</td> <td style="text-align: center;">Accredited Safety Officer</td> <td>With a minimum of five (5) years relevant work experience as Safety Officer in project construction</td> </tr> <tr> <td>5. Foreman</td> <td></td> <td>With a minimum of five (5) years relevant work experience as project Foreman.</td> </tr> </tbody> </table>	Key Personnel	General Experience	Relevant Experience	1. Project Manager (PM)	N/A	With a minimum of five (5) years relevant work experience as Project Manager in project construction	2. Project Engineer (PE)	Minimum of five (5) years experience as Licensed Civil Engineer	With a minimum of five (5) construction projects handled as Project Engineer	3. Materials Engineer (PE)	Civil Engineer	Duly accredited by DPWH as Materials Engineer I following D.O. 98, Series of 2016	4. Safety Officer	Accredited Safety Officer	With a minimum of five (5) years relevant work experience as Safety Officer in project construction	5. Foreman		With a minimum of five (5) years relevant work experience as project Foreman.												
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10.5	The minimum major equipment requirements are the following: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Equipment</th> <th style="width: 30%;">Capacity</th> <th style="width: 40%;">Number of Units</th> </tr> </thead> <tbody> <tr> <td>Backhoe</td> <td style="text-align: center;">1.40 cum</td> <td style="text-align: center;">1 (Owned or Leased)</td> </tr> <tr> <td>Backhoe w/ Breaker</td> <td style="text-align: center;">1.40 cum</td> <td style="text-align: center;">1 (Owned or Leased)</td> </tr> <tr> <td>Dump Trucks</td> <td></td> <td style="text-align: center;">2 (Owned or Leased)</td> </tr> <tr> <td>Payloader</td> <td style="text-align: center;">1.50 cum</td> <td style="text-align: center;">1 (Owned or Leased)</td> </tr> <tr> <td>Truck Mounted Crane</td> <td></td> <td style="text-align: center;">1 (Owned or Leased)</td> </tr> <tr> <td>Motorized Road Grader</td> <td></td> <td style="text-align: center;">1 (Owned or Leased)</td> </tr> <tr> <td>Vibratory Roller</td> <td style="text-align: center;">10 mt</td> <td style="text-align: center;">1 (Owned or Leased)</td> </tr> <tr> <td>Water Truck</td> <td></td> <td style="text-align: center;">1 (Owned or Leased)</td> </tr> <tr> <td>Cargo Truck</td> <td style="text-align: center;">9-10 mt</td> <td style="text-align: center;">1 (Owned or Leased)</td> </tr> </tbody> </table>	Equipment	Capacity	Number of Units	Backhoe	1.40 cum	1 (Owned or Leased)	Backhoe w/ Breaker	1.40 cum	1 (Owned or Leased)	Dump Trucks		2 (Owned or Leased)	Payloader	1.50 cum	1 (Owned or Leased)	Truck Mounted Crane		1 (Owned or Leased)	Motorized Road Grader		1 (Owned or Leased)	Vibratory Roller	10 mt	1 (Owned or Leased)	Water Truck		1 (Owned or Leased)	Cargo Truck	9-10 mt	1 (Owned or Leased)
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12	None.
15.1	<p>The bid security shall be in the form of a Bid Securing Declaration or any of the following forms and amounts:</p> <p>a. The amount of not less than P4,400,000.00 [two percent (2%) of ABC], if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit;</p> <p>b. The amount of not less than P11,000,000.00 [five percent (5%) of ABC], if bid security is in Surety Bond.</p>
19.2	<p>Partial bid is not allowed. The infrastructure project is packaged in a single lot and the lot shall not be divided into sub-lots for the purpose of bidding, evaluation, and contract award.</p> <p>In all cases, the NFCC computation must be sufficient for the contract to be awarded to the Bidder.</p>
20	<p><i>Permits and Clearances as required.</i></p> <p><i>Post-Qualification Requirements: Latest Income Tax Returns, Business Tax Returns for the last 6 months.</i></p>
21	<p>1. Presentation of the Bidding Documents</p> <p>a. Envelope 1 (Eligibility/ Technical Documents) One (1) ORIGINAL COPY, another copy for COPY 1, and another copy for COPY 2.</p> <p>b. Envelope 2 (Financial Proposal) One (1) ORIGINAL COPY, another copy for COPY 1, and another copy for COPY 2.</p> <p>Such documents shall be duly signed by the bidders or its duly authorized representative/s.</p> <p>Eligibility/Technical and Financial Proposal must be book-bound and properly tabbed at the right side. Any documents submitted not book-bound shall be rejected outright. For the Financial Proposal not exceeding ten (10) pages maybe book bound or securely stapled.</p> <p>All copies must be properly marked (ORIGINAL COPY, COPY 1 AND COPY 2)</p> <p>Envelope 1 and Envelope 2 must be properly sealed, and will be placed in one sealed mother envelope.</p> <p>2. Other documents/materials to comply with other non-discretionary criteria and requirements as stated in the Instruction to Bidders:</p> <ul style="list-style-type: none"> - Construction Methods - Construction schedule and S-Curve - Pert-CPM - Manpower Utilization Schedule - Equipment Utilization Schedule - Construction Safety & Health Program - Affidavit of Site Inspection - Duly Notarized Certification as to compliance to Labor Laws and Standard <p>The DOLE approved Construction Safety and Health Program is required before entering into Contract.</p>

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SECTION IV.

GENERAL CONDITIONS OF CONTRACT

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General Conditions of Contract

1. Scope of Contract

This Contract shall include all such items, although not specifically mentioned, that can be reasonably inferred as being required for its completion as if such items were expressly mentioned herein. All the provisions of RA No. 9184 and its 2016 revised IRR, including the Generic Procurement Manual, and associated issuances, constitute the primary source for the terms and conditions of the Contract, and thus, applicable in contract implementation. Herein clauses shall serve as the secondary source for the terms and conditions of the Contract.

This is without prejudice to Sections 74.1 and 74.2 of the 2016 revised IRR of RA No. 9184 allowing the GPPB to amend the IRR, which shall be applied to all procurement activities, the advertisement, posting, or invitation of which were issued after the effectivity of the said amendment.

2. Sectional Completion of Works

If sectional completion is specified in the Special Conditions of Contract (SCC), references in the Conditions of Contract to the Works, the Completion Date, and the Intended Completion Date shall apply to any Section of the Works (other than references to the Completion Date and Intended Completion Date for the whole of the Works).

3. Possession of Site

3.1 The Procuring Entity shall give possession of all or parts of the Site to the Contractor based on the schedule of delivery indicated in the SCC, which corresponds to the execution of the Works. If the Contractor suffers delay or incurs cost from failure on the part of the Procuring Entity to give possession in accordance with the terms of this clause, the Procuring Entity's Representative shall give the Contractor a Contract Time Extension and certify such sum as fair to cover the cost incurred, which sum shall be paid by Procuring Entity.

3.2 If possession of a portion is not given by the above date, the Procuring Entity will be deemed to have delayed the start of the relevant activities. The resulting adjustments in contract time to address such delay may be addressed through contract extension provided under Annex "E" of the 2016 revised IRR of RA No. 9184.

4. The Contractor's Obligations

The Contractor shall employ the key personnel named in the Schedule of Key Personnel indicating their designation, in accordance with **ITB** Clause 10.3 and specified in the **BDS**, to carry out the supervision of the Works.

The Procuring Entity will approve any proposed replacement of key personnel only if their relevant qualifications and abilities are equal to or better than those of the personnel listed in the Schedule.

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5. Performance Security

5.1. Within ten (10) calendar days from receipt of the Notice of Award from the Procuring Entity but in no case later than the signing of the contract by both parties, the successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR.

5.2. The Contractor, by entering into the Contract with the Procuring Entity, acknowledges the right of the Procuring Entity to institute action pursuant to RA No. 3688 against any subcontractor be they an individual, firm, partnership, corporation, or association supplying the Contractor with labor, materials and/or equipment for the performance of this Contract.

6. Site Investigations

The Contractor, in preparing the Bid, shall rely on any Site Investigation Reports referred to in the SCC supplemented by any information obtained by the Contractor.

7. Warranty

7.1. In case the Contractor fails to undertake the repair works under Section 62.2.2 of the 2016 revised IRR, the Procuring Entity shall forfeit its performance security, subject its property(ies) to attachment or garnishment proceedings, and perpetually disqualify it from participating in any public bidding. All payables of the GOP in his favor shall be offset to recover the costs.

7.2. The warranty against Structural Defects/Failures, except that occasioned-on force majeure, shall cover the period from the date of issuance of the Certificate of Final Acceptance by the Procuring Entity. Specific duration of the warranty is found in the SCC.

8. Liability of the Contractor

Subject to additional provisions, if any, set forth in the SCC, the Contractor's liability under this Contract shall be as provided by the laws of the Republic of the Philippines.

If the Contractor is a joint venture, all partners to the joint venture shall be jointly and severally liable to the Procuring Entity.

9. Termination for Other Causes

Contract termination shall be initiated in case it is determined prima facie by the Procuring Entity that the Contractor has engaged, before, or during the implementation of the contract, in unlawful deeds and behaviors relative to contract acquisition and implementation, such as, but not limited to corrupt, fraudulent, collusive, coercive, and obstructive practices as stated in ITB Clause 4.

10. Dayworks

Subject to the guidelines on Variation Order in Annex "E" of the 2016 revised IRR of RA No. 9184, and if applicable as indicated in the SCC, the Dayworks rates in the Contractor's Bid shall be used for small additional amounts of work only when the Procuring Entity's Representative has given written instructions in advance for additional work to be paid for in that way.

11. Program of Work

11.1. The Contractor shall submit to the Procuring Entity's Representative for approval the said Program of Work showing the general methods, arrangements, order, and timing for all the activities in the Works. The submissions of the Program of Work are indicated in the SCC.

11.2. The Contractor shall submit to the Procuring Entity's Representative for approval an updated Program of Work at intervals no longer than the period stated in the SCC. If the Contractor does not submit an updated Program of Work within this period, the Procuring Entity's Representative may withhold the amount stated in the SCC from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Program of Work has been submitted.

12. Instructions, Inspections and Audits

The Contractor shall permit the GOP or the Procuring Entity to inspect the Contractor's accounts and records relating to the performance of the Contractor and to have them audited by auditors of the GOP or the Procuring Entity, as may be required.

13. Advance Payment

The Procuring Entity shall, upon a written request of the Contractor which shall be submitted as a Contract document, make an advance payment to the Contractor in an amount not exceeding fifteen percent (15%) of the total contract price, to be made in lump sum, or at the most two installments according to a schedule specified in the SCC, subject to the requirements in Annex "E" of the 2016 revised IRR of RA No. 9184.

14. Progress Payments

The Contractor may submit a request for payment for Work accomplished. Such requests for payment shall be verified and certified by the Procuring Entity's Representative/Project Engineer. Except as otherwise stipulated in the SCC, materials and equipment delivered on the site but not completely put in place shall not be included for payment.

15. Operating and Maintenance Manuals

15.1. If required, the Contractor will provide "as built" Drawings and/or operating and maintenance manuals as specified in the SCC.

15.2. If the Contractor does not provide the Drawings and/or manuals by the dates stated above, or they do not receive the Procuring Entity's Representative's approval, the Procuring Entity's Representative may withhold the amount stated in the SCC from payments due to the Contractor.

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SECTION V.

**SPECIAL CONDITIONS
OF CONTRACT**

H

Special Conditions of Contract

GCC Clause	
2	<i>The Intended Completion Date is Two Hundred Forty (240) calendar days upon receipt of the Notice to Proceed.</i>
4.1	<i>The Procuring Entity shall give possession in full the parts of the Site to the Contractor upon receipt of the Notice to Proceed.</i>
6	The site investigation reports are: Site Inspection Report
7.2	<i>[In case of semi-permanent structures, such as buildings of types 1, 2, and 3 as classified under the National Building Code of the Philippines, concrete/asphalt roads, concrete river control, drainage, irrigation lined canals, river landing, deep wells, rock causeway, pedestrian overpass, and other similar semi-permanent structures:] Five (5) years.</i>
10	a. Dayworks are applicable at the rate shown in the Contractor's original Bid.
11.1	"No further instruction."
11.2	"No further instruction."
13	The amount of the advance payment shall not exceed <i>Fifteen Percent (15%) of the total contract price to be recouped every progress billing.</i>
14	Materials and equipment delivered on the site but not completely put in place shall not be included for payment.
15.1	"No further instructions." The date by which "as built" drawings are required is <i>15 days prior turn-over and acceptance.</i>
15.2	"No further instructions."

Hi

SECTION VI.

SPECIFICATIONS

[See attached file.]

H.

Name of Project : IMPROVEMENT OF GOVERNOR DOUGLAS RA. CAGAS SPORTS COMPLEX AND BUSINESS CENTER SITE DEVELOPMENT (PHASE I)

Location : MATTI, DIGOS CITY, DAVAO DEL SUR

SPECIFICATIONS

<i>Item</i>	<i>Description</i>	<i>Unit</i>	<i>Quantity</i>
OTHER GENERAL REQUIREMENTS			
B.3	Permits and Clearances	L.S.	1.00
B.5	Project Billboard/Signboard	each	1.00
B.7 (1)	Occupational Safety and Health Program	months	8.00
B.9	Mobilization/Demobilization	L.S.	1.00
PART A. CONSTRUCTION OF GRANDSTAND AND ATHLETE'S BENCH			
801 (1)	Removal of Structures and Obstruction	L.S.	1.00
803 (1)a	Structure Excavation (Common Soil)	cu.m.	1,280.82
804 (7)	Gravel Fill	cu.m.	354.36
900 (1)	Structural Concrete, Class A, 3000 psi, 28 days	cu.m.	1,048.89
901 (1)	Lean Concrete (Ready Mix, 28 days)	cu.m.	132.96
902 (1)a1	Reinforcing Steel (Deformed) Grade 40/Grade 60	kg.	74,687.40
903 (1)	Formworks and Falseworks	L.S.	1.00
1000 (1)	Soil Poisoning	L	180.00
1001 (11)	Septic Vault/Tank, Concrete/CHB	L.S.	1.00
1002	Plumbing Works	L.S.	1.00
1003 (17)	Carpentry and Joinery Works, Phenolic Partition	L.S.	1.00
1003 (1)e1	Carpentry and Joinery Works, Gypsum Board Ceiling on Metal Frame	sq.m.	218.66
1008	Aluminum Glass Windows	sq.m.	14.77
1011(1)a	Roll-Up Door	set	30.00
1018(1)	Glazed Tiles and Trims	sq.m.	2,772.47
1027 (1)	Cement Plaster Finish	sq.m.	5,221.18
1032 (1)a	Painting Works, Masonry/Concrete	sq.m.	5,221.18
1043(1)	PVC Doors and Frames	sq.m.	13.55

Name of Project : IMPROVEMENT OF GOVERNOR DOUGLAS RA. CAGAS SPORTS
 COMPLEX AND BUSINESS CENTER SITE DEVELOPMENT (PHASE I)

Location : MATTI, DIGOS CITY, DAVAO DEL SUR

SPECIFICATIONS

<i>Item</i>	<i>Description</i>	<i>Unit</i>	<i>Quantity</i>
1046	150mm CHB Non-Load Bearing/Load Bearing (Inc. Reinforcing Steel)	sq.m.	2,610.59
1047 (1)	Structural Steel	L.S.	1.00
1051 (5)	Metal Railing	m	387.00
SPL - I	Polyurethane Sandwich Panel	L.S.	1.00
SPL - II	Electrical works and Ventilating Equipment	L.S.	1.00
SPL - III	Bleachers	each	2,316.00
SPL - IV	Epoxy Flooring	L.S.	1.00
PART B. EMBANKMENT			
104(2)a	Embankment from Borrow	cu.m.	37,273.20
PART C. IMPROVEMENT OF OPEN CANAL DRAINAGE AND INSTALLATION OF SINGLE BARREL BOX CULVERT			
404	Reinforcing Steel Bar, Grade 40/Grade 60	kg	12,418.23
405(1)a3	Structural Concrete, Class A, 3000 psi, 28 days	cu.m.	40.08
407 (8)	Lean Concrete, Class B	cu.m.	6.82
506	Stone Masonry (Lined Canal)	cu.m.	1,665.00
PART D. CONSTRUCTION OF OUTDOOR BASKETBALL COURT			
801 (1)	Removal of Structures and Obstruction	L.S.	1.00
803 (1)a	Structure Excavation (Common Soil)	cu.m.	90.44
804 (7)	Gravel Fill	cu.m.	214.32
900 (1)	Structural Concrete, Class A, 3000 psi, 28 days	cu.m.	324.08
901 (1)	Lean Concrete (Ready Mix, 28 days)	cu.m.	106.16
902 (1)a1	Reinforcing Steel (Deformed) Grade 40/Grade 60	kg.	15,845.80
903 (2)	Formworks and Falseworks	sq.m.	35.28
1000 (1)	Soil Poisoning	L	136.00
1013 (5)	Corrugated Asphalt Roofing	sq.m.	360.62

Name of Project : **IMPROVEMENT OF GOVERNOR DOUGLAS RA. CAGAS SPORTS COMPLEX AND BUSINESS CENTER SITE DEVELOPMENT (PHASE I)**

Location : **MATTI, DIGOS CITY, DAVAO DEL SUR**

SPECIFICATIONS

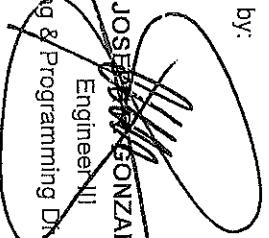
<i>Item</i>	<i>Description</i>	<i>Unit</i>	<i>Quantity</i>
1027 (1)	Cement Plaster Finish	sq.m.	178.60
1032 (1)a	Painting Works, Masonry/Concrete	sq.m.	2,218.60
1046	150mm CHB Non-Load Bearing/Load Bearing (Inc. Reinforcing Steel)	sq.m.	150.40
1047 (1)	Structural Steel	L.S.	1.00

NOTE: Specifications shall be in accordance with the DPWH Standard Specifications for Highways, Bridges, and Airport Volume II 2013 and DPWH Standard Specifications for Public Works Structures Volume III 2019


Prepared by:


JOSEPH RYAN B. REDOLOSO
Engineer II

Reviewed by:


JOSEFA M. GONZALES
Engineer III
Planning & Programming Division Head

Approved by:


LEONERL MARCH P. SUARIO
Provincial Engineer

SECTION VII.

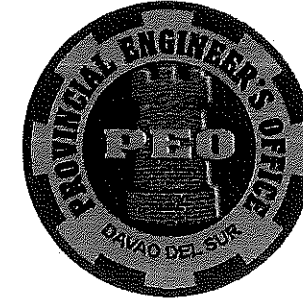
DRAWINGS

[The Detailed Engineering Design is available at the Provincial Government of Davao del Sur, Procurement Management Office, Office of the BAC Secretariat for Infrastructure Projects, Room 16, Executive Building of Provincial Capitol, Mati, Digos City, upon purchase of the corresponding bidding documents.]

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REPUBLIC OF THE PHILIPPINES
PROVINCE OF DAVAO DEL SUR
MATTI, DIGOS CITY, DAVAO DEL SUR
PROVINCIAL ENGINEER'S OFFICE
SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR



DETAILED ARCHITECTURAL & ENGINEERING DESIGN

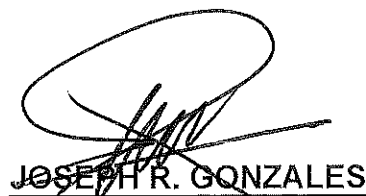
**IMPROVEMENT OF GOVERNOR DOUGLAS RALOTA CAGAS
SPORT COMPLEX AND BUSINESS CENTER
SITE DEVELOPMENT (PHASE I)**

MATTI, DIGOS CITY, DAVAO DEL SUR

Brief Project Description:

Construction of Grandstand
Construction of Athlete's Bench
Improvement of Open Canal Drainage and Construction of Single Barrel Box Culvert
Construction of Outdoor Basketball Court

SUBMITTED:


JOSEPH R. GONZALES

ENGINEER III
Planning and Programming Division Head

RECOMMENDING APPROVAL:


LEONERL MARCH P. SUARIO

Provincial Engineer

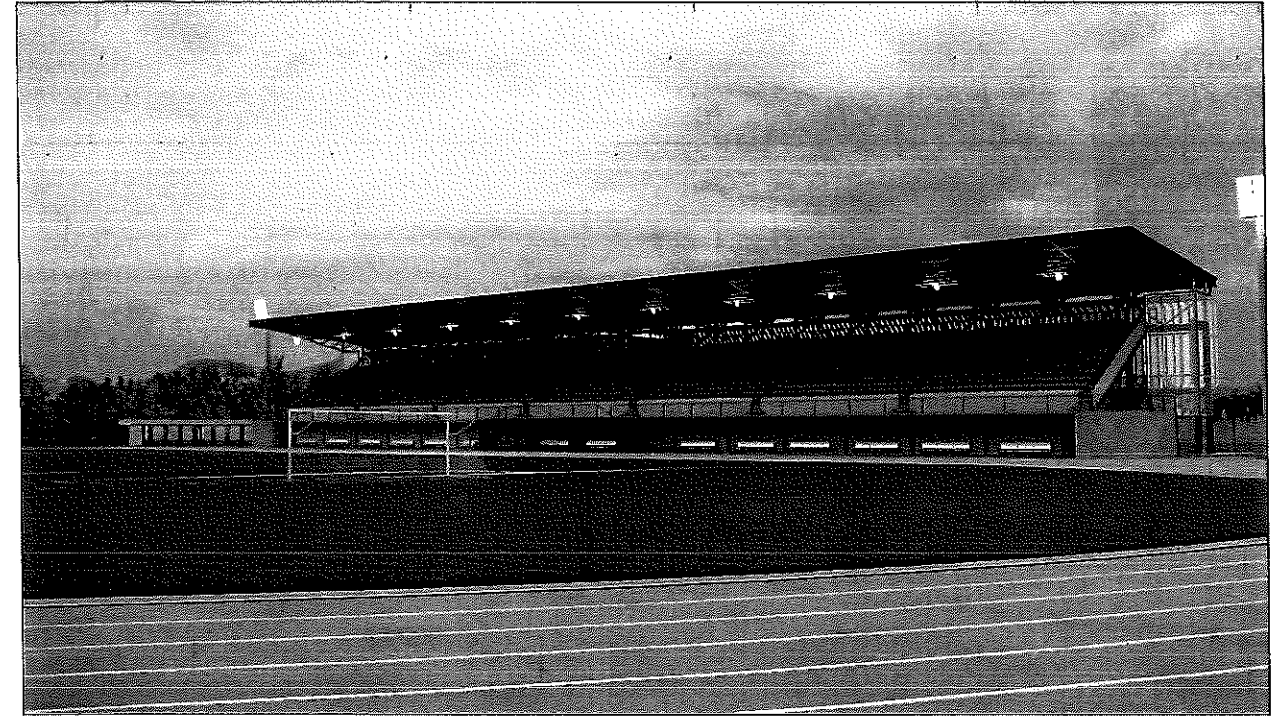
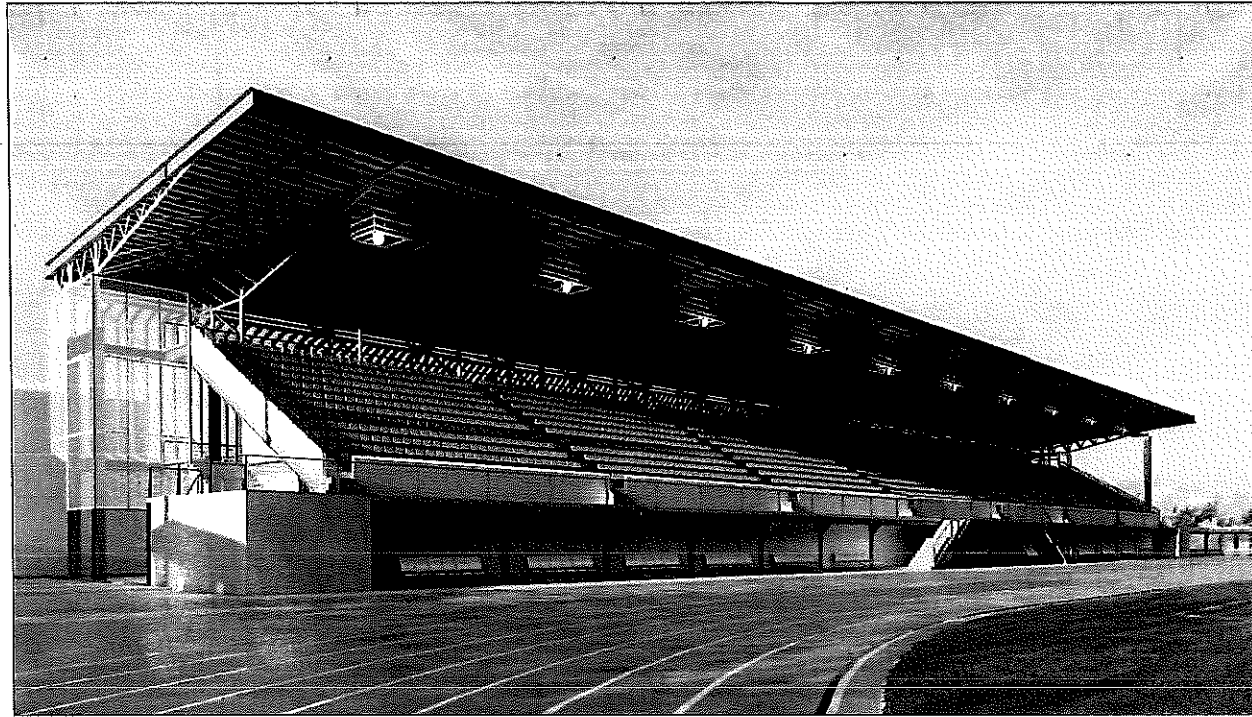
APPROVED:


YVONNE RONA CAGAS
Provincial Governor

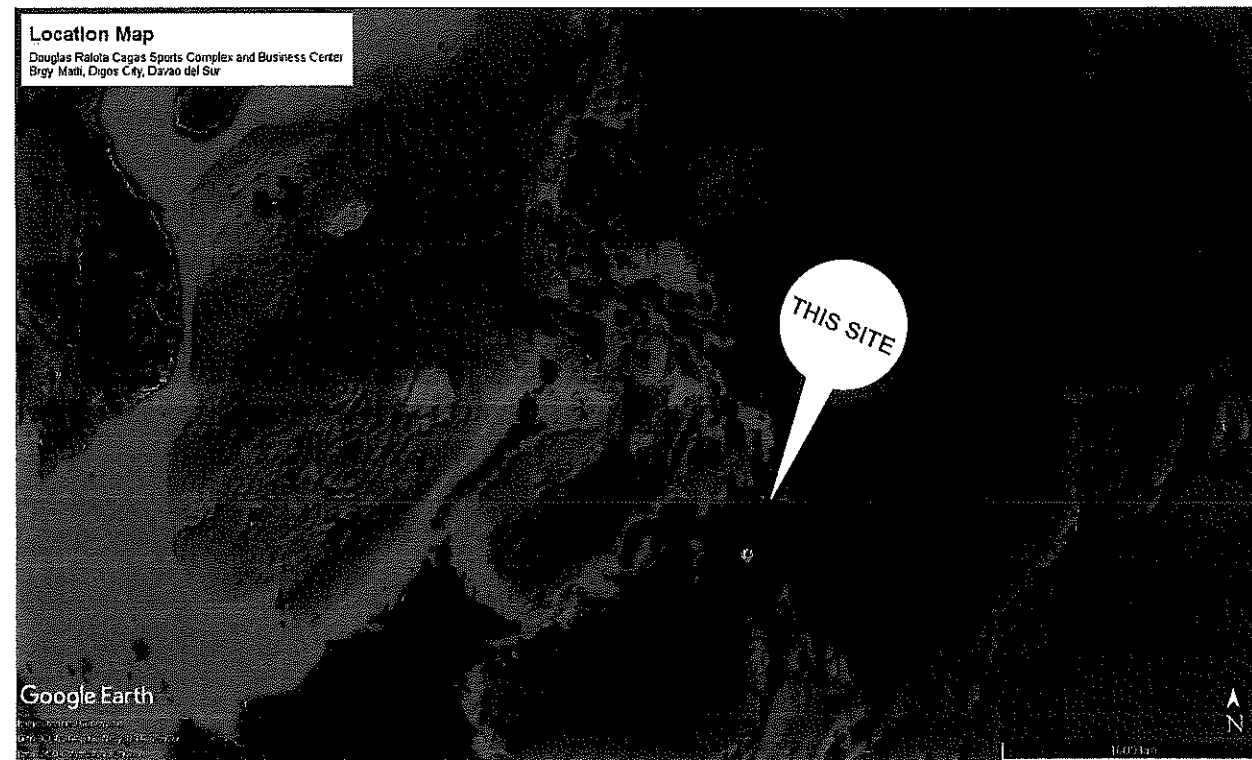
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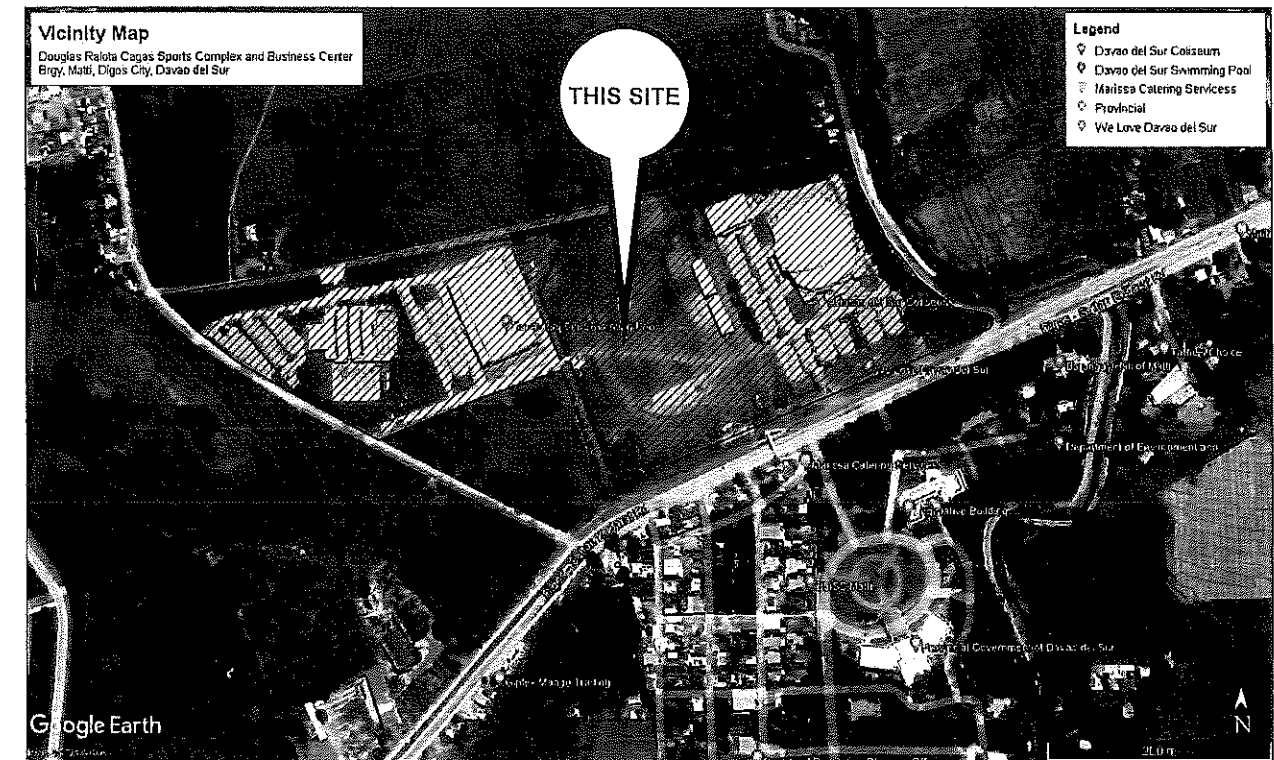
Construction of Grandstand



PERSPECTIVE
SCALE DNTS



LOCATION MAP
SCALE DNTS



VICINITY MAP
SCALE DNTS



SCAN FOR LOCATION
Douglas Ralota Cagas Sports Complex and Business Center
Brgy. Matti, Digos City, Davao del Sur
Latitude: 6°46'7.15"N
Longitude: 125°18'15.70"E

REPUBLIC OF THE PHILIPPINES
PROVINCIAL ENGINEER'S OFFICE
SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR

PROJECT TITLE:
**IMPROVEMENT OF GOVERNOR DOUGLAS RALOTA CAGAS
SPORTS COMPLEX AND BUSINESS CENTER SITE
DEVELOPMENT (PHASE I)**

LOCATION:
MATTI, DIGOS CITY, DAVAO DEL SUR

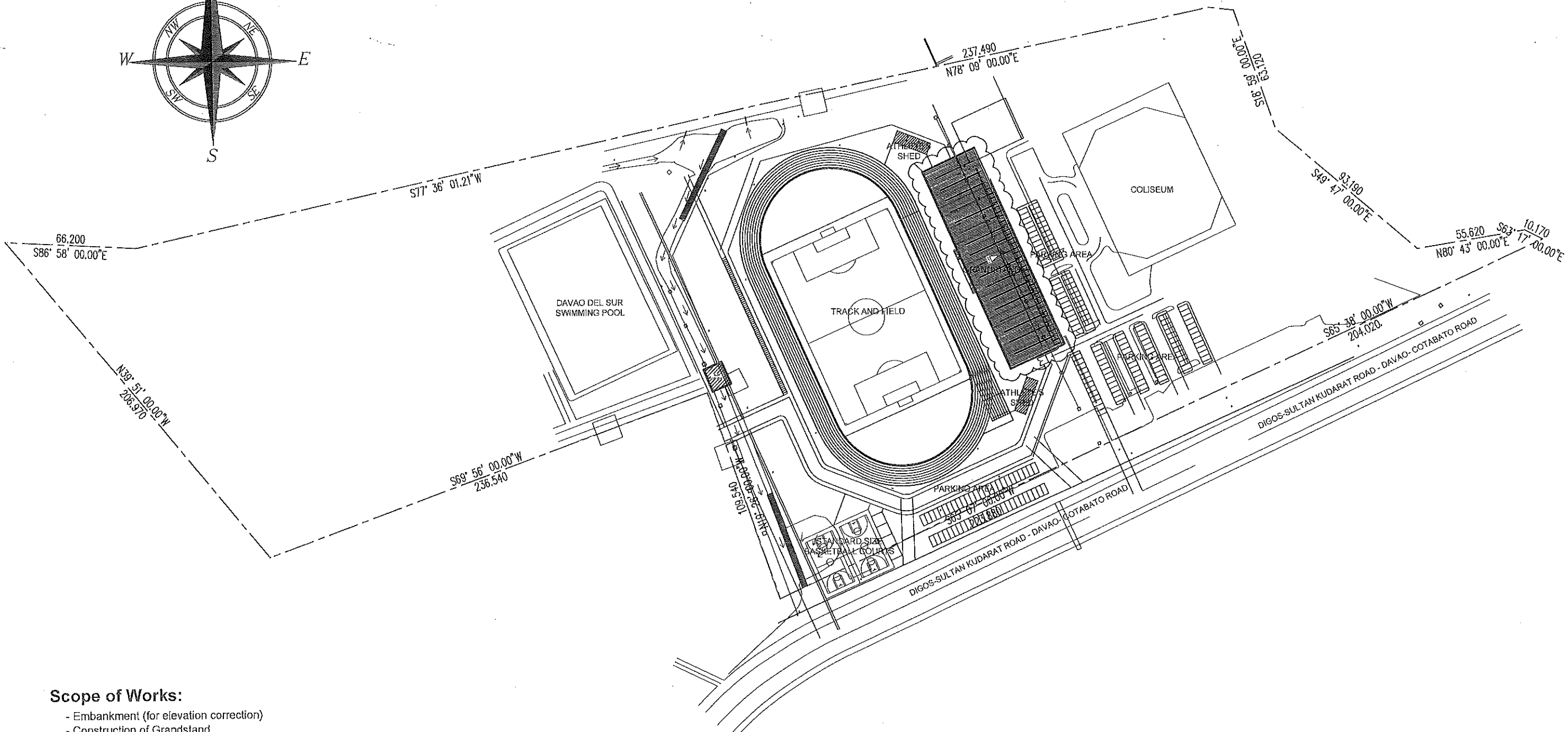
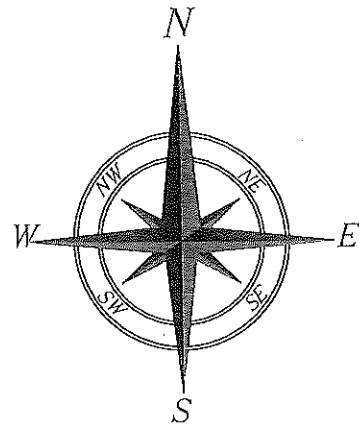
DESIGNED & PREPARED BY:
JOSEPH RYAN B. REDOLOSO
ENGINEER II

REVIEWED BY:
JOSEPH R. GONZALES
ENGINEER III
Planning and Programming Division Head

RECOMMENDING APPROVAL:
LEONERIL MARCH P. SUARIO
Provincial Engineer

APPROVED BY:
YVONNE ROMA CAGAS
Provincial Governor


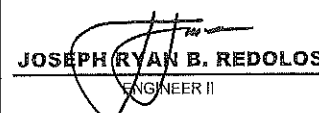
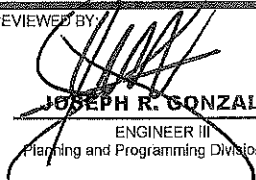
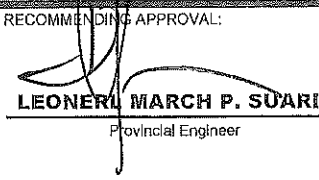
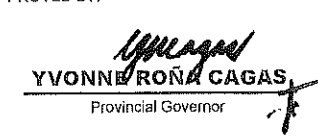
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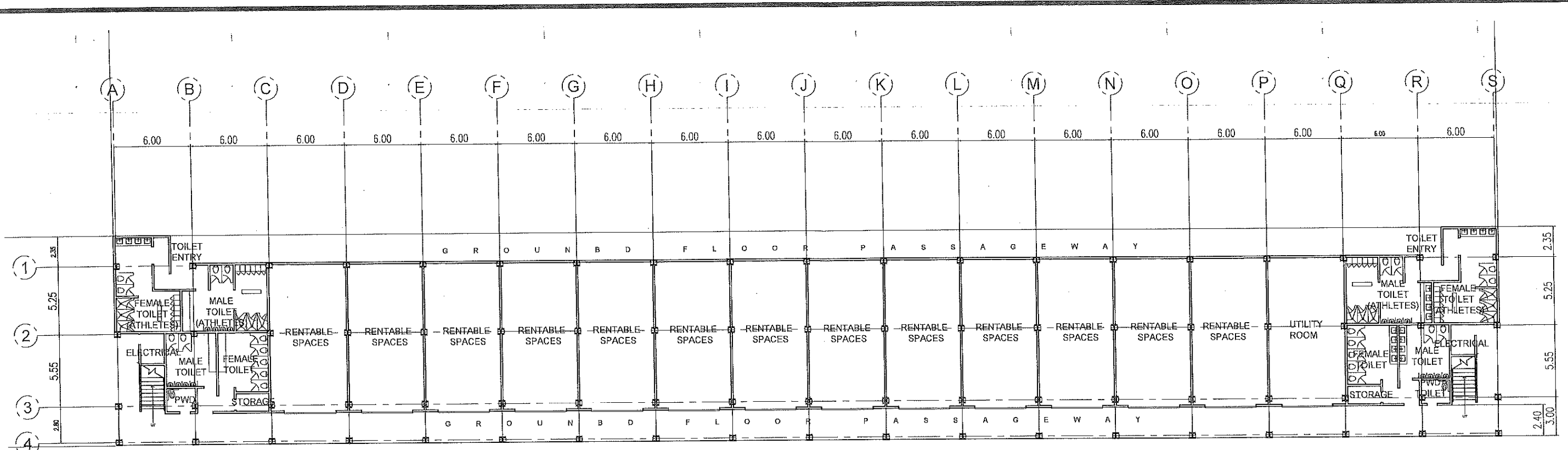


Scope of Works:

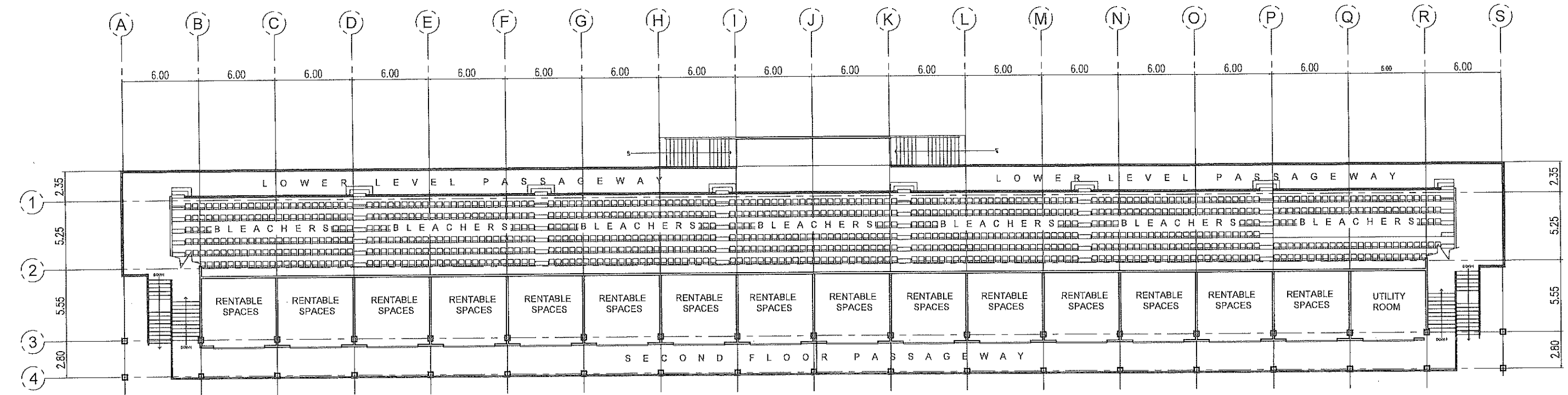
- Embankment (for elevation correction)
- Construction of Grandstand
- Construction of Athlete's Bench

SITE DEVELOPMENT PLAN
SCALE DNTS

 REPUBLIC OF THE PHILIPPINES PROVINCIAL ENGINEER'S OFFICE SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR	PROJECT TITLE: IMPROVEMENT OF GOVERNOR DOUGLAS RALOTA CAGAS SPORTS COMPLEX AND BUSINESS CENTER SITE DEVELOPMENT (PHASE I)	DESIGNED & PREPARED BY:  JOSEPH RYAN B. REDOLOSO ENGINEER II	REVIEWED BY:  JOSEPH R. GONZALES ENGINEER III Planning and Programming Division Head	RECOMMENDING APPROVAL:  LEONER MARCH P. SUARIO Provincial Engineer	APPROVED BY:  YVONNE RONA CAGAS Provincial Governor	A - 2 02 65
	LOCATION: MATTI, DIGOS CITY, DAVAO DEL SUR					



GROUND FLOOR PLAN
SCALE DNTS



SECOND FLOOR PLAN
SCALE DNTS



REPUBLIC OF THE PHILIPPINES
PROVINCIAL ENGINEER'S OFFICE
SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR

PROJECT TITLE:
**IMPROVEMENT OF GOVERNOR DOUGLAS RALOTA CAGAS
SPORTS COMPLEX AND BUSINESS CENTER SITE
DEVELOPMENT (PHASE I)**

LOCATION:
MATTI, DIGOS CITY, DAVAO DEL SUR

DESIGNED & PREPARED BY:

JOSEPH RYAN B. REDOLOSO
ENGINEER II

REVIEWED BY:

JOSEPH R. GONZALES
ENGINEER III
Planning and Programming Division Head

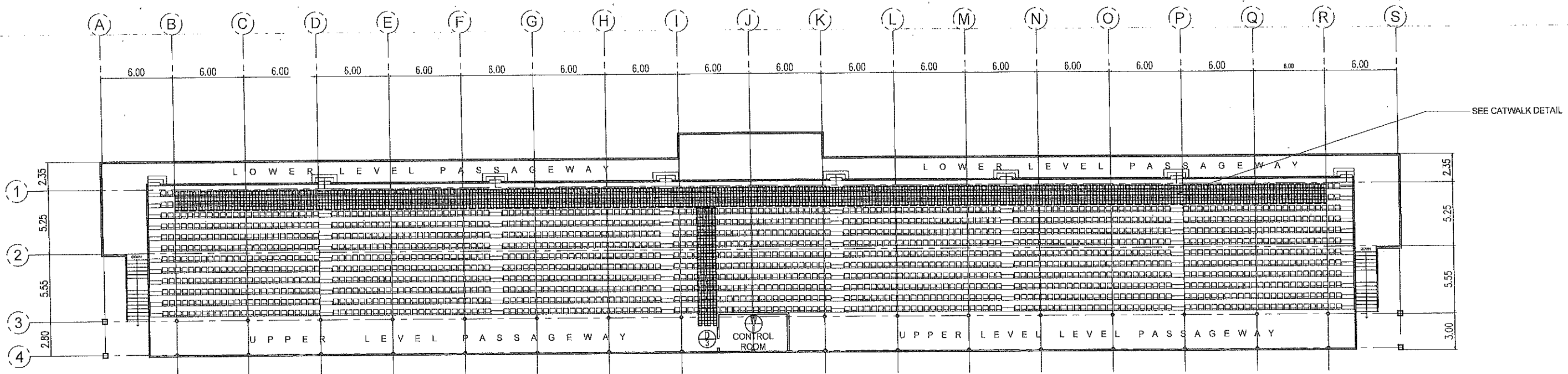
RECOMMENDING APPROVAL:

LEONERL MARCH P. SUARION
Provincial Engineer

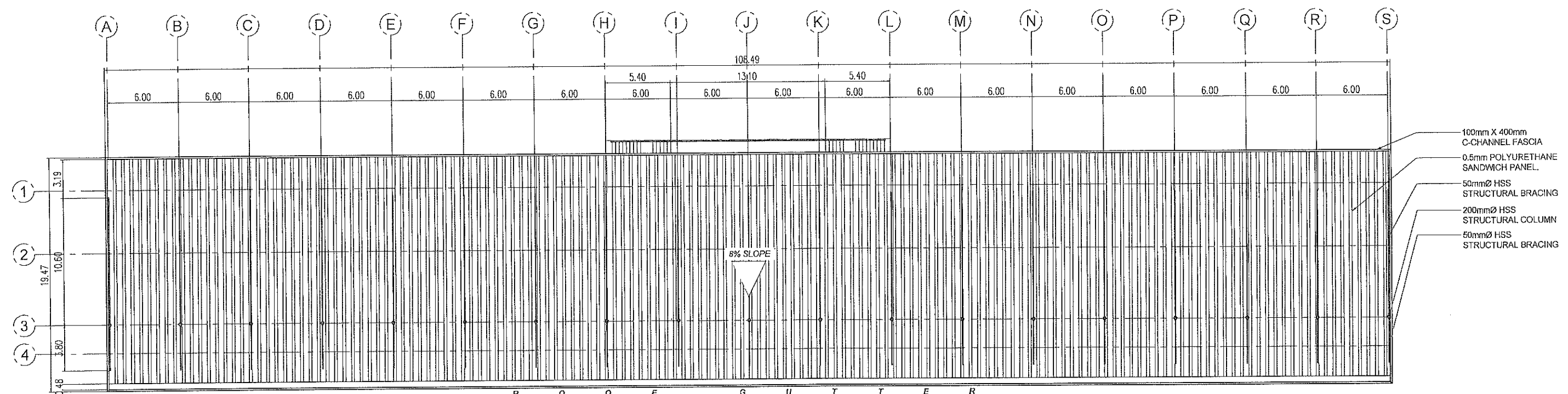
APPROVED BY:

YVONNE RODA CAGAS
Provincial Governor

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03 65



UPPER LEVEL FLOOR PLAN
SCALE DNTS



ROOF PLAN
SCALE DNTS



REPUBLIC OF THE PHILIPPINES
PROVINCIAL ENGINEER'S OFFICE
SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR

PROJECT TITLE:
**IMPROVEMENT OF GOVERNOR DOUGLAS RALOTA CAGAS
SPORTS COMPLEX AND BUSINESS CENTER SITE
DEVELOPMENT (PHASE I)**

LOCATION:
MATTI, DIGOS CITY, DAVAO DEL SUR

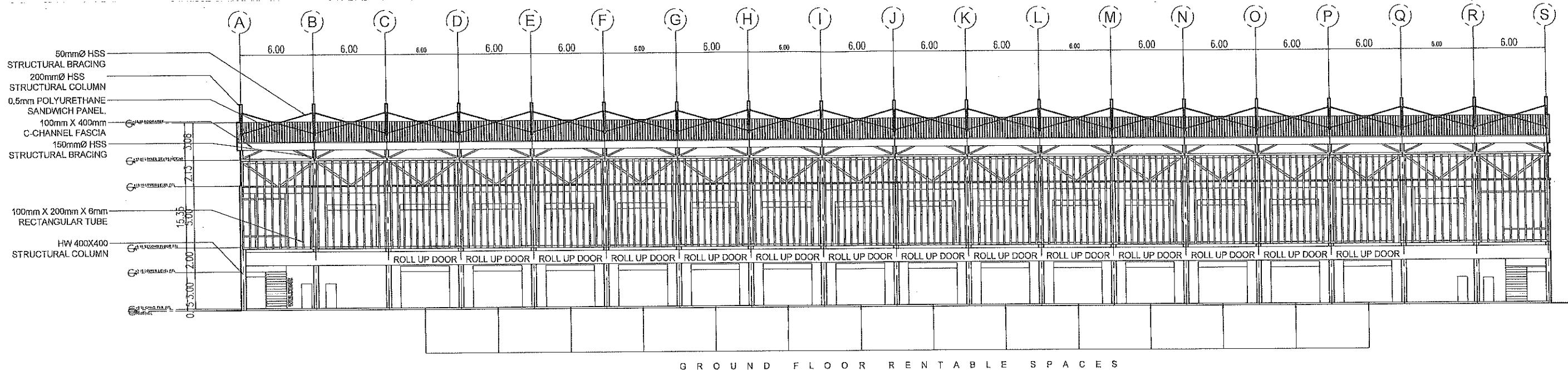
DESIGNED & PREPARED BY:
JOSEPH RYAN B. REDOLOSO
ENGINEER II

REVIEWED BY:
JOSEPH R. GONZALES
ENGINEER III
Planning and Programming Division Head

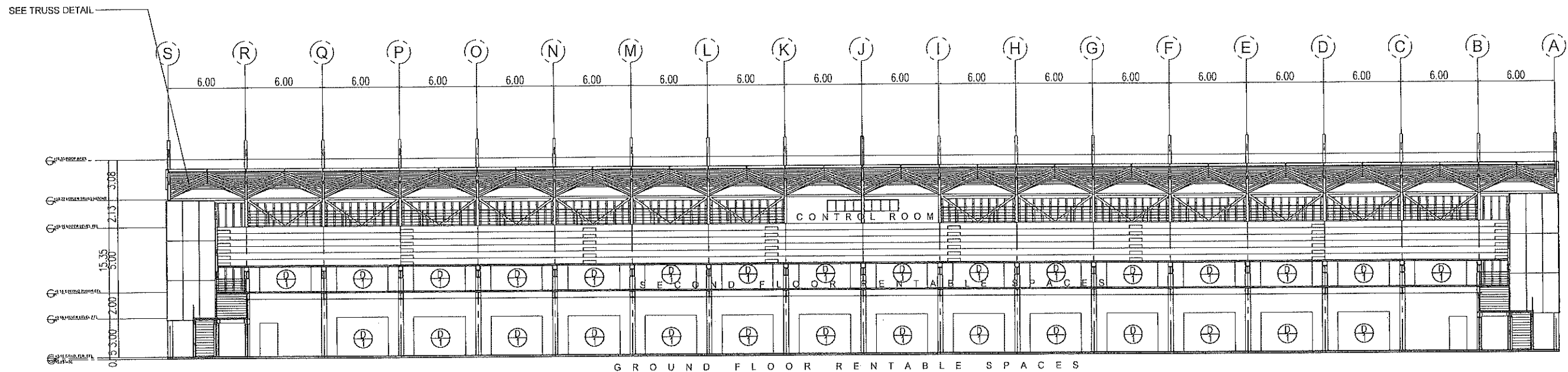
RECOMMENDING APPROVAL:
LEONERL MARCH P. SUARIO
Provincial Engineer

APPROVED BY:
YVONNE ROÑA CAGAS
Provincial Governor

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04 65



REAR ELEVATION
SCALE DNTS



LONGITUDINAL SECTION
SCALE DNTS



REPUBLIC OF THE PHILIPPINES
PROVINCIAL ENGINEER'S OFFICE
SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR

PROJECT TITLE:
**IMPROVEMENT OF GOVERNOR DOUGLAS RALOTA CAGAS
SPORTS COMPLEX AND BUSINESS CENTER SITE
DEVELOPMENT (PHASE I)**

LOCATION:
MATTI, DIGOS CITY, DAVAO DEL SUR

DESIGNED & PREPARED BY:

JOSEPH RYAN B. REDOLOSO
ENGINEER II

REVIEWED BY:

JOSEPH R. GONZALES
ENGINEER III
Planning and Programming Division Head

RECOMMENDING APPROVAL:

LEONERL MARCH P. SUARIO
Provincial Engineer

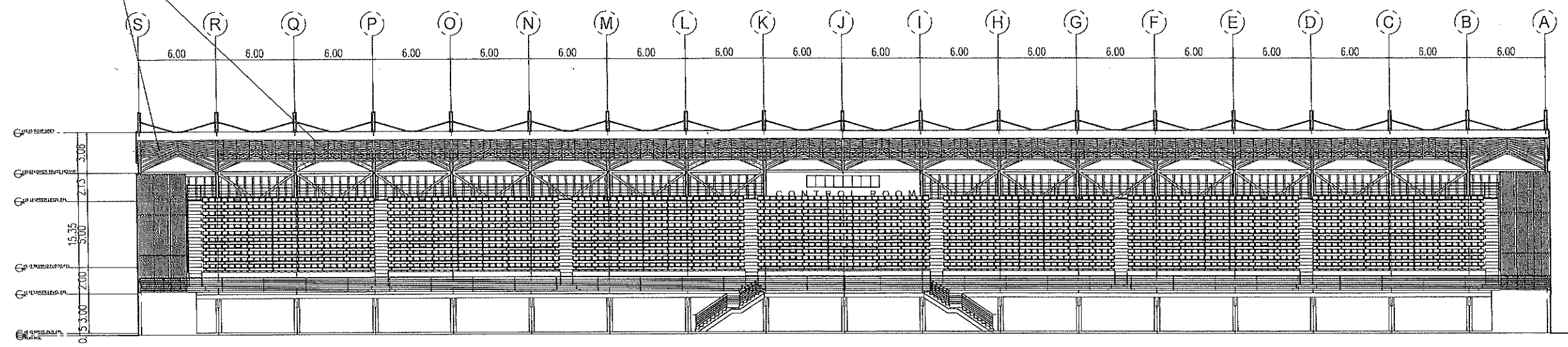
APPROVED BY:

YVONNE RONA CAGAS
Provincial Governor

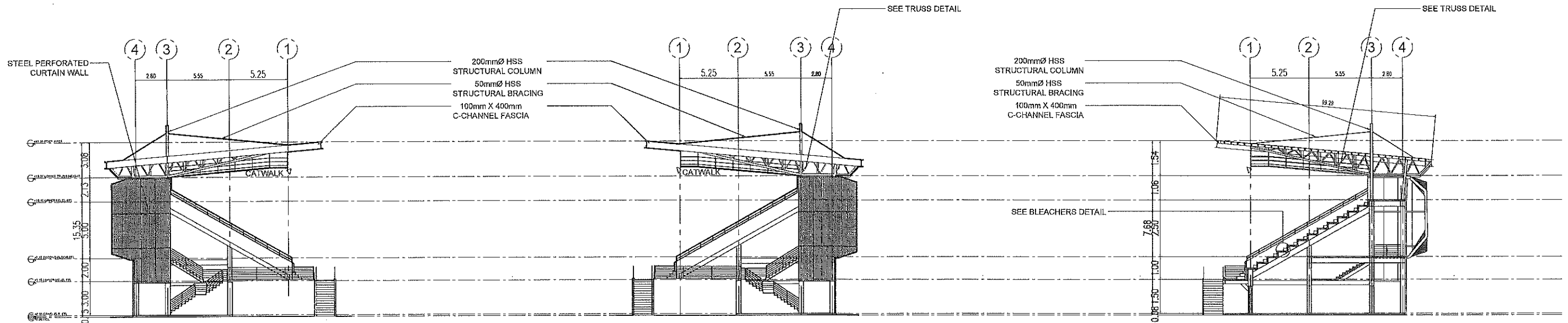
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SEE CATWALK DETAIL
SEE TRUSS DETAIL



FRONT ELEVATION
SCALE DNTS



LEFT SIDE ELEVATION
SCALE DNTS

RIGHT SIDE ELEVATION
SCALE DNTS

CROSS SECTION
SCALE DNTS

REPUBLIC OF THE PHILIPPINES
PROVINCIAL ENGINEER'S OFFICE
SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR

PROJECT TITLE:
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DEVELOPMENT (PHASE I)**

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MATTI, DIGOS CITY, DAVAO DEL SUR

DESIGNED & PREPARED BY:
JOSEPH RYAN B. REDOLOSO
ENGINEER II

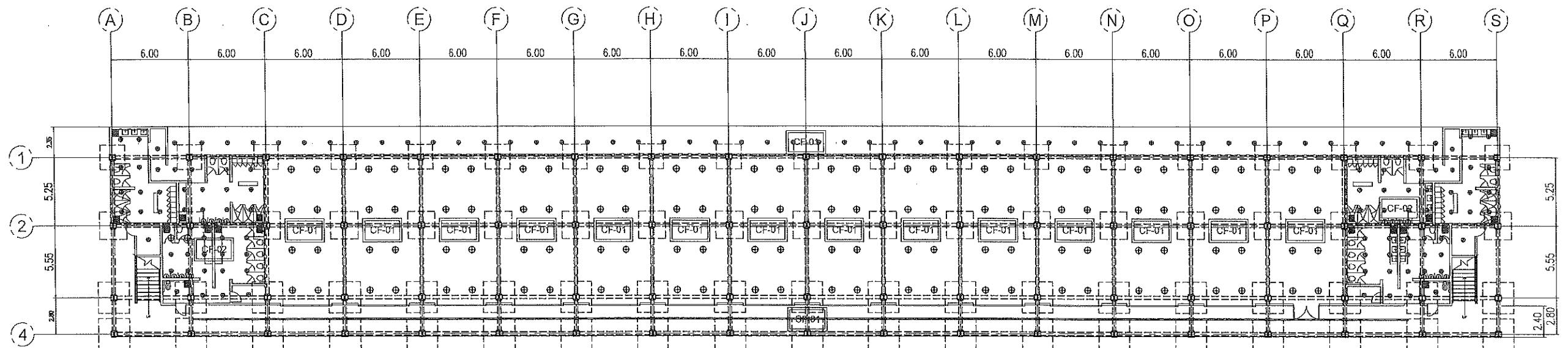
REVIEWED BY:
JOSEPH R. GONZALES
ENGINEER III
Planning and Programming Division Head

RECOMMENDING APPROVAL:
LEONERL MARCH P. SUARIO
Provincial Engineer

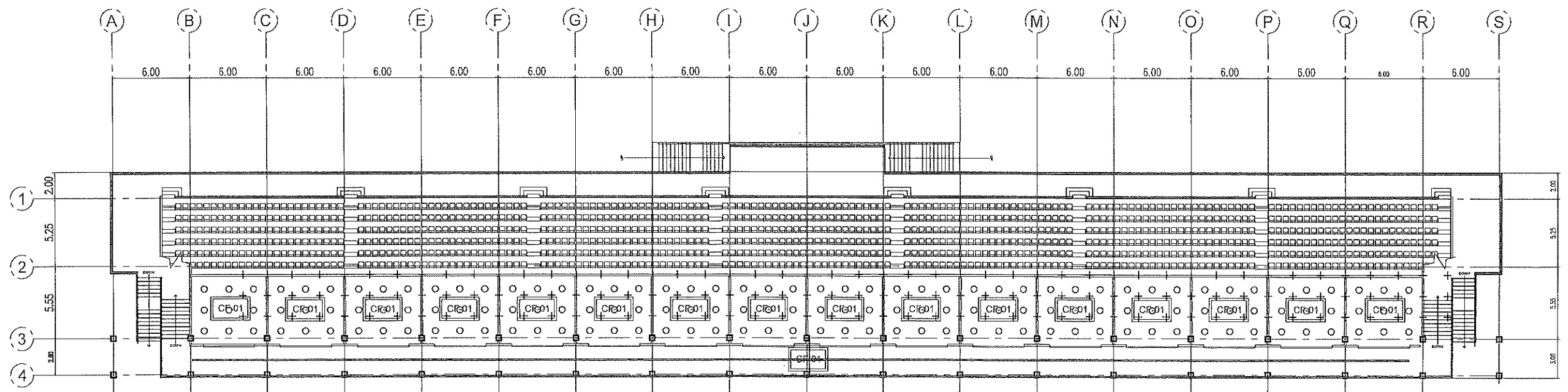
APPROVED BY:
YVONNE ROÑA CAGAS
Provincial Governor

A - 6
06 65

LEGEND:	
	18 WATTS LED PANEL LIGHT
	9 WATTS LED PANEL LIGHT
	9 WATTS COVERED T8 LED TUBE LIGHT
	500 WATT LED STADIUM LIGHT IP65 LED ARENA LIGHTS 8500K HIGH MAST LIGHT
	GRANDSTAND 100WATTS INDIRECT LIGHTING IP66 FLOOD LIGHT
	10" CEILING MOUNTED EXHAUST FAN
	OPEN / EXPOSED CEILING
	12mm THK. MOISTURE RESISTANT GYPSUM BOARD



**GROUND FLOOR
REFLECTED CEILING PLAN**
SCALE DNTS



**SECOND FLOOR
REFLECTED CEILING PLAN**
SCALE DNTS



REPUBLIC OF THE PHILIPPINES
PROVINCIAL ENGINEER'S OFFICE
SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR

PROJECT TITLE:
**IMPROVEMENT OF GOVERNOR DOUGLAS RALOTA CAGAS
SPORTS COMPLEX AND BUSINESS CENTER SITE
DEVELOPMENT (PHASE I)**

LOCATION:
MATTI, DIGOS CITY, DAVAO DEL SUR

DESIGNED & PREPARED BY:

JOSEPH RYAN B. REDOLOSO
ENGINEER II

REVIEWED BY:

JOSEPH R. GONZALES
ENGINEER III
Planning and Programming Division Head

RECOMMENDING APPROVAL:

LEONERL MARCH P. SUARIO
Provincial Engineer

APPROVED BY:

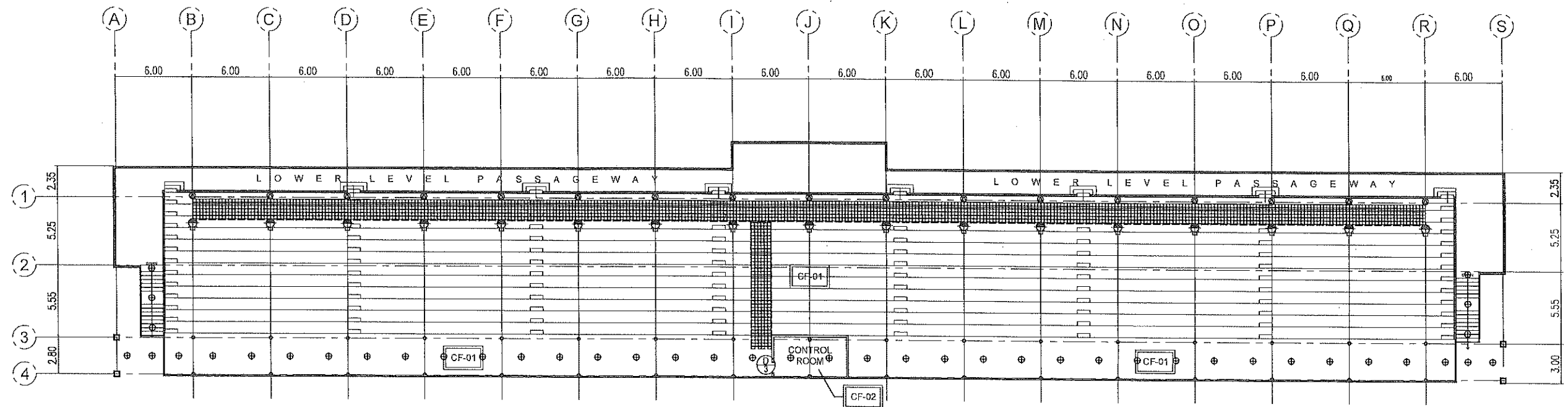
YVONNE ROÑA CAGAS
Provincial Governor

A - 7

07 65

LEGEND:

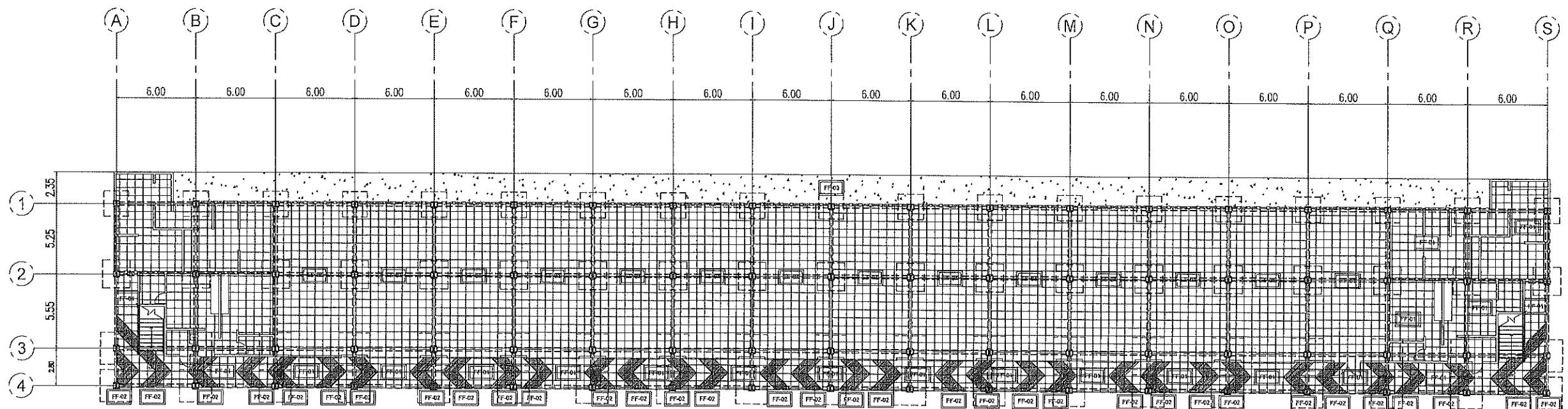
	18 WATTS LED PANEL LIGHT
	9 WATTS LED PANEL LIGHT
	9 WATTS COVERED T8 LED TUBE LIGHT
	500 WATT LED STADIUM LIGHT IP65 LED ARENA LIGHTS 8500K HIGH MAST LIGHT
	GRANDSTAND 100WATTS INDIRECT LIGHTING IP65 FLOOD LIGHT
	10' CEILING MOUNTED EXHAUST FAN
	OPEN / EXPOSED CEILING
	12mm THK. MOISTURE RESISTANT GYPSUM BOARD



UPPER LEVEL REFLECTED CEILING PLAN
SCALE DNTS

LEGEND:

	60cmX60cm GLOSSY PEARL WHITE TILES
	60cmX60cm GLOSSY GRAY TILES
	PLAIN CONCRETE FINISH



GROUND FLOOR FLOOR FINISH LAY-OUT
SCALE DNTS



REPUBLIC OF THE PHILIPPINES
PROVINCIAL ENGINEER'S OFFICE
SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR

PROJECT TITLE:
IMPROVEMENT OF GOVERNOR DOUGLAS RALOTA CAGAS SPORTS COMPLEX AND BUSINESS CENTER SITE DEVELOPMENT (PHASE I)

LOCATION:
WATTI, DIGOS CITY, DAVAO DEL SUR

DESIGNED & PREPARED BY:

JOSEPH RYAN B. REDOLOSO
ENGINEER II

REVIEWED BY:

JOSEPH R. GONZALES
ENGINEER III
Planning and Programming Division Head

RECOMMENDING APPROVAL:

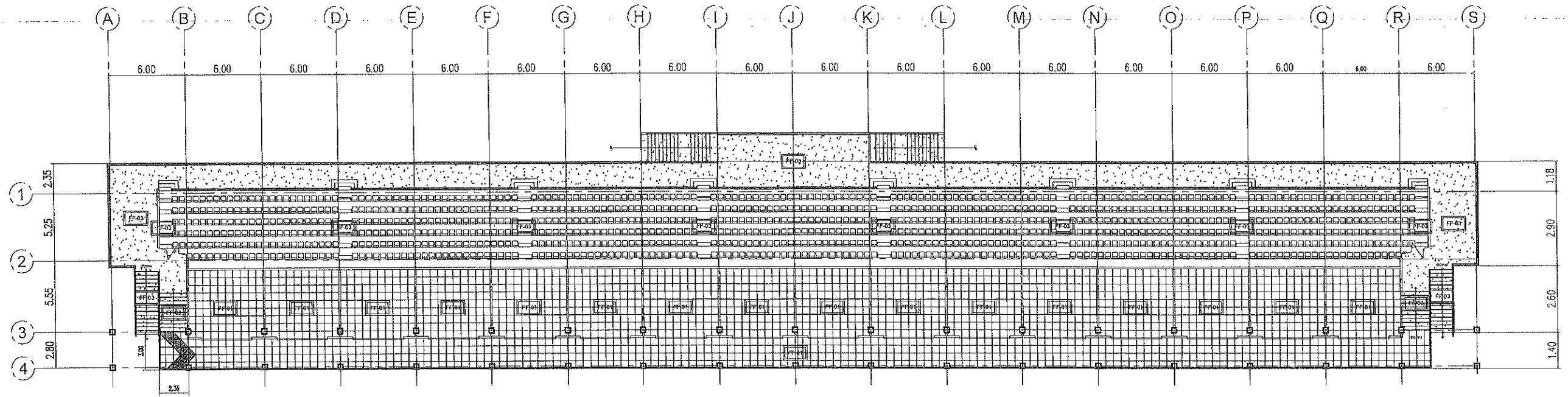
LEONERL MARCH P. SUARIO
Provincial Engineer

APPROVED BY:

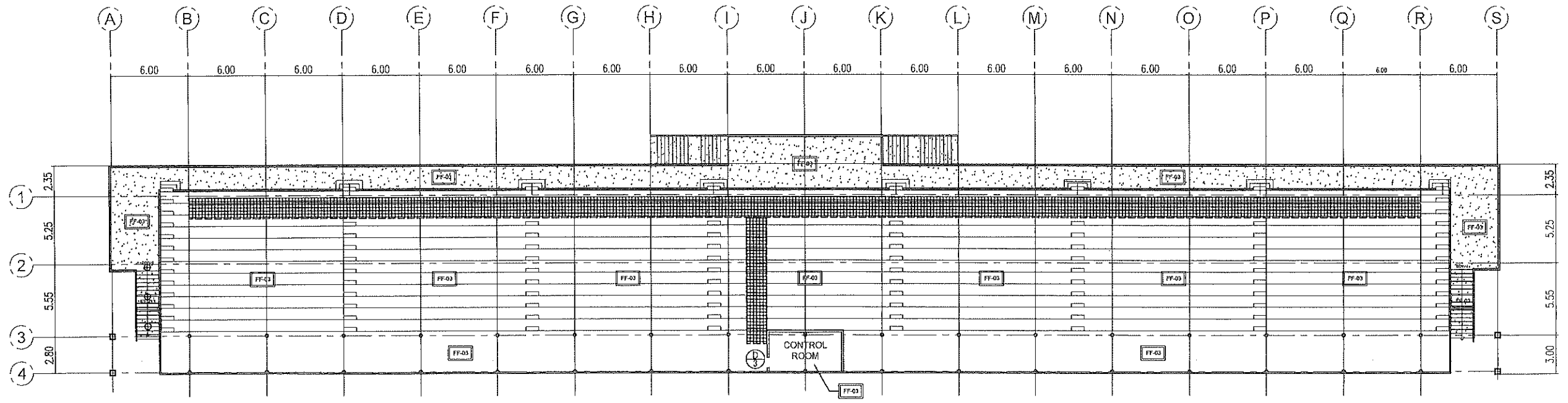
YVONNE ROSA CAGAS
Provincial Governor

A - 8

08 65



**SECOND FLOOR
FLOOR FINISH LAY-OUT**
SCALE DNTS



**UPPER LEVEL
FLOOR FINISH LAY-OUT**
SCALE DNTS

LEGEND:

FF-01	60cmX60cm GLOSSY PEARL WHITE TILES
FF-02	60cmX60cm GLOSSY GRAY TILES
FF-03	PLAIN CONCRETE FINISH



REPUBLIC OF THE PHILIPPINES
PROVINCIAL ENGINEER'S OFFICE
SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR

PROJECT TITLE:
**IMPROVEMENT OF GOVERNOR DOUGLAS RALOTA CAGAS
SPORTS COMPLEX AND BUSINESS CENTER SITE
DEVELOPMENT (PHASE I)**

LOCATION:
MATTI, DIGOS CITY, DAVAO DEL SUR

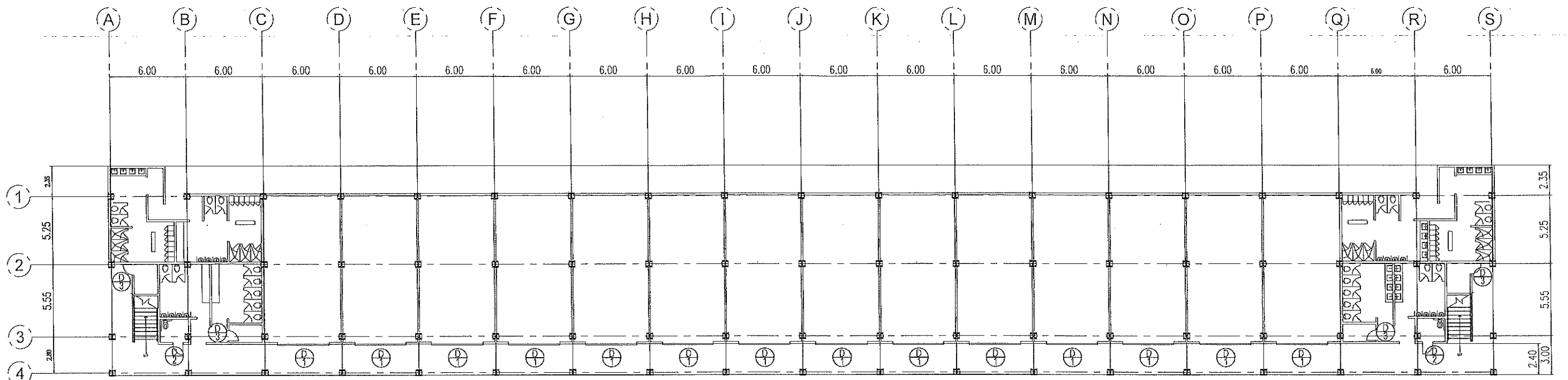
DESIGNED & PREPARED BY:
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ENGINEER II

REVIEWED BY:
JOSEPH R. GONZALES
ENGINEER III
Planning and Programming Division Head

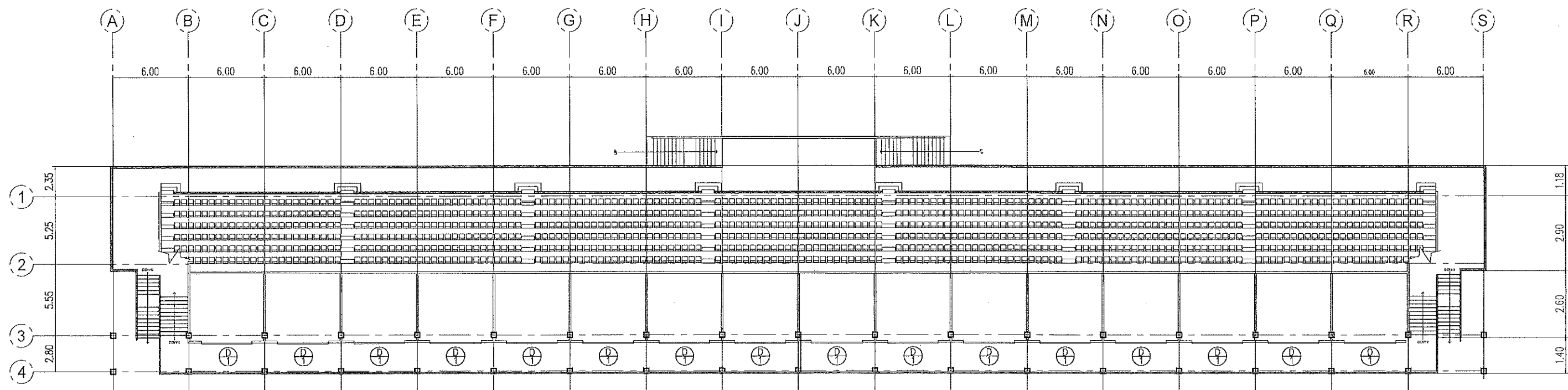
RECOMMENDING APPROVAL:
LEONERL MARCH P. SUARIO
Provincial Engineer

APPROVED BY:
YVONNE ROMA CAGAS
Provincial Governor

A - 9
09 65



**GROUND FLOOR
DOOR SCHEDULE PLAN**
SCALE DNTS



**SECOND FLOOR
DOOR SCHEDULE PLAN**
SCALE DNTS



REPUBLIC OF THE PHILIPPINES
PROVINCIAL ENGINEER'S OFFICE
SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR

PROJECT TITLE:
**IMPROVEMENT OF GOVERNOR DOUGLAS RALOTA CAGAS
SPORTS COMPLEX AND BUSINESS CENTER SITE
DEVELOPMENT (PHASE I)**

LOCATION:
MATTI, DIGOS CITY, DAVAO DEL SUR

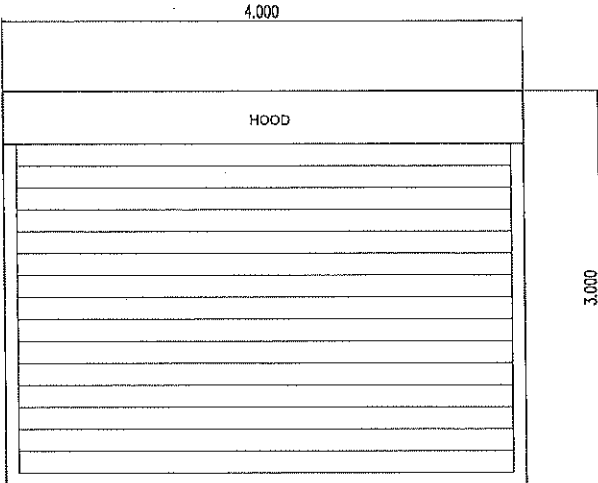
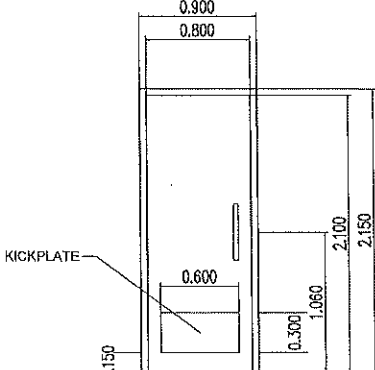
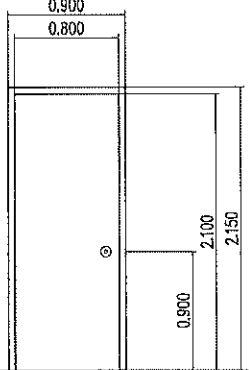
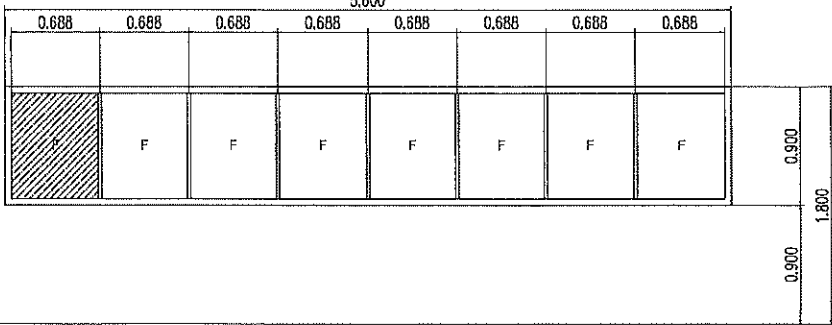
DESIGNED & PREPARED BY:
JOSEPH RYAN B. REDOLOSO
ENGINEER II

REVIEWED BY:
JOSEPH R. GONZALES
ENGINEER III
Planning and Programming Division Head



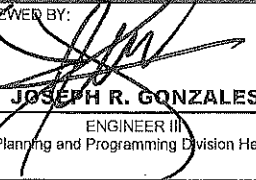


RECOMMENDING APPROVAL:
LEONERL MARCH P. SUARIO
Provincial Engineer

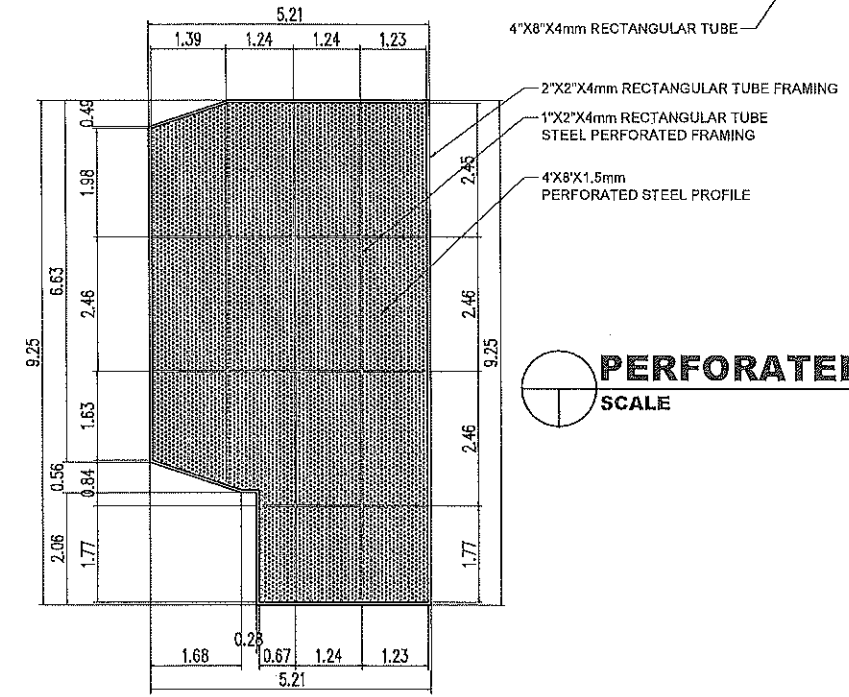
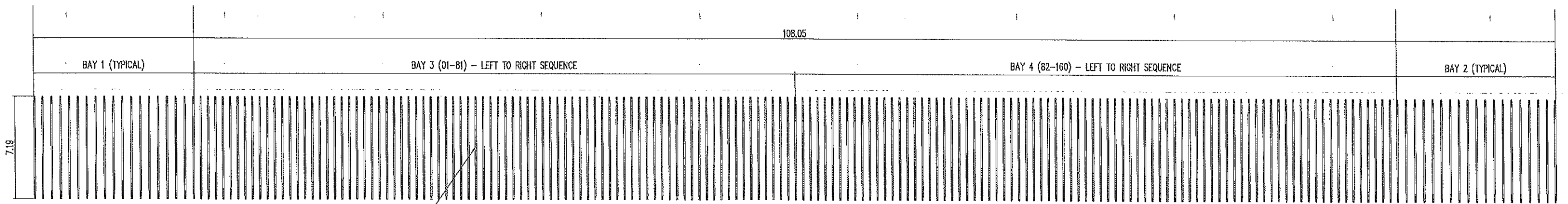
APPROVED BY:
YVONNE RONA CAGAS
Provincial Governor

A - 10
10 65

D1		D2		
DESCRIPTION	MANUAL OPERATED STEEL ROLL-UP DOOR		DESCRIPTION	PVC DOOR SINGLE LEAF ACTION W/ COMPLETE ACCESSORIES, DOOR CLOSER, LOCKSETS & PATCH FITTINGS
LOCATION	RENTABLE SPACES		LOCATION	PWD TOILET
NO. OF UNITS	30 UNITS		NO. OF UNITS	2 UNITS
HARDWARE	VARIES		HARDWARE	38mmØ STAINLESS VERTICAL DOOR PULL
D3		W1		
DESCRIPTION	PVC DOOR SINGLE LEAF ACTION W/ COMPLETE ACCESSORIES, DOOR CLOSER, LOCKSETS & PATCH FITTINGS	DESCRIPTION	CONTROL ROOM	
LOCATION	STORAGES, CONTROL ROOM, ELECTRICAL ROOM		LOCATION	
NO. OF UNITS	5 UNITS		NO. OF UNITS	
HARDWARE	DOOR KNOB		HARDWARE	

DOORS & WINDOW SCHEDULE
SCALE DNTS

 <p>REPUBLIC OF THE PHILIPPINES PROVINCIAL ENGINEER'S OFFICE SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR</p>	<p>PROJECT TITLE: IMPROVEMENT OF GOVERNOR DOUGLAS RALOTA CAGAS SPORTS COMPLEX AND BUSINESS CENTER SITE DEVELOPMENT (PHASE I)</p> <p>LOCATION: MATTI, DIGOS CITY, DAVAO DEL SUR</p>	<p>DESIGNED & PREPARED BY:  JOSEPH RYAN B. REDOLOSO ENGINEER II</p>	<p>REVIEWER BY:  JOSEPH R. GONZALES ENGINEER III Planning and Programming Division Head</p>	<p>RECOMMENDING APPROVAL:  LEONERL MARCH P. SUARIO Provincial Engineer</p>	<p>APPROVED BY:  YVONNE ROÑA CAGAS Provincial Governor</p>	<p align="center">A - 11</p> <p align="center">11 65</p>
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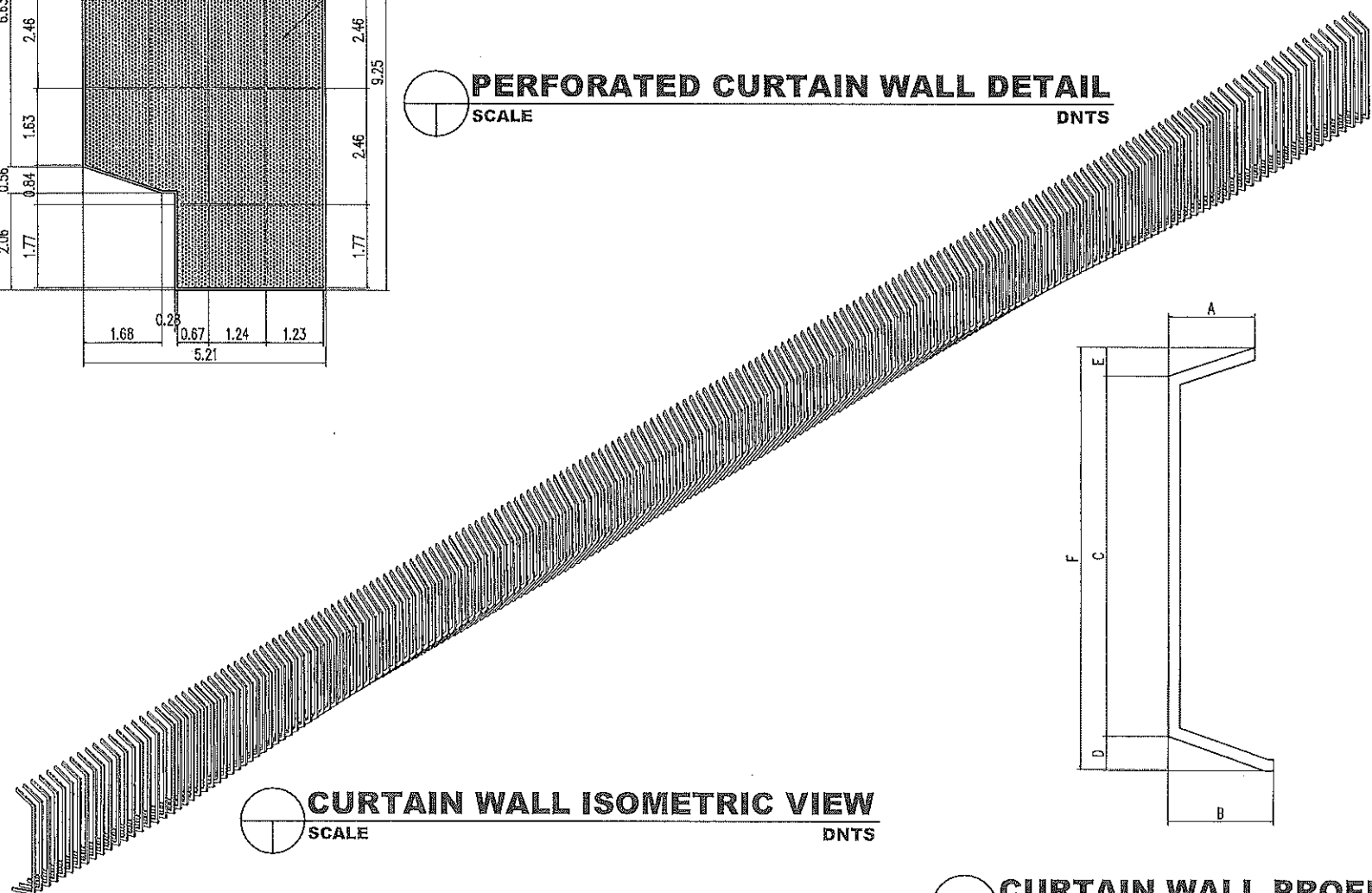


CURTAIN WALL ELEVATION
SCALE DNTS

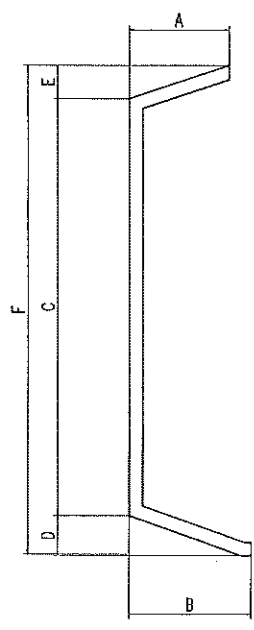
PERFORATED CURTAIN WALL DETAIL
SCALE DNTS

CURTAIN WALL SCHEDULE

LOCATION/BAY	A	B	C	D	E	F	LOCATION/BAY	A	B	C	D	E	F
BAY 1&2	1.50m	1.80m	6.14m	0.55m	0.48m	7.18m	BAY 3 (19)	1.50m	1.80m	4.93m	1.33m	0.94m	7.18m
BAY 3 (01)	1.50m	1.80m	6.10m	0.60m	0.48m	7.18m	BAY 3 (20)	1.50m	1.80m	4.87m	1.36m	0.96m	7.18m
BAY 3 (02)	1.50m	1.80m	6.03m	0.65m	0.50m	7.18m	BAY 3 (21)	1.50m	1.80m	4.81m	1.40m	0.98m	7.18m
BAY 3 (03)	1.50m	1.80m	5.98m	0.69m	0.52m	7.18m	BAY 3 (22)	1.50m	1.80m	4.75m	1.44m	1.00m	7.18m
BAY 3 (04)	1.50m	1.80m	5.89m	0.74m	0.55m	7.18m	BAY 3 (23)	1.50m	1.80m	4.70m	1.47m	1.02m	7.18m
BAY 3 (05)	1.50m	1.80m	5.82m	0.78m	0.58m	7.18m	BAY 3 (24)	1.50m	1.80m	4.64m	1.50m	1.05m	7.18m
BAY 3 (06)	1.50m	1.80m	5.75m	0.83m	0.60m	7.18m	BAY 3 (25)	1.50m	1.80m	4.60m	1.54m	1.07m	7.18m
BAY 3 (07)	1.50m	1.80m	5.68m	0.87m	0.63m	7.18m	BAY 3 (26)	1.50m	1.80m	4.54m	1.57m	1.09m	7.18m
BAY 3 (08)	1.50m	1.80m	5.61m	0.92m	0.66m	7.18m	BAY 3 (27)	1.50m	1.80m	4.49m	1.60m	1.11m	7.18m
BAY 3 (09)	1.50m	1.80m	5.54m	0.96m	0.68m	7.18m	BAY 3 (28)	1.50m	1.80m	4.44m	1.63m	1.13m	7.18m
BAY 3 (10)	1.50m	1.80m	5.47m	1.00m	0.71m	7.18m	BAY 3 (29)	1.50m	1.80m	4.39m	1.65m	1.15m	7.18m
BAY 3 (11)	1.50m	1.80m	5.41m	1.03m	0.74m	7.18m	BAY 3 (30)	1.50m	1.80m	4.35m	1.68m	1.17m	7.18m
BAY 3 (12)	1.50m	1.80m	5.35m	1.07m	0.76m	7.18m	BAY 3 (31)	1.50m	1.80m	4.30m	1.71m	1.19m	7.18m
BAY 3 (13)	1.50m	1.80m	5.29m	1.10m	0.79m	7.18m	BAY 3 (32)	1.50m	1.80m	4.26m	1.74m	1.21m	7.18m
BAY 3 (14)	1.50m	1.80m	5.22m	1.14m	0.81m	7.18m	BAY 3 (33)	1.50m	1.80m	4.21m	1.77m	1.23m	7.18m
BAY 3 (15)	1.50m	1.80m	5.16m	1.18m	0.84m	7.18m	BAY 3 (34)	1.50m	1.80m	4.17m	1.80m	1.25m	7.18m
BAY 3 (16)	1.50m	1.80m	5.10m	1.22m	0.86m	7.18m	BAY 3 (35)	1.50m	1.80m	4.12m	1.83m	1.26m	7.18m
BAY 3 (17)	1.50m	1.80m	5.04m	1.25m	0.89m	7.18m	BAY 3 (36)	1.50m	1.80m	4.07m	1.85m	1.28m	7.18m
BAY 3 (18)	1.50m	1.80m	4.98m	1.29m	0.91m	7.18m	BAY 3 (37)	1.50m	1.80m	4.02m	1.88m	1.30m	7.18m
BAY 3 (39)	1.50m	1.80m	3.98m	1.91m	1.31m	7.18m	BAY 3 (58)	1.50m	1.80m	3.38m	2.28m	1.54m	7.18m
BAY 3 (40)	1.50m	1.80m	3.95m	1.93m	1.33m	7.18m	BAY 3 (59)	1.50m	1.80m	3.36m	2.29m	1.55m	7.18m
BAY 3 (41)	1.50m	1.80m	3.91m	1.95m	1.35m	7.18m	BAY 3 (60)	1.50m	1.80m	3.34m	2.31m	1.55m	7.18m
BAY 3 (42)	1.50m	1.80m	3.87m	1.97m	1.36m	7.18m	BAY 3 (61)	1.50m	1.80m	3.32m	2.32m	1.56m	7.18m
BAY 3 (43)	1.50m	1.80m	3.83m	1.99m	1.37m	7.18m	BAY 3 (62)	1.50m	1.80m	3.30m	2.33m	1.57m	7.18m
BAY 3 (44)	1.50m	1.80m	3.80m	2.02m	1.38m	7.18m	BAY 3 (63)	1.50m	1.80m	3.28m	2.34m	1.57m	7.18m
BAY 3 (45)	1.50m	1.80m	3.77m	2.03m	1.39m	7.18m	BAY 3 (64)	1.50m	1.80m	3.26m	2.35m	1.58m	7.18m
BAY 3 (46)	1.50m	1.80m	3.74m	2.05m	1.41m	7.18m	BAY 3 (65)	1.50m	1.80m	3.24m	2.37m	1.59m	7.18m
BAY 3 (47)	1.50m	1.80m	3.70m	2.07m	1.42m	7.18m	BAY 3 (66)	1.50m	1.80m	3.22m	2.38m	1.60m	7.18m
BAY 3 (48)	1.50m	1.80m	3.67m	2.09m	1.43m	7.18m	BAY 3 (67)	1.50m	1.80m	3.20m	2.39m	1.60m	7.18m
BAY 3 (49)	1.50m	1.80m	3.64m	2.11m	1.44m	7.18m	BAY 3 (68)	1.50m	1.80m	3.18m	2.40m	1.61m	7.18m
BAY 3 (50)	1.50m	1.80m	3.61m	2.13m	1.45m	7.18m	BAY 3 (69)	1.50m	1.80m	3.16m	2.41m	1.62m	7.18m
BAY 3 (51)	1.50m	1.80m	3.57m	2.15m	1.46m	7.18m	BAY 3 (70)	1.50m	1.80m	3.15m	2.42m	1.62m	7.18m
BAY 3 (52)	1.50m	1.80m	3.54m	2.17m	1.48m	7.18m	BAY 3 (71)	1.50m	1.80m	3.14m	2.42m	1.63m	7.18m
BAY 3 (53)	1.50m	1.80m	3.51m	2.19m	1.49m	7.18m	BAY 3 (72)	1.50m	1.80m	3.13m	2.42m	1.63m	7.18m
BAY 3 (54)	1.50m	1.80m	3.48m	2.21m	1.50m	7.18m	BAY 3 (73)	1.50m	1.80m	3.12m	2.43m	1.63m	7.18m
BAY 3 (55)	1.50m	1.80m	3.45m	2.22m	1.51m	7.18m	BAY 3 (74)	1.50m	1.80m	3.11m	2.43m	1.63m	7.18m
BAY 3 (56)	1.50m	1.80m	3.42m	2.23m	1.52m	7.18m	BAY 3 (75)	1.50m	1.80m	3.10m	2.44m	1.64m	7.18m
BAY 3 (57)	1.50m	1.80m	3.40m	2.26m	1.53m	7.18m	BAY 3 (76)	1.50m	1.80m	3.09m	2.44m	1.64m	7.18m
							BAY 3 (77)	1.50m	1.80m	2.44m	1.91m	1.64m	7.18m
							BAY 3 (78)	1.50m	1.80m	2.45m	1.93m	1.64m	7.18m
							BAY 3 (79)	1.50m	1.80m	2.45m	1.95m	1.64m	7.18m
							BAY 3 (80)	1.50m	1.80m	2.46m	1.95m	1.65m	7.18m
							BAY 4 (81-160)	TYPICAL TO BAY 3					



CURTAIN WALL ISOMETRIC VIEW
SCALE DNTS



CURTAIN WALL PROFILE
SCALE DNTS



REPUBLIC OF THE PHILIPPINES
PROVINCIAL ENGINEER'S OFFICE
SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR

PROJECT TITLE:
**IMPROVEMENT OF GOVERNOR DOUGLAS RALOTA CAGAS
SPORTS COMPLEX AND BUSINESS CENTER SITE
DEVELOPMENT (PHASE I)**

LOCATION:
MATTI, DIGOS CITY, DAVAO DEL SUR

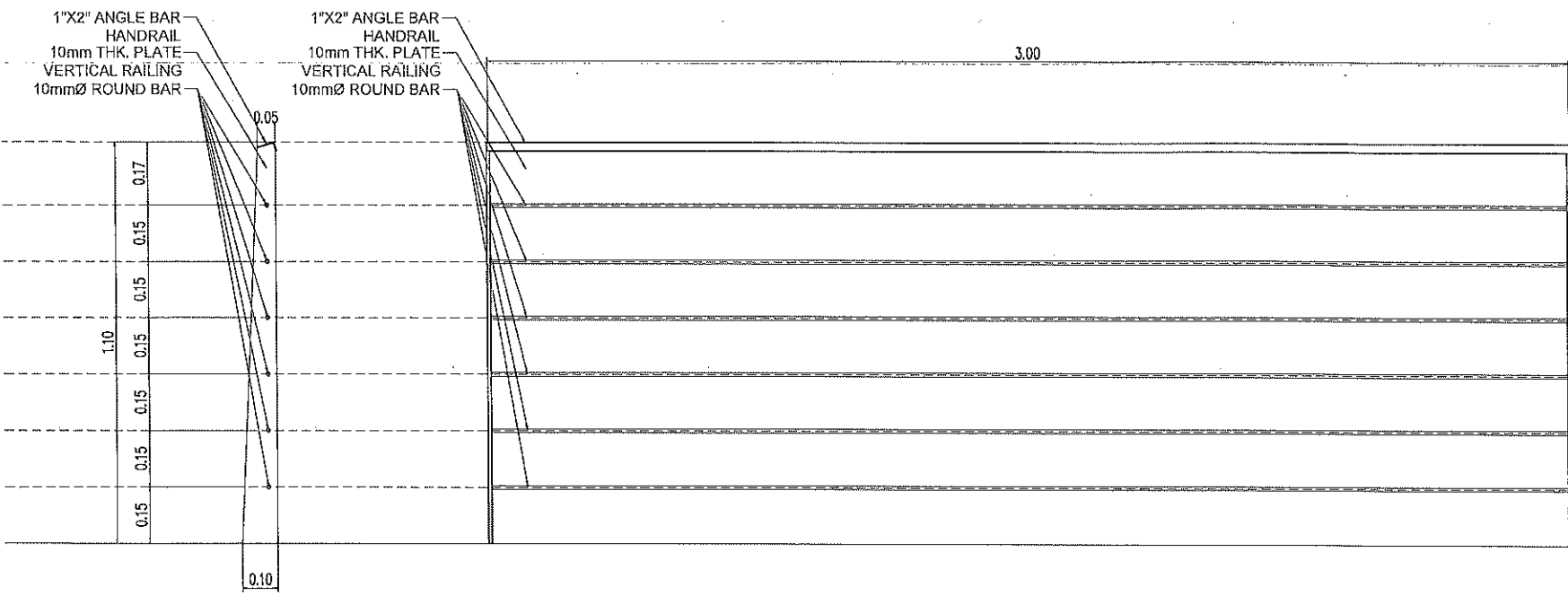
DESIGNED & PREPARED BY:
JOSEPH RYAN B. REDOLOSO
ENGINEER II

REVIEWED BY:
JOSEPH R. GONZALES
ENGINEER III
Planning and Programming Division Head

RECOMMENDING APPROVAL:
LEONERL MARCH P. SUARIO
Provincial Engineer

APPROVED BY:
YVONKE ROMA CAGAS
Provincial Governor

A - 12
12 65



SECTION

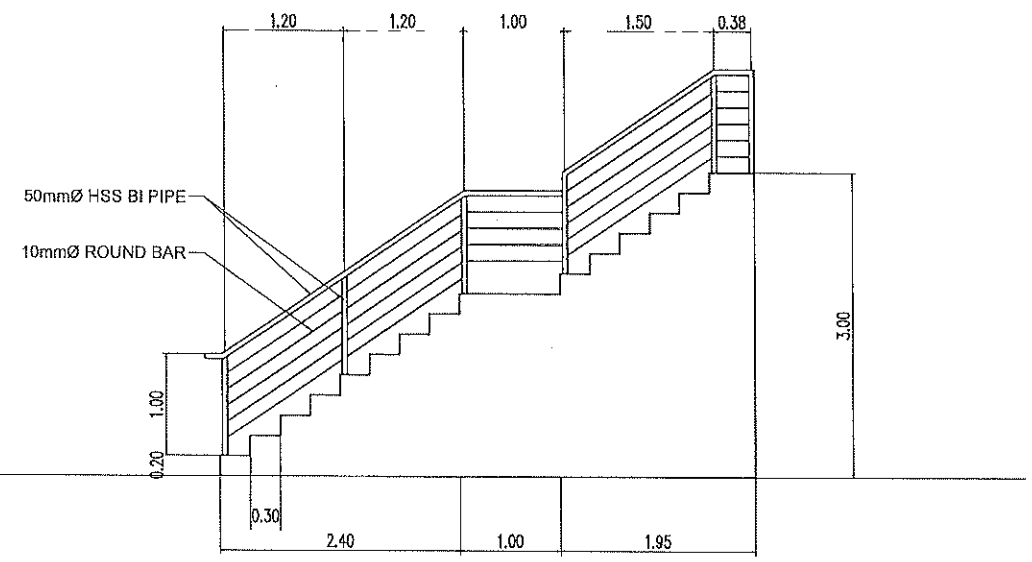
ELEVATION



LOWER LEVEL RAIL-GUARD DETAIL

SCALE

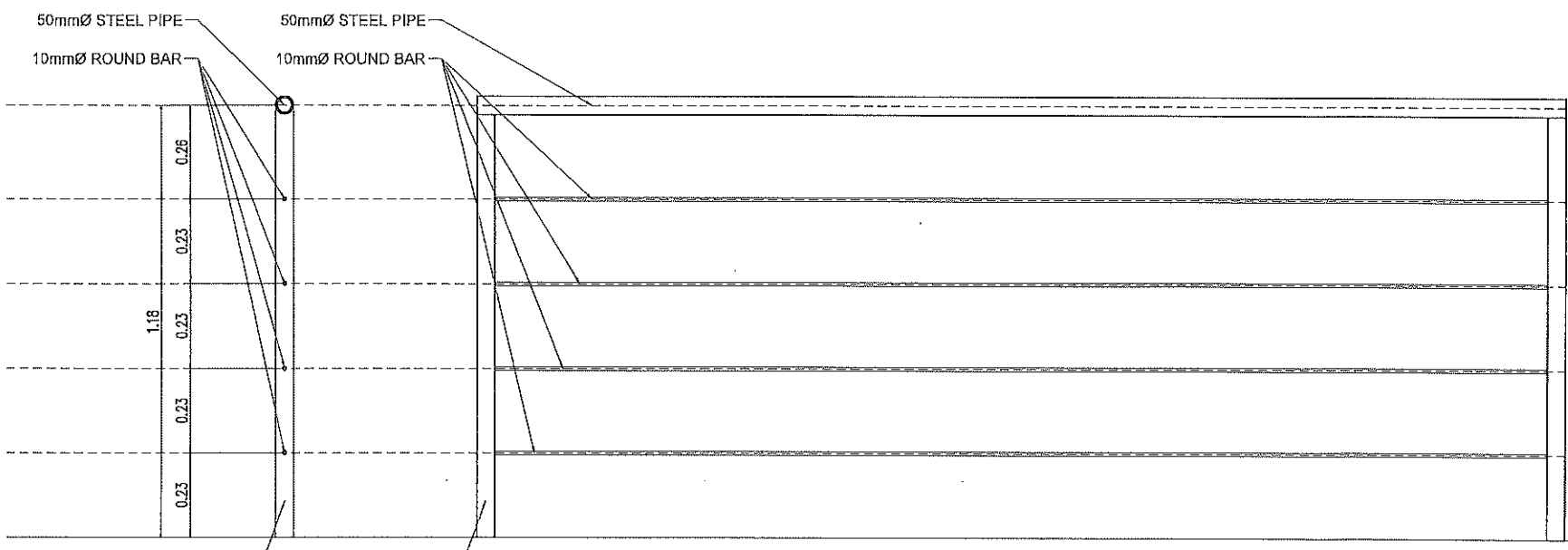
DNTS



STAIR DETAILS

SCALE

DNTS



SECTION

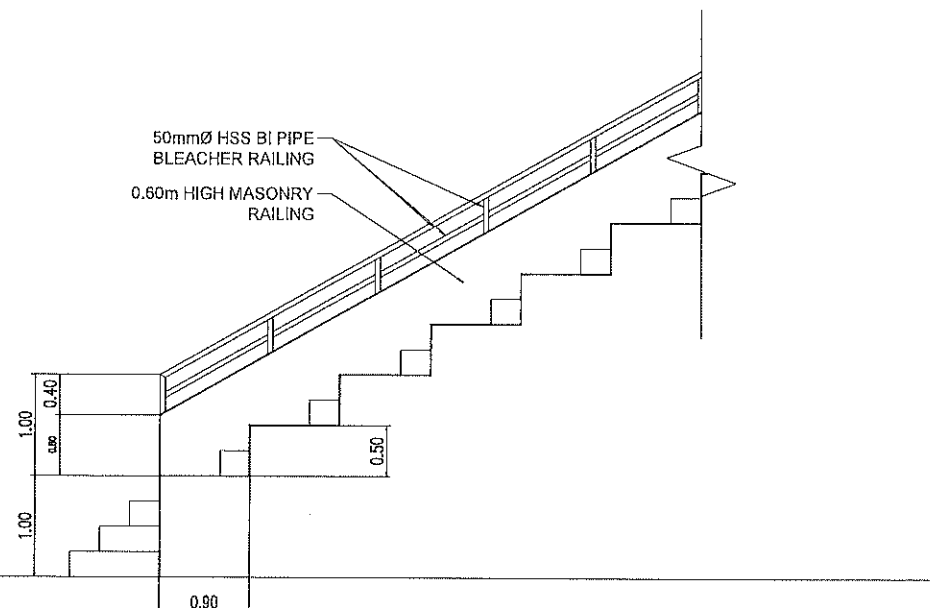
ELEVATION



UPPER RAIL-GUARD DETAIL

SCALE

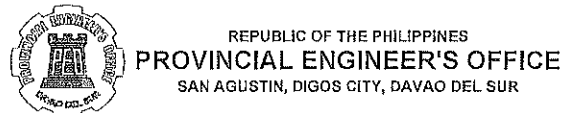
DNTS



BLEACHER RAIL-GUARD DETAIL

SCALE

DNTS



PROJECT TITLE:
**IMPROVEMENT OF GOVERNOR DOUGLAS RALOTA CAGAS
SPORTS COMPLEX AND BUSINESS CENTER SITE
DEVELOPMENT (PHASE I)**

LOCATION:
MATTI, DIGOS CITY, DAVAO DEL SUR

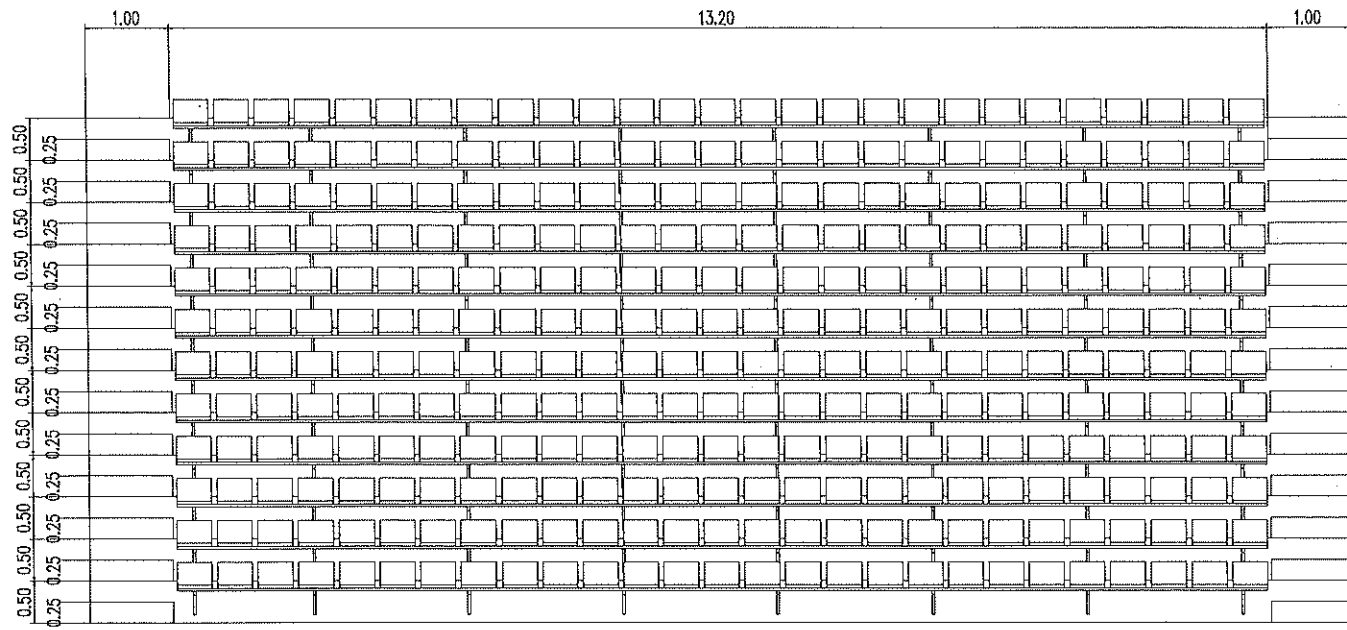
DESIGNED & PREPARED BY:
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ENGINEER II

REVIEWED BY:
JOSEPH R. GONZALES
ENGINEER III
Planning and Programming Division Head

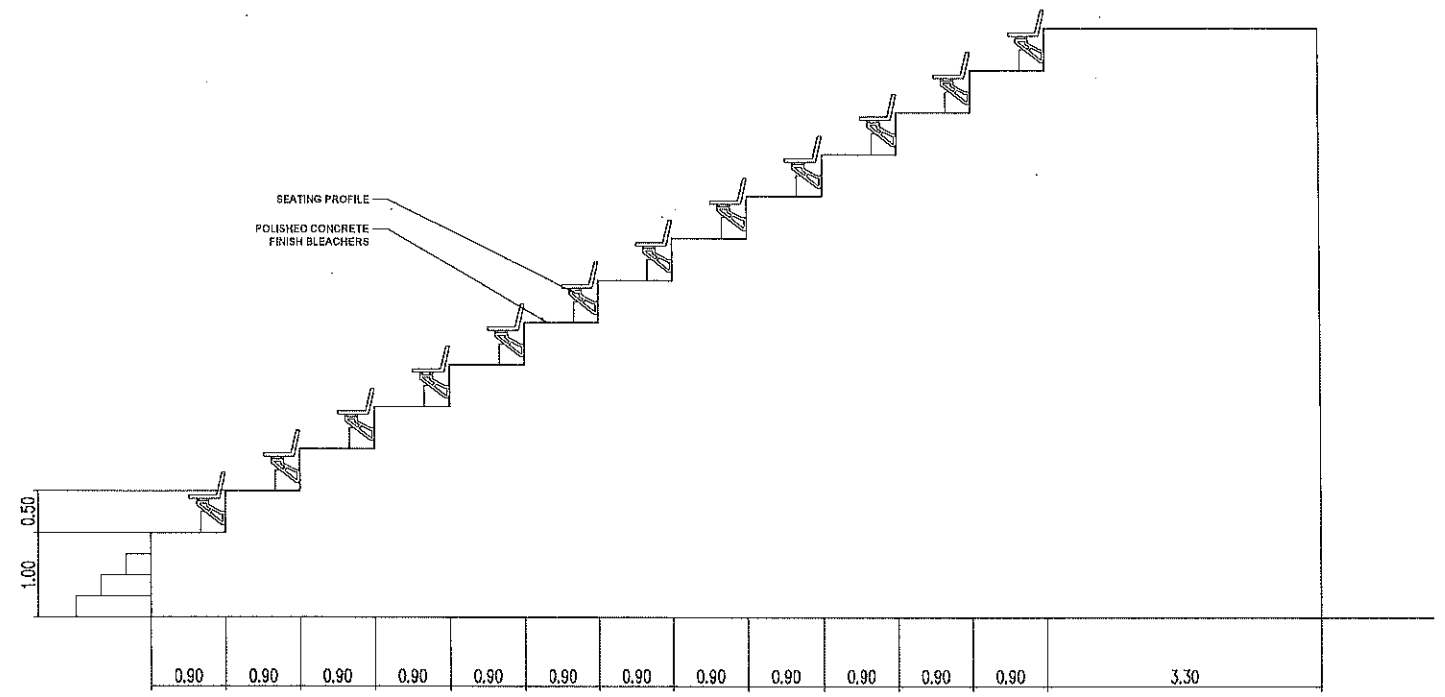
RECOMMENDING APPROVAL:
LEONERL MARCH P. SUARIO
Provincial Engineer

APPROVED BY:
YVONNE RONA CAGAS
Provincial Governor

A - 13
13 65



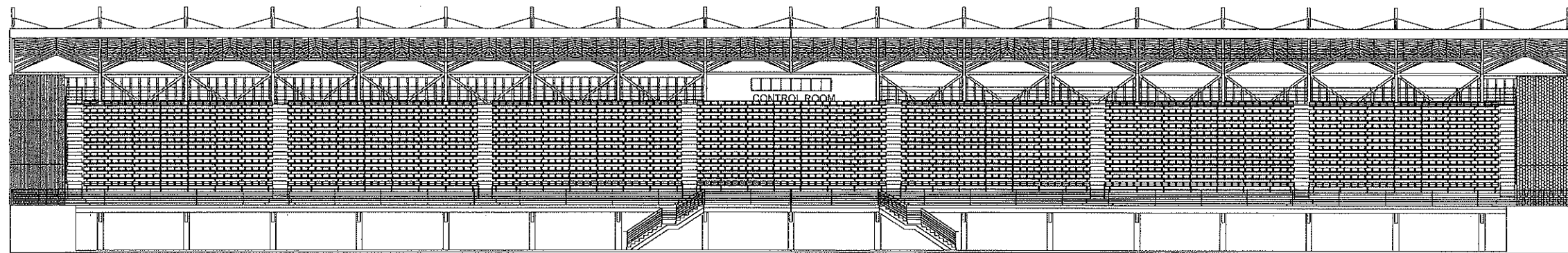
ELEVATION



ELEVATION

BLEACHERS DETAIL
SCALE DNTS

NOTE:
SEATS DESIGN LAY-OUT
VARIES ON COLORING
LAY-OUT.



BLEACHER SEATS LAY-OUT
SCALE DNTS



REPUBLIC OF THE PHILIPPINES
PROVINCIAL ENGINEER'S OFFICE
SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR

PROJECT TITLE:
**IMPROVEMENT OF GOVERNOR DOUGLAS RALOTA CAGAS
SPORTS COMPLEX AND BUSINESS CENTER SITE
DEVELOPMENT (PHASE I)**

LOCATION:
MATTI, DIGOS CITY, DAVAO DEL SUR

DESIGNED & PREPARED BY:
JOSEPH RYAN B. REDOLOSO
ENGINEER II

REVIEWED BY:
JOSEPH R. GONZALES
ENGINEER III
Planning and Programming Division Head

RECOMMENDING APPROVAL:
LEONERL MARCH P. SUARIO
Provincial Engineer

APPROVED BY:
YVONNE ROÑA CAGAS
Provincial Governor

A - 14

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STRUCTURAL NOTES

GENERAL:

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND INFORMATION SHOWN ON THE DRAWINGS BEFORE PROCEEDING WITH THE WORK.
- DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS FROM PLANS, SECTIONS AND DETAILS. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND DETAILS.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PROTECT THE STRUCTURE, ADJACENT PROPERTY, WORKMEN AND OTHER PERSONS DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONDITION WHICH IN HIS OPINION MIGHT ENDANGER THE STABILITY OR CAUSE DISTRESS TO THE STRUCTURE.
- THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO ENSURE PROPER ALIGNMENT OF THE STRUCTURE AFTER THE INSTALLATION OF ALL STRUCTURAL AND FINISHED MATERIALS.

DESIGN CRITERIA:

1. SPECIFICATIONS:

AMERICAN CONCRETE INSTITUTE, ACI-318-11
 NATIONAL STRUCTURAL CODE OF THE PHILIPPINES, NSCP VOL.1, 7TH ED., 2015
 AMERICAN INSTITUTE OF STEEL CONSTRUCTION

2. LOADS:

DEAD:

CONCRETE, PLAIN OR REINFORCED	23.58 KN/m
COMPACTED SAND, EARTH AND GRAVEL	19.00 KN/m
100mm CHB	2.10 KPa
150mm CHB	2.71 KPa
SUPERIMPOSED DEAD LOAD	1.20 KPa
CEILING	0.15 KPa
MEP	0.1 KPa
STEEL DECK	0.078 KPa
INTERIOR PARTITION	1.0 KPa

LIVE:

PUBLIC	3.80 KPa
HOSPITAL	3.80 KPa
ROOF	0.60 KPa

WIND:

BASIC WIND SPREAD FOR CATARMAN, CAMIGUIN IS 270 KPH AS PER THE NSCP

EARTHQUAKE:

BASE SHEAR, $V=CW/RT$, $Z=0.40$, $I=1.5$, $R=0.5$, Soil Profile= S_B , $N_a=1.0$, $N_v=1.2$, $C_i(ft)=0.035$

FOUNDATION:

ASSUMED ALLOWABLE SOIL BEARING CAPACITY 150 KPa (3,000 psf)

MATERIALS:

1. CONCRETE:

UNLESS OTHERWISE INDICATED ON PLANS OR NOTED IN PARTICULAR SHEET, THE MINIMUM 28th DAY CYLINDER STRENGTH OF CONCRETE SHALL BE AS FOLLOWS:

STRUCTURAL MEMBER	CLASS	28th DAY COMPRESSIVE CYLINDER STRENGTH		MAX. SIZE OF COARSE AGGREGATE (mm)
		psi	MPa	
FOOTINGS, SLAB ON GRADE	A	3,000	21	38
COLUMNS, BEAMS	A	3,000	21	25
SUSPENDED SLABS	A	3,000	21	25
PRESTRESSED STRUCTURE	A	5,000	35	25

2. REINFORCEMENTS:

MILD STEEL:

REINFORCING STEEL SHALL CONFORM TO ASTM A 615 WITH MINIMUM YIELD STRENGTH, 20mm ϕ & SMALLER, $f_y = 276$ MPa (Gr. 40), 25mm ϕ & BIGGER, $f_y = 415$ MPa (Gr. 60)

2. STRUCTURAL STEEL:

ALL STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATIONS AS FOLLOWS:

I. STRUCTURAL STEEL SHAPES	A 36	$f_y = 248.80$ MPa (36,000 psi)
II. PLATES, ANCHORAGE ANGLES	A 36	$f_y = 248.80$ MPa (36,000 psi)
III. ANCHOR BOLTS, NUTS & WASHERS	A 325	$f_y = 627.00$ MPa (90,000 psi)

CONSTRUCTION:

1. GENERAL

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR METHODS OF CONSTRUCTION, WORKMANSHIP, AND JOB SAFETY INCLUDING ALL DEWATERING, FALSEWORK, BRACINGS AND OTHER TEMPORARY ITEMS USED FOR THE CONSTRUCTION OF THE PROJECT. THE DESIGN, ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, SAFETY MEASURES, TEMPORARY SUPPORTS, ETC., IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR, AND HAS NOT BEEN CONSIDERED BY THE STRUCTURAL ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE PRIOR TO THE APPLICATION OF WALLS, ROOF AND FLOOR DIAPHRAGMS, AND FINISH MATERIALS. HE SHALL PROVIDE THE NECESSARY BRACING TO PROVIDE STABILITY PRIOR TO THE CONSTRUCTION OF THE AFOREMENTIONED MATERIALS. CONSTRUCTION LOADING SHALL NOT EXCEED THE DESIGN LIVE LOADING UNLESS SPECIAL SHORES ARE USED TO SUPPORT THE CONSTRUCTION LOADS W/O OVERLOADING ANY PORTION OF THE STRUCTURE.

2. EXCAVATION

EXCAVATION FOR STRUCTURE SHALL BE NEAT LINES AS SHOWN ON THE PLANS AND THE GROUND UNDERNEATH OF STRUCTURE FOUNDATIONS SHALL NOT BE DISTURBED. WHEN STRUCTURE FOUNDATIONS ARE FOUNDED ON VOLCANIC TUFF OR THE LIKE, FISSURES SHALL BE REMOVED AND PLUGGED WITH LEAN CONCRETE BEFORE POSITIONING THE STEEL REINFORCEMENTS.

3. BACKFILLING

BACKFILLING TO THE STRUCTURES SHALL BE DONE WITH GRANULAR MATERIALS COMPACTED TO A MINIMUM 95% OF MAXIMUM DRY DENSITY.

4. FORMWORK

FORMWORK SHALL BE CONSTRUCTED SUCH THAT IT WILL NOT YIELD UNDER THE CONTEMPLATED LOAD AND SHALL BE AS SUCH AS TO AVOID THE FORMATION OF FINS AT INTERSECTION OF SURFACES. ALL CORNERS OF CONCRETE STRUCTURES SHALL BE CHAMFERED TO AT LEAST 20mm UNLESS OTHERWISE NOTED ON PLANS. STRIPPING OF FORMS AND SHORES SHALL BE AS DESIGNATED BY THE ENGINEER. THE FOLLOWING SHALL BE USED AS GUIDE. WHEN CONCRETE STRENGTH TEST ARE USED FOR REMOVAL OF FORMS AND SUPPORTS, SUCH REMOVAL OF FORMS AND SUPPORTS, EXCLUSIVE OF DAYS WHEN THE TEMPERATURE IS BELOW 4°C(40°F) SHALL BE USED AS MINIMUM:

	MIN. TIME	MIN. % DESIGN STRENGTH
SHORING UNDER DIAPHRAGM BEAMS, FRAMES OR ARCHES, DECK SLAB	14 DAYS	80%
WALLS	14 DAYS	80%
WALLS	7 DAYS	70%
COLUMNS	7 DAYS	70%
SIDES OF BEAM & ALL OTHER VERT. SURFACES	2 DAYS	40%

5. CONCRETE MIX AND PLACING

- DESIGN OF CONCRETE MIX SHALL MEET THE DESIGNED STRENGTH AS SET FORTH UNDER ITEM 1 OF MATERIALS.
- CONCRETE SHALL BE DEPOSITED, VIBRATED AND CURED IN ACCORDANCE WITH THE SPECIFICATIONS.
- SLAB-ON-GRADE SHALL HAVE CONTROL JOINTS @ 6.0 m MAXIMUM CENTER TO CENTER.
- UNLESS OTHERWISE SHOWN, ALL EXPOSED EDGES SHALL BE CHAMFERED 20mm EXCEPT WHERE MASONRY WALLS ARE LAID FLUSH WITH COLUMN OR BEAM FACE, OR WHERE DETAILED OTHERWISE.

6. BAR BENDING, SPLICING AND PLACING

- ALL REINFORCING STEEL SHALL BE CLEANED OF RUST, GREASE, OR OTHER MATERIALS THAT MAY IMPAIR BOND.
- ALL REINFORCING STEEL SHALL BE ACCURATELY & SECURELY PLACED BEFORE POURING CONCRETE OR APPLYING MORTAR OR GROUT.
- UNLESS OTHERWISE INDICATED, SPLICING OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH ACI 318-83, EXCEPT THAT THE MINIMUM LAP SPLICE SHALL BE 300 mm. NUMBER OF REBARS SPLICED AT ANY SECTION SHALL NOT EXCEED 50%. REBAR SPLICES SHALL BE STAGGERED AT LEAST 600mm.
- FOR SPLICES LOCATED OTHER THAN AT COLUMN-BEAM JOINTS, THE SPLICES SHALL BE AS FOLLOWS:
 - BEAMS: TOP BARS SHALL BE SPLICED WITHIN THE MIDDLE THIRD OF THE BEAM SPAN. BOTTOM BARS WITHIN THE FOURTHS OF THE BEAM SPAN BUT NOT LESS THAN 2X THE DEPTH OF THE BEAM. THE SPLICE LENGTH SHALL NOT BE LESS THAN 1.3 TIMES THE DEVELOPMENT LENGTH L_d IN TENSION NOR 300mm.
 - COLUMNS/PEDESTALS: LAP SPLICES SHALL BE MADE WITHIN THE CENTER HALF OF COLUMN HEIGHT AND THE SPLICE SHALL NOT BE LESS THAN 30 BAR DIAMETER. WELDING OR THE USE OF APPROVED MECHANICAL DEVICES MAY BE PERMITTED.
 - CHB WALLS: VERTICAL BARS SHALL BE SPLICED AT THE TOP OF WALL FOOTINGS.
- UNLESS OTHERWISE INDICATED, ALL BEAMS TERMINATING AT A COLUMN SHALL HAVE TOP AND BOTTOM BARS EXTENDING TO THE FAR FACE OF THE COLUMN, TERMINATING IN A STANDARD 90° HOOK. LENGTH OF ANCHORAGE SHALL BE IN ACCORDANCE WITH ACI 318-83 BUT NOT LESS THAN 300 mm.

h.) THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:

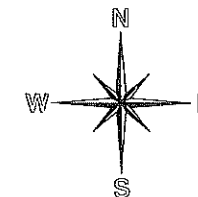
CAST-IN-PLACE CONCRETE	
a.) FOOTINGS CAST AGAINST EARTH	75 mm
b.) BEAMS & COLUMNS (PRIMARY REINF, TIES/STIRRUPS)	40
b.) SLABS, WALLS, JOISTS	20
PRECAST/PRESTRESSED CONCRETE	
a.) BEAMS COLUMNS (PRIMARY REINFORCEMENT) (TIES, STIRRUPS, SPIRALS)	40
b.) SLABS, WALLS, JOISTS	25
	20

7. CHB WALL

CHB WALLS 150mm AND 100mm THICK SHALL BE REINFORCED WITH 10mm ϕ BARS WITH SPACING @ 0.60m O.C. VERTICAL AND @ EVERY 3 LAYERS HORIZONTAL. ALL OPENINGS SHALL BE REINFORCED WITH 4-12mm ϕ BARS WITH 10mm ϕ TIES @ 0.30m O.C. LAY CHB UNITS SO AS TO PRESERVE THE VERTICAL CONTINUITY OF CELLS FILLED WITH GROUT. THE MINIMUM CLEAR HORIZONTAL DIMENSIONS OF VERTICAL CORES SHALL BE 2 INCHES BY 3 INCHES. MASONRY BOND UNITS AT CORNERS. ANCHOR INTERSECTIONS BY REINFORCING BARS OR STIRRUPS AS INDICATED. SPACED BACK-UP COURSES TO LEVEL WITH FACING COURSES WHERE METAL TIES OCCUR. ADJUST EACH UNIT TO ITS FINAL POSITION WHILE MORTAR IS STILL SOFT AND PLASTIC. IF ANY UNIT IS DISTURBED AFTER MORTAR HAS STIFFENED, REMOVE AND RELAY FRESH MORTAR. KEEP CHASES, RAKED OUT JOINTS, FREE FROM MORTAR AND OTHER DEBRIS. KEEP UNITS IN EXPOSED MASONRY SURFACES FREE FROM CHIPPED EDGES OR OTHER IMPERFECTIONS DETRACTING FROM THE APPEARANCE OF THE FINISHED WORK WHEN VIEWED FROM A DISTANCE OF TEN FEET. LAY MASONRY UNITS IN RUNNING BOND PATTERN UNLESS OTHERWISE INDICATED.

8. METAL FABRICATION/ERECTION

ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC SPECIFICATIONS AND CODE OF STANDARD PRACTICE. SHOP AND FIELD WELDING SHALL BE IN ACCORDANCE WITH AMERICAN WELDING SOCIETY SPECIFICATIONS AND PERFORMED BY QUALIFIED WELDERS. UNLESS OTHERWISE INDICATED, WELDING ELECTRODES SHALL BE E70xx. UNLESS OTHERWISE SPECIFIED, WELDS SHALL BE CONTINUOUS FILLET WELDS, USING NOT LESS THAN THE MINIMUM SIZE BASED ON THE THICKNESS OF THE RUNNER PART JOINED PER AISC/AWS. GRIND SMOOTH VISIBLE WELDS IN THE FINISHED INSTALLATION.



REPUBLIC OF THE PHILIPPINES
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 SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR

PROJECT TITLE:
IMPROVEMENT OF GOVERNOR DOUGLAS RALOTA CAGAS SPORTS COMPLEX AND BUSINESS CENTER SITE DEVELOPMENT (PHASE I)

LOCATION:
MATTI, DIGOS CITY, DAVAO DEL SUR

DESIGNED & PREPARED BY:

JOSEPH RYAN B. REDOLOSO
 ENGINEER II

REVIEWED BY:

JOSEPH R. GONZALES
 ENGINEER III
 Planning and Programming Division Head

RECOMMENDING APPROVAL:

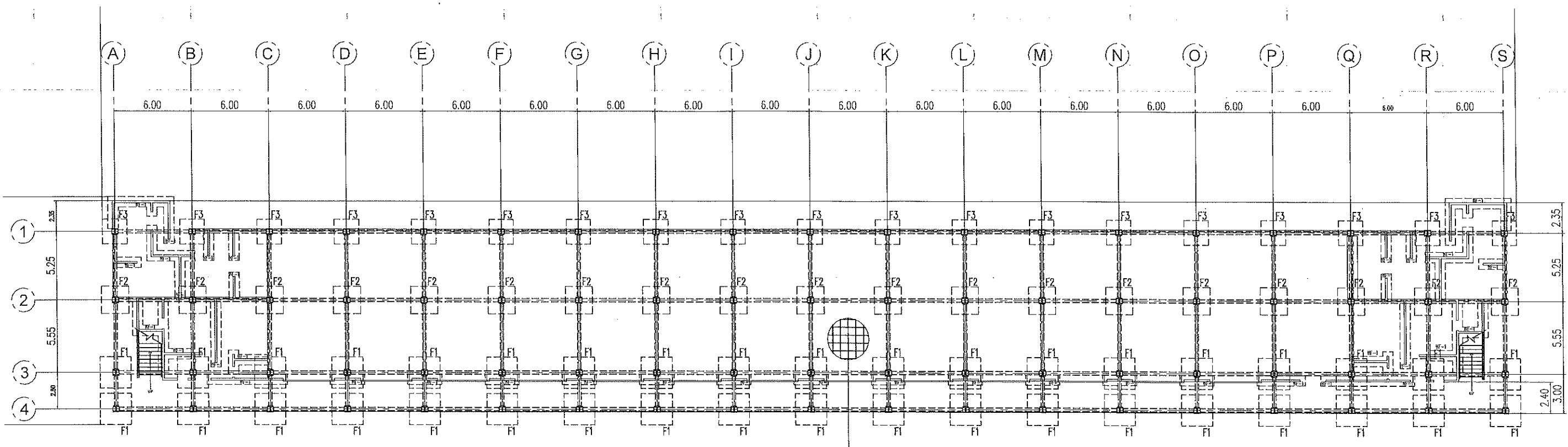
LEONERL MARCH P. SUARIO
 Provincial Engineer

APPROVED BY:

YVONNE RONÁ CAGAS
 Provincial Governor

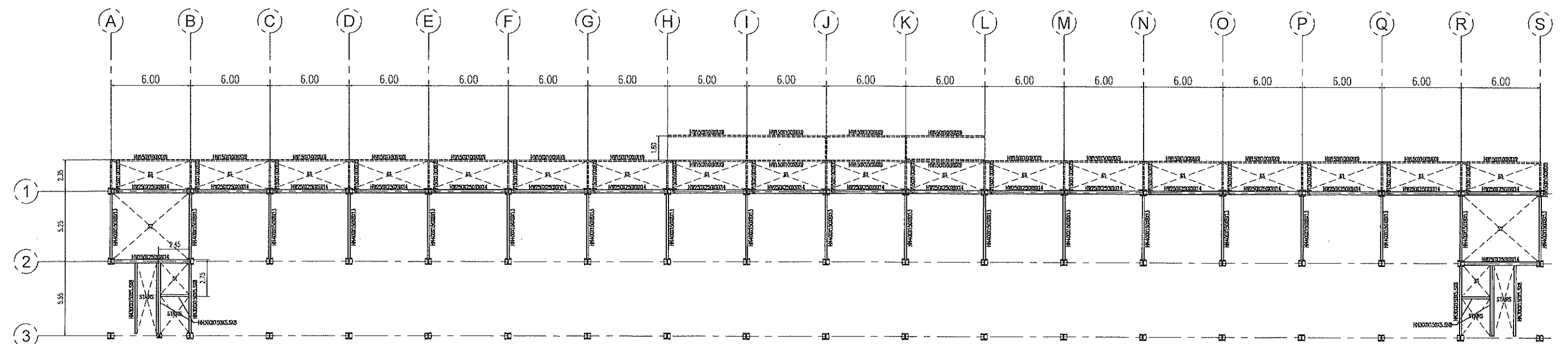
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150mm thk. w/ 10mmØ RSB SPACED @ 0.15m O.C BOTHWAYS

FOUNDATION PLAN
SCALE DNTS



LOWER LEVEL FRAMING PLAN
SCALE DNTS



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SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR

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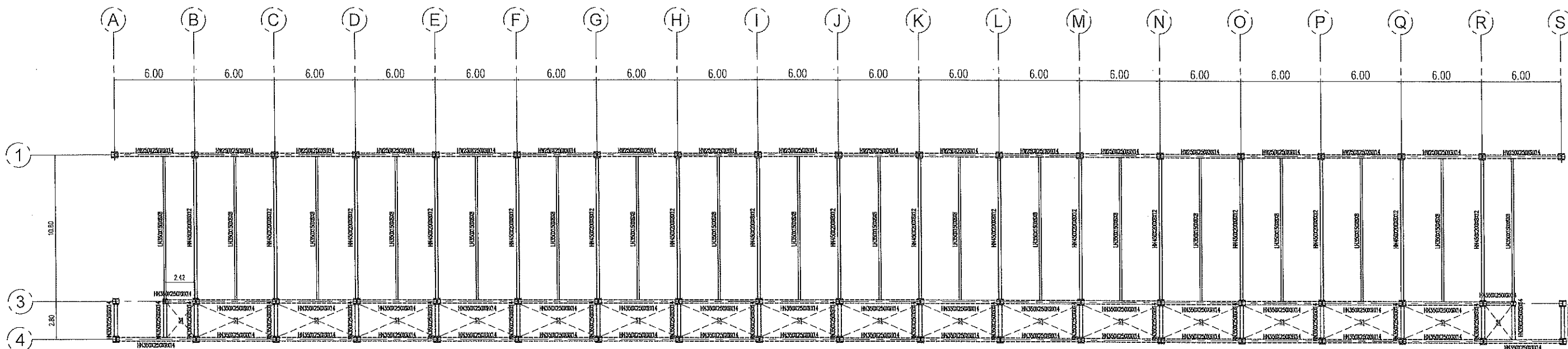
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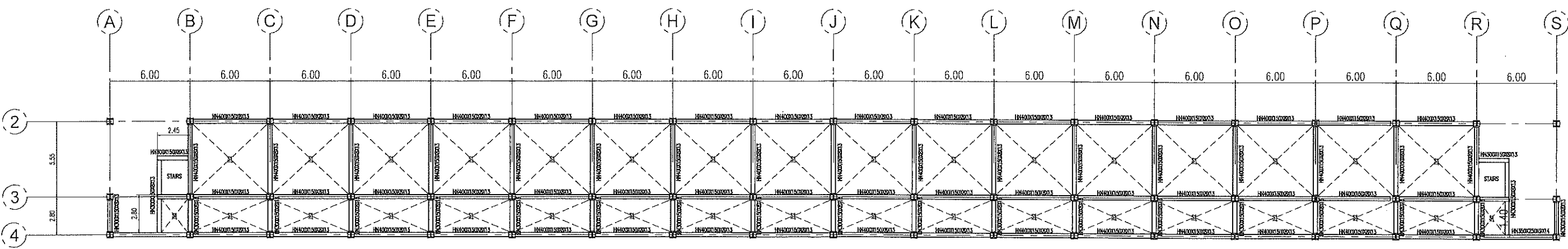
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Provincial Engineer

APPROVED BY:
YVONNE ROÑA CAGAS
Provincial Governor

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BLEACHERS & UPPER LEVEL FRAMING PLAN
SCALE DNTS



SECOND FLOOR FRAMING PLAN
SCALE DNTS

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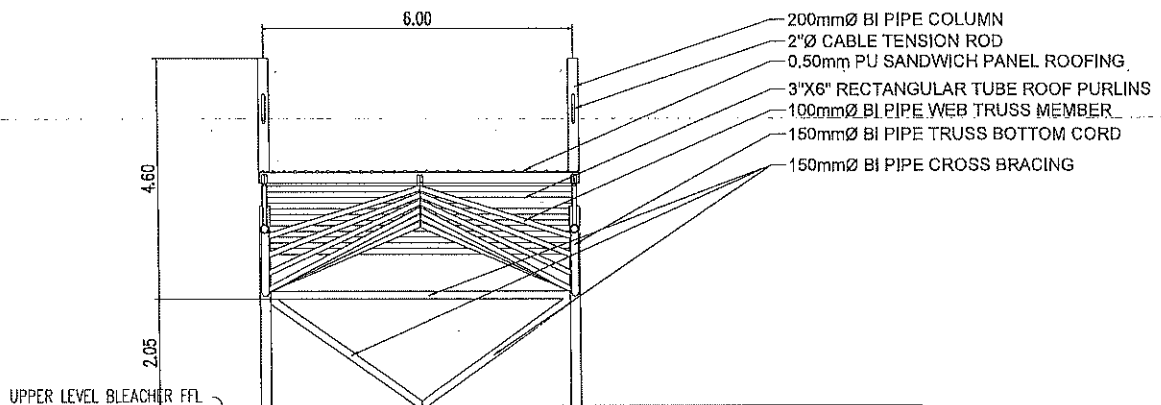
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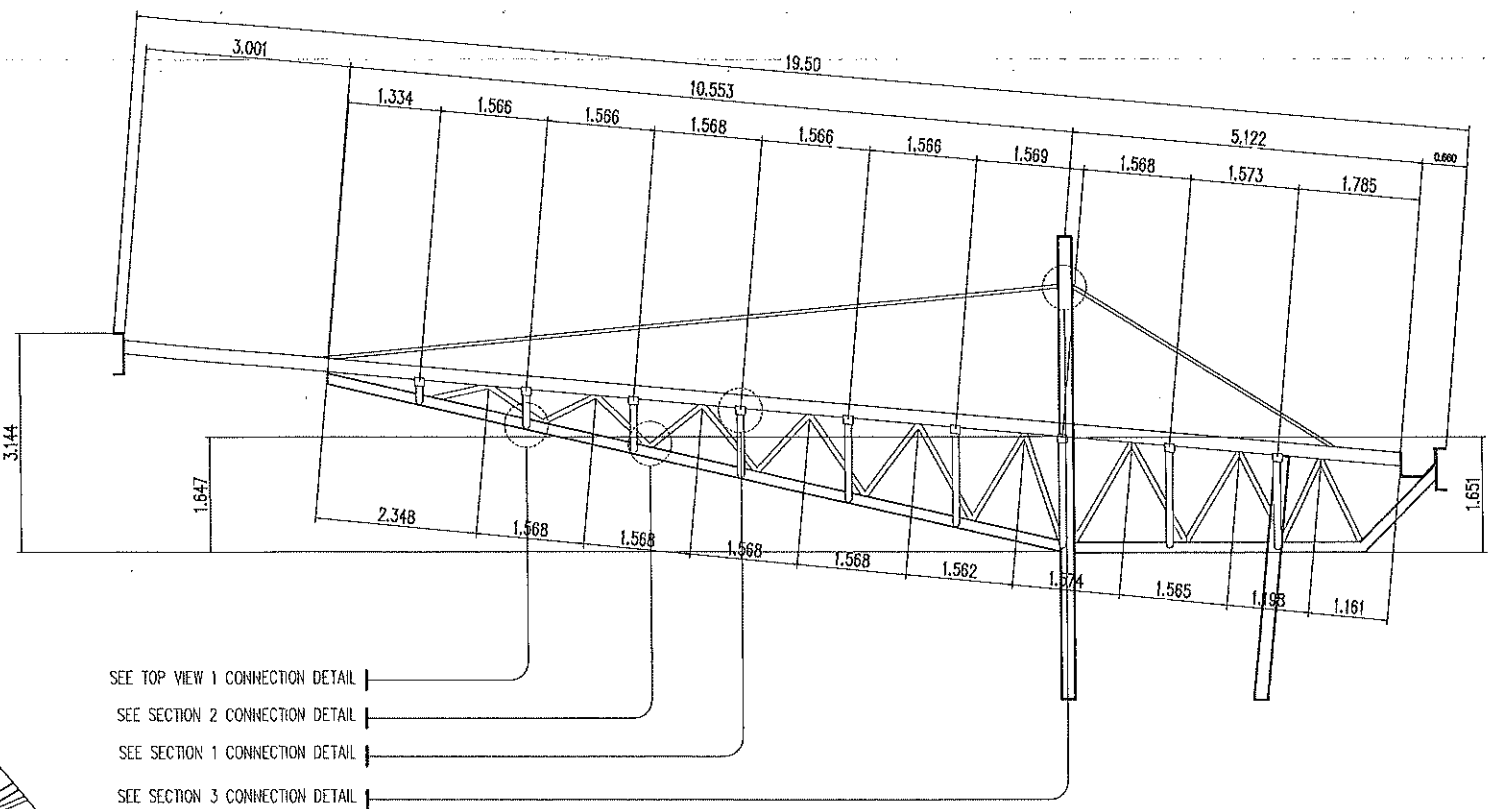
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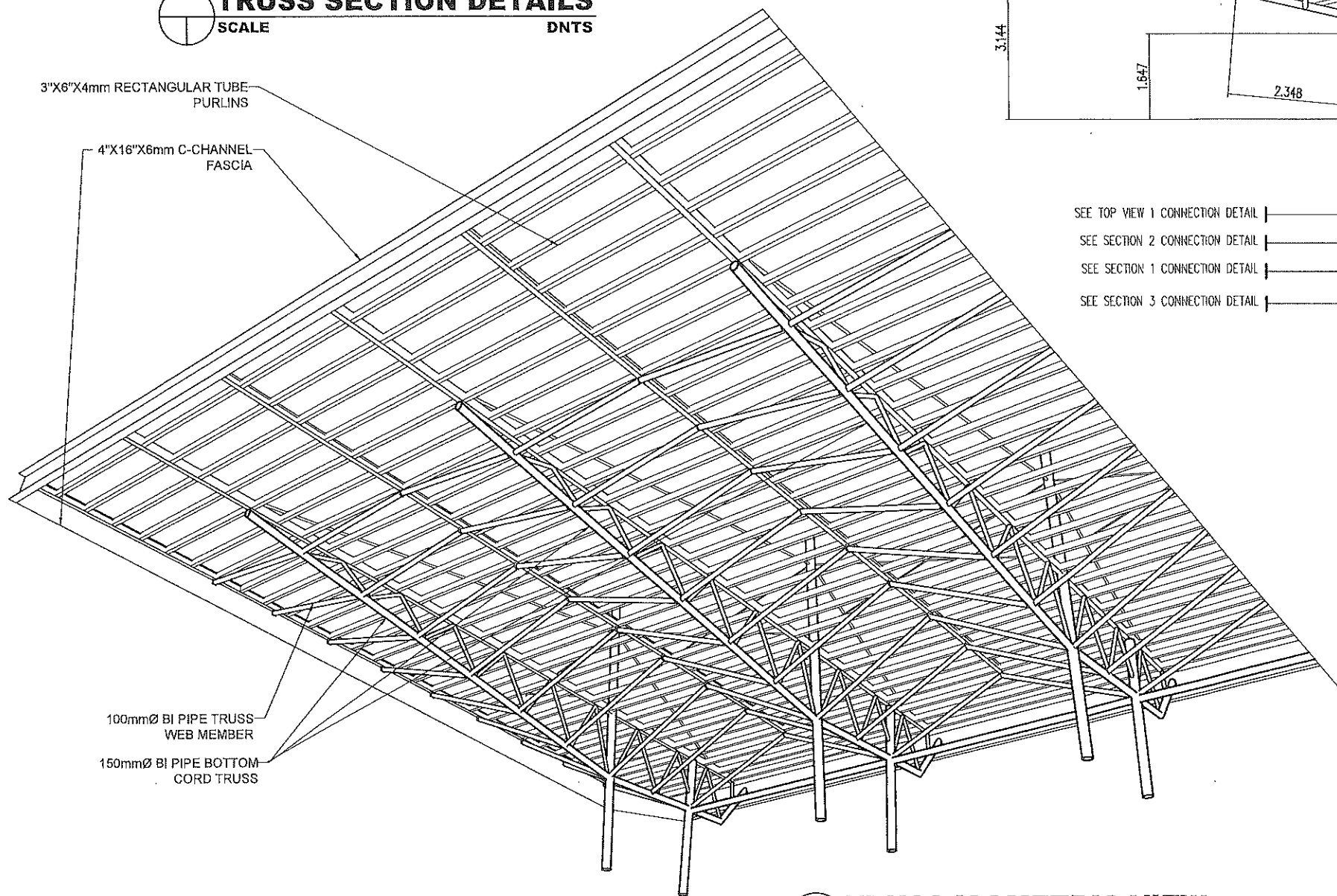


TRUSS SECTION DETAILS
SCALE DNTS

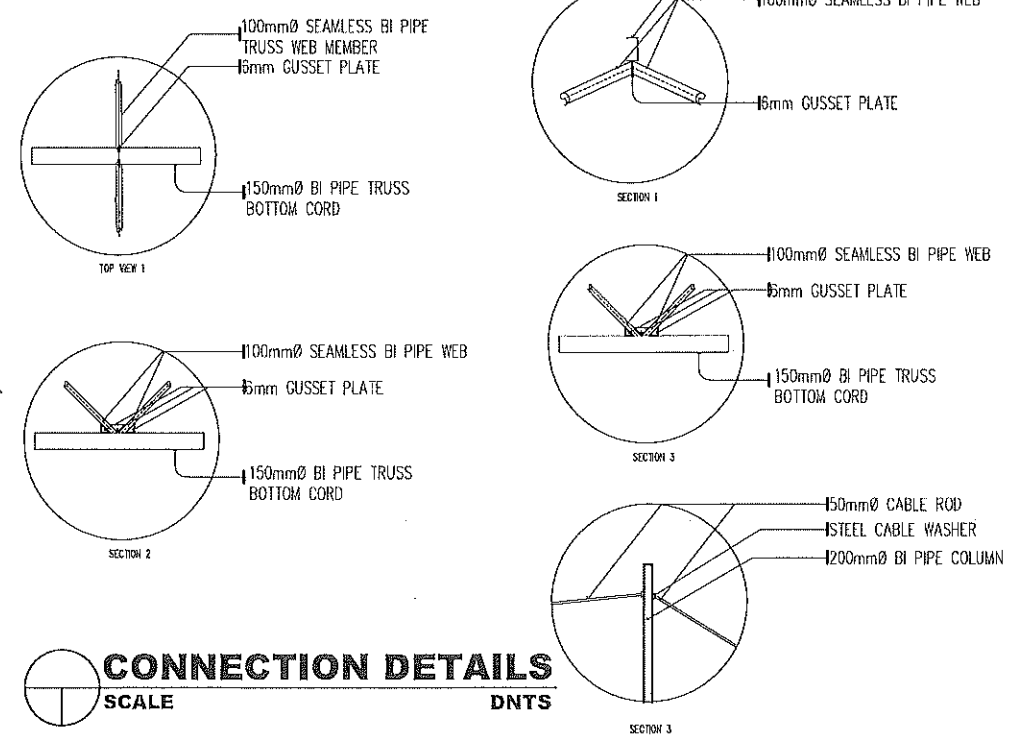


SEE TOP VIEW 1 CONNECTION DETAIL
SEE SECTION 2 CONNECTION DETAIL
SEE SECTION 1 CONNECTION DETAIL
SEE SECTION 3 CONNECTION DETAIL

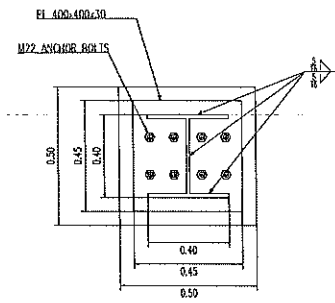
TRUSS SECTION DETAILS
SCALE DNTS



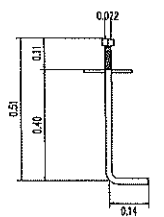
TRUSS ISOMETRIC VIEW
SCALE DNTS



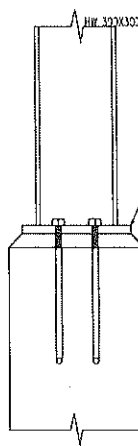
CONNECTION DETAILS
SCALE DNTS



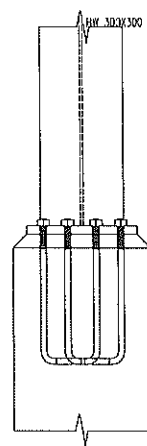
TOP VIEW



ANCHOR DETAILING

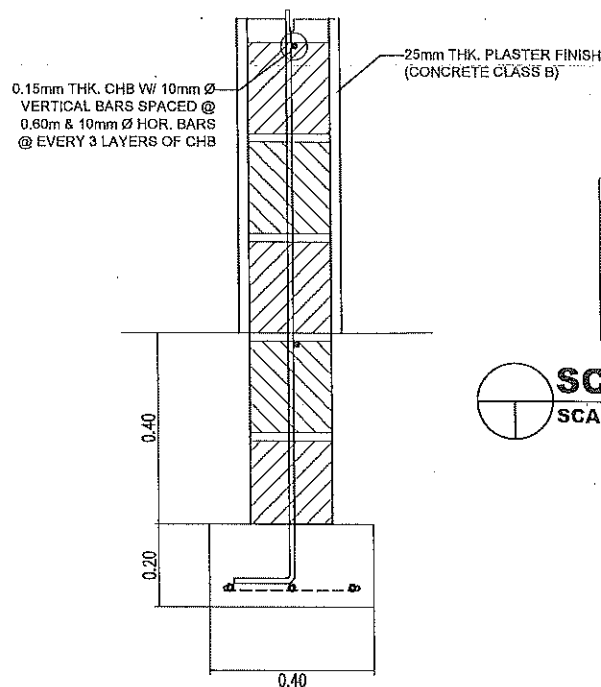


FRONT VIEW



LATERAL VIEW

ANCHOR BOLT DETAILS
SCALE DNTS



WALL FOOTING DETAILS
SCALE DNTS

HW400X400X10X15

SIZE:	
DEPTH (A)	400mm
FLANGE (B)	400mm
THICKNESS:	
WEB (T1)	10mm
FLANGE (T2)	15mm

SCHEDULE OF COLUMN
SCALE DNTS

SECTION	1	2	3	4
DEPTH	d (mm) 150	d (mm) 250	d (mm) 400	d (mm) 500
WEB THICKNESS	tw (mm) 6	tw (mm) 8	tw (mm) 8	tw (mm) 8.5
FLANGE WIDTH	bf (mm) 100	bf (mm) 250	bf (mm) 150	bf (mm) 150
FLANGE THICKNESS	tf (mm) 8	tf (mm) 14	tf (mm) 12	tf (mm) 8

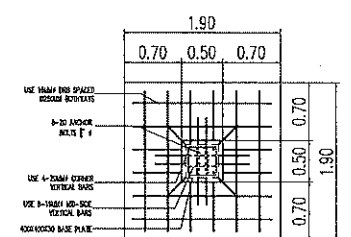
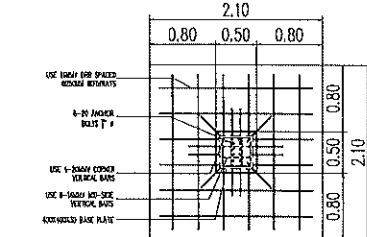
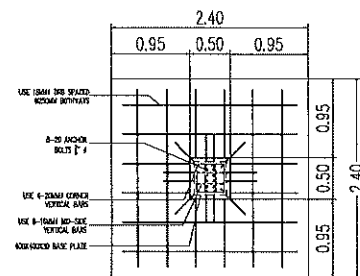
SECTION	1	2	3	4
DEPTH	d (mm) 450	d (mm) 350	d (mm) 350	
WEB THICKNESS	tw (mm) 5	tw (mm) 8	tw (mm) 6	
FLANGE WIDTH	bf (mm) 200	bf (mm) 250	bf (mm) 150	
FLANGE THICKNESS	tf (mm) 8	tf (mm) 14	tf (mm) 8	

SCHEDULE OF STEEL SECTION
SCALE DNTS

SCHEDULE OF SLABS

FLOOR LEVEL	SLAB MARK	THICKNESS (mm)	ALONG SHORT DIRECTION				ALONG LONG DIRECTION				REMARKS		
			CONTINUOUS		CUT BARS	BENT BARS	CONTINUOUS		CUT BARS	BENT BARS			
			REBAR (mmØ)	TOP			BOTTOM	REBAR (mmØ)				TOP	BOTTOM
		120	10mmØ	150	150	150	150	10mmØ	150	150	150	150	2-WAY SLAB

SCHEDULE OF SLABS
SCALE DNTS



SCHEDULE OF GRADE BEAM

BEAM MARK	Fnet (KN)	B (mm)	D (mm)	REINFORCEMENTS						LENGTH (m) (C-C)	STIRRUPS
				CONTINUOUS			EXTRA				
				BAR "A" TOP	BAR "B" BOT	BAR "C" STIFFENER	BAR "D" L END TOP	BAR "E" MID BOT	BAR "F" R END TOP		
GRADE BEAM	300	500	500	2-20	2-20	2-12	1-20	1-20	1-20		12mmØ-5Ø50, 5Ø75, 5Ø100, Ø150 REST

SCHEDULE OF GRADE BEAM
SCALE DNTS

MARK	TYPE	DIMENSIONS (mm)			BOTTOM BARS	
		T	WIDTH	LENGTH	ALONG WIDTH	ALONG LENGTH
F-1	A	400	2400	2400	6-16mmØ	6-16mmØ
F-2	A	400	2100	2100	6-16mmØ	6-16mmØ
F-3	A	400	1900	1900	6-16mmØ	6-16mmØ

SCHEDULE OF FOOTINGS
SCALE DNTS



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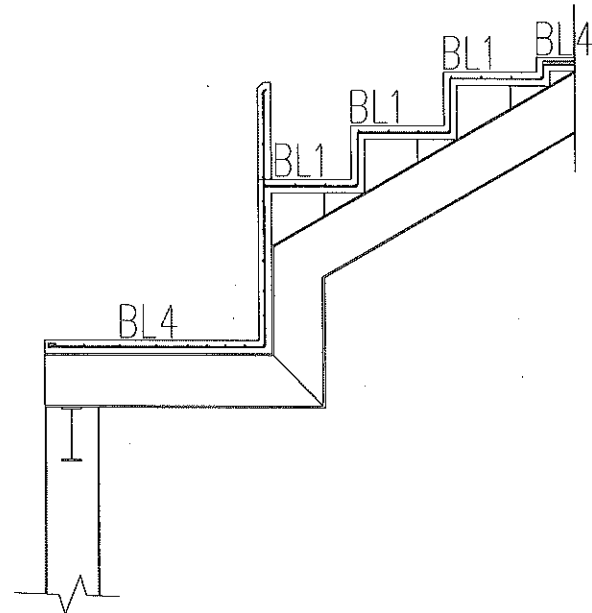
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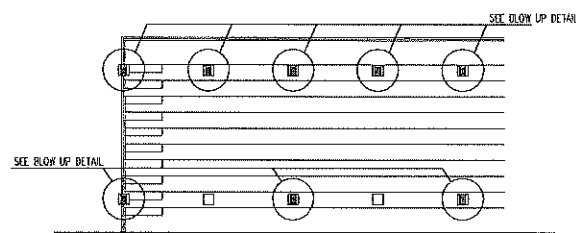
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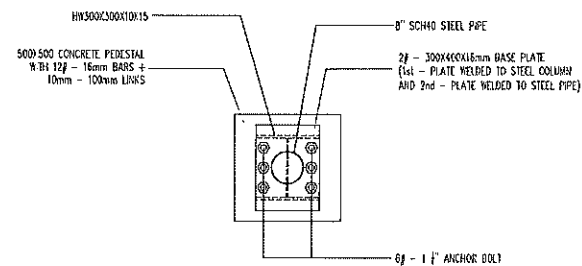
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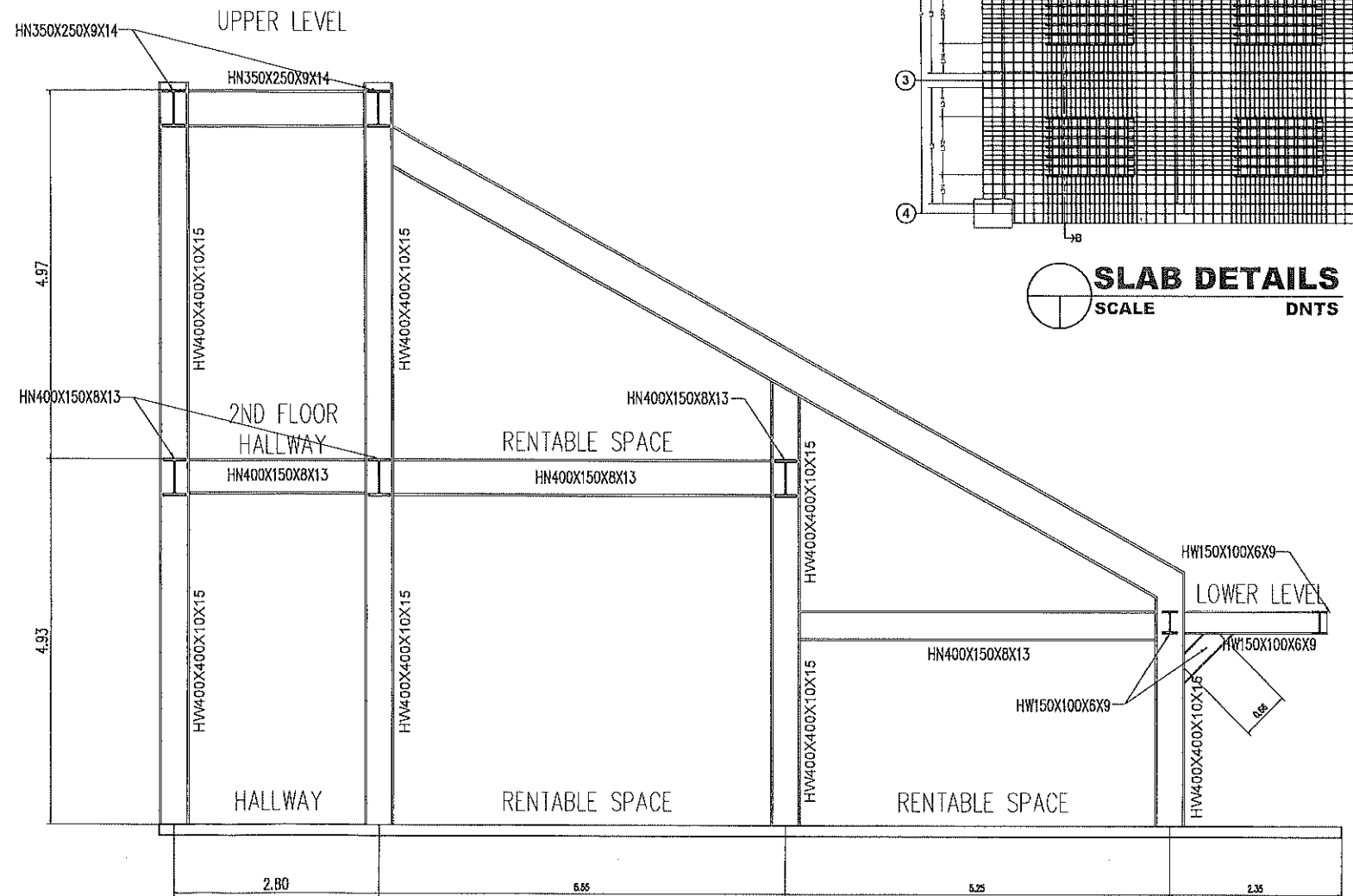
BLEACHERS SLAB DETAIL
SCALE DNTS



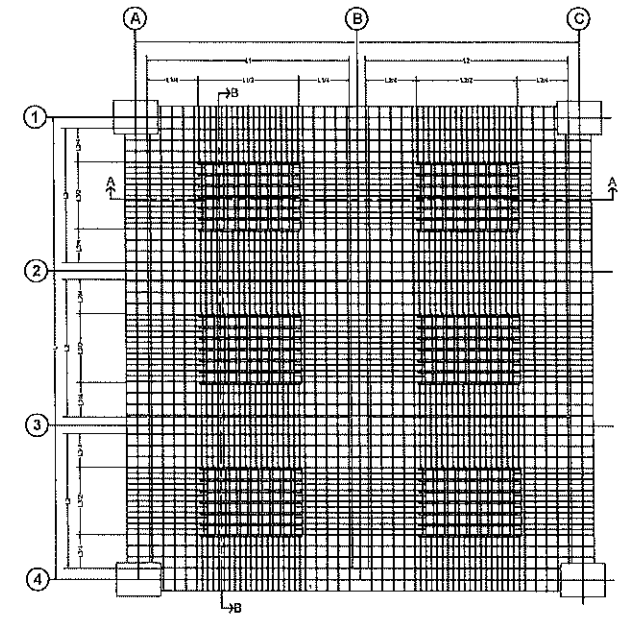
BLEACHERS CONNECTION DETAIL
SCALE DNTS



BLOWUP DETAIL
SCALE DNTS



BLEACHERS ELEVATION DETAIL
SCALE DNTS



SLAB DETAILS
SCALE DNTS



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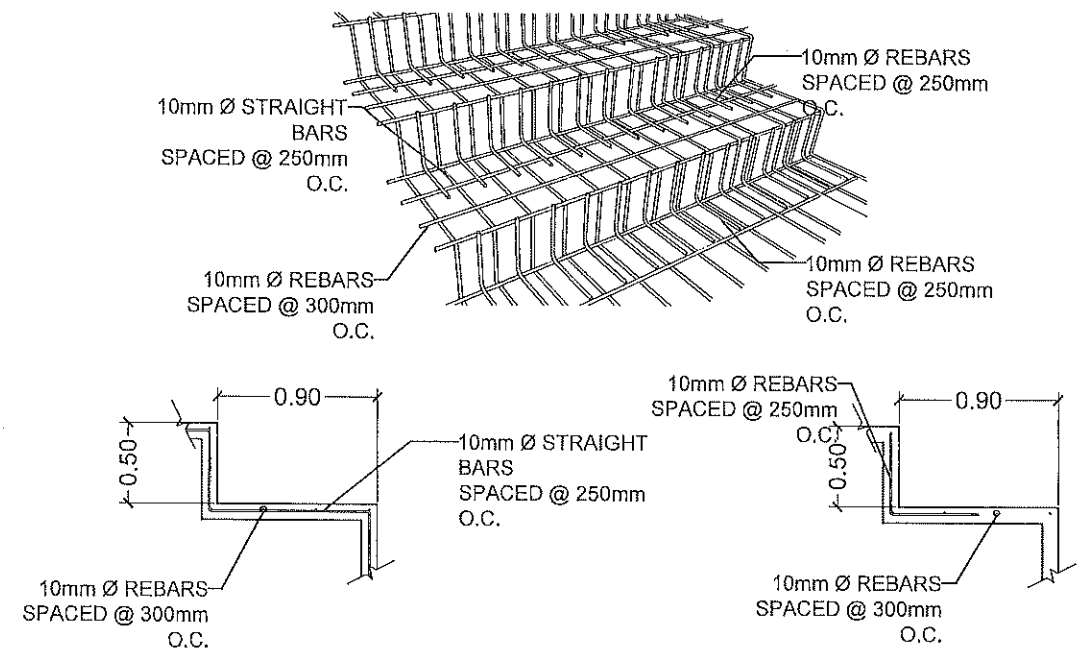
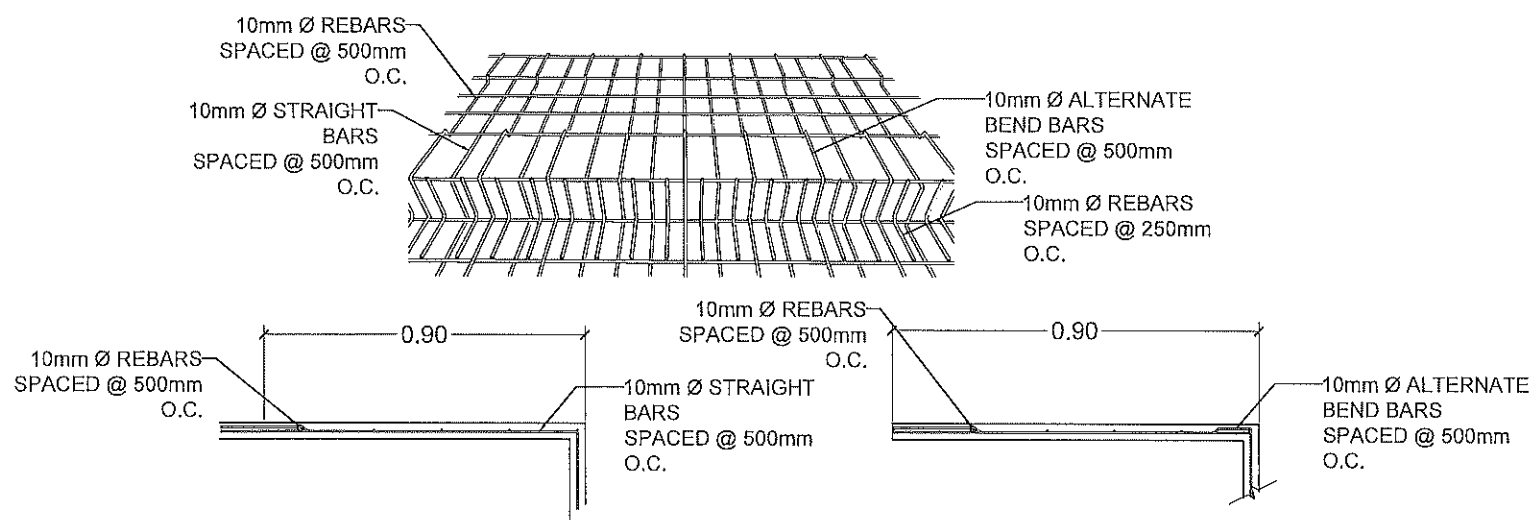
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BLEACHERS SLAB DETAIL
SCALE DNTS



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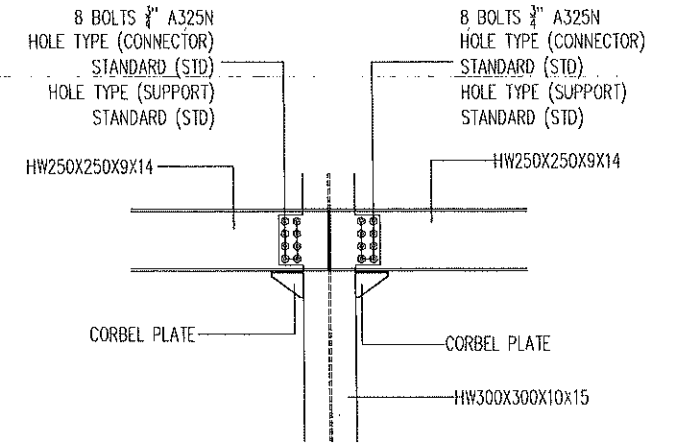
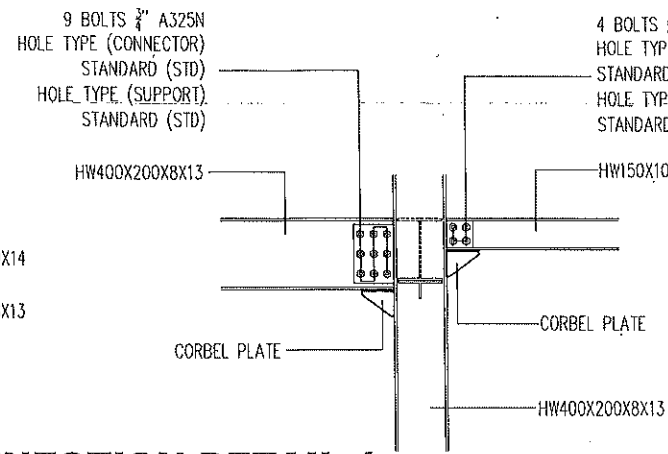
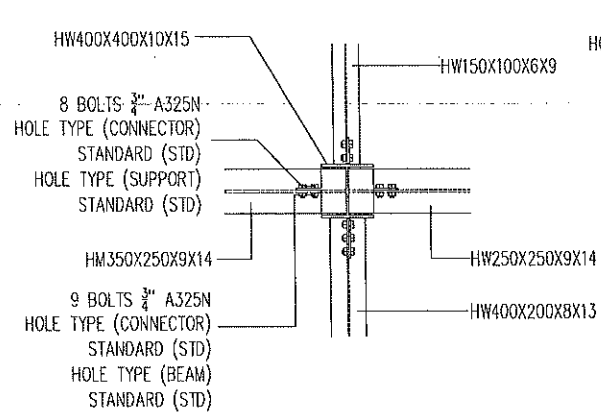
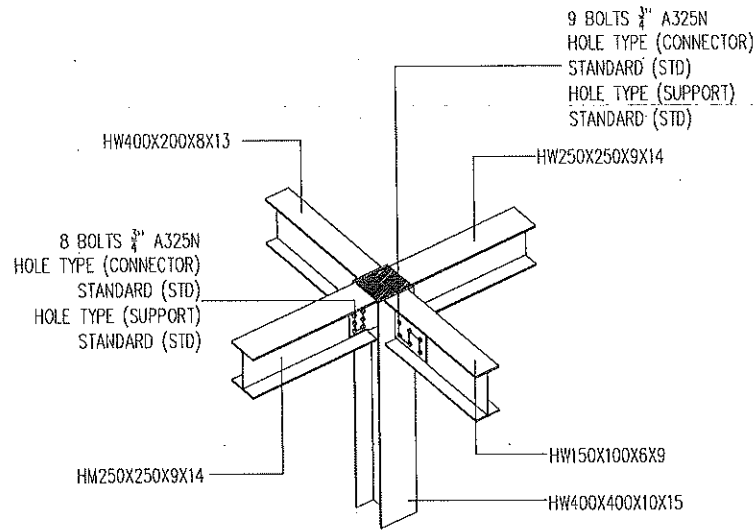
REVIEWED BY:
JOSEPH B. GONZALES
ENGINEER II
Planning and Programming Division Head

RECOMMENDING APPROVAL:
LEONERL MARCH P. SUARIO
Provincial Engineer

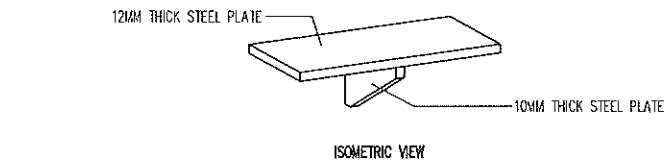
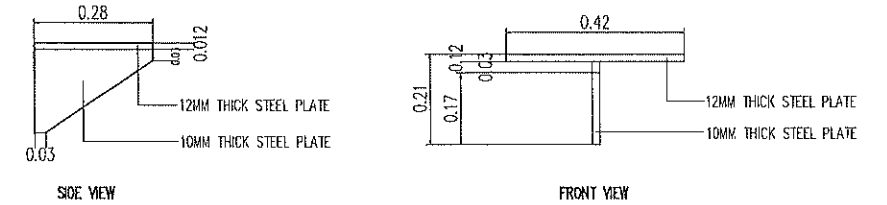
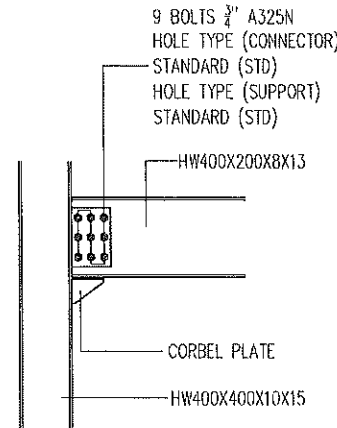
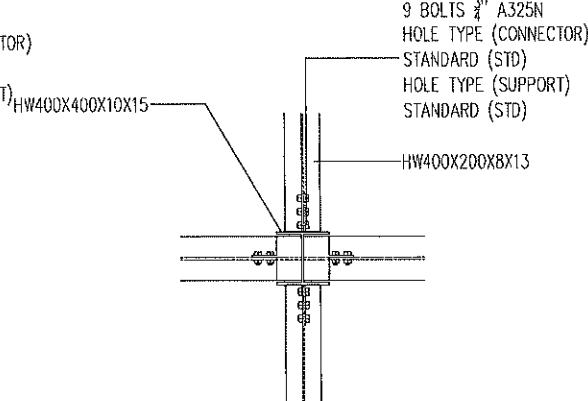
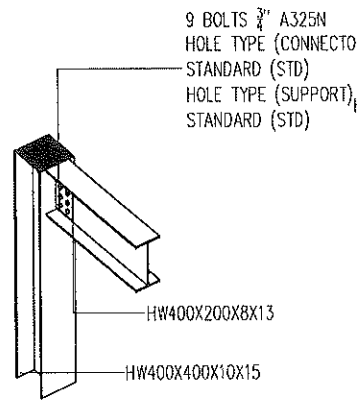
APPROVED BY:
YVONNE RONA CAGAS
Provincial Governor

S - 8

22 65

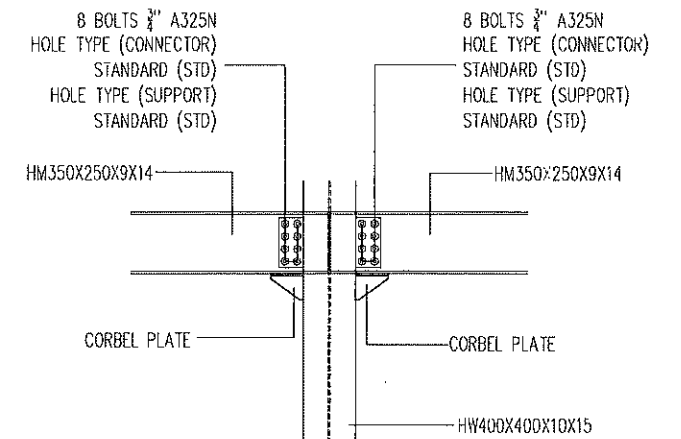
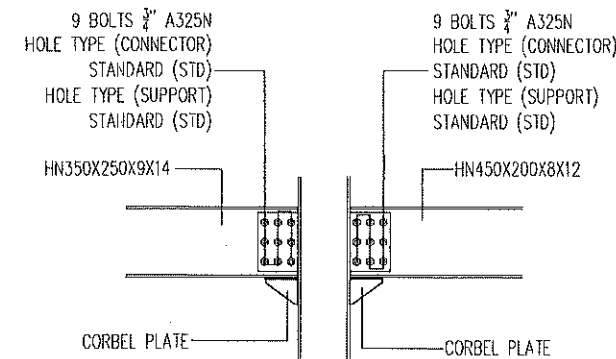
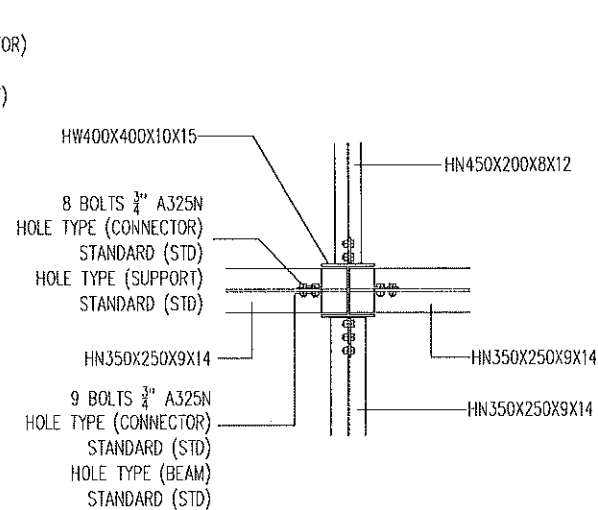
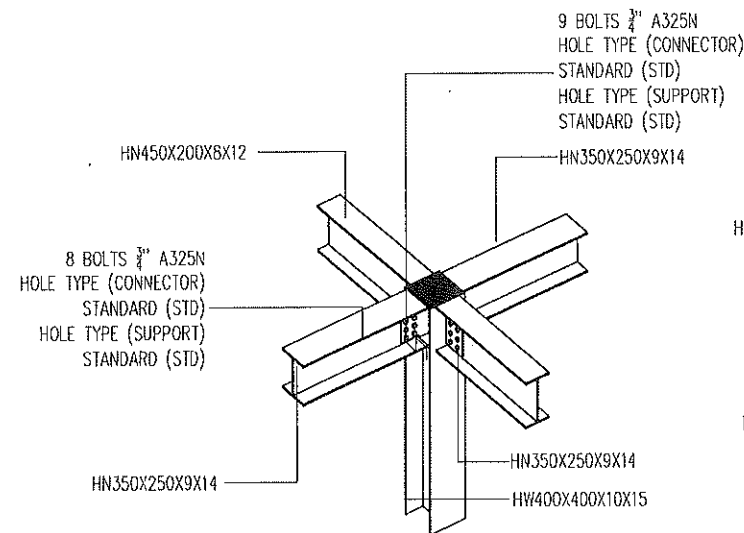


CONNECTION DETAIL 1
SCALE DNTS



CORBEL PLATE BLOW UP DETAIL
SCALE DNTS

CONNECTION DETAIL 2
SCALE DNTS



CONNECTION DETAIL 3
SCALE DNTS



REPUBLIC OF THE PHILIPPINES
PROVINCIAL ENGINEER'S OFFICE
SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR

PROJECT TITLE:
**IMPROVEMENT OF GOVERNOR DOUGLAS RALOTA CAGAS
SPORTS COMPLEX AND BUSINESS CENTER SITE
DEVELOPMENT (PHASE I)**

LOCATION:
MATTI, DIGOS CITY, DAVAO DEL SUR

DESIGNED & PREPARED BY:
JOSEPH RYAN B. REDOLOS
ENGINEER II

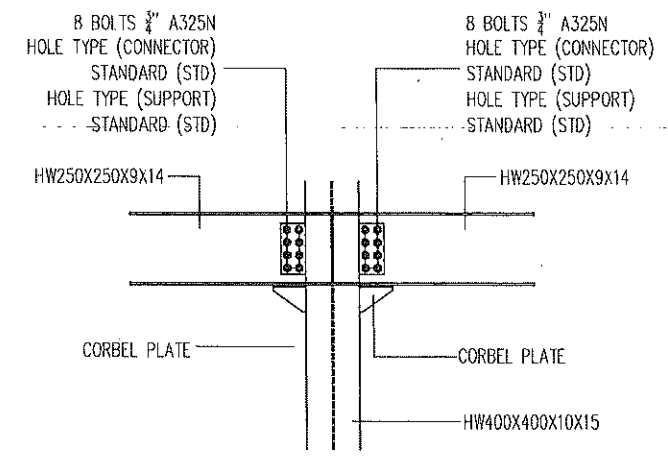
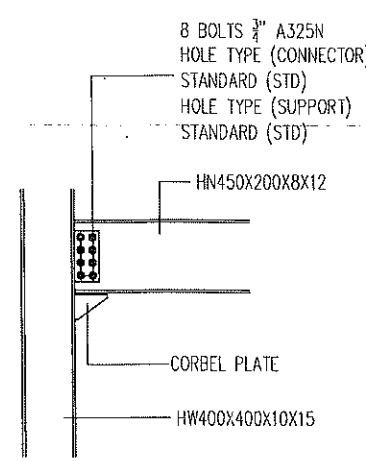
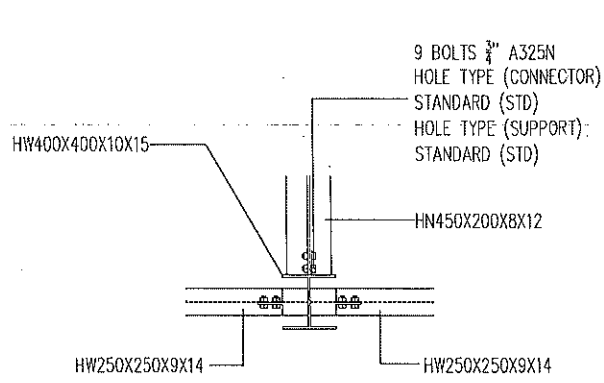
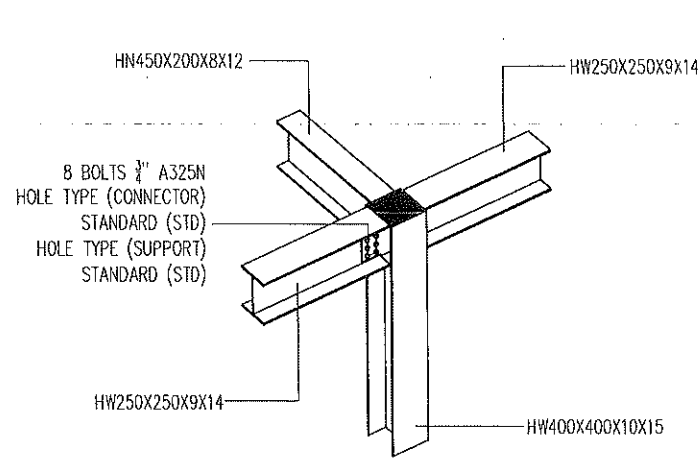
REVIEWED BY:
JOSEPH R. GONZALES
ENGINEER III
Planning and Programming Division Head

RECOMMENDING APPROVAL:
LEONERL MARCH P. SUARIO
Provincial Engineer

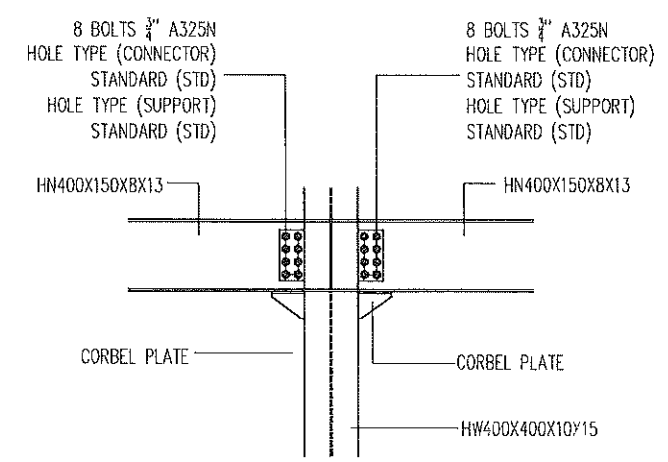
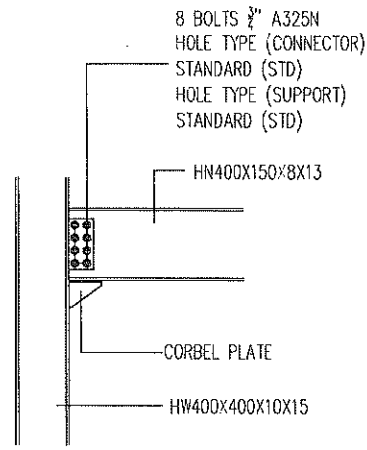
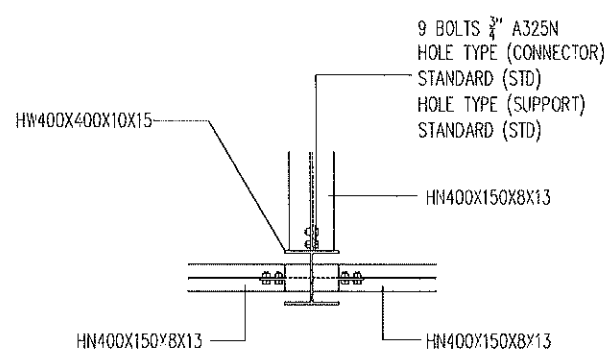
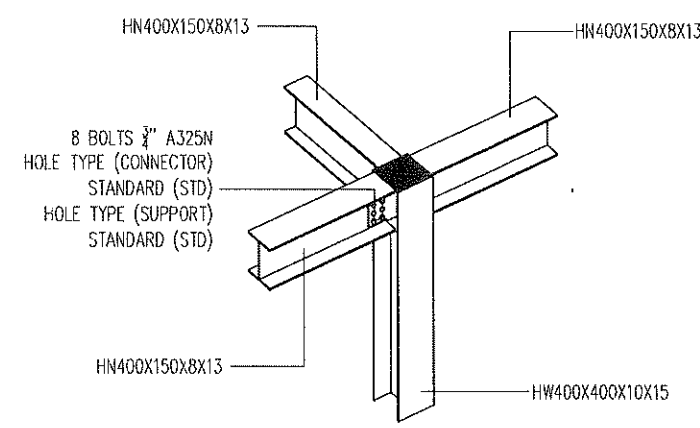
APPROVED BY:
YVONNE RONALD CAGAS
Provincial Governor

S - 9

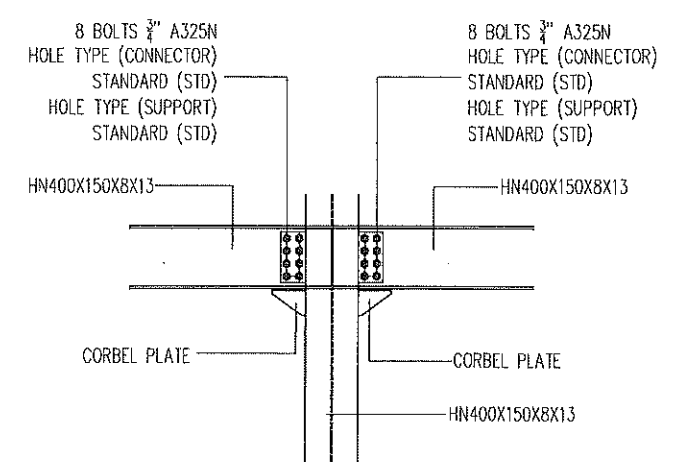
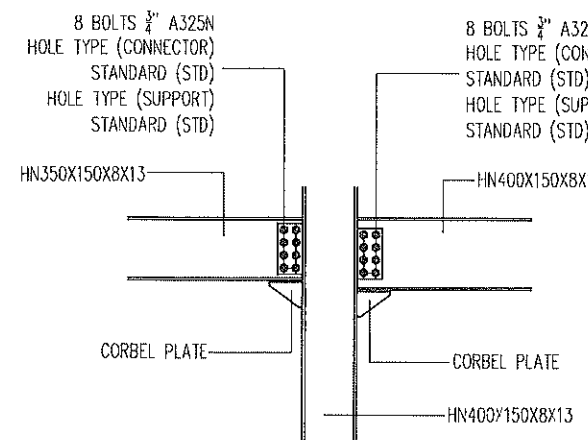
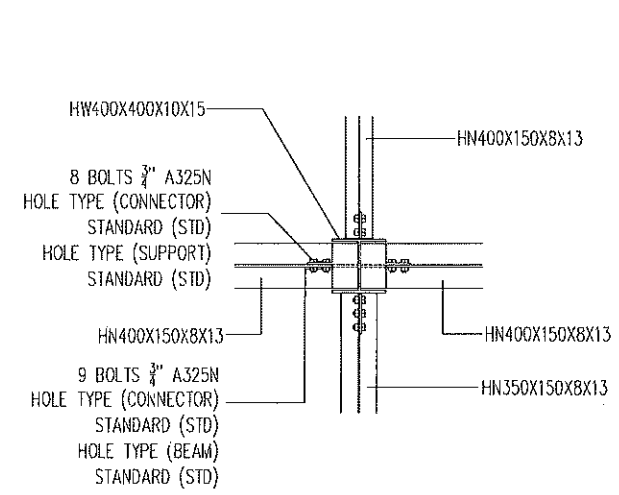
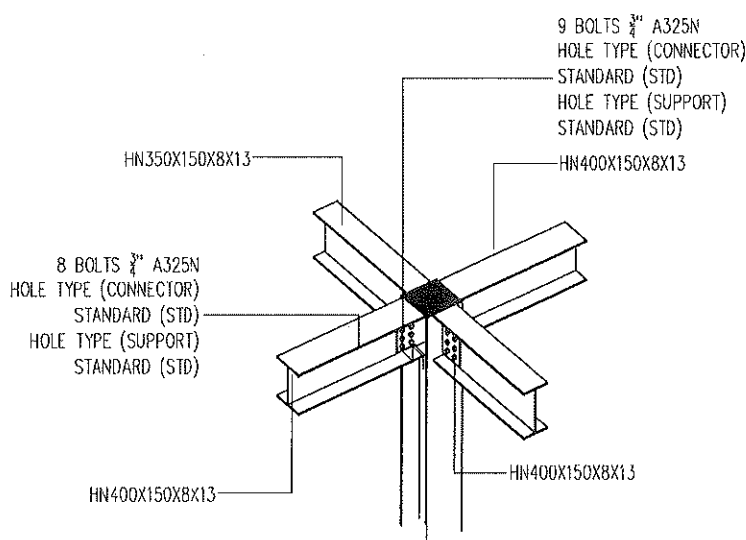
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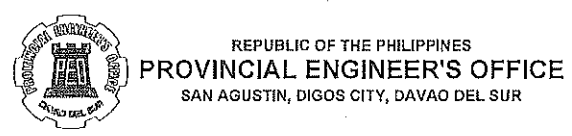
CONNECTION DETAIL 4
SCALE DNTS



CONNECTION DETAIL 5
SCALE DNTS



CONNECTION DETAIL 6
SCALE DNTS



PROJECT TITLE:
IMPROVEMENT OF GOVERNOR DOUGLAS RALOTA CAGAS SPORTS COMPLEX AND BUSINESS CENTER SITE DEVELOPMENT (PHASE I)

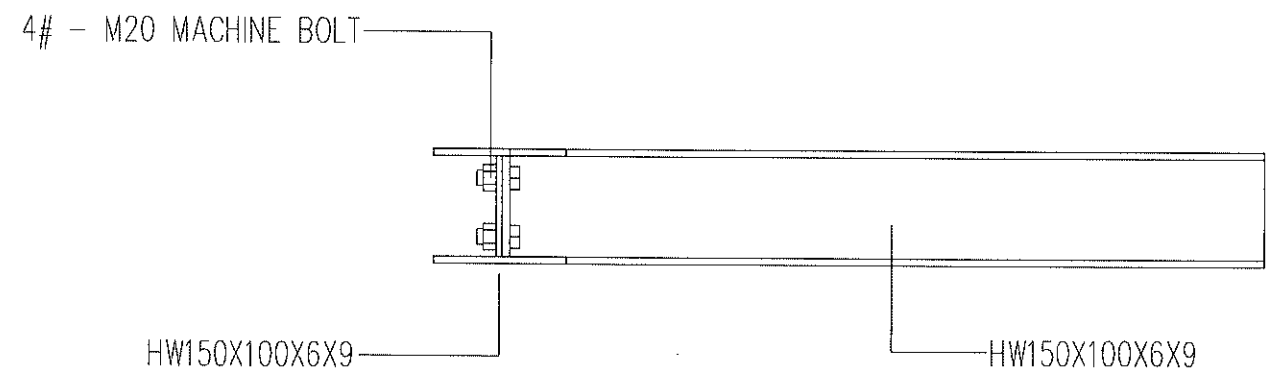
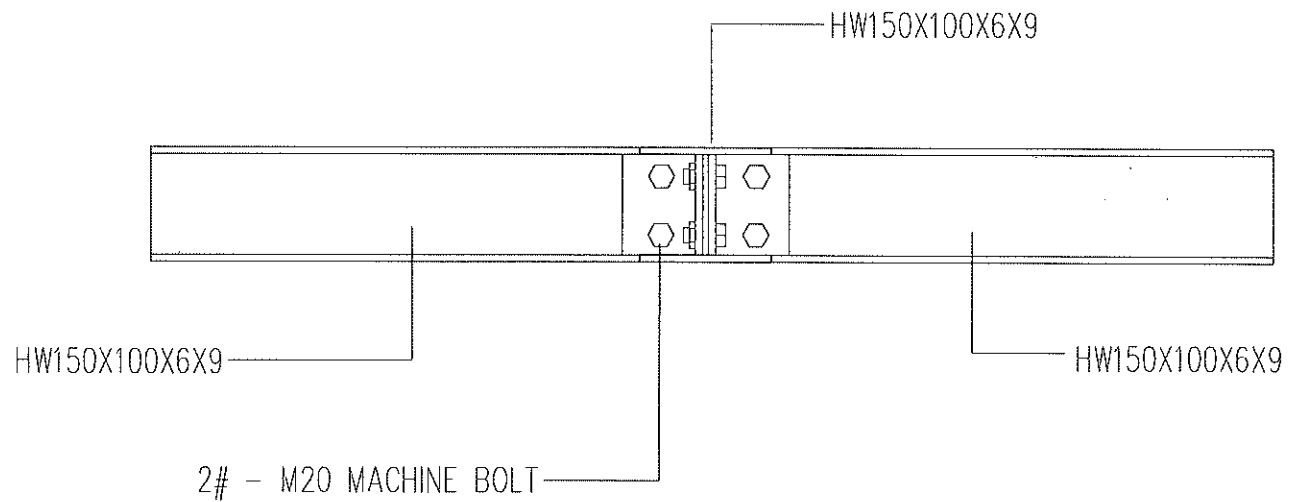
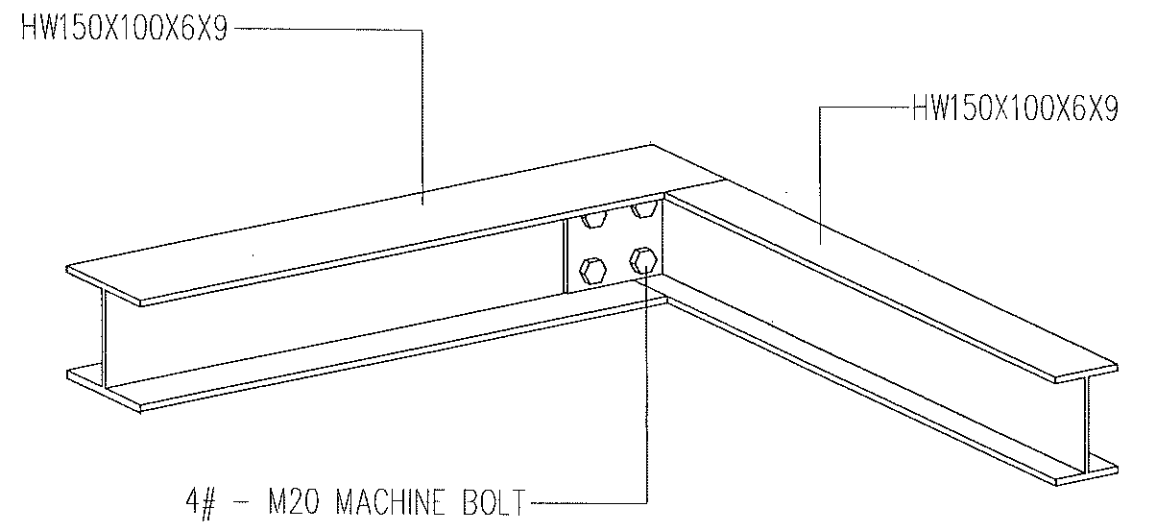
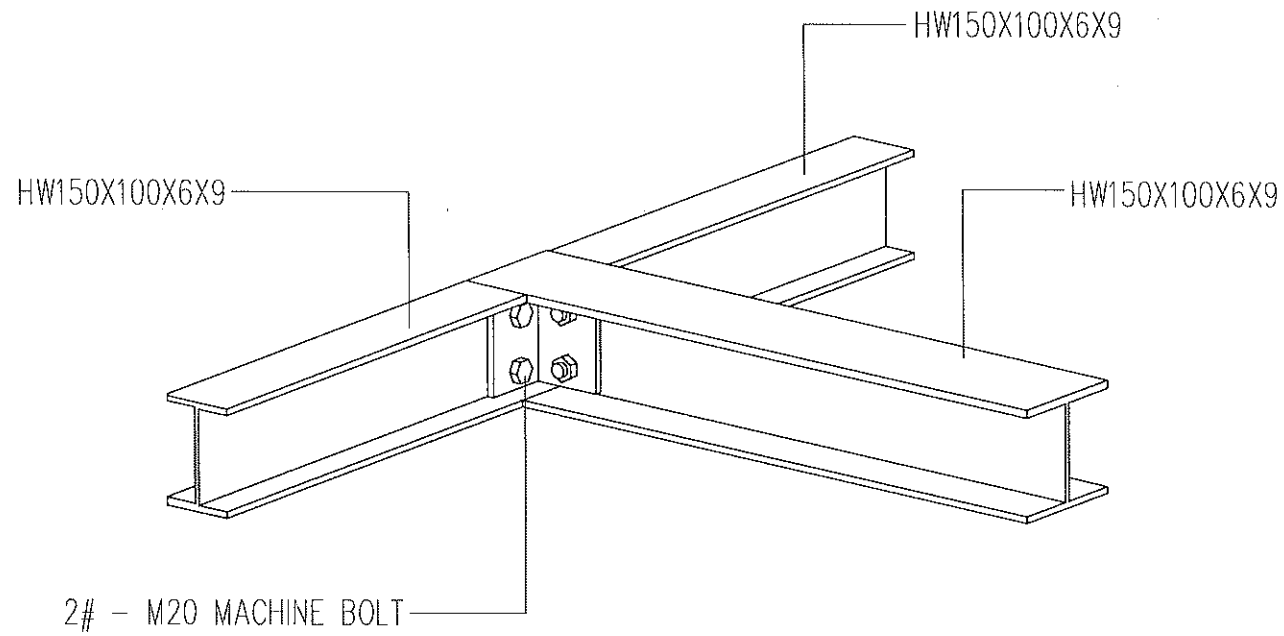
LOCATION:
MATTI, DIGOS CITY, DAVAO DEL SUR

DESIGNED & PREPARED BY:
JOSEPH RYAN B. REDOLOSO
ENGINEER II

REVIEWED BY:
JOSEPH R. GONZALES
ENGINEER III
Planning and Programming Division Head

RECOMMENDING APPROVAL:
LEONERL MARCH P. SUARIO
Provincial Engineer

APPROVED BY:
YVONNE ROMA CAGAS
Provincial Governor



CONNECTION DETAIL 7
SCALE DNTS

CONNECTION DETAIL 8
SCALE DNTS



REPUBLIC OF THE PHILIPPINES
PROVINCIAL ENGINEER'S OFFICE
SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR

PROJECT TITLE:
IMPROVEMENT OF GOVERNOR DOUGLAS RALOTA CAGAS
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DEVELOPMENT (PHASE I)

LOCATION:
MATTI, DIGOS CITY, DAVAO DEL SUR

DESIGNED & PREPARED BY:

JOSEPH RYAN B. REDOLOSO
ENGINEER II

REVIEWED BY:

JOSEPH R. GONZALES
ENGINEER III
Planning and Programming Division Head

RECOMMENDING APPROVAL:

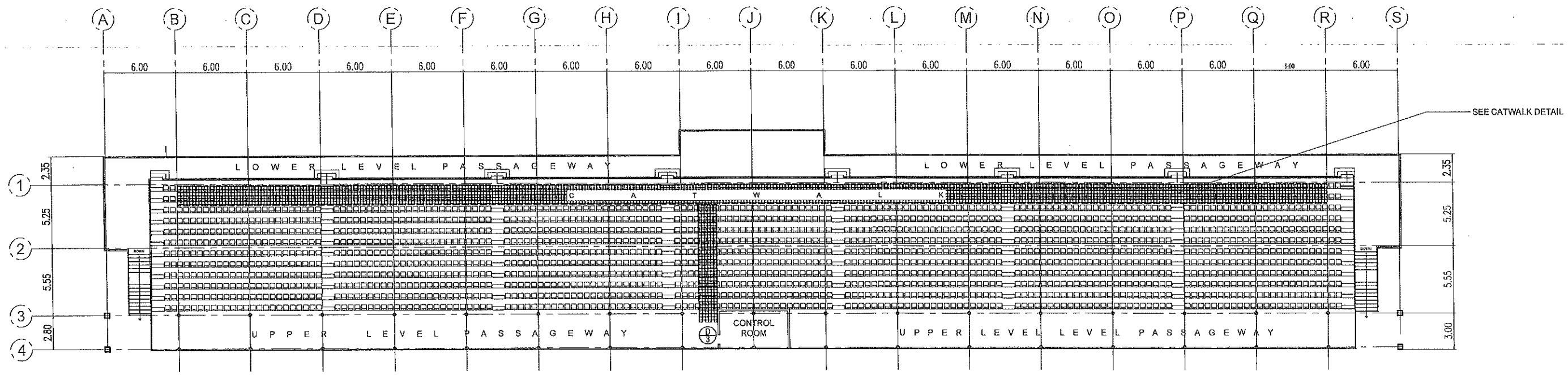
LEONERL MARCH P. SUARIO
Provincial Engineer

APPROVED BY:

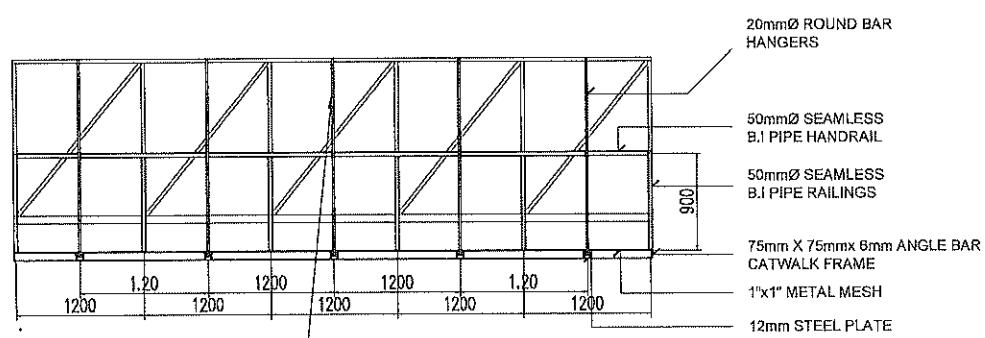
YVONNE RONA CAGAS
Provincial Governor

S - 11

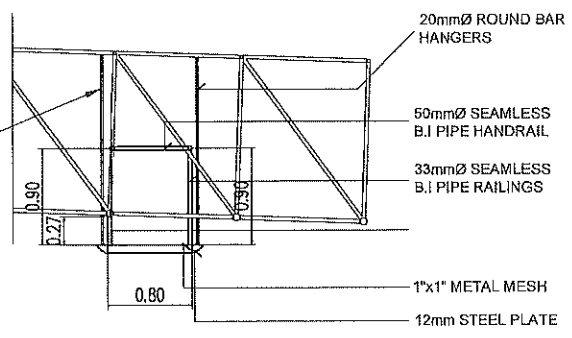
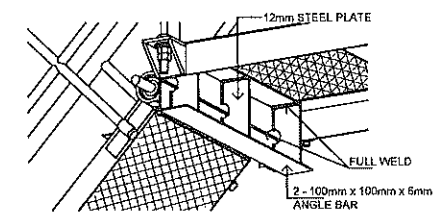
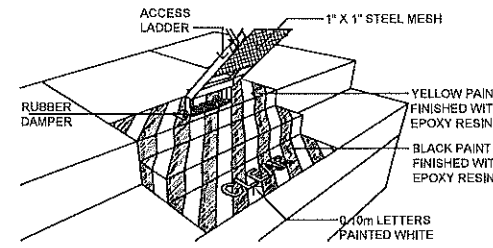
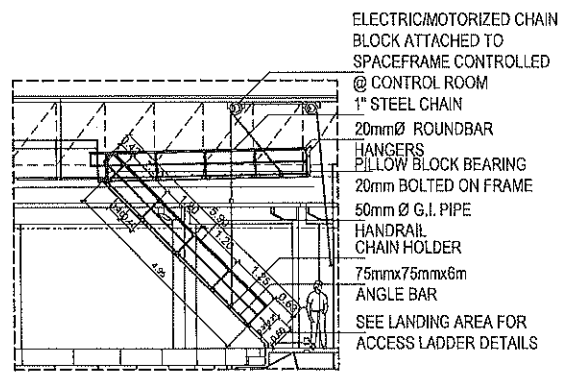
25 | 65



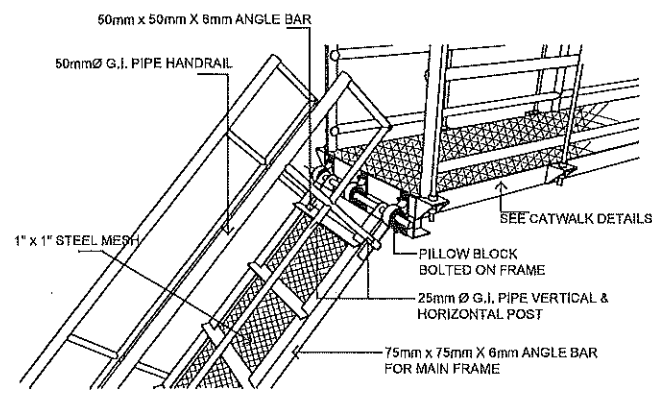
UPPER LEVEL FLOOR PLAN
SCALE DNTS



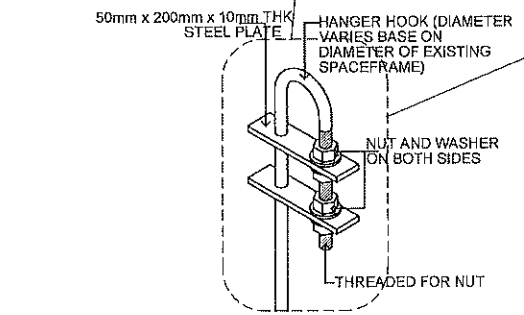
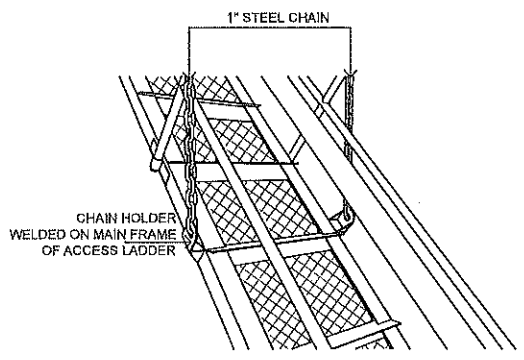
ELEVATION



SECTION



CATWALK DETAILS
SCALE DNTS



PROJECT TITLE:
IMPROVEMENT OF GOVERNOR DOUGLAS RALOTA CAGAS SPORTS COMPLEX AND BUSINESS CENTER SITE DEVELOPMENT (PHASE I)

LOCATION:
MATTI, DIGOS CITY, DAVAO DEL SUR

DESIGNED & PREPARED BY:
JOSEPH RYAN B. REDOLOSO
ENGINEER II

REVIEWED BY:
JOSEPH R. GONZALES
ENGINEER III
Planning and Programming Division Head

RECOMMENDING APPROVAL:
LEONERL MARCH P. SUARIO
Provincial Engineer

APPROVED BY:
YVONNE ROÑACAGAS
Provincial Governor



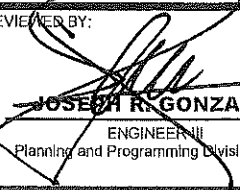
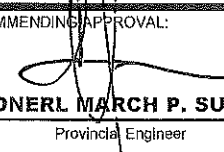
S - 12
26 65

GENERAL NOTES

1. ALL ELECTRICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE AND EXISTING LOCAL ORDINANCE AND REQUIREMENTS OF THE LOCAL POWER COMPANY.
2. THE TYPE OF POWER SERVICE SUPPLY SHALL BE THREE-PHASE, 3-WIRE, 230V, 60Hz, AC
3. THE CONTRACTOR SHALL VERIFY AND ORIENT THE ACTUAL LOCATION OF SERVICE ENTRANCE FOR CONNECTION TO POWER COMPANY SERVICE POINT.
4. ALL LIGHTING CIRCUIT HOME RUNS AND CONVENIENCE OUTLETS SHALL BE WIRED WITH NOT LESS THAN 3.5mm² IN SIZE. ALL 20 AMPERES CIRCUIT HOMERUNS TO PANEL BOARD MORE THAN 30 METERS IN LENGTH SHALL BE WIRED WITH 5.5mm² THHN IN SIZE, UNLESS OTHERWISE INDICATED.
5. ALL NON-CURRENT CARRYING METAL PARTS OF EQUIPMENT SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH THE REQUIREMENTS OF THE PHILIPPINE ELECTRICAL CODE.
6. ALL ELECTRICAL MATERIAL TO BE USED SHALL BE NEW AND OF THE APPROVED TYPE FOR THE LOCATION & PURPOSE
7. STANDARD TYPE OF ACCESSORIES, SPLICING DEVICES, TERMINATION AND OTHER APPURTENANCES FOR THE ENTIRE ELECTRICAL INSTALLATIONS SHALL BE USED.
8. MINIMUM BURIAL FOR UNDERGROUND CONDUIT MUST BE 600mm. CONDUITS MUST BE IN A WATERPROOFED CONCRETE ENCASEMENT WITH A MINIMUM CONCRETE COVER OF 75mm AND MUST BE STEEL REINFORCED IF IN AREA USED FOR TRAFFIC
9. ALL ELECTRICAL WORKS SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER.

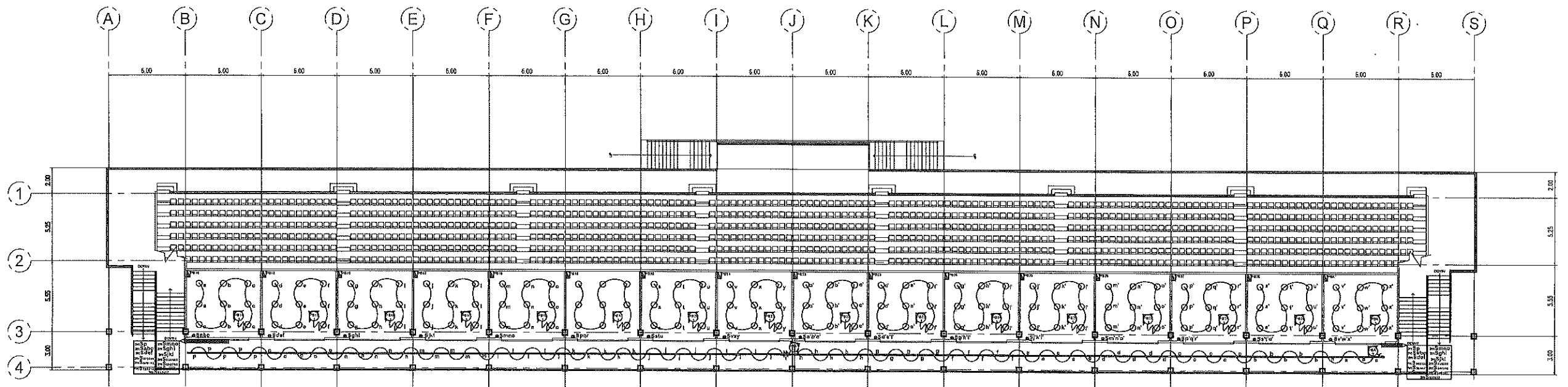
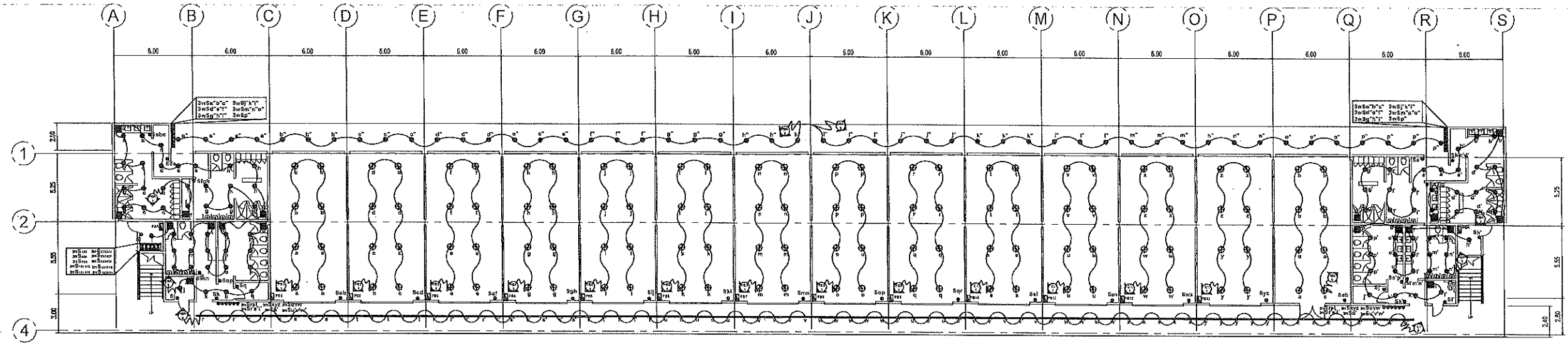
MOUNTING HEIGHTS ABOVE FINISH FLOOR LINE

SWITCHES	1.37 m CENTER
PANEL BOARD	1.83 m BOTTOM
ELECTRIC METER	1.83 m CENTER
CONVENIENCE OUTLET	0.30 m CENTER

 REPUBLIC OF THE PHILIPPINES PROVINCIAL ENGINEER'S OFFICE SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR	PROJECT TITLE: IMPROVEMENT OF GOVERNOR DOUGLAS RALOTA CAGAS SPORTS COMPLEX AND BUSINESS CENTER SITE DEVELOPMENT (PHASE I)	DESIGNED & PREPARED BY:  MARY FLOR L. HECTIN ENGINEER I	REVIEWED BY:  JOSEPH R. GONZALES ENGINEER III Planning and Programming Division Head	RECOMMENDING APPROVAL:  LEONERL MARCH P. SUARIO Provincial Engineer	APPROVED BY:  YVONNE ROÑA CAGAS Provincial Governor	E - 1
	LOCATION: MATTI, DIGOS CITY, DAVAO DEL SUR					27 65

LEGEND:

	18 WATTS LED PANEL LIGHT
	9 WATTS LED PANEL LIGHT
	9 WATTS COVERED T8 LED TUBE LIGHT
	500 WATT LED STADIUM LIGHT IP65 LED ARENA LIGHTS 8500K HIGH MAST LIGHT
	GRANDSTAND 100WATTS INDIRECT LIGHTING IP66 FLOOD LIGHT
	10" CEILING MOUNTED EXHAUST FAN
	OPEN / EXPOSED CEILING
	12mm THK. MOISTURE RESISTANT GYPSUM BOARD
	NEW PANEL BOARD
	CIRCUIT HOMERUN
	ONE-GANG SWITCH
	TWO-GANG SWITCH
	THREE-GANG SWITCH
	THREE-GANG THREE-WAY SWITCH
	ONE-GANG THREE-WAY SWITCH
	ONE-GANG UNIVERSAL CONVENIENCE OUTLET FOR EMERGENCY LIGHT
	TWO-GANG UNIVERSAL CONVENIENCE OUTLET
	AIR CONDITIONER UNIT



REPUBLIC OF THE PHILIPPINES
PROVINCIAL ENGINEER'S OFFICE
 SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR

PROJECT TITLE:
**IMPROVEMENT OF GOVERNOR DOUGLAS RALOTA CAGAS
 SPORTS COMPLEX AND BUSINESS CENTER SITE
 DEVELOPMENT (PHASE I)**

LOCATION:
MATTI, DIGOS CITY, DAVAO DEL SUR

DESIGNED & PREPARED BY:

Mary Flor L. Hectin
MARY FLOR L. HECTIN
 ENGINEER I

REVIEWED BY:

Jose D. Gonzales
JOSE D. GONZALES
 ENGINEER II
 Planning and Programming Division Head

RECOMMENDING APPROVAL:

Leonel March P. Suario
LEONEL MARCH P. SUARIO
 Provincial Engineer

APPROVED BY:

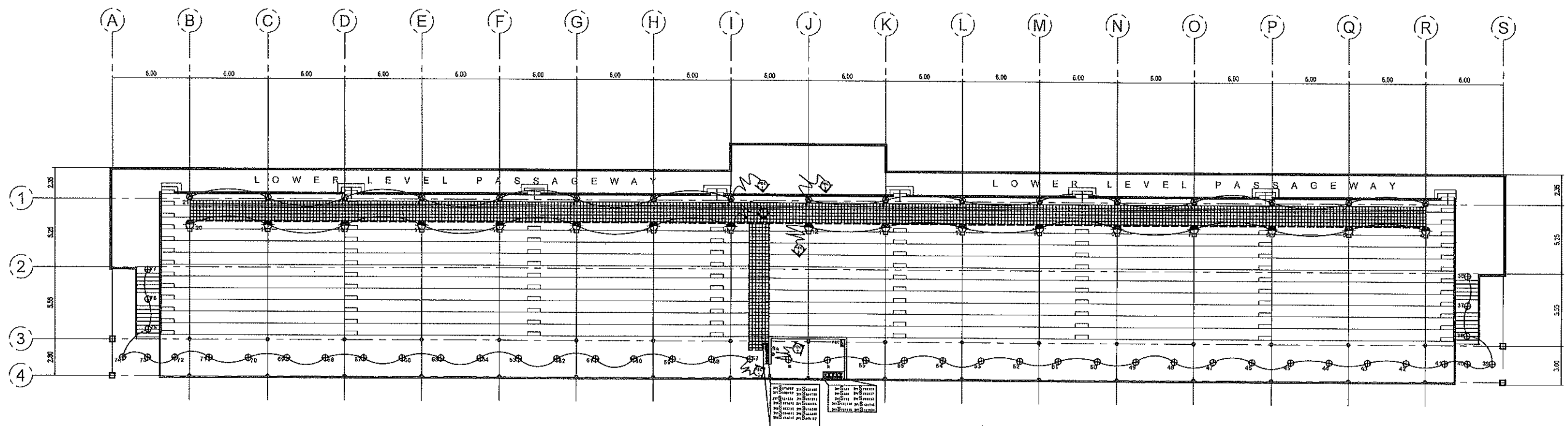
Yvonne Rona Cagas
YVONNE RONA CAGAS
 Provincial Governor

E - 2

28 65

LEGEND:

	18 WATTS LED PANEL LIGHT
	9 WATTS LED PANEL LIGHT
	9 WATTS COVERED T8 LED TUBE LIGHT
	500 WATT LED STADIUM LIGHT IP65 LED ARENA LIGHTS 6500K HIGH MAST LIGHT
	GRANDSTAND 100 WATTS INDIRECT LIGHTING IP65 FLOOD LIGHT
	10" CEILING MOUNTED EXHAUST FAN
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	CIRCUIT HOMERUN
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	TWO-GANG SWITCH
	THREE-GANG SWITCH
	THREE-GANG THREE-WAY SWITCH
	ONE-GANG THREE-WAY SWITCH
	ONE-GANG UNIVERSAL CONVENIENCE OUTLET FOR EMERGENCY LIGHT
	TWO-GANG UNIVERSAL CONVENIENCE OUTLET
	AIR CONDITIONER UNIT



UPPER LEVEL LIGHTING LAYOUT
SCALE DNTS



REPUBLIC OF THE PHILIPPINES
PROVINCIAL ENGINEER'S OFFICE
SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR

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LOCATION:
MATTI, DIGOS CITY, DAVAO DEL SUR

DESIGNED & PREPARED BY:

Mary Flor L. Hectin
MARY FLOR L. HECTIN
ENGINEER I

REVIEWED BY:

Joseph R. Gonzales
JOSEPH R. GONZALES
ENGINEER III
Planning and Programming Division Head

RECOMMENDING APPROVAL:

Leonerl March P. Suarion
LEONERL MARCH P. SUARION
Provincial Engineer

APPROVED BY:

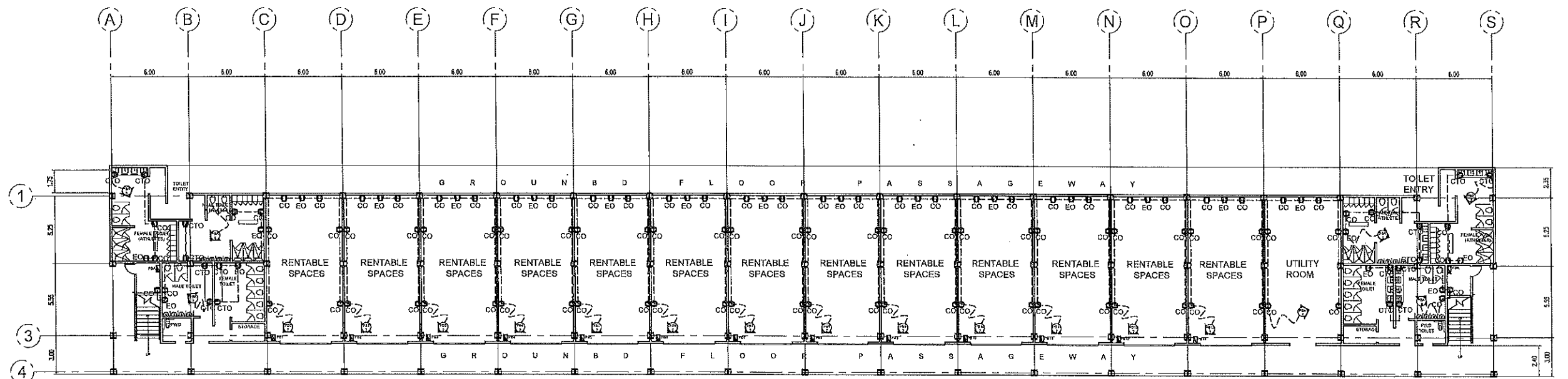
Yvonne Roña Cagas
YVONNE RONA CAGAS
Provincial Governor

E - 3

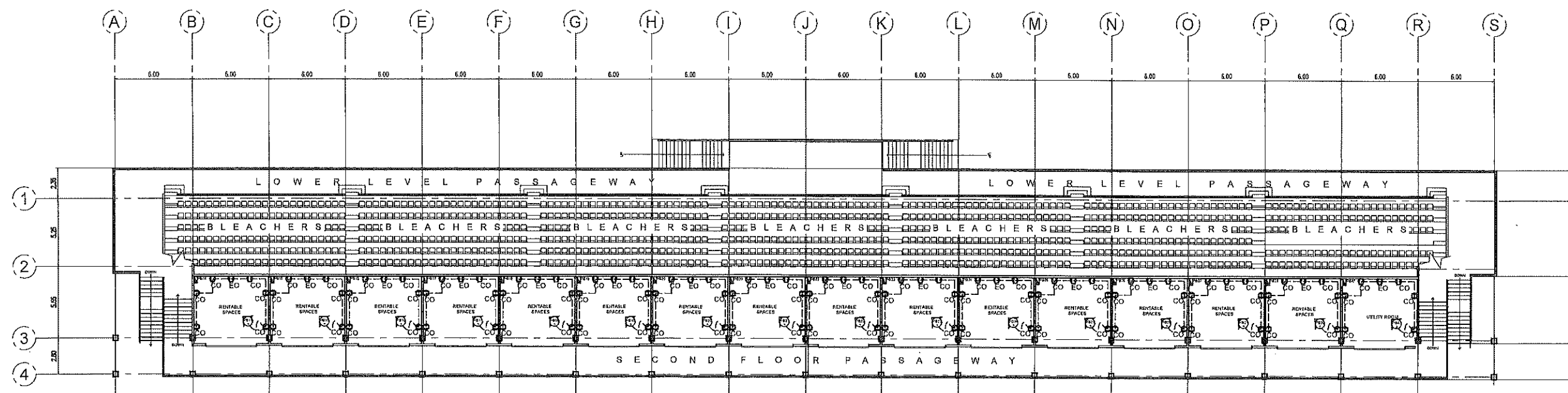
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LEGEND:

	18 WATTS LED PANEL LIGHT
	9 WATTS LED PANEL LIGHT
	9 WATTS COVERED T8 LED TUBE LIGHT
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	10" CEILING MOUNTED EXHAUST FAN
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	ONE-GANG THREE-WAY SWITCH
	ONE-GANG UNIVERSAL CONVENIENCE OUTLET FOR EMERGENCY LIGHT
	TWO-GANG UNIVERSAL CONVENIENCE OUTLET
	AIR CONDITIONER UNIT



GROUND FLOOR POWER LAYOUT
SCALE DNTS



SECOND FLOOR POWER LAYOUT
SCALE DNTS



REPUBLIC OF THE PHILIPPINES
PROVINCIAL ENGINEER'S OFFICE
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LOCATION:
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DESIGNED & PREPARED BY:
Mary Flor L. Hectin
MARY FLOR L. HECTIN
ENGINEER I

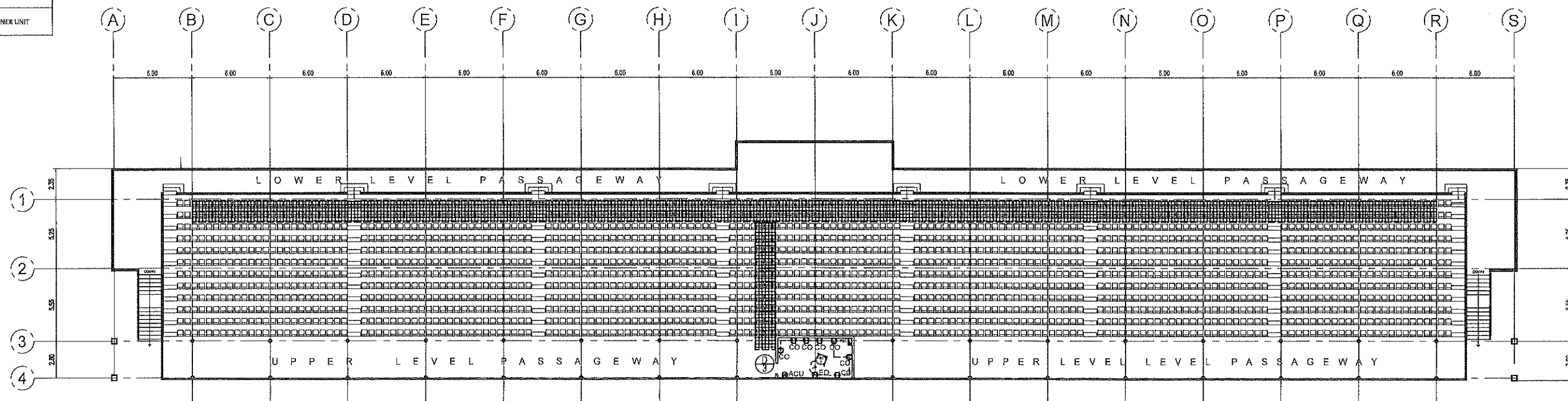
REVIEWED BY:
Joseph R. Gonzales
JOSEPH R. GONZALES
ENGINEER II
Planning and Programming Division Head

RECOMMENDING APPROVAL:
Leonel March P. Suarion
LEONEL MARCH P. SUARION
Provincial Engineer

APPROVED BY:
Yvonne Roña Cagas
YVONNE ROÑA CAGAS
Provincial Governor

E - 4
30 65

LEGEND:	
	18 WATTS LED PANEL LIGHT
	9 WATTS LED PANEL LIGHT
	9 WATTS COVERED T8 LED TUBE LIGHT
	500 WATT LED STADIUM LIGHT IP65 LED ARENA LIGHTS 6500K HIGH MAST LIGHT
	GRANDSTAND 100WATTS INDIRECT LIGHTING IP68 FLOOD LIGHT
	10" CEILING MOUNTED EXHAUST FAN
	OPEN / EXPOSED CEILING
	12mm THK. MOISTURE RESISTANT GYPSUM BOARD
	NEW PANEL BOARD
	CIRCUIT HOMERUN
	ONE-GANG SWITCH
	TWO-GANG SWITCH
	THREE-GANG SWITCH
	THREE-GANG THREE-WAY SWITCH
	ONE-GANG THREE-WAY SWITCH
	ONE-GANG UNIVERSAL CONVENIENCE OUTLET FOR EMERGENCY LIGHT
	TWO-GANG UNIVERSAL CONVENIENCE OUTLET
	AIR CONDITIONER UNIT



UPPER LEVEL POWER LAYOUT
 SCALE: DNTS



REPUBLIC OF THE PHILIPPINES
PROVINCIAL ENGINEER'S OFFICE
 SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR

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 SPORTS COMPLEX AND BUSINESS CENTER SITE
 DEVELOPMENT (PHASE I)**

LOCATION:
MATTI, DIGOS CITY, DAVAO DEL SUR

DESIGNED & PREPARED BY:

MARY FLOR L. HECTIN
 ENGINEER I

REVIEWED BY:

JOSEPH R. GONZALES
 ENGINEER III
 Planning and Programming Division Head

RECOMMENDING APPROVAL:

LEONERL MARCH P. SUARIO
 Provincial Engineer

APPROVED BY:

YVONNE RONA CAGAS
 Provincial Governor

E - 5

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TOTAL CONNECTED LOADS: MDP

CIRCUIT NO.	DESCRIPTION	QTY.	VOLTS	AMPERES				WATTS	TRIP	POLE	WIRE SIZE	PIPE SIZE	COMPUTATION :	TRANSFORMER REQUIREMENTS:
				AB	BC	CA	3-Ø							
1	DP - ATS	1	230	109.18	109.04	112.17	96		1200A	3	4 SETS OF 3 - 250mm ² THW, 1-30mm ² TW CU. WIRE	100mmØ RSC	COMPUTATION : $I_{total} = 17(0.25) + 1002.42(1.732) + 96$ $= 1836.44AMP + 900AMP \text{ FUTURE LOAD}$ $= 2736.44AMPERES$ MAIN CIRCUIT BREAKER: 3500AT, 4000AF, 3PHASE, Automatic Transfer Switch (ATS), Inside 10 Branches Unitized Panel Board. MAIN CONDUCTOR: 5sets of 3-250mm ² THHN inside 100mmØ RSC Pipe	TRANSFORMER REQUIREMENTS: $KVA = \frac{2736.44A(230)(1.732)}{1000}$ $KVA = 1090.09$ USE: 3- 500KVA, DISTRIBUTION TRANSFORMER 7620V Pri. / 230V SEC.
2	DP1 - ATS	1	230	359.80	375.62	408.52		1000A	3	3 SETS OF 3 - 250mm ² THW, 1-30mm ² TW CU. WIRE	100mmØ RSC			
3	DP2 - ATS	1	230	411.20	402.45	444.15		1000A	3	3 SETS OF 3 - 250mm ² THW, 1-30mm ² TW CU. WIRE	100mmØ RSC			
4	SPARE	1	230	66.86				175A	3					
5	SPARE	1	230		55.55			150A	3					
6	SPARE	1	230			37.58		150A	3					
7	SPARE	1	230	44				150A	3					
8	SPARE	1	230		43			250A	3					
9	SPACE													
10	SPACE													
TOTAL CONNECTED LOAD				991.04	985.66	1002.42	96		3500A	3	5sets of 3-250mm ² THHN, 1-30MM ² THHN CU. WIRE	100mmØ RSC		

MDP

FREE STANDING, 100% GALVANIZED SHEET WITH PAINT (POWDER COATED)
FULLY BOLTED CONSTRUCTION ENCLOSURE , NEMA -1

MAIN :

MCCB RATED AT 3500 AT, 3p, 100KA @ 240V, ELECTRICALLY OPERATED

METERING:

POWERLOGIC DIGITAL POWER METER, AUX, SUPPLY 240VAC, W/ BASIC METERING
CURRENT TRANSFORMER, RING TYPE, RATIO 1000: 5A, 15VA, 660V, POWERBOX
MINIATURE CB RATED AT 6A, 3P, 20KA @240V
TERMINAL BLOCK, 12 PTS, 20A

MECHANICAL AND ELECTRICAL INTERLOCK:

MECHANICAL INTERLOCK FOR 1600 AF, WALKING BEAM TYPE
POWERBOX ATS CONTROLLER
MINIATURE CB RATED AT 10A, 1P, 10KA @ 240V
MINIATURE CB RATED AT 10A, 2P, 20KA @ 240V
MINIATURE CB RATED AT 10 A, 3P, 20KA @ 240V
BATTERY CHARGER 230V INPUT - 12 VAC, OMRON
TERMINAL BLOCK, 12PTS, 20A



REPUBLIC OF THE PHILIPPINES
PROVINCIAL ENGINEER'S OFFICE
SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR

PROJECT TITLE:
**IMPROVEMENT OF GOVERNOR DOUGLAS RALOTA CAGAS
SPORTS COMPLEX AND BUSINESS CENTER SITE
DEVELOPMENT (PHASE I)**

LOCATION:
MATTI, DIGOS CITY, DAVAO DEL SUR

DESIGNED & PREPARED BY:

Mary Flor L. Hectin
MARY FLOR L. HECTIN
ENGINEER I

REVIEWED BY:

Joseph R. Gonzales
JOSEPH R. GONZALES
ENGINEER II
Planning and Programming Division Head

RECOMMENDING APPROVAL:

Leonerl March P. Suario
LEONERL MARCH P. SUARIO
Provincial Engineer

APPROVED BY:

Yvonne Roña Cagas
YVONNE RONA CAGAS
Provincial Governor

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SCHEDULE OF LOADS AND COMPUTATION: DP - ATS

CIRCUIT NO.	DESCRIPTION	QTY.	VOLTS	AMPERES				WATTS	TRIP	POLE	WIRE SIZE	PIPE SIZE	COMPUTATION :
				AB	BC	CA	3-Ø						
1	PBC	1	230	26.74	25.48	24.95	19.20		100A	3	3 - 30mm ² THW, 1-8.0mm ² THW CU. WIRE	50mmØ RSC	COMPUTATION : $I_{total} = 17 (0.25) + 112.17 (1.732) + 96$ $= 294.53 \text{ AMP} + 300 \text{ AMP FUTURE LOAD}$ $= 594.53 \text{ AMPERE}$ USE : 4 SETS OF 3-250MM ² THW + 1-30MM ² TW WIRE AT 100MM DIA. RSC PIPE MAIN BREAKER : 1200 AT, 1500AF, 3 PHASE, 100KAIC AUTOMATIC TRANSFER SWITCH (ATS), INSIDE 10 BRANCHES UNITIZED PANEL BOARD
2	PBA"	1	230	28.74	32.87	33.21	19.20		100A	3	3 - 30mm ² THW, 1-8.0mm ² THW CU. WIRE	50mmØ RSC	
3	PBA'	1	230	13.48	13.39	14.53	19.20		70A	3	3- 22mm ² THW, 1-5.5mm ² THW CU. WIRE	40mmØ RSC	
4	PBA	1	230	13.48	11.82	14.53	19.20		70A	3	3 - 22mm ² THW, 1-5.5mm ² THW CU. WIRE	40mmØ RSC	
5	PB - COURT	1	230	26.74	25.48	24.95	19.20		100A	3	3 - 30mm ² THW, 1-8.0mm ² THW CU. WIRE	50mmØ RSC	
6	SPARE	1	230						100A	3			
7	SPARE	1	230						100A	3			
8	SPARE	1	230						100A	3			
9	SPARE	1	230						100A	3			
10	SPARE	1	230						100A	3			
TOTAL CONNECTED LOAD				109.18	109.04	112.17	96		1200A	3	4 SETS OF 3 - 250mm ² THW, 1-30mm ² TW CU. WIRE	100mmØ RSC	

DP -ATS (ASSY)

FREE STANDING, 100% GALVANIZED SHEET WITH PAINT (POWDER COATED)
FULLY BOLTED CONSTRUCTION ENCLOSURE , NEMA -1

MAIN :

MCCB RATED AT 800 AT, 3PHASE, 70KA @ 240V, ELECTRICALLY OPERATED

METERING:

POWERLOGIC DIGITAL POWER METER, AUX, SUPPLY 240VAC, W/ BASIC METERING
CURRENT TRANSFORMER, RING TYPE, RATIO 1000: 5A, 15VA, 660V, POWERBOX
MINIATURE CB RATED AT 6A, 3P, 20KA @240V
TERMINAL BLOCK, 12 PTS, 20A

MECHANICAL AND ELECTRICAL INTERLOCK:

MECHANICAL INTERLOCK FOR 1200 AF, WALKING BEAM TYPE
POWERBOX ATS CONTROLLER
MINIATURE CB RATED AT 10A, 1P, 10KA @ 240V
MINIATURE CB RATED AT 10A, 2P, 20KA @ 240V
MINIATURE CB RATED AT 10 A, 3P, 20KA @ 240V
BATTERY CHARGER 230V INPUT - 12 VAC, OMRON
TERMINAL BLOCK, 12PTS, 20A



REPUBLIC OF THE PHILIPPINES
PROVINCIAL ENGINEER'S OFFICE
SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR

PROJECT TITLE:
**IMPROVEMENT OF GOVERNOR DOUGLAS RALOTA CAGAS
SPORTS COMPLEX AND BUSINESS CENTER SITE
DEVELOPMENT (PHASE I)**

LOCATION:
MATTI, DIGOS CITY, DAVAO DEL SUR

DESIGNED & PREPARED BY:

MARY FLOR L. HECTIN
ENGINEER I

REVIEWED BY:

JOSEPH R. GONZALES
ENGINEER III
Planning and Programming Division Head

RECOMMENDING APPROVAL:

LEONERL MARCH P. SUARIO
Provincial Engineer

APPROVED BY:

YVONNE RONÁ CAGAS
Provincial Governor

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SCHEDULE OF LOADS AND COMPUTATION: DP1 - ATS

CIRCUIT NO.	DESCRIPTION	QTY.	VOLTS	AMPERES				WATTS	TRIP	POLE	WIRE SIZE	PIPE SIZE	COMPUTATION :
				AB	BC	CA	3-Ø						
1	PB1	1	230	25.7	26.83	29.18			70A	3	3 - 22mm ² THW, 1-5.5mm ² THW CU. WIRE	40mmØ RSC	$I_{max} : 408.52 \times 1.732 = 707.56 \text{ AMP}$ USE : 3 SETS OF 3-250MM ² THW + 1-30MM ² TW WIRE AT 100MM DIA. RSC PIPE MAIN BREAKER : 1000 AT, 1200AF, 3 PHASE, 70KAIC AUTOMATIC TRANSFER SWITCH (ATS), INSIDE 16 BRANCHES UNITIZED PANEL BOARD
2	PB2	1	230	25.7	26.83	29.18			70A	3	3 - 22mm ² THW, 1-5.5mm ² THW CU. WIRE	40mmØ RSC	
3	PB3	1	230	25.7	26.83	29.18			70A	3	3 - 22mm ² THW, 1-5.5mm ² THW CU. WIRE	40mmØ RSC	
4	PB4	1	230	25.7	26.83	29.18			70A	3	3 - 22mm ² THW, 1-5.5mm ² THW CU. WIRE	40mmØ RSC	
5	PB5	1	230	25.7	26.83	29.18			70A	3	3 - 22mm ² THW, 1-5.5mm ² THW CU. WIRE	40mmØ RSC	
6	PB6	1	230	25.7	26.83	29.18			70A	3	3 - 22mm ² THW, 1-5.5mm ² THW CU. WIRE	40mmØ RSC	
7	PB7	1	230	25.7	26.83	29.18			70A	3	3 - 22mm ² THW, 1-5.5mm ² THW CU. WIRE	40mmØ RSC	
8	PB8	1	230	25.7	26.83	29.18			70A	3	3 - 22mm ² THW, 1-5.5mm ² THW CU. WIRE	40mmØ RSC	
9	PB9	1	230	25.7	26.83	29.18			70A	3	3 - 22mm ² THW, 1-5.5mm ² THW CU. WIRE	40mmØ RSC	
10	PB10	1	230	25.7	26.83	29.18			70A	3	3 - 22mm ² THW, 1-5.5mm ² THW CU. WIRE	40mmØ RSC	
11	PB11	1	230	25.7	26.83	29.18			70A	3	3 - 22mm ² THW, 1-5.5mm ² THW CU. WIRE	40mmØ RSC	
12	PB12	1	230	25.7	26.83	29.18			70A	3	3 - 22mm ² THW, 1-5.5mm ² THW CU. WIRE	40mmØ RSC	
13	PB13	1	230	25.7	26.83	29.18			70A	3	3 - 22mm ² THW, 1-5.5mm ² THW CU. WIRE	40mmØ RSC	
14	SPARE	1	230	25.7					70A	3			
15	SPARE	1	230		26.83				70A	3			
16	SPARE	1	230			29.18			70A	3			
TOTAL CONNECTED LOAD				359.80	375.62	408.52			1000A	3	3 SETS OF 3 - 250mm ² THW, 1-30mm ² TW CU. WIRE	100mmØ RSC	

DP1 -ATS (ASSY)

FREE STANDING, 100% GALVANIZED SHEET WITH PAINT (POWDER COATED)
FULLY BOLTED CONSTRUCTION ENCLOSURE , NEMA -1

MAIN :

MCCB RATED AT 1000 AT, 3PHASE, 70KA @ 240V, ELECTRICALLY OPERATED

METERING:

POWERLOGIC DIGITAL POWER METER, AUX, SUPPLY 240VAC, W/ BASIC METERING
CURRENT TRANSFORMER, RING TYPE, RATIO 1000: 5A, 15VA, 660V, POWERBOX
MINIATURE CB RATED AT 6A, 3P, 20KA @240V
TERMINAL BLOCK, 12 PTS, 20A

MECHANICAL AND ELECTRICAL INTERLOCK:

MECHANICAL INTERLOCK FOR 1200 AF, WALKING BEAM TYPE
POWERBOX ATS CONTROLLER
MINIATURE CB RATED AT 10A, 1P, 10KA @ 240V
MINIATURE CB RATED AT 10A, 2P, 20KA @ 240V
MINIATURE CB RATED AT 10 A, 3P, 20KA @ 240V
BATTERY CHARGER 230V INPUT - 12 VAC, OMRON
TERMINAL BLOCK, 12PTS, 20A



REPUBLIC OF THE PHILIPPINES
PROVINCIAL ENGINEER'S OFFICE
SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR

PROJECT TITLE:
**IMPROVEMENT OF GOVERNOR DOUGLAS RALOTA CAGAS
SPORTS COMPLEX AND BUSINESS CENTER SITE
DEVELOPMENT (PHASE I)**

LOCATION:
MATTI, DIGOS CITY, DAVAO DEL SUR

DESIGNED & PREPARED BY:

Mary Flor L. Hectin
MARY FLOR L. HECTIN
ENGINEER I

REVIEWED BY:

Joseph B. Gonzales
JOSEPH B. GONZALES
ENGINEER III
Planning and Programming Division Head

RECOMMENDING APPROVAL:

Leonerl March P. Suario
LEONERL MARCH P. SUARIO
Provincial Engineer

APPROVED BY:

Yvonne Rona Cagas
YVONNE RONA CAGAS
Provincial Governor

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SCHEDULE OF LOADS AND COMPUTATION: DP2 - ATS

CIRCUIT NO.	DESCRIPTION	QTY.	VOLTS	AMPERES				WATTS	TRIP	POLE	WIRE SIZE	PIPE SIZE	COMPUTATION:
				AB	BC	CA	3-Ø						
1	PB14	1	230	25.7	26.83	29.61			70A	3	3 - 22mm ² THW, 1-5.5mm ² THW CU. WIRE	40mmØ RSC	COMPUTATION: $I_{total} = 444.15 \times 1.732 = 769.27 \text{ AMP}$ USE: 3 SETS OF 3-250MM ² THW + 1-30MM ² TW WIRE AT 100MM DIA. RSC PIPE MAIN BREAKER: 1000 AT, 1200AF, 3 PHASE, 70KAIC AUTOMATIC TRANSFER SWITCH (ATS), INSIDE 16 BRANCHES UNITIZED PANEL BOARD
2	PB15	1	230	25.7	26.83	29.61			70A	3	3 - 22mm ² THW, 1-5.5mm ² THW CU. WIRE	40mmØ RSC	
3	PB16	1	230	25.7	26.83	29.61			70A	3	3 - 22mm ² THW, 1-5.5mm ² THW CU. WIRE	40mmØ RSC	
4	PB17	1	230	25.7	26.83	29.61			70A	3	3 - 22mm ² THW, 1-5.5mm ² THW CU. WIRE	40mmØ RSC	
5	PB18	1	230	25.7	26.83	29.61			70A	3	3 - 22mm ² THW, 1-5.5mm ² THW CU. WIRE	40mmØ RSC	
6	PB19	1	230	25.7	26.83	29.61			70A	3	3 - 22mm ² THW, 1-5.5mm ² THW CU. WIRE	40mmØ RSC	
7	PB20	1	230	25.7	26.83	29.61			70A	3	3 - 22mm ² THW, 1-5.5mm ² THW CU. WIRE	40mmØ RSC	
8	PB21	1	230	25.7	26.83	29.61			70A	3	3 - 22mm ² THW, 1-5.5mm ² THW CU. WIRE	40mmØ RSC	
9	PB22	1	230	25.7	26.83	29.61			70A	3	3 - 22mm ² THW, 1-5.5mm ² THW CU. WIRE	40mmØ RSC	
10	PB23	1	230	25.7	26.83	29.61			70A	3	3 - 22mm ² THW, 1-5.5mm ² THW CU. WIRE	40mmØ RSC	
11	PB24	1	230	25.7	26.83	29.61			70A	3	3 - 22mm ² THW, 1-5.5mm ² THW CU. WIRE	40mmØ RSC	
12	PB25	1	230	25.7	26.83	29.61			70A	3	3 - 22mm ² THW, 1-5.5mm ² THW CU. WIRE	40mmØ RSC	
13	PB26	1	230	25.7	26.83	29.61			70A	3	3 - 22mm ² THW, 1-5.5mm ² THW CU. WIRE	40mmØ RSC	
14	PB27	1	230	25.7	26.83	29.61			70A	3	3 - 22mm ² THW, 1-5.5mm ² THW CU. WIRE	40mmØ RSC	
15	PB28	1	230	25.7	26.83	29.61			70A	3	3 - 22mm ² THW, 1-5.5mm ² THW CU. WIRE	40mmØ RSC	
16	SPARE	1	230	25.7					70A	3			
TOTAL CONNECTED LOAD				411.20	402.45	444.15			1000A	3	3 SETS OF 3 - 250mm ² THW, 1-30mm ² TW CU. WIRE	100mmØ RSC	

DP2 -ATS (ASSY)

FREE STANDING, 100% GALVANIZED SHEET WITH PAINT (POWDER COATED)
FULLY BOLTED CONSTRUCTION ENCLOSURE , NEMA -1

MAIN :

MCCB RATED AT 1000 AT, 3PHASE, 70KA @ 240V, ELECTRICALLY OPERATED

METERING:

POWERLOGIC DIGITAL POWER METER, AUX, SUPPLY 240VAC, W/ BASIC METERING
CURRENT TRANSFORMER, RING TYPE, RATIO 1000: 5A, 15VA, 660V, POWERBOX
MINIATURE CB RATED AT 6A, 3P, 20KA @240V
TERMINAL BLOCK, 12 PTS, 20A

MECHANICAL AND ELECTRICAL INTERLOCK:

MECHANICAL INTERLOCK FOR 1200 AF, WALKING BEAM TYPE
POWERBOX ATS CONTROLLER
MINIATURE CB RATED AT 10A, 1P, 10KA @ 240V
MINIATURE CB RATED AT 10A, 2P, 20KA @ 240V
MINIATURE CB RATED AT 10 A, 3P, 20KA @ 240V
BATTERY CHARGER 230V INPUT - 12 VAC, OMRON
TERMINAL BLOCK, 12PTS, 20A



REPUBLIC OF THE PHILIPPINES
PROVINCIAL ENGINEER'S OFFICE
SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR

PROJECT TITLE:
**IMPROVEMENT OF GOVERNOR DOUGLAS RALOTA CAGAS
SPORTS COMPLEX AND BUSINESS CENTER SITE
DEVELOPMENT (PHASE I)**

LOCATION:
WATTI, DIGOS CITY, DAVAO DEL SUR

DESIGNED & PREPARED BY:

Mary Flor L. Hectin
MARY FLOR L. HECTIN
ENGINEER I

REVIEWED BY:

Jose R. Gonzales
JOSE R. GONZALES
ENGINEER III
Planning and Programming Division Head

RECOMMENDING APPROVAL:

Leonerl March P. Suario
LEONERL MARCH P. SUARIO
Provincial Engineer

APPROVED BY:

Yvonne Roña Cagas
YVONNE ROÑA CAGAS
Provincial Governor

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SCHEDULE OF LOADS AND COMPUTATION: PBA

CIRCUIT NO.	DESCRIPTION	QTY.	VOLTS	AMPERES				WATTS	TRIP	POLE	WIRE SIZE	PIPE SIZE	COMPUTATION :
				AB	BC	CA	3-Ø						
1	24 - 9 WATT LED PANEL LIGHT , 4 - 40W 10" CEILING MOUNTED EXHAUST FAN	28	230			1.64		376	20A	2	2 - 3.5mm ² THW, 1-2.0mm ² TW CU. WIRE	20mmØ uPVC	COMPUTATION : $I_{total} = 8(0.25) + 14.53(1.732) + 19.20$ $= 48.62 \text{ AMP}$ USE : 3-22.0MM ² + 1-5.5MM ² THW WIRE AT 40MM DIA. RSC PIPE MAIN BREAKER : USE MCCB RATED AT 70 AMP 230V, 3P, CENTER MAIN, BOLT-ON TYPE WITH TERMINAL LUGS BRANCHES: USE MINIATURE CB RATED BOLT-ON TYPE PANELBOARD: USE SURFACE MOUNTED, 100% GALVANIZED SHEET WITH PAINT (POWDER COATED) FULLY BOLTED CONSTRUCTION ENCLOSURE, NEMA-1 3Ø, 3W, 230V, 60HZ, WITH GROUND BUS
2	20 - 9 WATT LED PANEL LIGHT , 5 - 40W 10" CEILING MOUNTED EXHAUST FAN	25	230		1.65			380	20A	2	2 - 3.5mm ² THW, 1-2.0mm ² TW CU. WIRE	20mmØ uPVC	
3	25 - 9 WATT LED PANEL LIGHT	25	230			0.98		225	30A	2	2 - 5.5mm ² THW, 1-2.0mm ² TW CU. WIRE	25mmØ uPVC	
4	40- 9 WATT COVERED T8 LED TUBE LIGHT	40	230	1.57				360	30A	2	2 - 5.5mm ² THW, 1-2.0mm ² TW CU. WIRE	25mmØ uPVC	
5	CONVENIENCE OUTLET	5	230		3.91			900	20A	2	2 - 3.5mm ² THW, 1-2.0mm ² TW CU. WIRE	20mmØ uPVC	
6	CONVENIENCE OUTLET	5	230			3.91		900	20A	2	2 - 3.5mm ² THW, 1-2.0mm ² TW CU. WIRE	20mmØ uPVC	
7	CONVENIENCE OUTLET	8	230	3.91				900	20A	2	2 - 3.5mm ² THW, 1-2.0mm ² TW CU. WIRE	20mmØ uPVC	
8	LIGHTING OUTLET FOR PLAYER BENCH	7	230		6.26			1440	20A	2	2 - 3.5mm ² THW, 1-2.0mm ² TW CU. WIRE	20mmØ uPVC	
9	SPARE	1	230	8				1840	30A	2			
10	SPARE	1	230			8		1840	30A	2			
11	SPARE	1	230				9.6	3824	40A	3			
12	SPARE	1	230				9.6	3824	40A	3			
TOTAL CONNECTED LOAD				13.48	11.82	14.53	19.20		70A	3	3 - 22mm ² THW, 1-5.5mm ² THW CU. WIRE	40mmØ RSC	

SCHEDULE OF LOADS AND COMPUTATION: PBA'

CIRCUIT NO.	DESCRIPTION	QTY.	VOLTS	AMPERES				WATTS	TRIP	POLE	WIRE SIZE	PIPE SIZE	COMPUTATION :
				AB	BC	CA	3-Ø						
1	24 - 9 WATT LED PANEL LIGHT , 4 - 40W 10" CEILING MOUNTED EXHAUST FAN	28	230			1.64		376	20A	2	2 - 3.5mm ² THW, 1-2.0mm ² TW CU. WIRE	20mmØ uPVC	COMPUTATION : $I_{total} = 8(0.25) + 14.53(1.732) + 19.20$ $= 46.37 \text{ AMP}$ USE : 3-22.0MM ² + 1-5.5MM ² THW WIRE AT 40MM DIA. RSC PIPE MAIN BREAKER : USE MCCB RATED AT 70 AMP 230V, 3P, CENTER MAIN, BOLT-ON TYPE WITH TERMINAL LUGS BRANCHES: USE MINIATURE CB RATED BOLT-ON TYPE PANELBOARD: USE SURFACE MOUNTED, 100% GALVANIZED SHEET WITH PAINT (POWDER COATED) FULLY BOLTED CONSTRUCTION ENCLOSURE, NEMA-1 3Ø, 3W, 230V, 60HZ, WITH GROUND BUS
2	20 - 9 WATT LED PANEL LIGHT , 5 - 40W 10" CEILING MOUNTED EXHAUST FAN	25	230		1.65			380	20A	2	2 - 3.5mm ² THW, 1-2.0mm ² TW CU. WIRE	20mmØ uPVC	
3	25 - 9 WATT LED PANEL LIGHT	25	230			0.98		225	40A	2	2 - 5.5mm ² THW, 1-2.0mm ² TW CU. WIRE	25mmØ uPVC	
4	40- 9 WATT COVERED T8 LED TUBE LIGHT	40	230	1.57				360	40A	2	2 - 5.5mm ² THW, 1-2.0mm ² TW CU. WIRE	25mmØ uPVC	
5	CONVENIENCE OUTLET	7	230		5.48			1260	20A	2	2 - 3.5mm ² THW, 1-2.0mm ² TW CU. WIRE	20mmØ uPVC	
6	CONVENIENCE OUTLET	5	230			3.91		900	20A	2	2 - 3.5mm ² THW, 1-2.0mm ² TW CU. WIRE	20mmØ uPVC	
7	CONVENIENCE OUTLET	5	230	3.91				900	20A	2	2 - 3.5mm ² THW, 1-2.0mm ² TW CU. WIRE	20mmØ uPVC	
8	CONVENIENCE OUTLET	8	230		6.26			1440	20A	2	2 - 3.5mm ² THW, 1-2.0mm ² TW CU. WIRE	20mmØ uPVC	
9	LIGHTING OUTLET FOR PLAYER BENCH	1	230	8				1840	20A	2	2 - 3.5mm ² THW, 1-2.0mm ² TW CU. WIRE	20mmØ uPVC	
10	SPARE	1	230			8		1840	30A	2			
11	SPARE	1	230				9.6	3824	40A	3			
12	SPARE	1	230				9.6	3824	40A	3			
TOTAL CONNECTED LOAD				13.48	13.39	14.53	19.20		70A	3	3 - 22mm ² THW, 1-5.5mm ² THW CU. WIRE	40mmØ RSC	



REPUBLIC OF THE PHILIPPINES
PROVINCIAL ENGINEER'S OFFICE
 SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR

PROJECT TITLE:
**IMPROVEMENT OF GOVERNOR DOUGLAS RALOTA CAGAS
 SPORTS COMPLEX AND BUSINESS CENTER SITE
 DEVELOPMENT (PHASE I)**

LOCATION:
MATTI, DIGOS CITY, DAVAO DEL SUR

DESIGNED & PREPARED BY:

Mary Flor L. Hectin
MARY FLOR L. HECTIN
 ENGINEER I

REVIEWED BY:

Joseph R. Gonzales
JOSEPH R. GONZALES
 ENGINEER III
 Planning and Programming Division Head

RECOMMENDING APPROVAL:

Leonerl March P. Suario
LEONERL MARCH P. SUARIO
 Provincial Engineer

APPROVED BY:

Yvonne Roña Cagas
YVONNE ROÑA CAGAS
 Provincial Governor

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SCHEDULE OF LOADS AND COMPUTATION: PBA"

CIRCUIT NO.	DESCRIPTION	QTY.	VOLTS	AMPERES				WATTS	TRIP	POLE	WIRE SIZE	PIPE SIZE	COMPUTATION :
				AB	BC	CA	3-Ø						
1	LIGHTING OUTLET	40	230			17.39		4000	30A	2	2 - 5.5mm ² THW, 1-2.0mm ² TW CU. WIRE	25mmØ uPVC	$I_{total} = 17(0.25) + 33.21(1.732) + 19.20$ $= 80.97 \text{ AMP}$ USE : 3-30.0MM ² + 1-8.0MM ² THW WIRE AT 50MM DIA. RSC PIPE MAIN BREAKER : USE MCCB RATED AT 100 AMP 230V, 3P, CENTER MAIN, BOLT-ON TYPE WITH TERMINAL LUGS BRANCHES: USE MINIATURE CB RATED BOLT-ON TYPE PANELBOARD: USE SURFACE MOUNTED, 100% GALVANIZED SHEET WITH PAINT (POWDER COATED) FULLY BOLTED CONSTRUCTION ENCLOSURE, NEMA-1 3Ø, 3W, 230V, 60HZ, WITH GROUND BUS
2	LIGHTING OUTLET	40	230		17.39			4000	30A	2	2 - 5.5mm ² THW, 1-2.0mm ² TW CU. WIRE	25mmØ uPVC	
3	LIGHTING OUTLET	9	230			3.91		900	20A	2	2 - 3.5mm ² THW, 1-2.0mm ² TW CU. WIRE	20mmØ uPVC	
4	CONVENIENCE OUTLET	7	230	5.48				1260	20A	2	2 - 3.5mm ² THW, 1-2.0mm ² TW CU. WIRE	20mmØ uPVC	
5	SPARE	1	230		3.48			800	20A	2			
6	SPARE	1	230			3.91		900	20A	2			
7	SPARE	1	230	6.26				1440	20A	2			
8	SPARE	1	230		12			2760	40A	2			
9	SPARE	1	230	17				3910	40A	2			
10	SPARE	1	230			8		1840	30A	2			
11	SPARE	1	230				9.6	3824	40A	3			
12	SPARE	1	230				9.6	3824	40A	3			
TOTAL CONNECTED LOAD				28.74	32.87	33.21	19.20		100A	3	3 - 30mm ² THW, 1-8.0mm ² THW CU. WIRE	50mmØ RSC	

SCHEDULE OF LOADS AND COMPUTATION: PBC

CIRCUIT NO.	DESCRIPTION	QTY.	VOLTS	AMPERES				WATTS	TRIP	POLE	WIRE SIZE	PIPE SIZE	COMPUTATION :
				AB	BC	CA	3-Ø						
1	LIGHTING OUTLET	21	230			9.13		2100	30A	2	2 - 5.5mm ² THW, 1-2.0mm ² TW CU. WIRE	25mmØ uPVC	$I_{total} = 17(0.25) + 26.74(1.732) + 19.20$ $= 69.76 \text{ AMP}$ USE : 3-30.0MM ² + 1-8.0MM ² THW WIRE AT 50MM DIA. RSC PIPE MAIN BREAKER : USE MCCB RATED AT 100 AMP 230V, 3P, CENTER MAIN, BOLT-ON TYPE WITH TERMINAL LUGS BRANCHES: USE MINIATURE CB RATED BOLT-ON TYPE PANELBOARD: USE SURFACE MOUNTED, 100% GALVANIZED SHEET WITH PAINT (POWDER COATED) FULLY BOLTED CONSTRUCTION ENCLOSURE, NEMA-1 3Ø, 3W, 230V, 60HZ, WITH GROUND BUS
2	LIGHTING OUTLET	23	230		10			2300	30A	2	2 - 5.5mm ² THW, 1-2.0mm ² TW CU. WIRE	25mmØ uPVC	
3	LIGHTING OUTLET	9	230			3.91		900	30A	2	2 - 5.5mm ² THW, 1-2.0mm ² TW CU. WIRE	25mmØ uPVC	
4	LIGHTING OUTLET	8	230	3.48				800	30A	2	2 - 5.5mm ² THW, 1-2.0mm ² TW CU. WIRE	25mmØ uPVC	
5	LIGHTING OUTLET	8	230		3.48			800	30A	2	2 - 5.5mm ² THW, 1-2.0mm ² TW CU. WIRE	25mmØ uPVC	
6	LIGHTING OUTLET	9	230			3.91		900	30A	2	2 - 5.5mm ² THW, 1-2.0mm ² TW CU. WIRE	25mmØ uPVC	
7	CONVENIENCE OUTLET	8	230	6.26				1440	20A	2	2 - 3.5mm ² THW, 1-2.0mm ² TW CU. WIRE	20mmØ uPVC	
8	2HP ACU	1	230		12			2760	40A	2	2 - 8.0mm ² THW, 1-3.5mm ² TW CU. WIRE	32mmØ uPVC	
9	SPARE	1	230	17				3910	40A	2			
10	SPARE	1	230			8		1840	30A	2			
11	SPARE	1	230				9.6	3824	40A	3			
12	SPARE	1	230				9.6	3824	40A	3			
TOTAL CONNECTED LOAD				26.74	25.48	24.95	19.20		100A	3	3 - 30mm ² THW, 1-8.0mm ² THW CU. WIRE	50mmØ RSC	



REPUBLIC OF THE PHILIPPINES
PROVINCIAL ENGINEER'S OFFICE
 SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR

PROJECT TITLE:
**IMPROVEMENT OF GOVERNOR DOUGLAS RALOTA CAGAS
 SPORTS COMPLEX AND BUSINESS CENTER SITE
 DEVELOPMENT (PHASE I)**
 LOCATION:
MATTI, DIGOS CITY, DAVAO DEL SUR

DESIGNED & PREPARED BY:

MARK FLOR L. HECTIN
 ENGINEER I

REVIEWED BY:

JOSEPH R. GONZALES
 ENGINEER III
 Planning and Programming Division Head

RECOMMENDING APPROVAL:

LEONERL MARCH P. SUARIO
 Provincial Engineer

APPROVED BY:

YVONNE RONA CAGAS
 Provincial Governor

E - 11

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SCHEDULE OF LOADS AND COMPUTATION: TYPICAL PB1 - PB13

CIRCUIT NO.	DESCRIPTION	QTY.	VOLTS	AMPERES				WATTS	TRIP	POLE	WIRE SIZE	PIPE SIZE	COMPUTATION :
				AB	BC	CA	3-Ø						
1	LIGHTING OUTLET	8	230			3.48		800	20A	2	2 - 3.5mm ² THW, 1-2.0mm ² TW CU. WIRE	20mmØ uPVC	$I_{total} = 17(0.25) + 29.18(1.732)$ $= 54.79 \text{ AMP}$ USE : 3-22.0MM ² + 1-5.5MM ² THW WIRE AT 40MM DIA. RSC PIPE MAIN BREAKER : USE MCCB RATED AT 70 AMP 230V, 3P, CENTER MAIN, BOLT-ON TYPE WITH TERMINAL LUGS BRANCHES: USE MINIATURE CB RATED BOLT-ON TYPE PANELBOARD: USE SURFACE MOUNTED, 100% GALVANIZED SHEET WITH PAINT (POWDER COATED) FULLY BOLTED CONSTRUCTION ENCLOSURE, NEMA-1 3Ø, 3W, 230V, 60HZ, WITH GROUND BUS
2	CONVENIENCE OUTLET	7	230		5.48			1260	20A	2	2 - 3.5mm ² THW, 1-2.0mm ² TW CU. WIRE	20mmØ uPVC	
3	SPARE		230			4.35		1000	20A	2			
4	SPARE		230	4.35				1000	20A	2			
5	SPARE		230		4.35			1000	20A	2			
6	SPARE		230			4.35		1000	20A	2			
7	SPARE		230	17				3,910	40A	2			
8	SPARE		230		17			3,910	40A	2			
9	SPARE		230			17		3,910	40A	2			
10	SPARE		230	4.35				1,000	30A	2			
TOTAL CONNECTED LOAD						25.7	26.83	29.18		70A	3	3 - 22mm ² THW, 1-5.5mm ² THW CU. WIRE	40mmØ RSC

SCHEDULE OF LOADS AND COMPUTATION: TYPICAL PB14 - PB28

CIRCUIT NO.	DESCRIPTION	QTY.	VOLTS	AMPERES				WATTS	TRIP	POLE	WIRE SIZE	PIPE SIZE	COMPUTATION :
				AB	BC	CA	3-Ø						
1	LIGHTING OUTLET	9	230			3.91		900	20A	2	2 - 3.5mm ² THW, 1-2.0mm ² TW CU. WIRE	20mmØ uPVC	$I_{total} = 17(0.25) + 29.61(1.732)$ $= 55.53 \text{ AMP}$ USE : 3-22.0MM ² + 1-5.5MM ² THW WIRE AT 40MM DIA. RSC PIPE MAIN BREAKER : USE MCCB RATED AT 70 AMP 230V, 3P, CENTER MAIN, BOLT-ON TYPE WITH TERMINAL LUGS BRANCHES: USE MINIATURE CB RATED BOLT-ON TYPE PANELBOARD: USE SURFACE MOUNTED, 100% GALVANIZED SHEET WITH PAINT (POWDER COATED) FULLY BOLTED CONSTRUCTION ENCLOSURE, NEMA-1 3Ø, 3W, 230V, 60HZ, WITH GROUND BUS
2	CONVENIENCE OUTLET	7	230		5.48			1260	20A	2	2 - 3.5mm ² THW, 1-2.0mm ² TW CU. WIRE	20mmØ uPVC	
3	SPARE		230			4.35		1000	20A	2			
4	SPARE		230	4.35				1000	20A	2			
5	SPARE		230		4.35			1000	20A	2			
6	SPARE		230			4.35		1000	20A	2			
7	SPARE		230	17				3,910	40A	2			
8	SPARE		230		17			3,910	40A	2			
9	SPARE		230			17		3,910	40A	2			
10	SPARE		230	4.35				1,000	20A	2			
TOTAL CONNECTED LOAD						25.7	26.83	29.61		70A	3	3 - 22.0mm ² THW, 1-5.5mm ² THW CU. WIRE	40mmØ RSC



REPUBLIC OF THE PHILIPPINES
PROVINCIAL ENGINEER'S OFFICE
 SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR

PROJECT TITLE:
**IMPROVEMENT OF GOVERNOR DOUGLAS RALOTA CAGAS
 SPORTS COMPLEX AND BUSINESS CENTER SITE
 DEVELOPMENT (PHASE I)**

LOCATION:
MATTI, DIGOS CITY, DAVAO DEL SUR

DESIGNED & PREPARED BY:

MARY LOR L. HECTIN
 ENGINEER I

REVIEWED BY:

JOSEPH R. GONZALES
 ENGINEER III
 Planning and Programming Division Head

RECOMMENDING APPROVAL:

LEONERL MARCH P. SUARIO
 Provincial Engineer

APPROVED BY:

YVONNE RONIA CAGAS
 Provincial Governor

E - 12

38 65

SCHEDULE OF LOADS AND COMPUTATION: PB- COURT

CIRCUIT NO.	DESCRIPTION	QTY.	VOLTS	AMPERES				WATTS	TRIP	POLE	WIRE SIZE	PIPE SIZE	COMPUTATION :
				AB	BC	CA	3-Ø						
1	LIGHTING OUTLET	2	230			9.13		2100	20A	2	2 - 3.5mm ² THW, 1-2.0mm ² TW CU. WIRE	20mmØ uPVC	COMPUTATION : $I_{total} = 17(0.25) + 26.74(1.732) + 19.20$ $= 69.76 \text{ AMP}$ USE : 3-30.0MM ² + 1-8.0MM ² THW WIRE AT 50MM DIA. RSC PIPE MAIN BREAKER : USE MCCB RATED AT 100 AMP 230V, 3P, CENTER MAIN, BOLT-ON TYPE WITH TERMINAL LUGS BRANCHES: USE MINIATURE CB RATED BOLT-ON TYPE PANELBOARD: USE SURFACE MOUNTED, 100% GALVANIZED SHEET WITH PAINT (POWDER COATED) FULLY BOLTED CONSTRUCTION ENCLOSURE, NEMA-3R 3Ø, 3W, 230V, 60HZ, WITH GROUND BUS
2	LIGHTING OUTLET	2	230		10			2300	20A	2	2 - 3.5mm ² THW, 1-2.0mm ² TW CU. WIRE	20mmØ uPVC	
3	LIGHTING OUTLET	1	230			3.91		900	20A	2	2 - 3.5mm ² THW, 1-2.0mm ² TW CU. WIRE	20mmØ uPVC	
4	LIGHTING OUTLET	1	230	3.48				800	20A	2	2 - 3.5mm ² THW, 1-2.0mm ² TW CU. WIRE	20mmØ uPVC	
5	LIGHTING OUTLET	8	230		3.48			800	20A	2	2 - 3.5mm ² THW, 1-2.0mm ² TW CU. WIRE	20mmØ uPVC	
6	LIGHTING OUTLET	9	230			3.91		900	20A	2	2 - 3.5mm ² THW, 1-2.0mm ² TW CU. WIRE	20mmØ uPVC	
7	CONVENIENCE OUTLET	8	230	6.26				1440	20A	2	2 - 3.5mm ² THW, 1-2.0mm ² TW CU. WIRE	20mmØ uPVC	
8	SPARE	1	230		12			2760	40A	2	2 - 8.0mm ² THW, 1-3.5mm ² TW CU. WIRE	32mmØ uPVC	
9	SPARE	1	230	17				3910	40A	2			
10	SPARE	1	230			8		1840	30A	2			
11	SPARE	1	230				9.6	3824	40A	3			
12	SPARE	1	230				9.6	3824	40A	3			
TOTAL CONNECTED LOAD				26.74	25.48	24.95	19.20		100A	3	3 - 30mm ² THW, 1-8.0mm ² THW CU. WIRE	50mmØ RSC	



REPUBLIC OF THE PHILIPPINES
PROVINCIAL ENGINEER'S OFFICE
 SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR

PROJECT TITLE:
**IMPROVEMENT OF GOVERNOR DOUGLAS RALOTA CAGAS
 SPORTS COMPLEX AND BUSINESS CENTER SITE
 DEVELOPMENT (PHASE I)**

LOCATION:
WATTI, DIGOS CITY, DAVAO DEL SUR

DESIGNED & PREPARED BY:

MARY FLOR L. HECTIN
 ENGINEER I

REVIEWED BY:

JOSEPH R. GONZALES
 ENGINEER III
 Planning and Programming Division Head

RECOMMENDING APPROVAL:

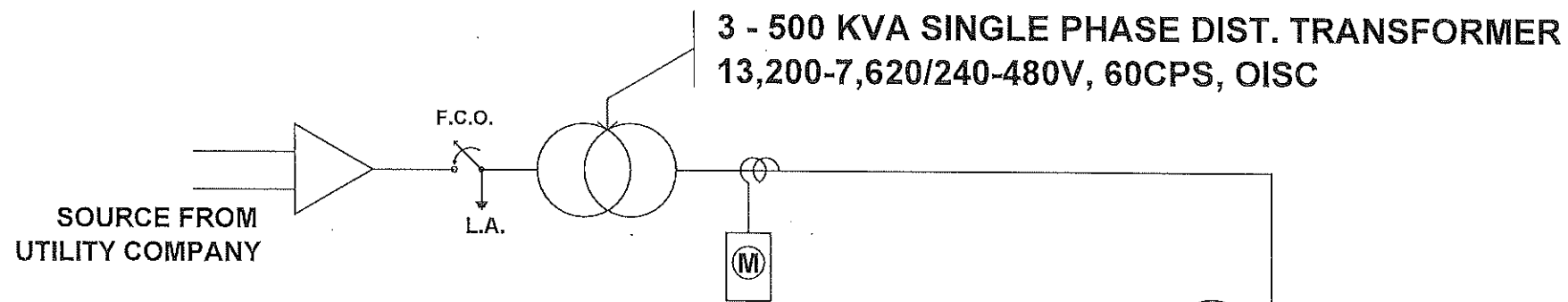
LEONERL WARCH P. SUARIO
 Provincial Engineer

APPROVED BY:

YVONNE ROÑA CAGAS
 Provincial Governor

E - 13

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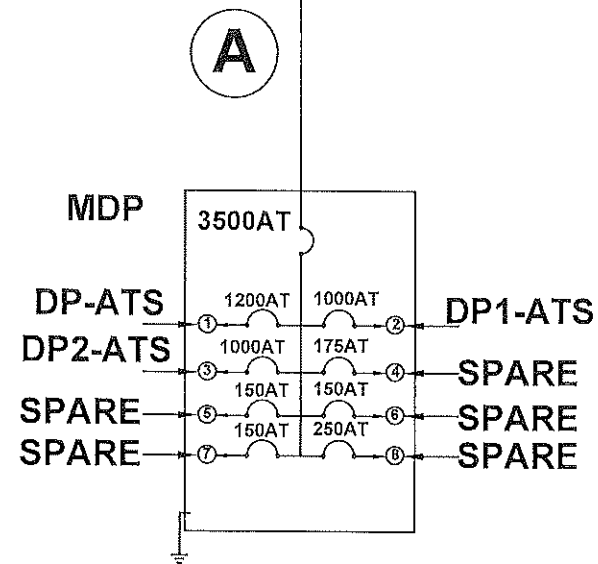
(A) 5 SETS of 3-250mm² THHN,
1-30mm² THHN CU. WIRE IN
100mmØ RSC PIPE

(B) 4 SETS of 3-250mm² THHN,
1-30mm² TW CU. WIRE IN
100mmØ RSC PIPE

(C) 3 SETS of 3-250mm² THHN,
1-30mm² TW CU. WIRE IN
100mmØ RSC PIPE

(D) 3-30mm² THW,
1-8.0mm² THW CU. WIRE IN
50mmØ RSC PIPE

(E) 3-22mm² THW,
1-5.5mm² THW CU. WIRE IN
40mmØ RSC PIPE



RISER DIAGRAM
SCALE DNTS



REPUBLIC OF THE PHILIPPINES
PROVINCIAL ENGINEER'S OFFICE
SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR

PROJECT TITLE:
**IMPROVEMENT OF GOVERNOR DOUGLAS RALOTA CAGAS
SPORTS COMPLEX AND BUSINESS CENTER SITE
DEVELOPMENT (PHASE I)**

LOCATION:
MATTI, DIGOS CITY, DAVAO DEL SUR

DESIGNED & PREPARED BY:
Mary Flor L. Hectin
MARY FLOR L. HECTIN
ENGINEER I

REVIEWED BY:
Joseph R. Gonzales
JOSEPH R. GONZALES
ENGINEER III
Planning and Programming Division Head

RECOMMENDING APPROVAL:
Leonerl March P. Suario
LEONERL MARCH P. SUARIO
Provincial Engineer

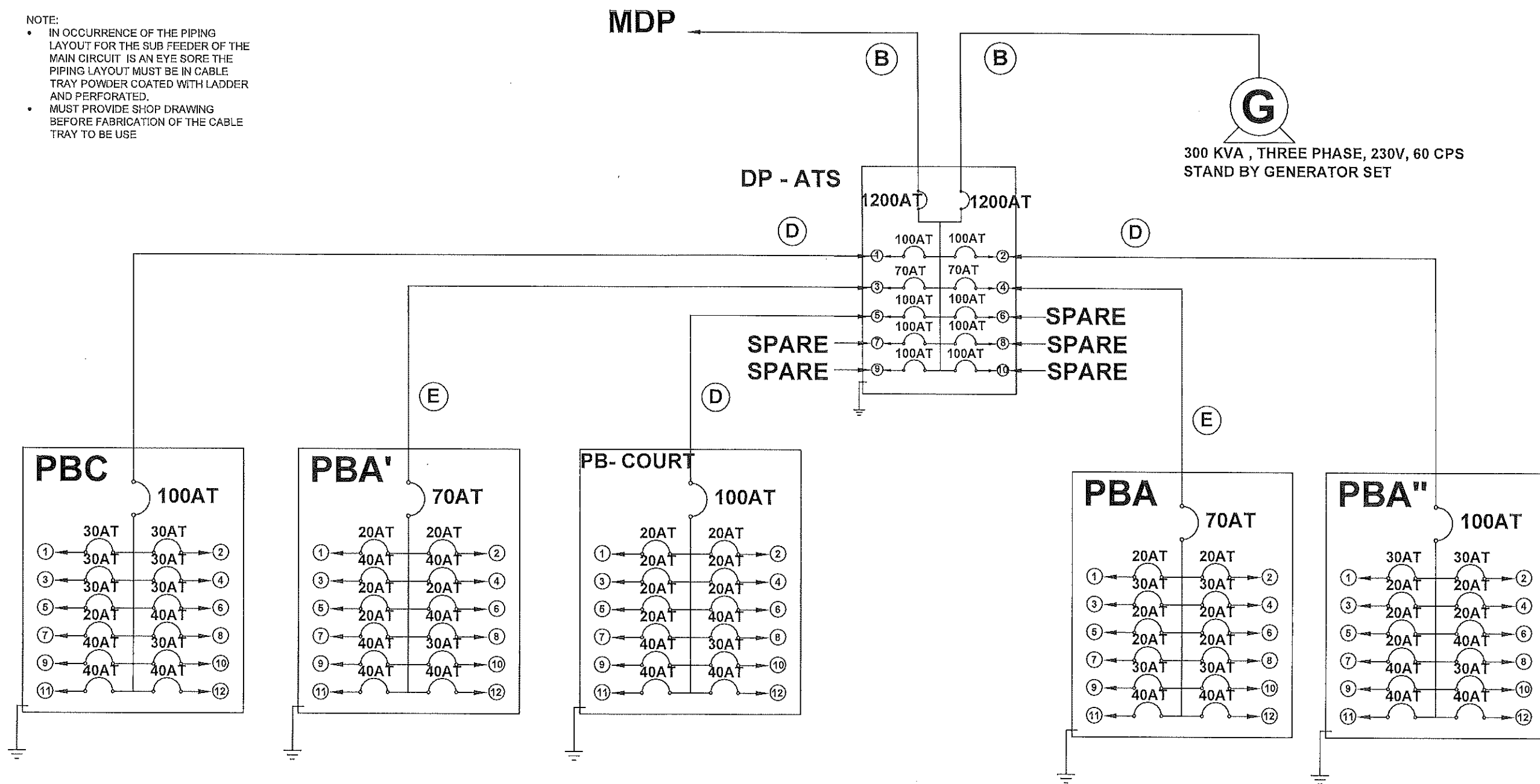
APPROVED BY:
Yvonne Rona Cagas
YVONNE RONA CAGAS
Provincial Governor

E - 14

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NOTE:

- IN OCCURRENCE OF THE PIPING LAYOUT FOR THE SUB FEEDER OF THE MAIN CIRCUIT IS AN EYE SORE THE PIPING LAYOUT MUST BE IN CABLE TRAY POWDER COATED WITH LADDER AND PERFORATED.
- MUST PROVIDE SHOP DRAWING BEFORE FABRICATION OF THE CABLE TRAY TO BE USE



RISER DIAGRAM
SCALE DNTS



REPUBLIC OF THE PHILIPPINES
PROVINCIAL ENGINEER'S OFFICE
SAN AGUSTIN, Digos CITY, DAVAO DEL SUR

PROJECT TITLE:
**IMPROVEMENT OF GOVERNOR DOUGLAS RALOTA CAGAS
SPORTS COMPLEX AND BUSINESS CENTER SITE
DEVELOPMENT (PHASE I)**

LOCATION:
MATTI, DIGOS CITY, DAVAO DEL SUR

DESIGNED & PREPARED BY:
Mary Flor L. Hectin
MARY FLOR L. HECTIN
ENGINEER I

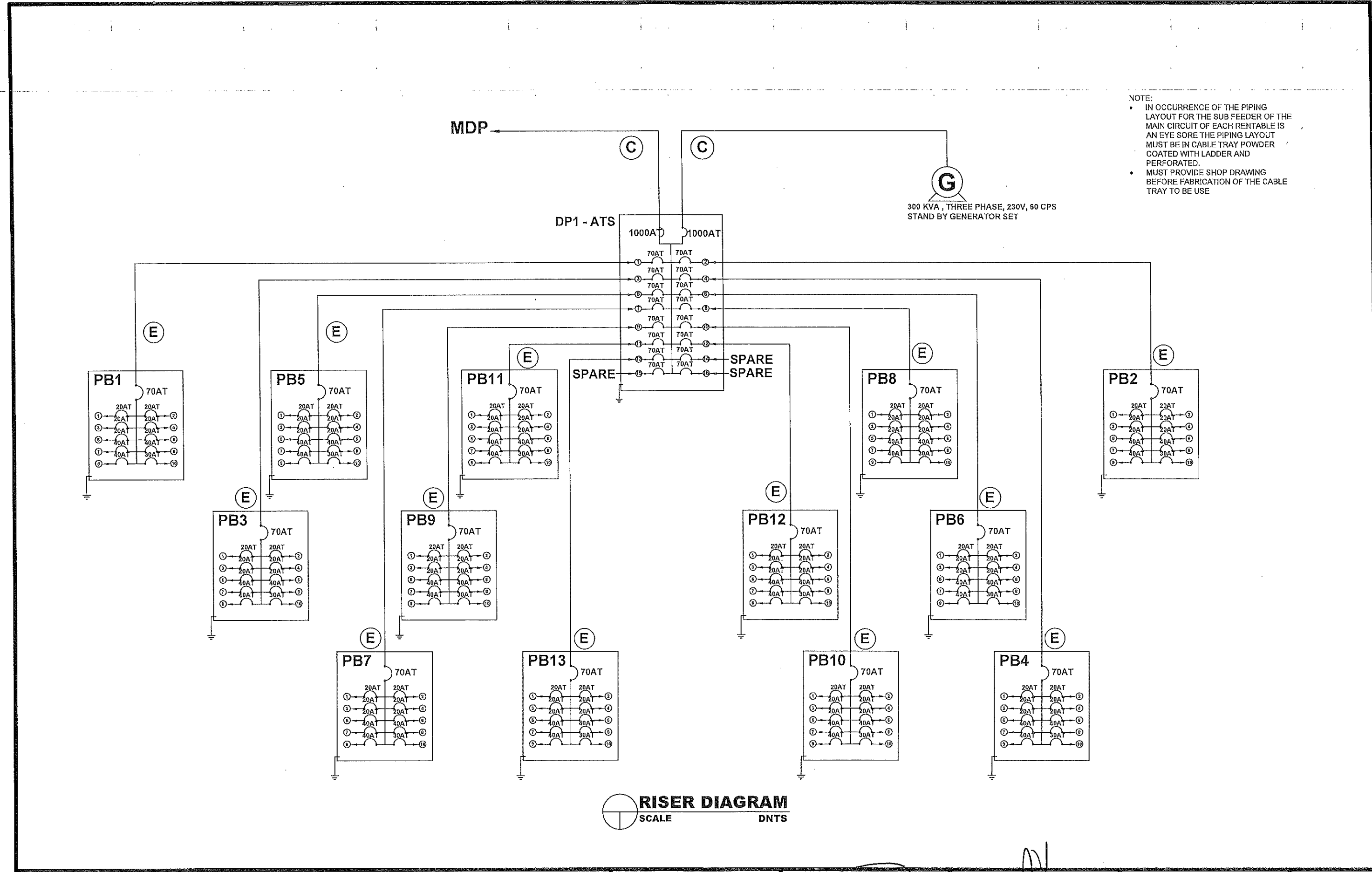
REVIEWED BY:
Joseph R. Gonzales
JOSEPH R. GONZALES
ENGINEER III
Planning and Programming Division Head

RECOMMENDING APPROVAL:
Leonerl March P. Suarion
LEONERL MARCH P. SUARIO
Provincial Engineer




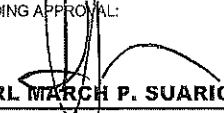

APPROVED BY:
Yvonne Roña Cagas
YVONNE ROÑA CAGAS
Provincial Governor

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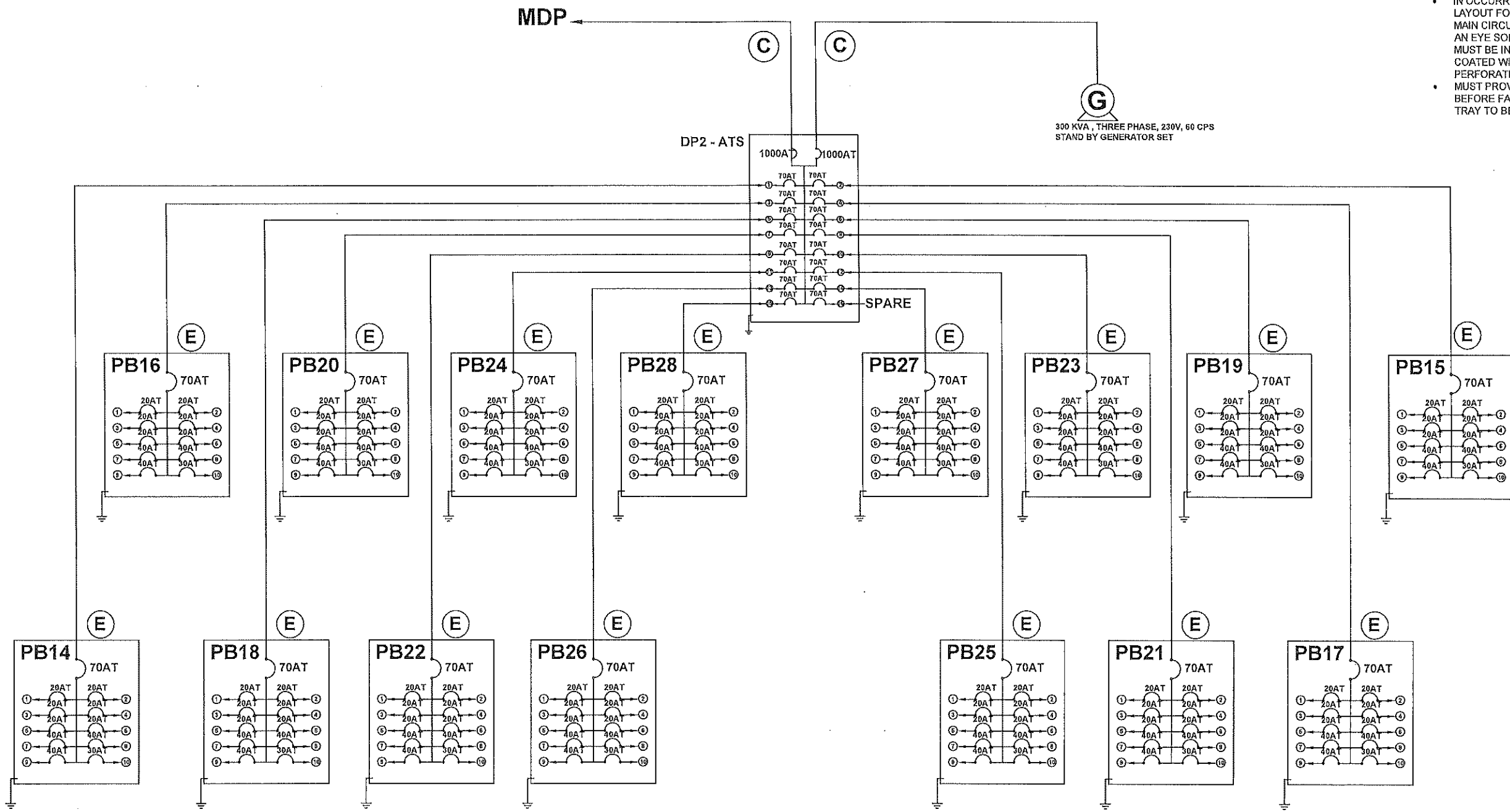
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RISER DIAGRAM
SCALE _____ DNTS

 REPUBLIC OF THE PHILIPPINES PROVINCIAL ENGINEER'S OFFICE SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR	PROJECT TITLE: IMPROVEMENT OF GOVERNOR DOUGLAS RALOTA CAGAS SPORTS COMPLEX AND BUSINESS CENTER SITE DEVELOPMENT (PHASE I)	DESIGNED & PREPARED BY:  MARY FLOR L. HECTIN ENGINEER I	REVIEWED BY:  JOSEPH R. GONZALES ENGINEER III Planning and Programming Division Head	RECOMMENDING APPROVAL:  LEONERL MARCH P. SUARIO Provincial Engineer	APPROVED BY:  YVONNE ROÑA CAGAS Provincial Governor	E - 16 <hr/> 42 65
	LOCATION: MATTI, DIGOS CITY, DAVAO DEL SUR					

NOTE:
 • IN OCCURRENCE OF THE PIPING LAYOUT FOR THE SUB FEEDER OF THE MAIN CIRCUIT OF EACH RENTABLE IS AN EYE SORE THE PIPING LAYOUT MUST BE IN CABLE TRAY POWDER COATED WITH LADDER AND PERFORATED.
 • MUST PROVIDE SHOP DRAWING BEFORE FABRICATION OF THE CABLE TRAY TO BE USE



RISER DIAGRAM
 SCALE DNTS



REPUBLIC OF THE PHILIPPINES
PROVINCIAL ENGINEER'S OFFICE
 SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR

PROJECT TITLE:
**IMPROVEMENT OF GOVERNOR DOUGLAS RALOTA CAGAS
 SPORTS COMPLEX AND BUSINESS CENTER SITE
 DEVELOPMENT (PHASE I)**

LOCATION:
MATTI, DIGOS CITY, DAVAO DEL SUR

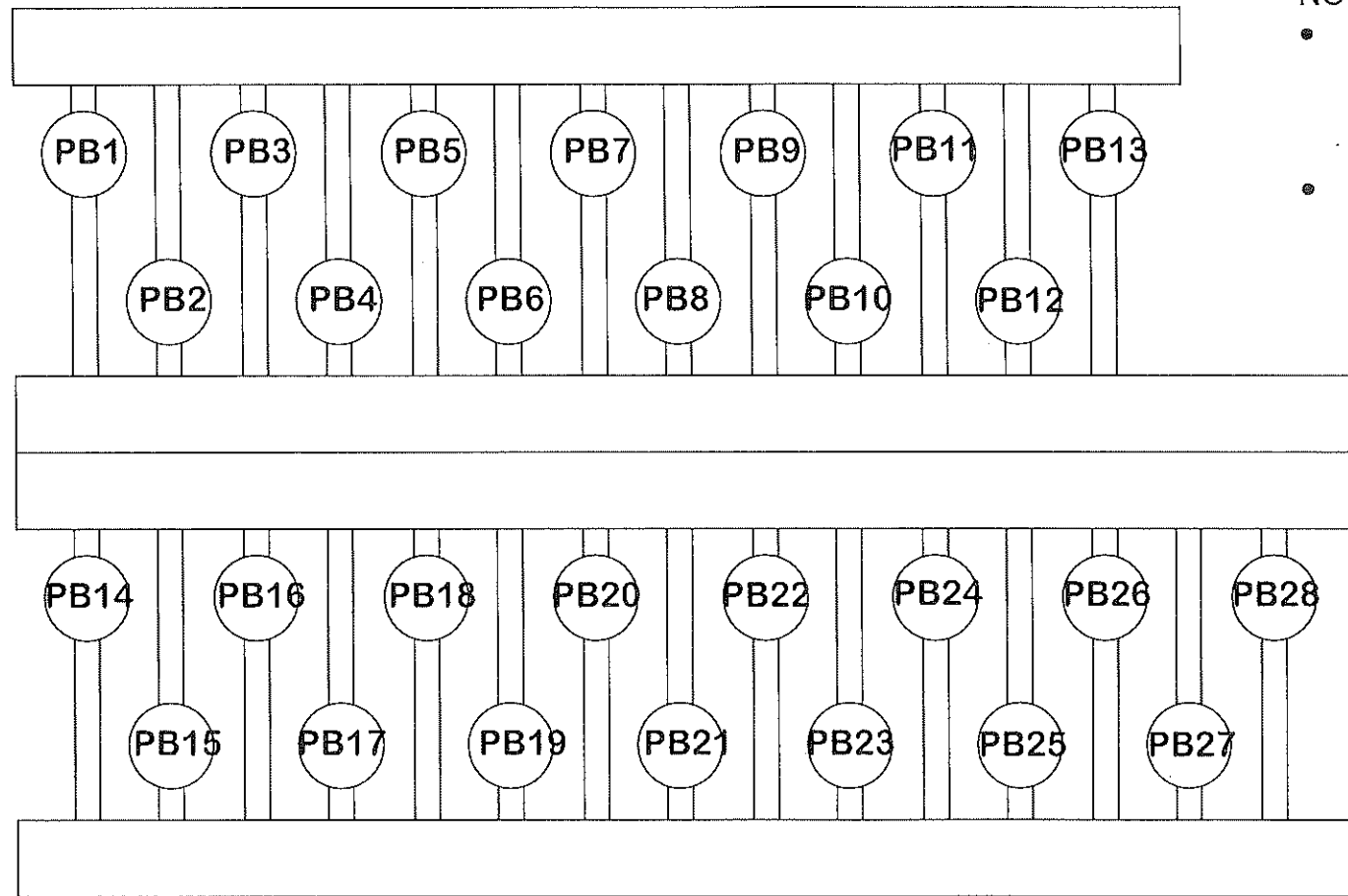
DESIGNED & PREPARED BY:
Mary Flor L. Hectin
MARY FLOR L. HECTIN
 ENGINEER I

REVIEWED BY:
Joseph R. Gonzales
JOSEPH R. GONZALES
 ENGINEER III
 Planning and Programming Division Head

RECOMMENDING APPROVAL:
Leonel March P. Suarez
LEONEL MARCH P. SUARIO
 Provincial Engineer

APPROVED BY:
Yvonne Roña Cagas
YVONNE RONA CAGAS
 Provincial Governor

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NOTE:

- INSTALLATION OF MULTI SUB-METER FOR THE RENTABLE SPACE MUST BE PLACE AT THE BACK OF THE NEWLY CONSTRUCTED GENERATOR ROOM
- PROVIDE TAGGING FOR EACH SUB METER

 **MULTI SUB METERING OF RENTABLE SPACES**
SCALE DNTS

 REPUBLIC OF THE PHILIPPINES PROVINCIAL ENGINEER'S OFFICE SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR	PROJECT TITLE:	DESIGNED & PREPARED BY:	REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	E - 18 44 65
	LOCATION:	IMPROVEMENT OF GOVERNOR DOUGLAS RALOTA CAGAS SPORTS COMPLEX AND BUSINESS CENTER SITE DEVELOPMENT (PHASE I)	MARY FLOR L. HECTIN ENGINEER I	JOSEPH R. GONZALES ENGINEER II Planning and Programming Division Head	LEONERL MARCH P. SUARIO Provincial Engineer	

GENERAL NOTES:

- ALL PLUMBING WORKS HEREIN SHALL BE EXECUTED ACCORDING TO THE REQUIREMENTS OF THE PHILIPPINE NATIONAL PLUMBING CODE AND THE RULES AND REGULATIONS OF THE EXISTING LOCAL CODES AND ORDINANCES OR LAWS GOVERNING THE IMPLEMENTATION OF THE PLUMBING WORKS.
- REFER TO ALL ELECTRICAL, STRUCTURAL, AND ARCHITECTURAL PLANS AND SPECIFICATIONS AND INVESTIGATE ALL POSSIBLE INTERFERENCE AND CONDITIONS AFFECTING THE PLUMBING WORKS.
- IT IS NOT INTENDED THAT THE DRAWING SHALL SHOW EVERY PIPE FITTING, VALVE AND APPLIANCES, FURNISH AND INSTALL, IF NECESSARY, ALL SUCH ITEM SPECIALLY MENTIONED OR NOT, OR INDICATED ON THE DRAWING, TO COMPLETE THE SYSTEM IN ACCORDANCE TO THE BEST PRACTICE OF THE PLUMBING TRADE AND SATISFACTION OF THE ENGINEER/OWNER.
- PERFORM ALL LABOR IN A FIRST-CLASS, NEAT, WORKMANLIKE MANNER BY SPECIALIST SKILLED IN THEIR TRADES, AND SUCH SPECIALIST AND THEIR WORK SHALL BE SATISFACTORY TO THE ENGINEER.

BASIC MATERIALS :

- PROVIDE MATERIALS THAT ARE NEW AND THAT CONFORM WITH THE STANDARD SPECIFICATIONS.
- FOR OTHER MISCELLANEOUS REQUIRED MATERIALS NOT SPECIFICALLY MENTIONED, PROVIDE THE BEST OF THE RESPECTIVE KIND.
- SUBMIT SAMPLES OF MATERIALS FOR APPROVAL AS REQUIRED BY THE ENGINEER/OWNER

PLUMBING FIXTURES :

- INSTALL ALL PLUMBING FIXTURES FREE AND OPEN IN A MANNER TO ACCESS FOR CLEANING. FURNISH WITH BRACKETS, CLEATS, PLATES, AND ANCHORS REQUIRED TO SUPPORT THE FIXTURES RIGIDLY IN PLACE.
- KEEP AWAY, AT A SUFFICIENT DISTANCE BUT NOT LESS 1/2" (12.5mm). ALL SERVICE PIPES, VALVES, AND FITTINGS FROM SURFACES AND LOCATIONS WHICH MAY REQUIRE FINISH COATS OR COVERING.
- EXTEND THE PIPING TO ALL FIXTURES, OUTLETS, AND EQUIPMENTS FROM REQUIRED GATE VALVES INSTALLED IN EACH BRANCH NEAR RISERS.

SOIL, WASTE, DRAIN, AND VENT PIPINGS :

- INSTALL ALL PIPING WORKS IN CONFORMITY WITH ALL PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINES NATIONAL PLUMBING CODE AND APPLICABLE REQUIREMENTS OF THE EXISTING LOCAL CODES.
- EXCAVATE TO REQUIRE DEPTHS AND GRADES, ALL EXCAVATIONS REQUIRED FOR THE INSTALLATIONS OF PLUMBING AND DRAINAGE SYSTEM WHEN ROCK IS ENCOUNTERED, EXTEND THE EXCAVATION TO A DEPTH 150mm. BELOW THE PIPE BOTTOMS OF THE PIPE AND ROCK SURFACE WITH SAND AND APPROVED MATERIAL.
- LAY WATER SUPPLY PIPES AND SEWERS IN SEPARATE TRENCHES.

TRAPS

- EXCEPT FOR THE PRESENCE OF GREASE TRAP INTERCEPTOR AND OTHER DEVICES WHERE THE TRAP IS AN INTEGRAL PART OF THE DESIGN, EQUIPPED WITH A TRAP EVERY FIXTURE AND EQUIPMENT REQUIRING CONNECTIONS TO THE DRAINAGE SYSTEM.
- SET EACH TRAP AS CLOSE AS POSSIBLE TO THE FIXTURE SERVED AND RENDER LEVEL WITH RESPECT TO THEIR WATER SEAL.

PLUMBING PIPES AND FITTINGS

- ALL MATERIALS TO BE USED MUST BE OF HIGH QUALITY.
- AIR CHAMBER TO BE PROVIDED FOR ALL WATER LINE OUTLETS. ALL NECESSARY FITTING SHALL BE PROVIDED.
- TEFLON TAPE FOR ALL WATERLINE CONNECTIONS APPLIED TO MALE THREADS ONLY. MAKE ALL JOINTS AIR AND WATER TIGHT. FOR JOINT PIPINGS, USE THE FOLLOWING:
 - PVC & CPVC PIPES: USE APPROPRIATE COUPLERS AND GLUE AT JOINTS.
 - PPR PIPES: WHEN CONNECTING WITH OTHER PIPE FITTINGS, DO NOT USE, IF POSSIBLE, MALE PIPE FITTINGS WITH CONIC THREAD AND HEMP AS A SEALING MATERIAL TO AVOID BUCKLING STRESSES WHICH ACT ON FEMALE PIPE FITTING.

GUARANTEE AND WARRANTY

- THE CONTRACTOR SHALL GUARANTEE ALL MATERIALS SUPPLIED AND THE WORK TO BE FREE FROM FACTORY DEFECTS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR
- ANY MATERIAL FOUND TO BE DEFECTIVE DURING THE TIME OF CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR FREE OF CHARGE

SHUT - OFFS

- PROVIDE THE ENTIRE SYSTEM WITH VALVE SO LOCATED THAT THE SYSTEM OR PORTION OF IT CAN BE OPERATED, REPLACED, AND REPAIRED, AS WELL AS AFFORDING COMPLETE CONTROL OF WATER SUPPLY TO EACH GROUP OF FIXTURES, WHEN REQUIRED, PROVIDE ALSO PRESSURE REDUCING VALVE

CLEAN OUTS

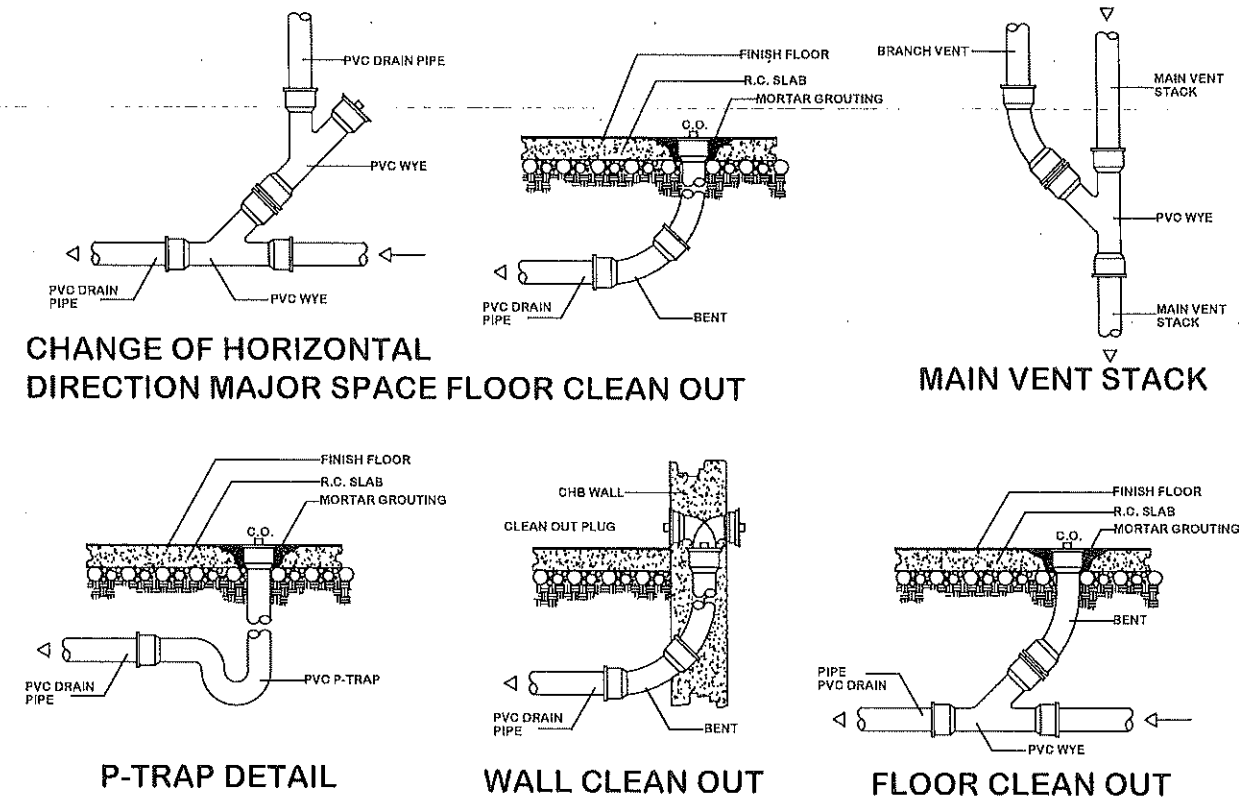
- FOR CLEAN OUTS STEMMING FROM PVC, PROVIDE WITH LONG SWEEP QUARTER BENDS OR ONE OR TWO EIGHT BENDS, EXTENDED TO AN EASILY ACCESSIBLE PLACE, AND GENERALLY WHERE INDICATED IN THE DRAWINGS.

OTHERS

- PIPES SHALL BE INSTALLED AS INDICATED, ANY RELOCATION REQUIRED FOR PROPER EXECUTION OF OTHER TRADES SHALL BE PRIOR APPROVAL OF THE ENGINEER.
- PROPOSED SANITARY UTILITIES SHALL CONFORM TO THE ACTUAL LOCATION, DEPTH, AND INVERT ELEVATIONS.
- ALL FIXTURES SHALL BE VENTED, UNLESS OTHERWISE INDICATED.

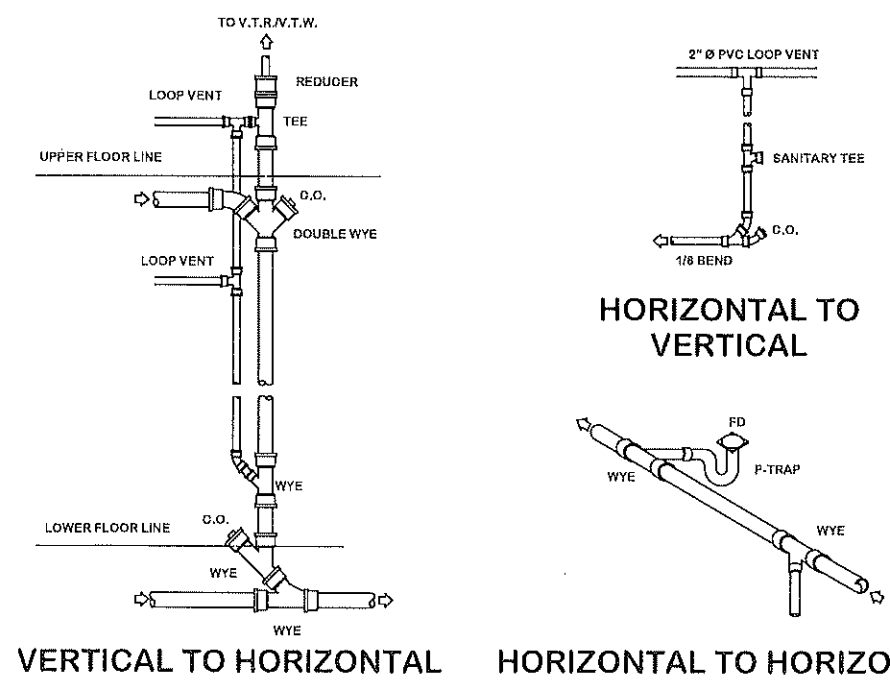
LEGEND :

	SOIL AND WASTE PIPE LINE
	WATER LINE
	VENTILATION
	UNION
	45 DEG. ELBOW
	90 DEG. ELBOW
	TEE
	WYE
	GATE VALVE
FD	FLOOR DRAIN (4" x 4" H.D. STAINLESS)
WC	WATER CLOSET
FCO	FLOOR CLEAN OUT
F	FAUCET (1/2" Ø PVC - WATERTEC)
LAV	LAVATORY
UR	URINAL (WALL MOUNTED)
SH	SHOWER



STANDARD PIPE FITTINGS

SCALE DNTS



JOINT DETAIL

SCALE DNTS

REPUBLIC OF THE PHILIPPINES
PROVINCIAL ENGINEER'S OFFICE
 SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR

PROJECT TITLE:
IMPROVEMENT OF GOVERNOR DOUGLAS RALOTA CAGAS SPORTS COMPLEX AND BUSINESS CENTER SITE DEVELOPMENT (PHASE I)

LOCATION:
MATTI, DIGOS CITY, DAVAO DEL SUR

DESIGNED & PREPARED BY:

JOSEPH RYAN S. REDOLOSO
 ENGINEER II

REVIEWED BY:

JOSEPH R. GONZALES
 ENGINEER III
 Planning and Programming Division Head

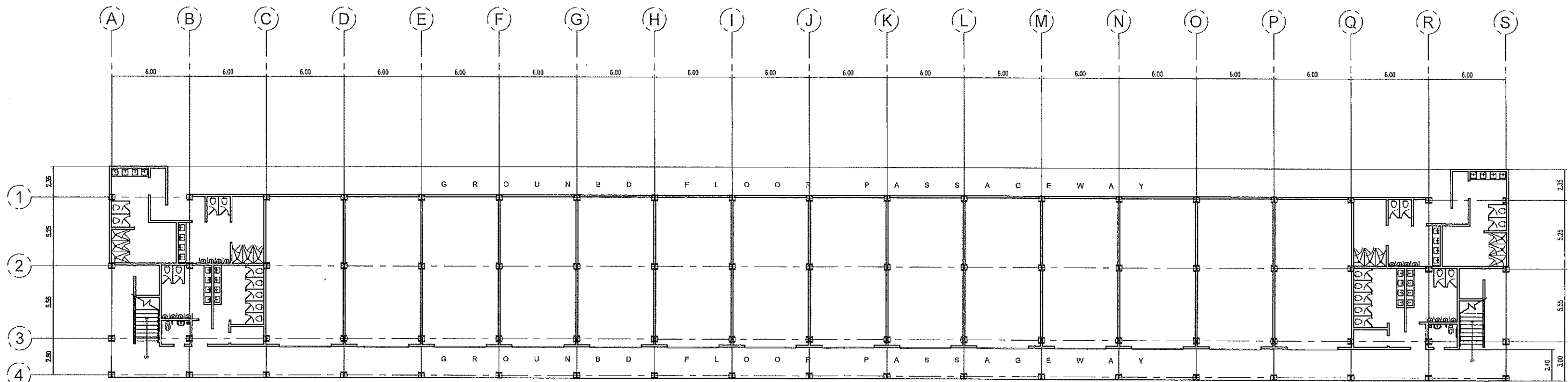
RECOMMENDING APPROVAL:

LEONERL MARCH P. SUARIO
 Provincial Engineer

APPROVED BY:

YVONNE ROMO CAGAS
 Provincial Governor

SCHEDULE OF PLUMBING FIXTURES		
MARK	SPECIFICATIONS	QTY
LAV	Countertop Ceramic Lavatory, (420mm x 420mm x 155mm)	32
F	Surface Mounted L-Shaped Stainless Steel 304 Faucet	32
LAV	Lavatory Square, white (415mm x 415mm x 155mm)	2
WC	Flush valve water closet, ceramic	24
	Watercloset flushometer valve, brass, glossy chrome coated	24
FD	Stainless steel 304 Floor drain with strainer (150mm x 150mm x 1.00mm)	12
SH	Exposed Bath Shower w/ Faucet, Chrome coated Brass, Hot and Cold	12
UR	Urinal, Wall-mounted (includes flush valve, other accessories and fittings)	8
	Stainless Steel 304 Grab Bar L-Shape (748mm x 748mm x 8mm Ø)	2
	Stainless Steel 304 Grab Bar w/ Lift up function (32mm Ø)	2
	Bidet Set Chrome Plated	24
	Paper Holder with Lid	24
	Wall Mounted Soap Dish	12
	Single Towel Bar	12



PLUMBING FIXTURE LAYOUT
SCALE DNTS

NOTE:

- PROVIDE 1 UNIT P.E. WATER STORAGE TANK (2000L CAPACITY)
- PROVIDE 2 UNITS PRESSURE TANKS (450L CAPACITY; 125 PSI MAX. WORKING PRESSURE)
- PROVIDE 2 UNITS CENTRIFUGAL WATER PUMPS (1 HP)



REPUBLIC OF THE PHILIPPINES
PROVINCIAL ENGINEER'S OFFICE
SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR

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DESIGNED & PREPARED BY:

JOSEPH RYAN B. REDOLOSO
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REVIEWED BY:

JOSEPH B. GONZALES
ENGINEER II
Planning and Programming Division Head

RECOMMENDING APPROVAL:

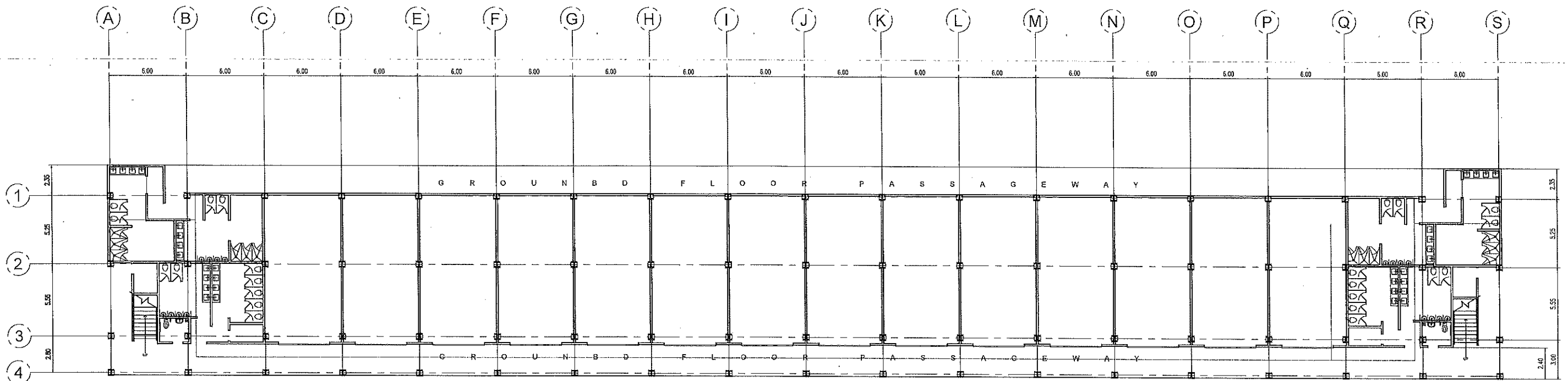
LEONERIL MARCH P. SUARIO
Provincial Engineer

APPROVED BY:

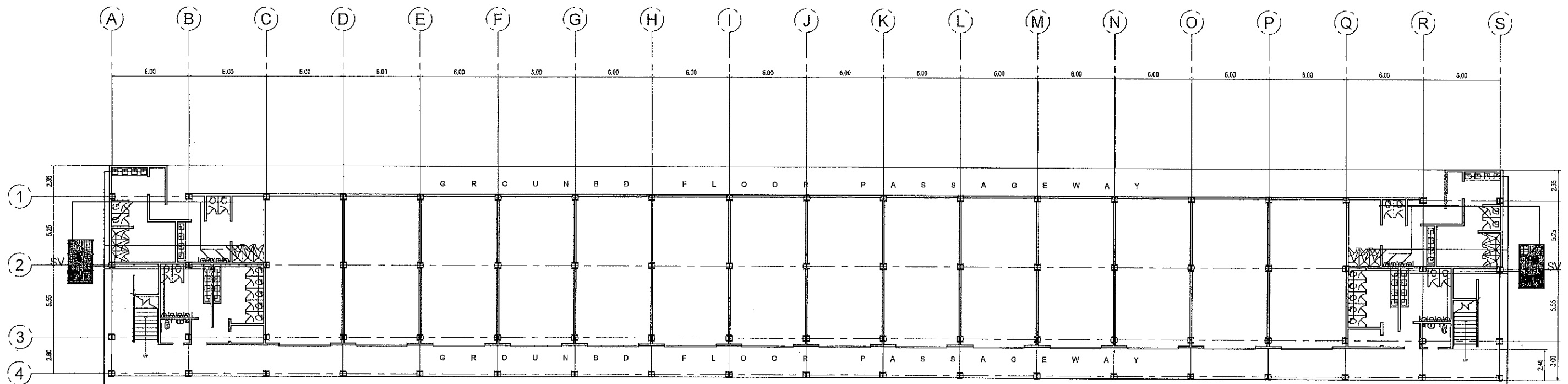
YVONNE RONA CAGAS
Provincial Governor

P - 2

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WATER LINE LAYOUT
SCALE DNTS



WASTE LINE LAYOUT
SCALE DNTS



REPUBLIC OF THE PHILIPPINES
PROVINCIAL ENGINEER'S OFFICE
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REVIEWED BY:

JOSEPH R. GONZALES
ENGINEER III
Planning and Programming Division Head

RECOMMENDING APPROVAL:

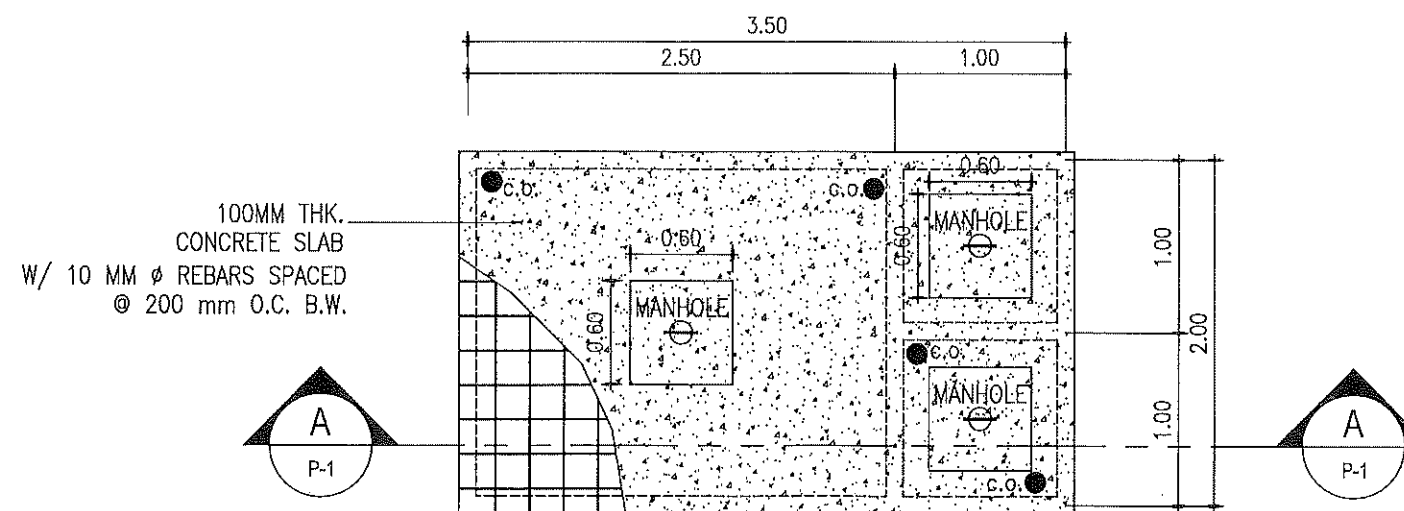
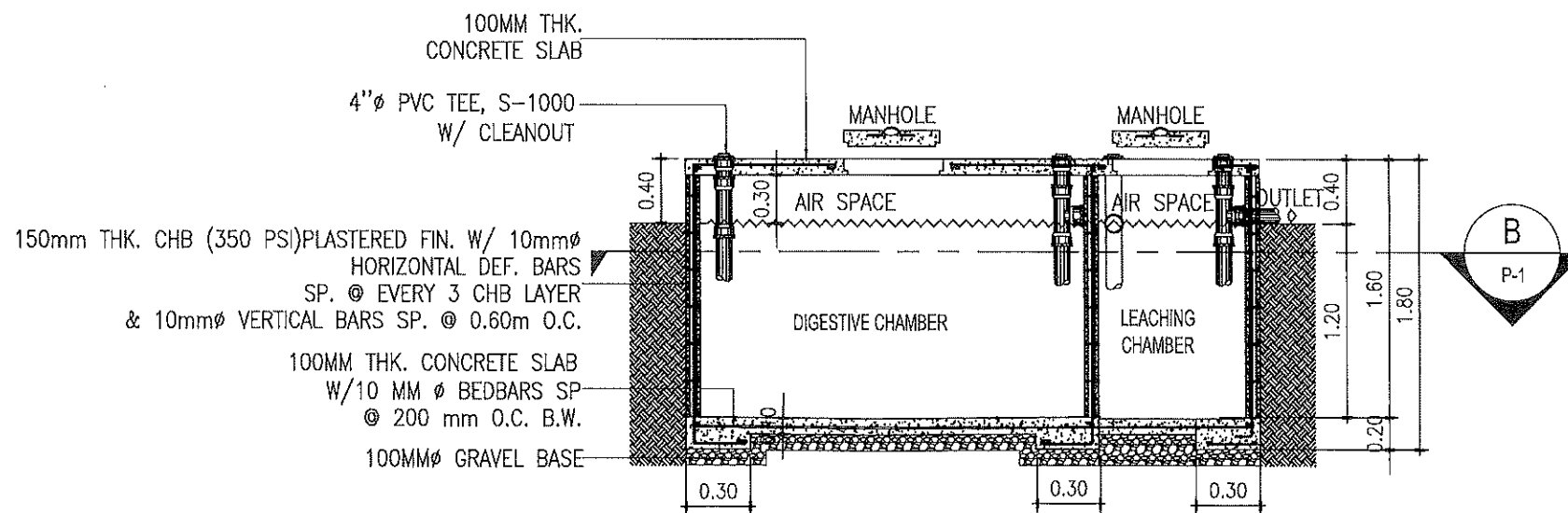
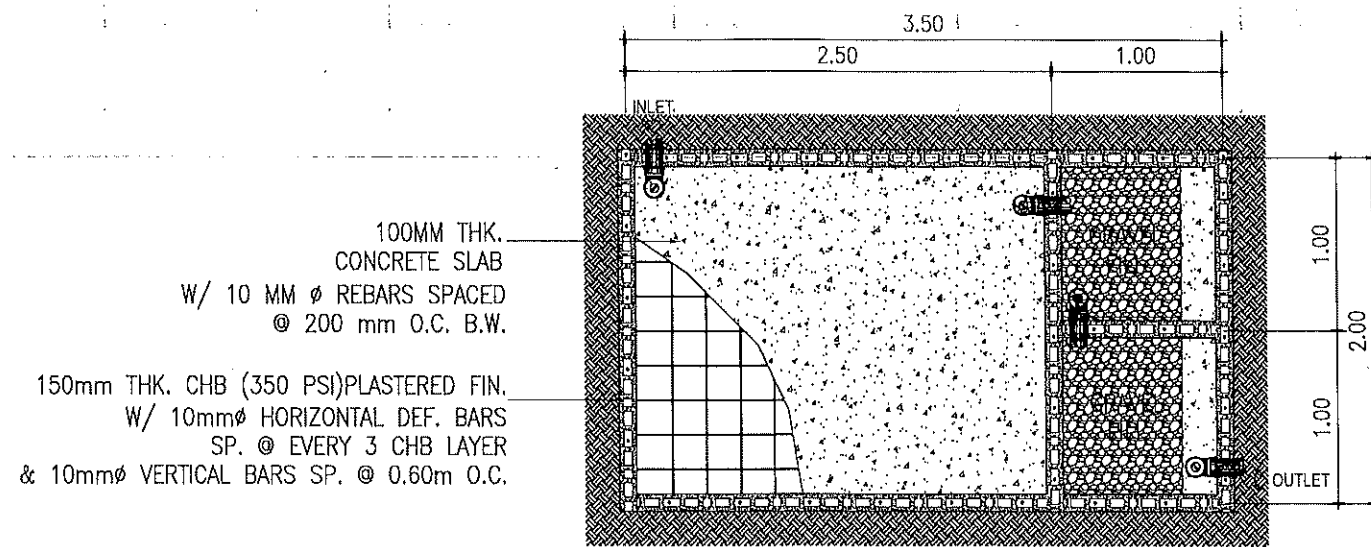
LEONERL MARCH P. SUARIO
Provincial Engineer

APPROVED BY:

YVONNE ROÑA CAGAS
Provincial Governor

P - 3

47 65



SEPTIC VAULT DETAIL
SCALE DNTS



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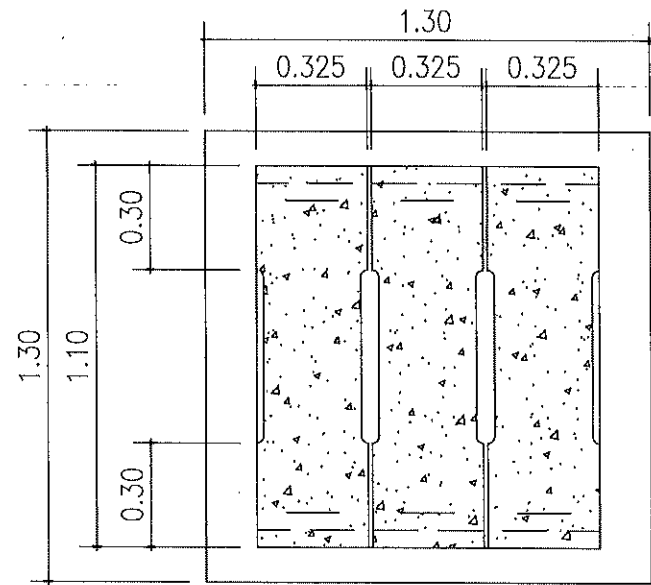
REVIEWED BY:
JOSEPH R. GONZALES
ENGINEER III
Planning and Programming Division Head

RECOMMENDING APPROVAL:
LEONERK MARCH P. SUARIO
Provincial Engineer

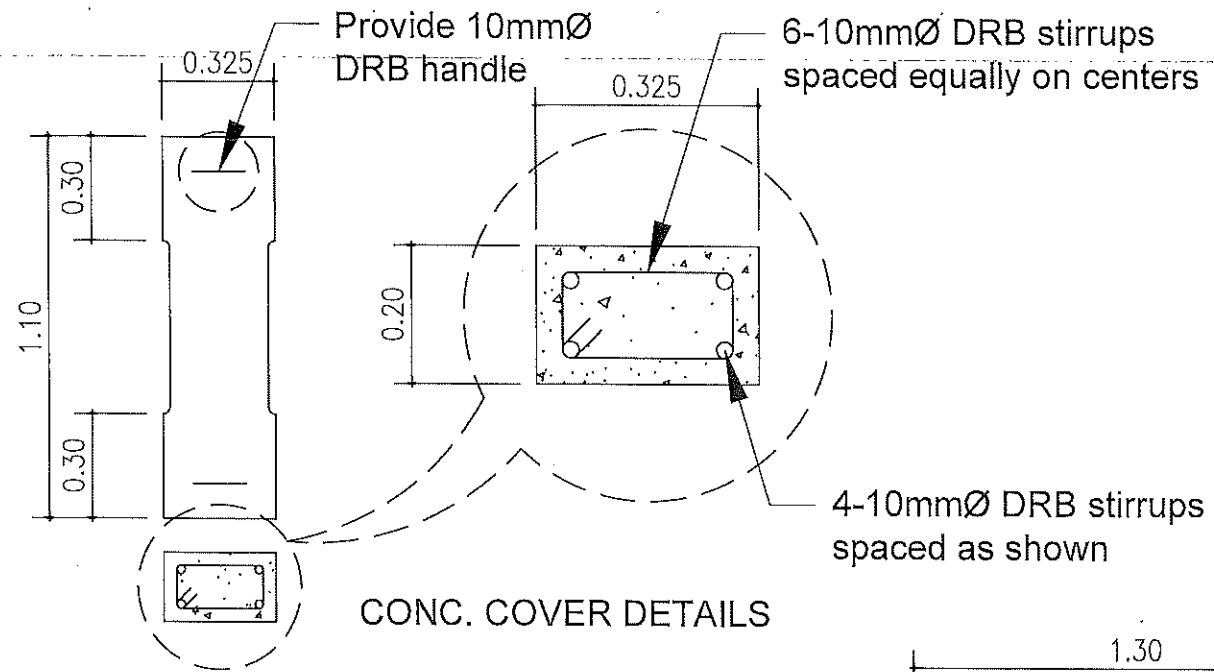
APPROVED BY:
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Provincial Governor

P - 4

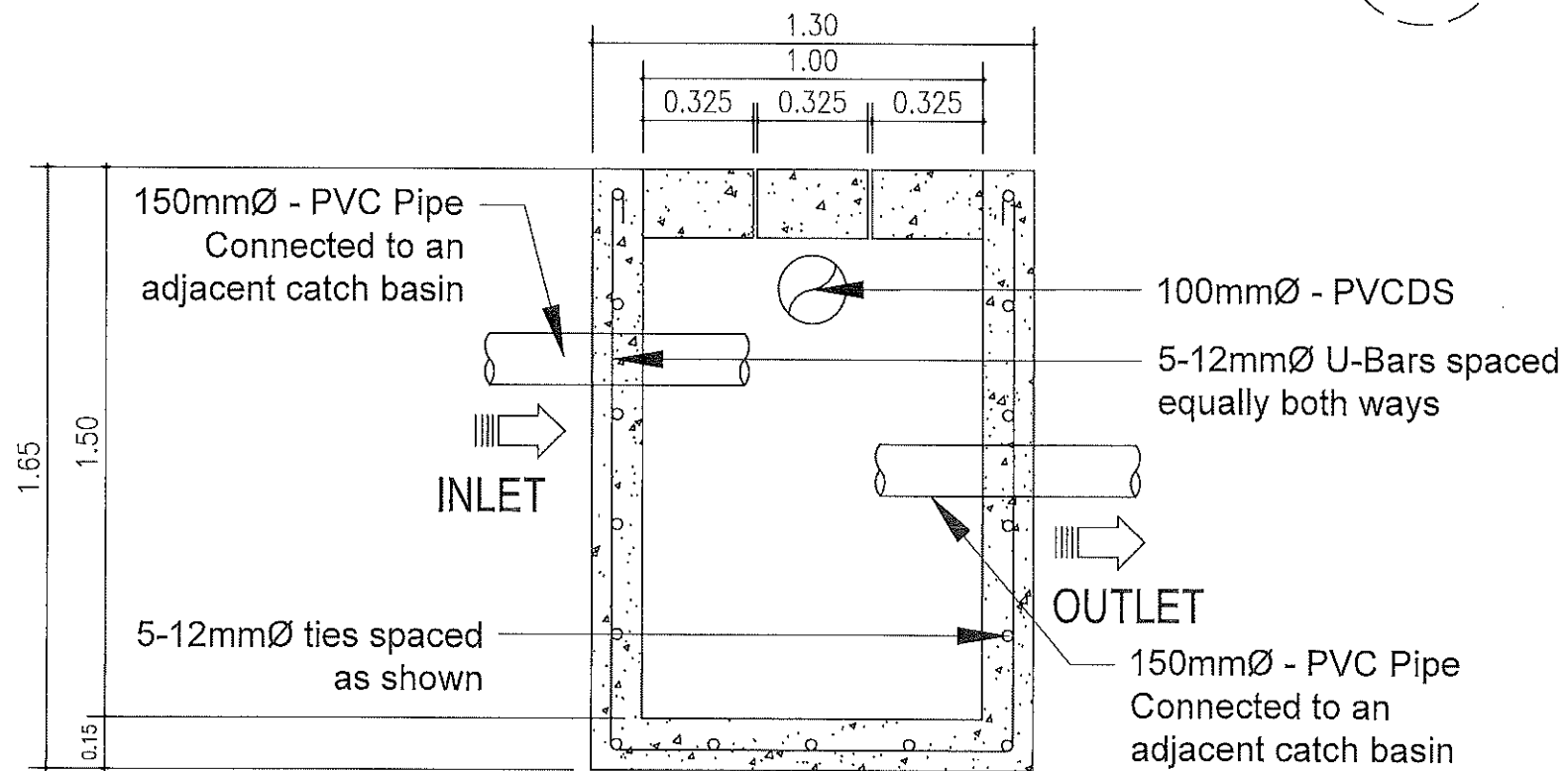
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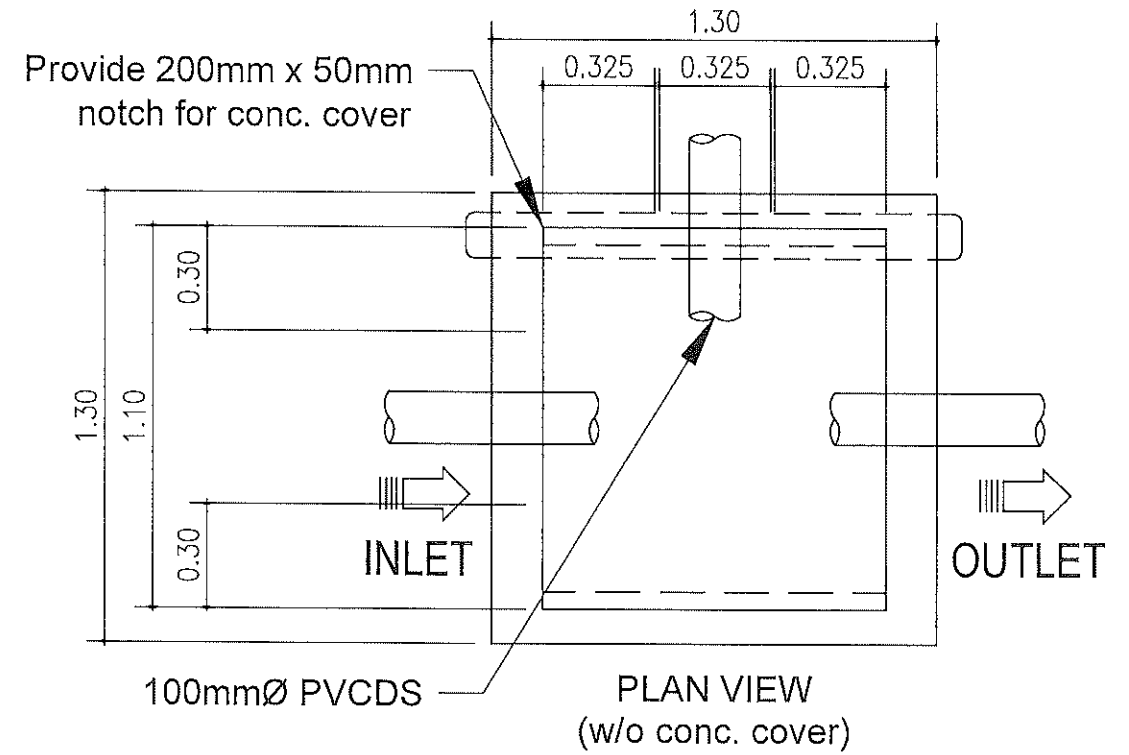
PLAN VIEW



CONC. COVER DETAILS



SECTION VIEW



PLAN VIEW (w/o conc. cover)

Note: The top surface of the catch basin must be 200mm above the natural ground. Maintain 2% slope on drain pipes.

CATCH BASIN 1 DETAIL
SCALE DNTS



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Planning and Programming Division Head

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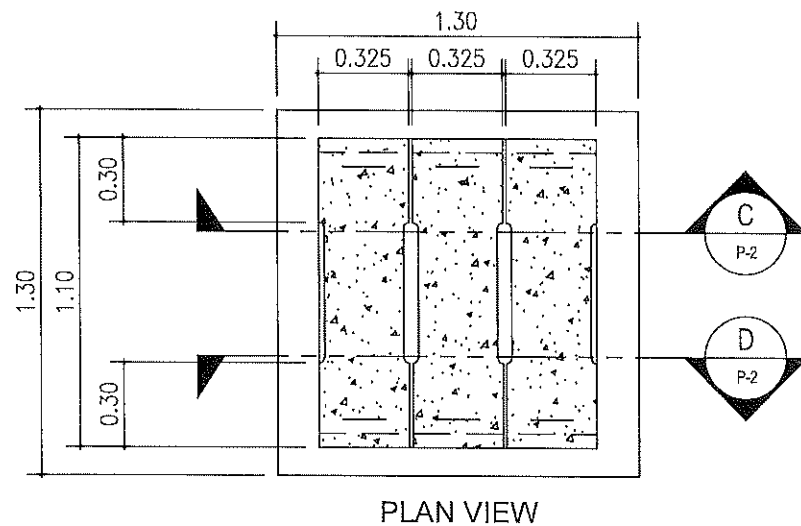
LEONERL MARCH P. SUARIO
Provincial Engineer

APPROVED BY:

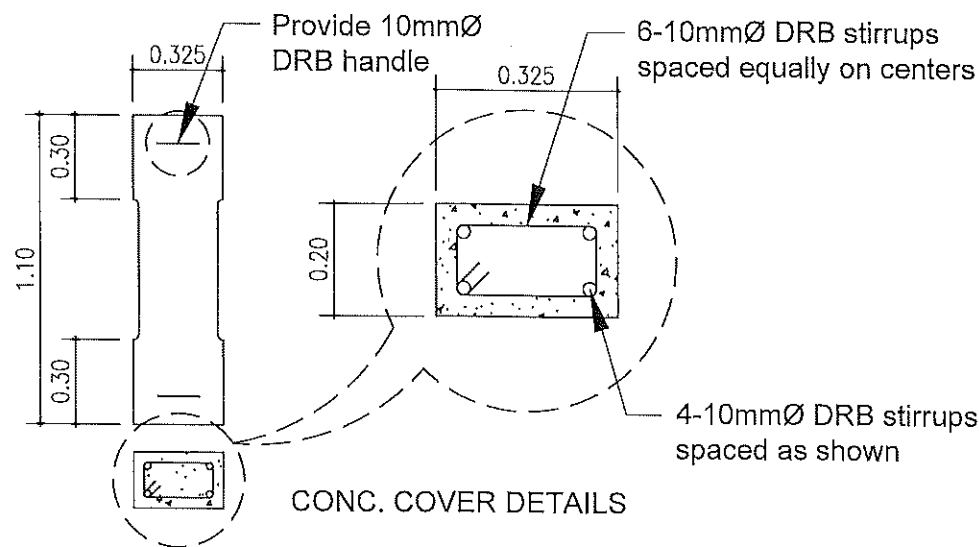
YVONNE ROÑA CAGAS
Provincial Governor

P - 5

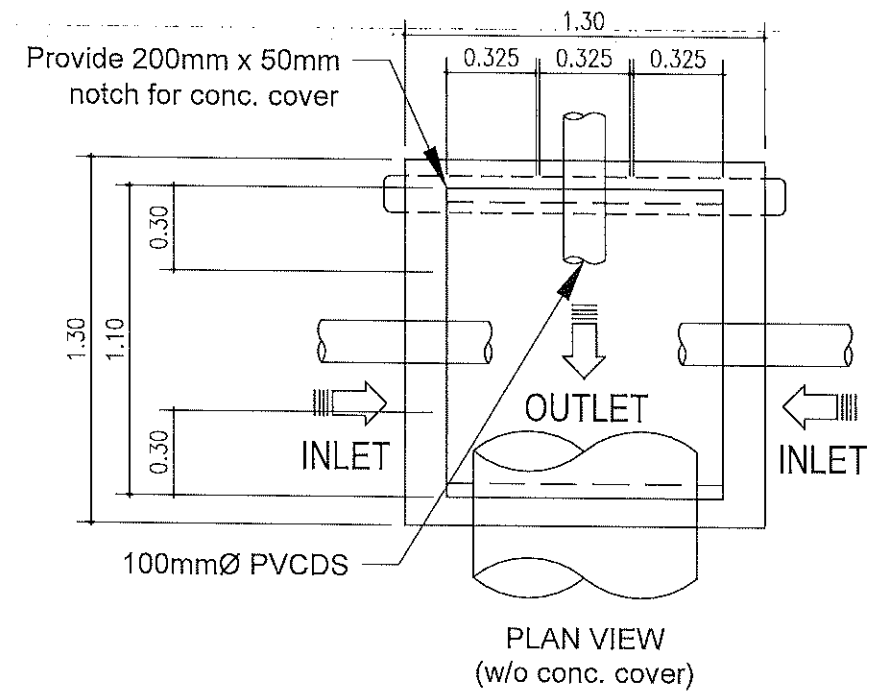
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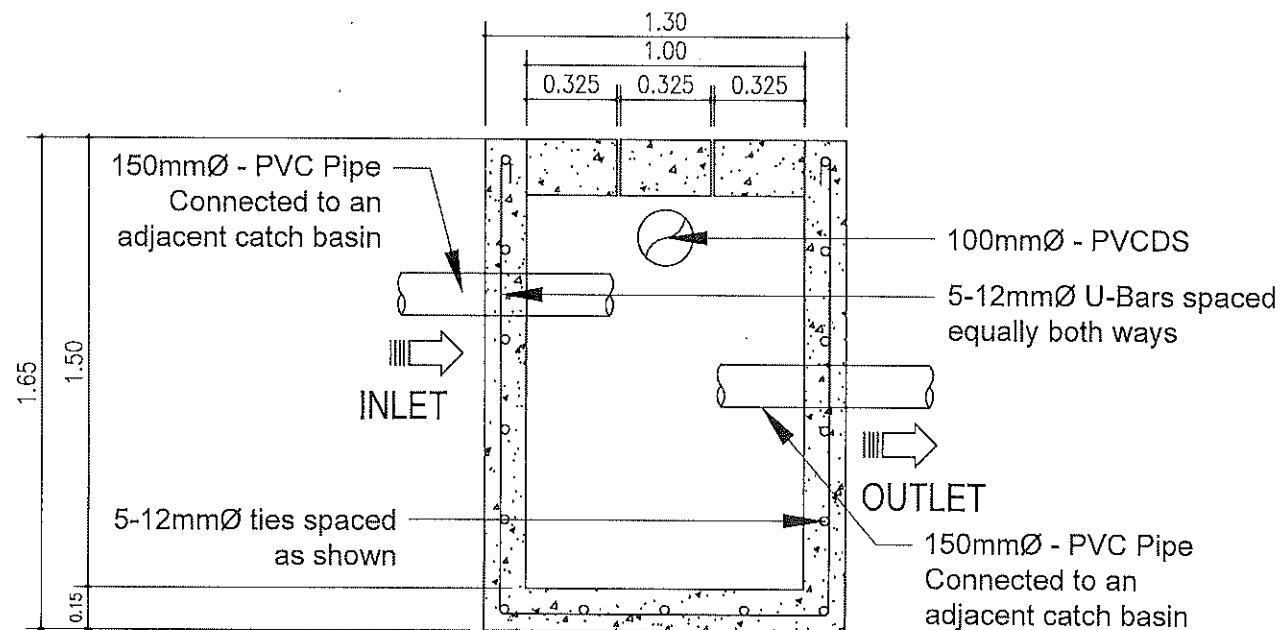
PLAN VIEW



CONC. COVER DETAILS

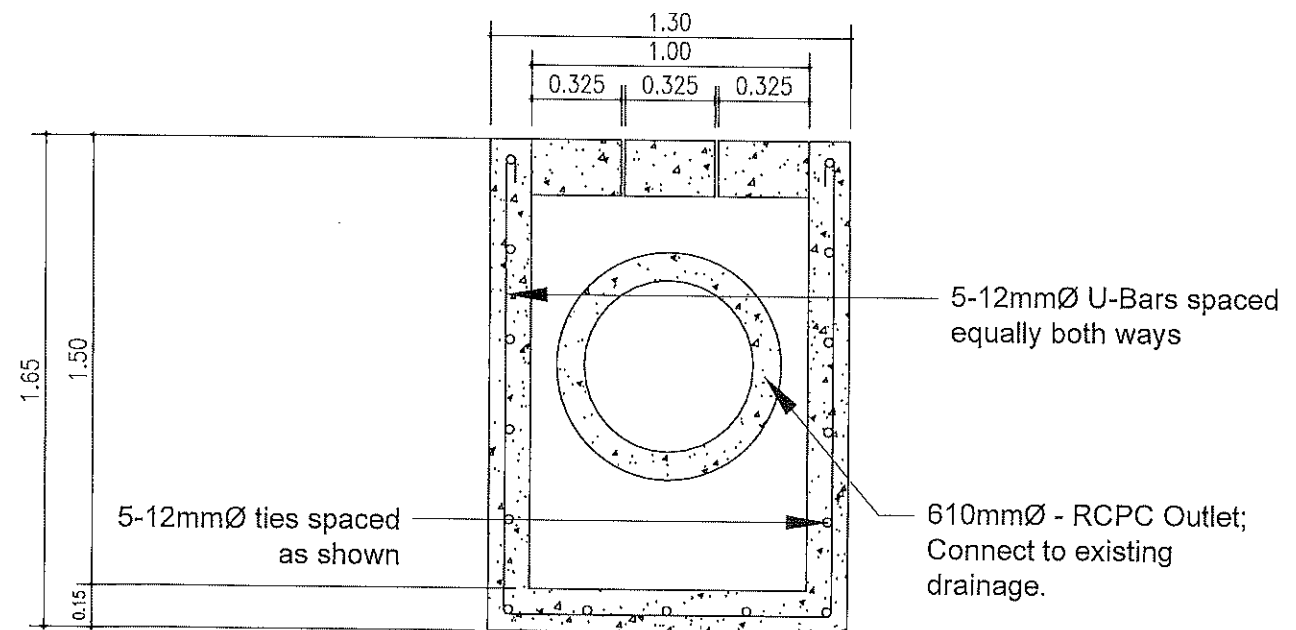


PLAN VIEW
(w/o conc. cover)



SECTION VIEW
(Section Thru C - C)

Note: The top surface of the catch basin must be 200mm above the natural ground. Maintain 2% slope on drain pipes.



SECTION VIEW
(Section Thru D - D)

Note: The top surface of the catch basin must be 200mm above the natural ground. Maintain 2% slope for RCPC.

CATCH BASIN 2 DETAIL
SCALE DNTS



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DEVELOPMENT (PHASE I)**

LOCATION:
MATTI, DIGOS CITY, DAVAO DEL SUR

DESIGNED & PREPARED BY:

JOSEPH RYAN B. REDOLOSO
ENGINEER II

REVIEWED BY:

JOSEPH R. SONZALES
ENGINEER III
Planning and Programming Division Head

RECOMMENDING APPROVAL:

LEONERL WARCH P. SUARIO
Provincial Engineer

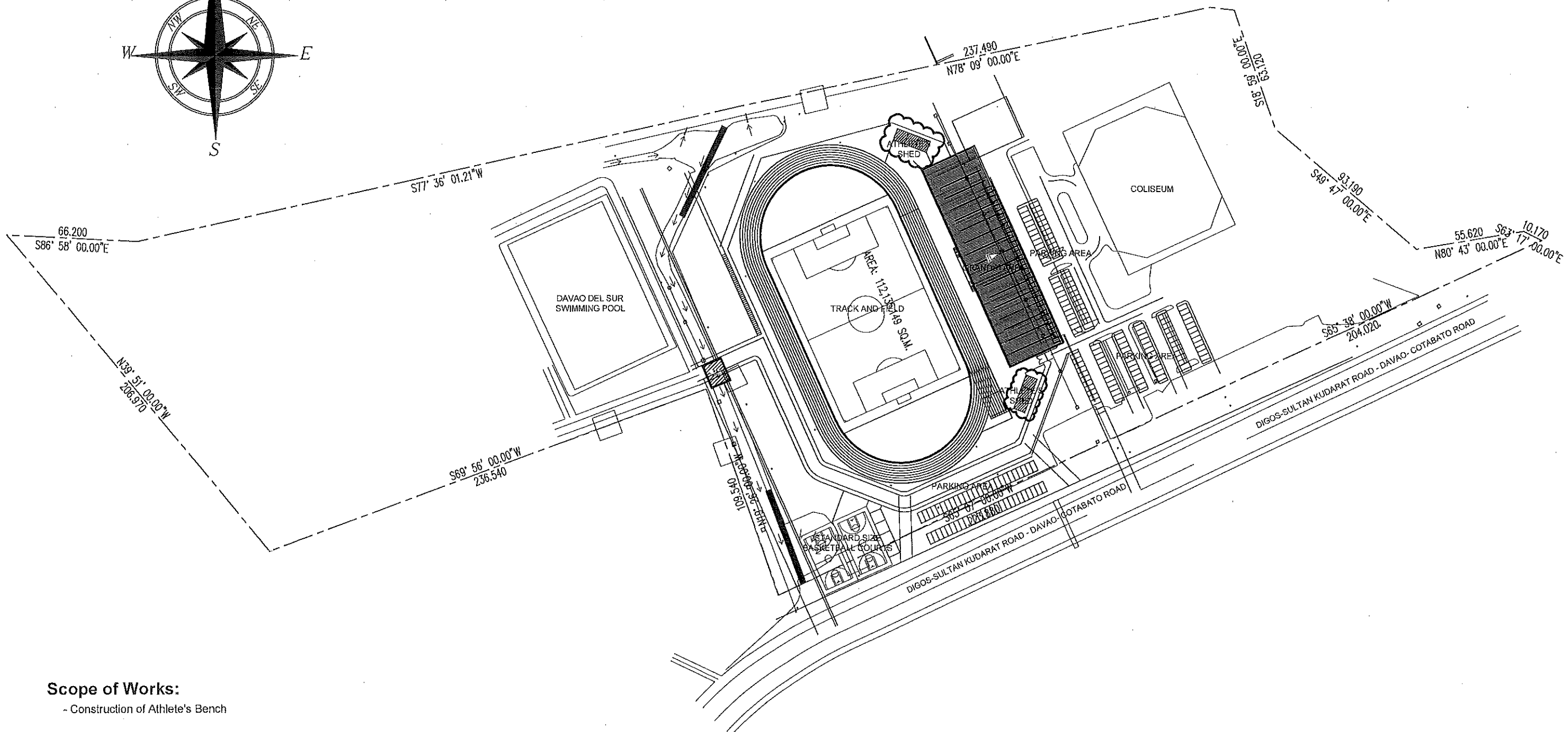
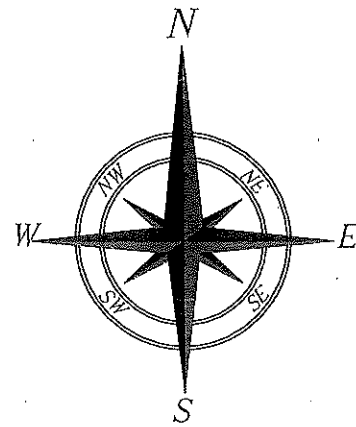
APPROVED BY:

YVONNE ROÑA CAGAS
Provincial Governor

P - 6


50 65

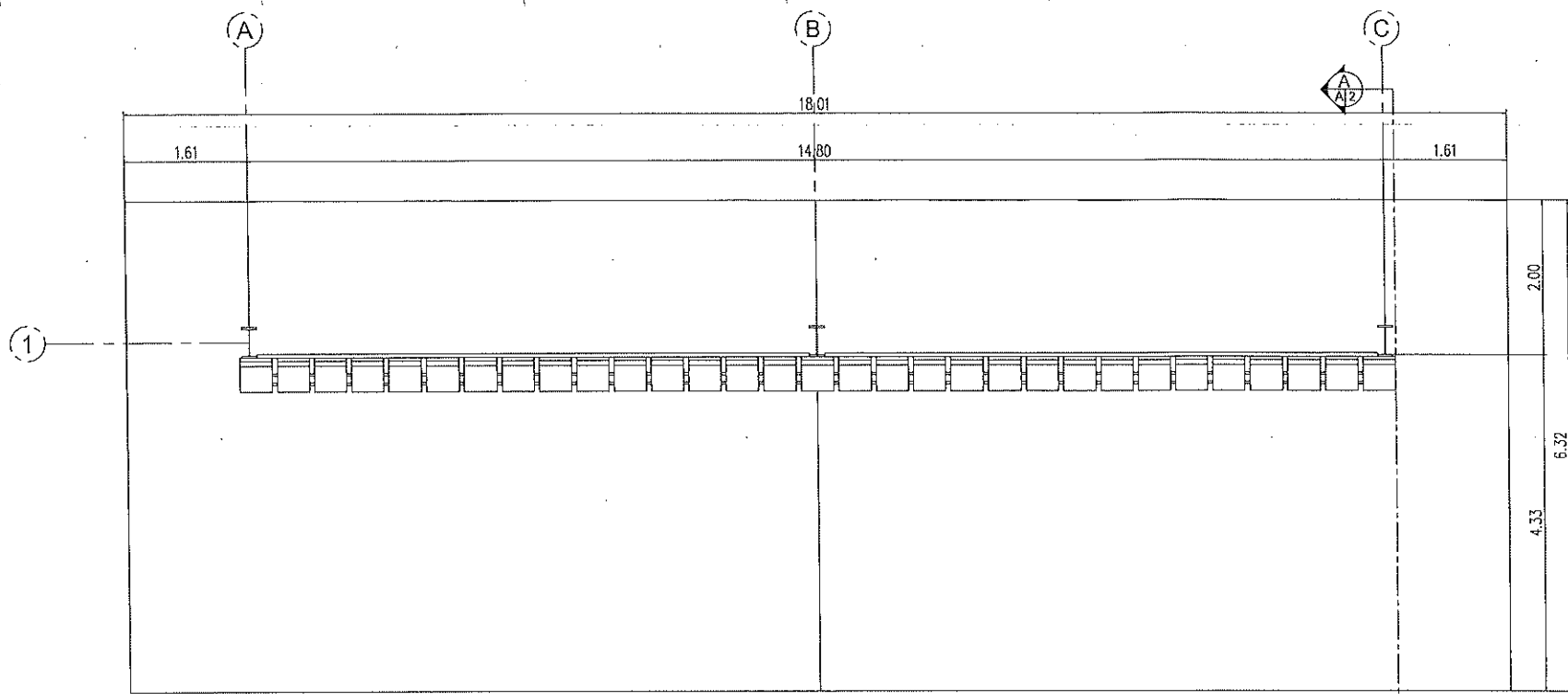
Construction of Athlete's Bench



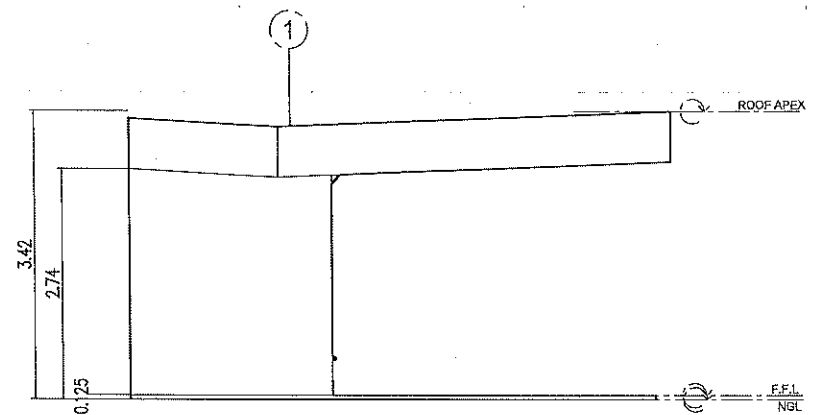
Scope of Works:
- Construction of Athlete's Bench

SITE DEVELOPMENT PLAN
SCALE DNTS

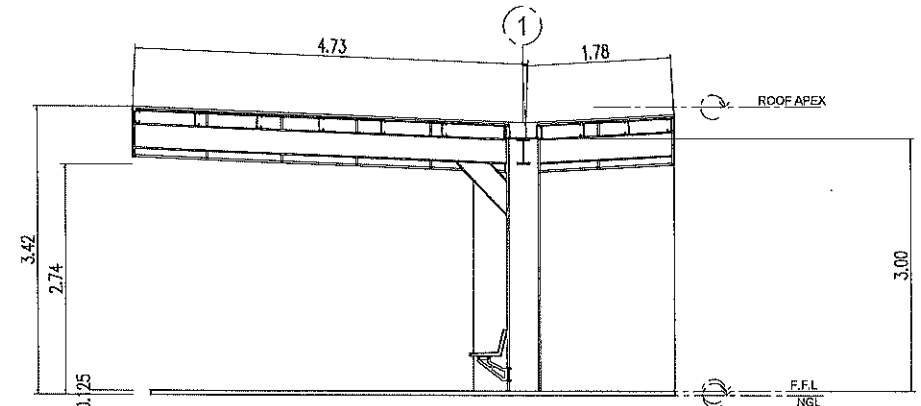
 <p>REPUBLIC OF THE PHILIPPINES PROVINCIAL ENGINEER'S OFFICE SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR</p>	<p>PROJECT TITLE: COMPLETION OF GOVERNOR DOUGLAS RA. CAGAS SPORTS COMPLEX AND BUSINESS CENTER SITE DEVELOPMENT</p>	<p>DESIGNED & PREPARED BY: JOSEPH RYAN B. REDOLOSO ENGINEER II</p>	<p>REVIEWED BY: JOSEPH R. GONZALES ENGINEER III Planning and Programming Division Head</p>	<p>RECOMMENDING APPROVAL: LEONERIL MARCH P. SUARIO Provincial Engineer</p>	<p>APPROVED BY: YVONNE ROÑA CAGAS Provincial Governor</p>	<p>A - 15</p> <p>51 65</p>
	<p>LOCATION: MATTI, DIGOS CITY, DAVAO DEL SUR</p>					



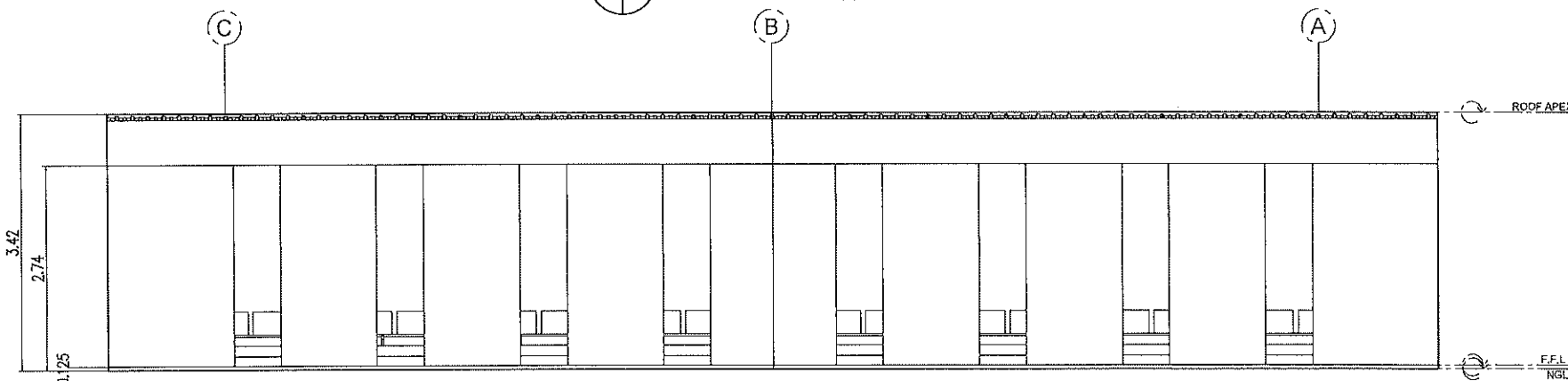
FLOOR PLAN
SCALE DNTS



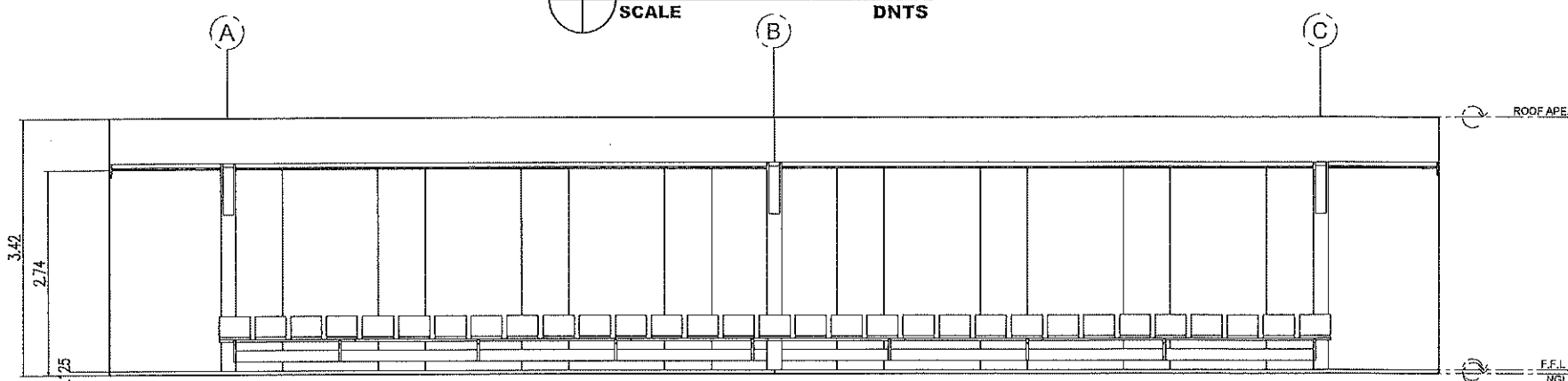
LEFT SIDE ELEVATION
SCALE DNTS



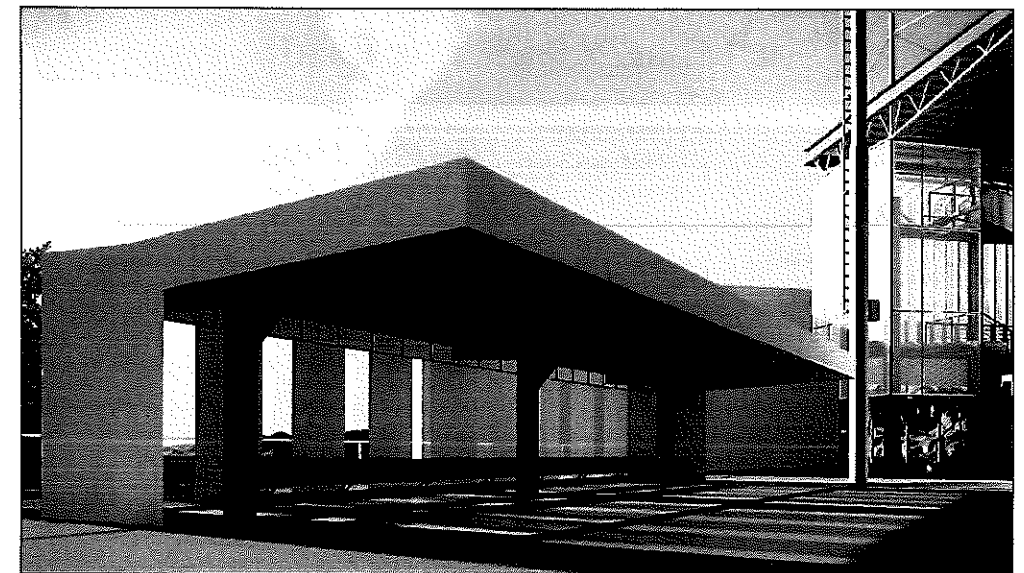
SECTION THRU "A-A"
SCALE DNTS



REAR ELEVATION
SCALE DNTS



FRONT ELEVATION
SCALE DNTS



PERSPECTIVE
SCALE DNTS



REPUBLIC OF THE PHILIPPINES
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SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR

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ENGINEER II

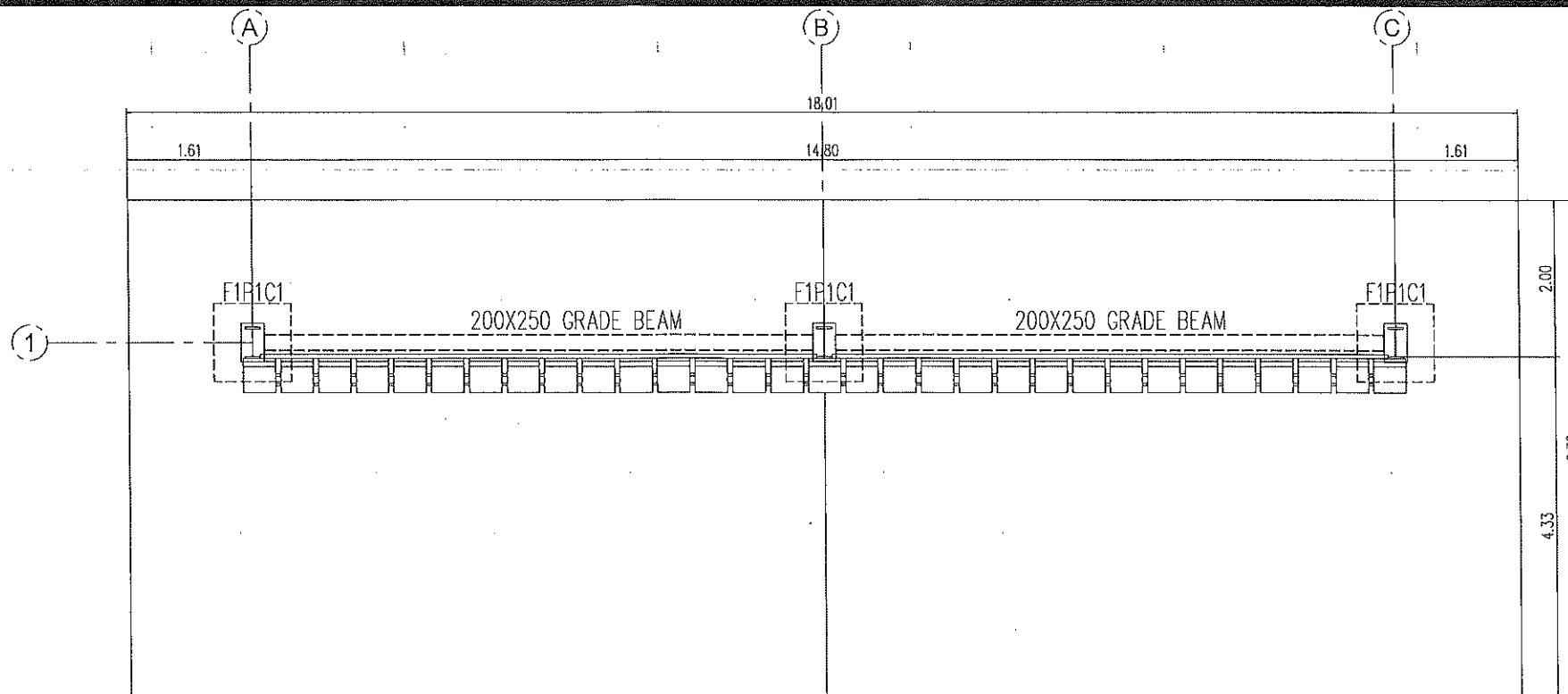
REVIEWED BY:
JOSEPH R. GONZALES
ENGINEER III
Planning and Programming Division Head

RECOMMENDING APPROVAL:
LEONERL MARCH P. SUARIO
Provincial Engineer

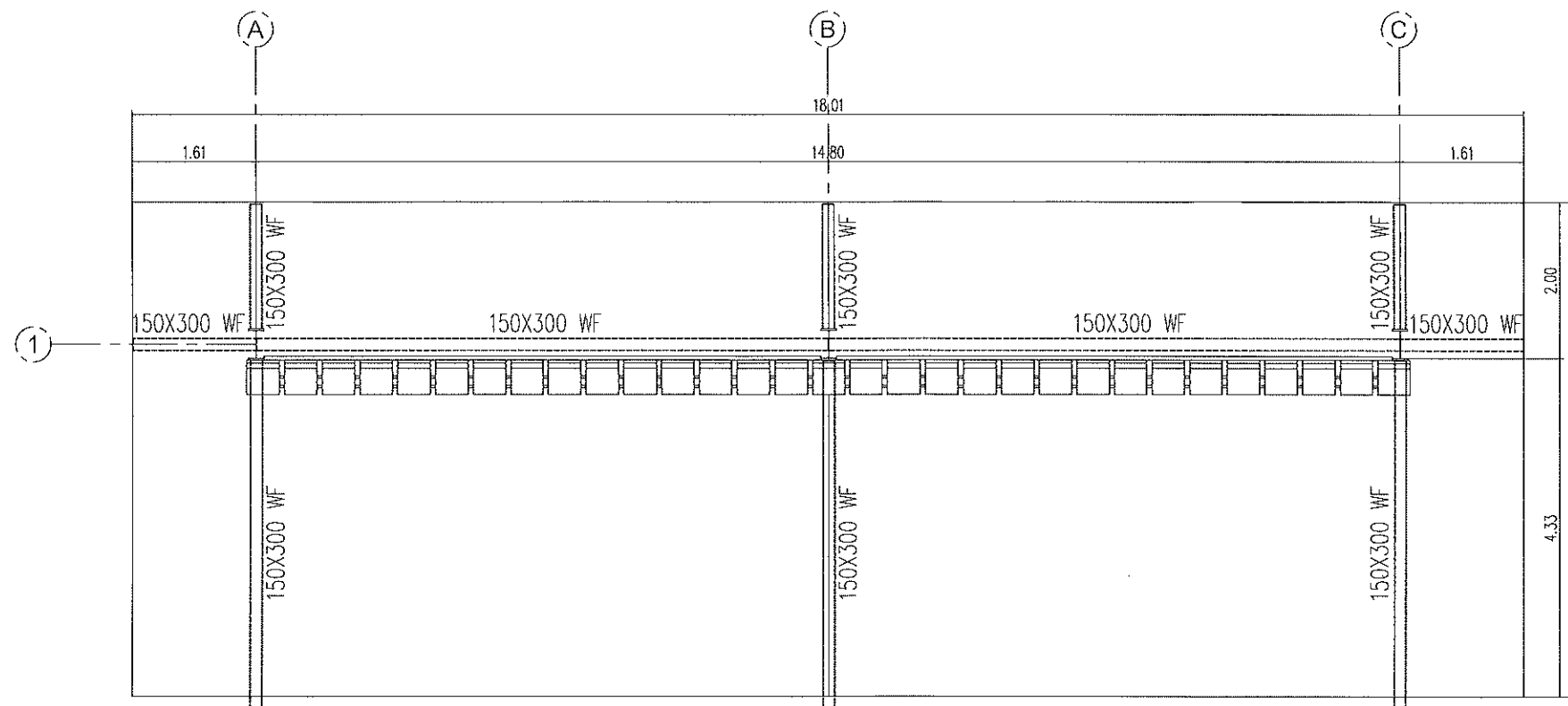
APPROVED BY:
YVONNE ROÑA CAGAS
Provincial Governor

A - 16

52 65



FOUNDATION LAYOUT
SCALE DNTS



BEAM LAYOUT
SCALE DNTS



REPUBLIC OF THE PHILIPPINES
PROVINCIAL ENGINEER'S OFFICE
SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR

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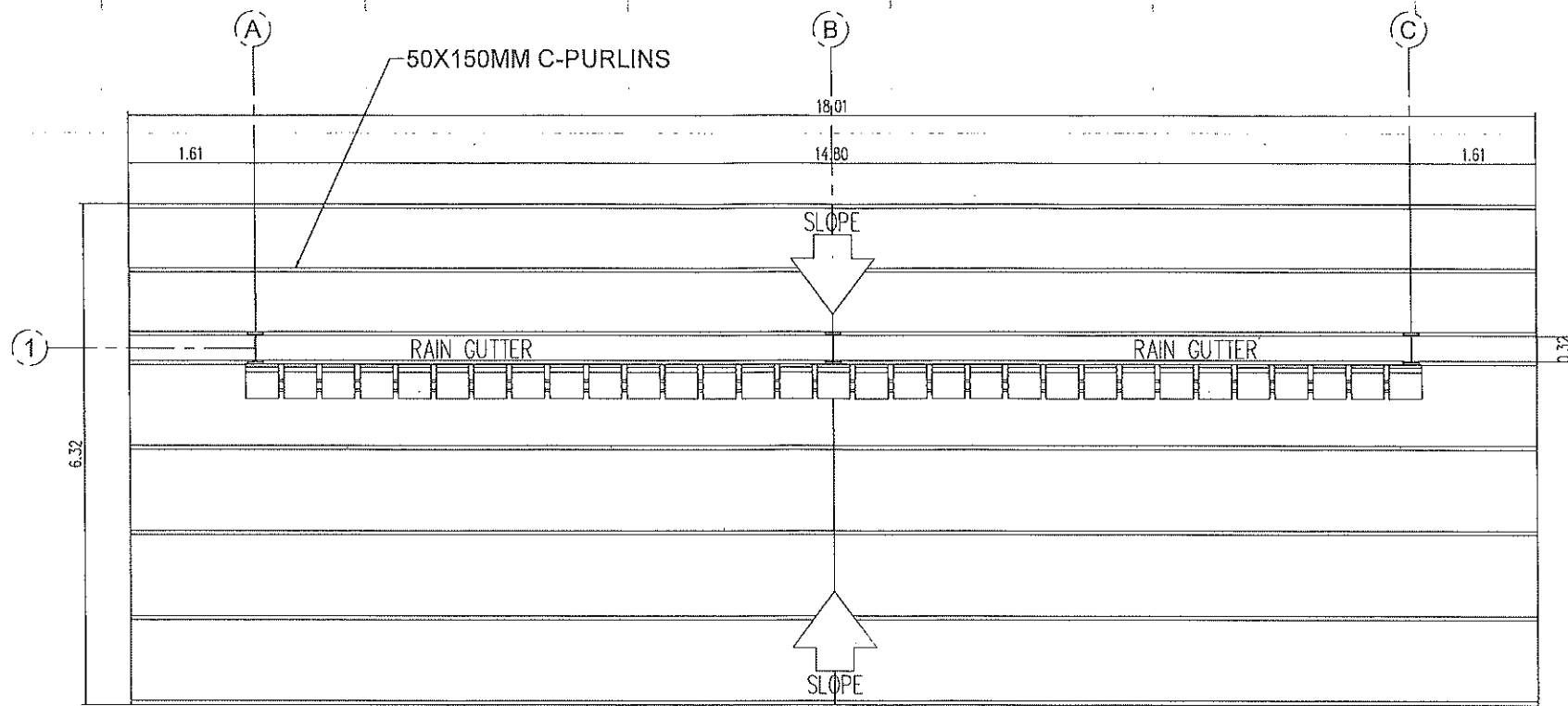
REVIEWED BY:
JOSEPH R. GONZALES
ENGINEER III
Planning and Programming Division Head

RECOMMENDING APPROVAL:
LEONERL MARCH P. SUARIO
Provincial Engineer

APPROVED BY:
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Provincial Governor

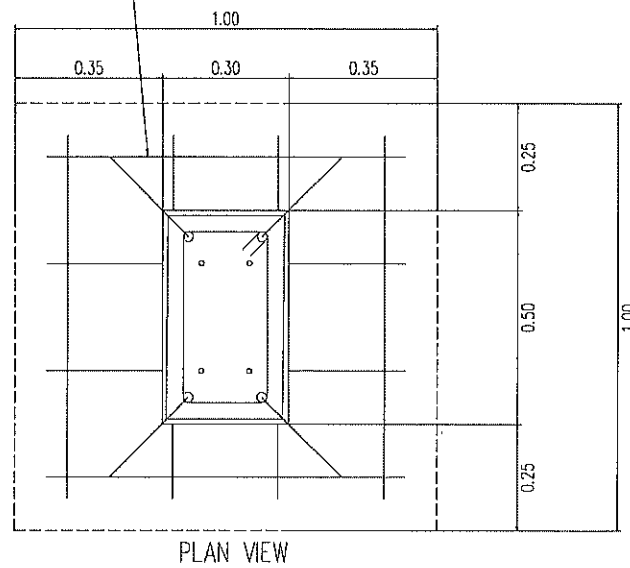
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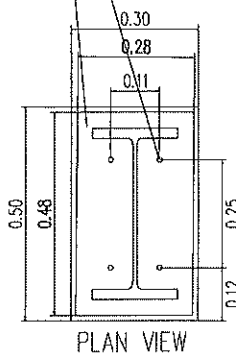
ROOF FRAMING LAYOUT
SCALE DNTS

5-Ø16mmØ BARS BOTHWAYS

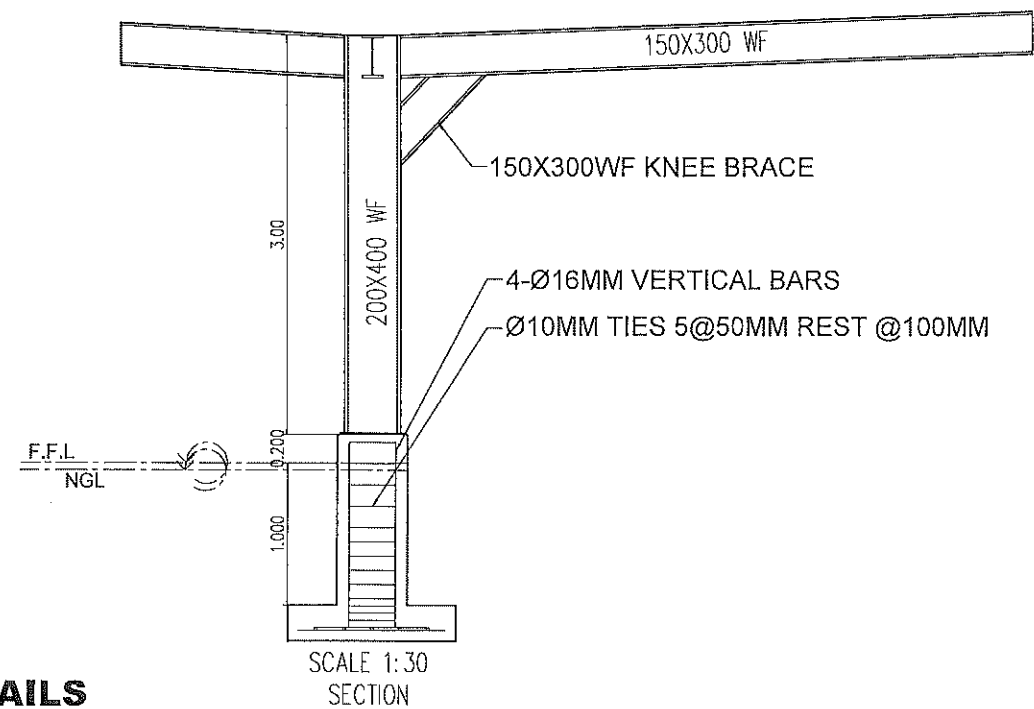


PLAN VIEW

4-Ø12MM ANCHOR BOLT
280X480X12MM BASE PLATE



PLAN VIEW



SCALE 1:30
SECTION

PEDESTAL FOOTING DETAILS
SCALE DNTS



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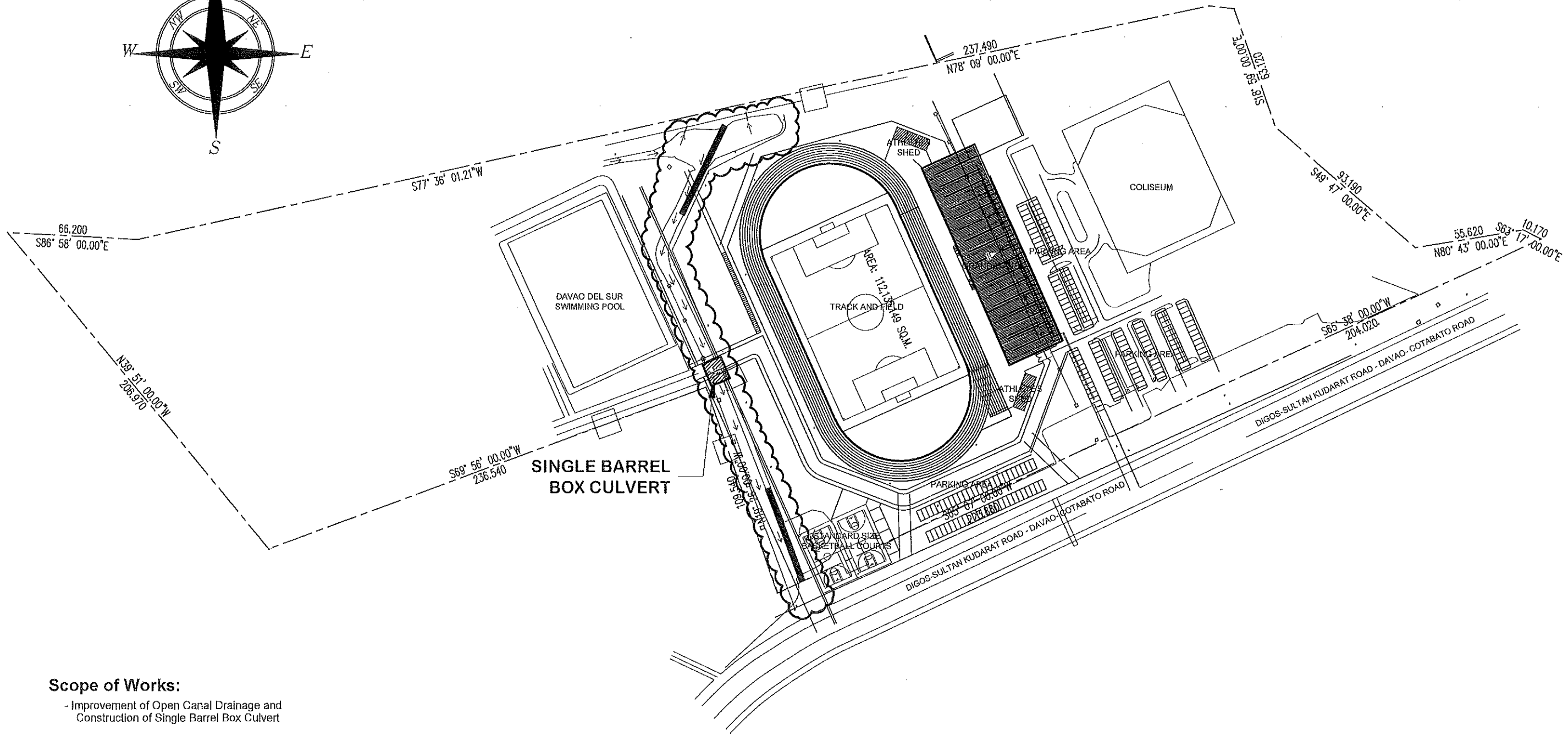
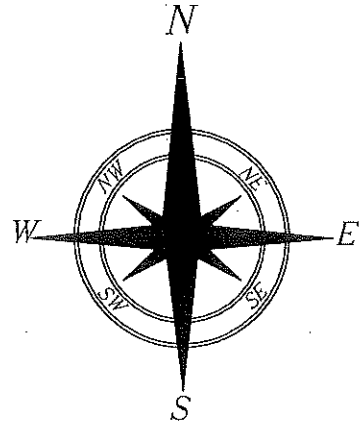
RECOMMENDING APPROVAL:
LEONERL MARCH P. SUARIO
Provincial Engineer

APPROVED BY:
YVONNE RONALD CAGAS
Provincial Governor

S - 14



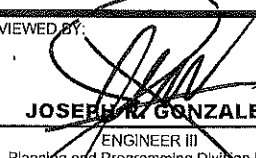
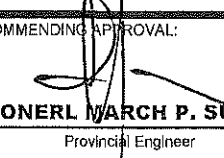
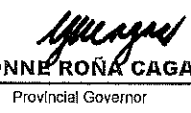
54 65

**Improvement of Open Canal Drainage and Construction
of Single Barrel Box Culvert**



Scope of Works:
 - Improvement of Open Canal Drainage and
 Construction of Single Barrel Box Culvert

SITE DEVELOPMENT PLAN
 SCALE DNTS

 REPUBLIC OF THE PHILIPPINES PROVINCIAL ENGINEER'S OFFICE SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR	PROJECT TITLE: COMPLETION OF GOVERNOR DOUGLAS RA. CAGAS SPORTS COMPLEX AND BUSINESS CENTER SITE DEVELOPMENT	DESIGNED & PREPARED BY:  JOSEPH RYAN B. REDOLOSO ENGINEER II	REVIEWED BY:  JOSEPH M. GONZALES ENGINEER III Planning and Programming Division Head	RECOMMENDING APPROVAL:  LEONERL MARCH P. SUARIO Provincial Engineer	APPROVED BY:  YVONNE ROÑA CAGAS Provincial Governor	A - 17
	LOCATION: MATTI, DIGOS CITY, DAVAO DEL SUR					

GENERAL NOTES:

SPECIFICATIONS:

DESIGN 1977 AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 12TH EDITION.

DESIGN LOAD:

LIVE LOAD MS - 18 (HS 20-44)

CONCRETE:

ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF $F_c' = 20.7 \text{ MPa}$ (3000 psi.) ALL EXPOSED CORNERS CHAMFERED 20mm. NO CONSTRUCTION JOINT ARE TO BE MADE EXCEPT WHERE SHOWN WHEN BOTTOM SLAB IS SUBJECTED TO ABRASION, ADD 25mm TO BOTTOM SLAB TO INCREASE COVERAGE ON STEEL.

STEEL REINFORCEMENT:

ALL REINFORCING STEEL SHALL BE INTERMEDIATE (GRADE 40) ASTM A-615 WITH DEFORMATIONS CONFORMING TO ASTM-305.

GENERAL:

IN STATING CULVERT SIZE, GIVE WIDTH BY HEIGHT (WIDTH FIRST) WHEN HEIGHT OF FILL, $H=0$, THE TOP OF SURFACE OF THE UPPER SLAB FOLLOW THE CROWN OF THE FINISHED ROADWAY. THE CULVERT SHALL BE CONSTRUCTED ON A LAYER OF LEAN CONCRETE OF 50mm MINIMUM THICKNESS.

LIVE LOAD DISTRIBUTION REINFORCEMENT:

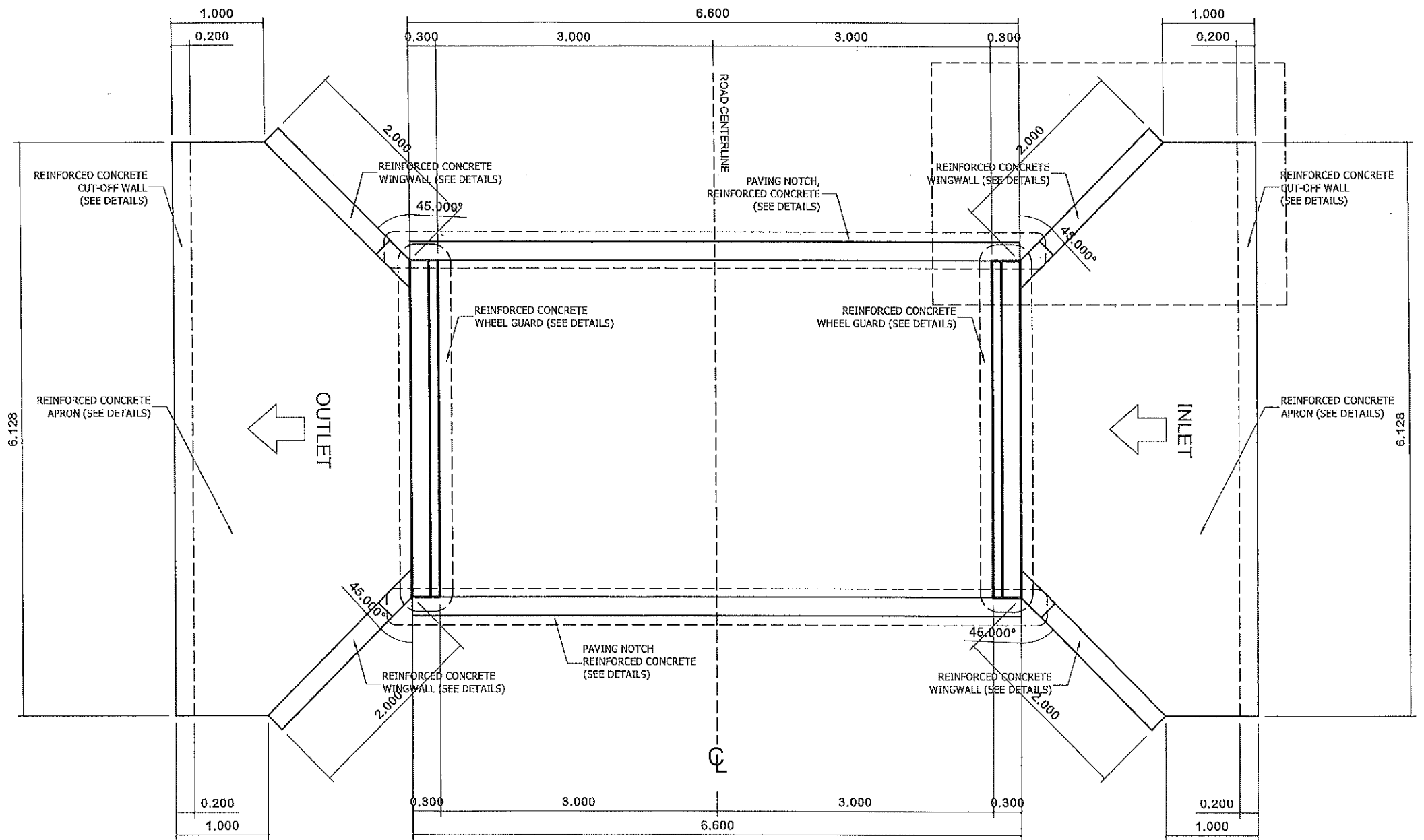
WHEN THERE IS LESS THAN 600mm OF FILL ABOVE TOP SLAB OF CULVERT ADDITIONAL REINFORCEMENT TRANSVERSE TO THE MAIN REINFORCEMENT IS ADDED TO THE BOTTOM OF THE TOP SLAB IN ACCORDANCE WITH AASHTO 1, 2, 3, E.

HEIGHT OF FILL:

MAXIMUM HEIGHT OF FILL IS 3000 mm ABOVE TOP SLAB, FOR HEIGHT OF FILL GREATER THAN 3000 mm SPECIAL DESIGN OF BOX CULVERT SHOULD BE DONE.

DIMENSIONS:

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE INDICATED.



SINGLE BARREL BOX CULVERT PLAN
SCALE DNTS



REPUBLIC OF THE PHILIPPINES
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LOCATION:
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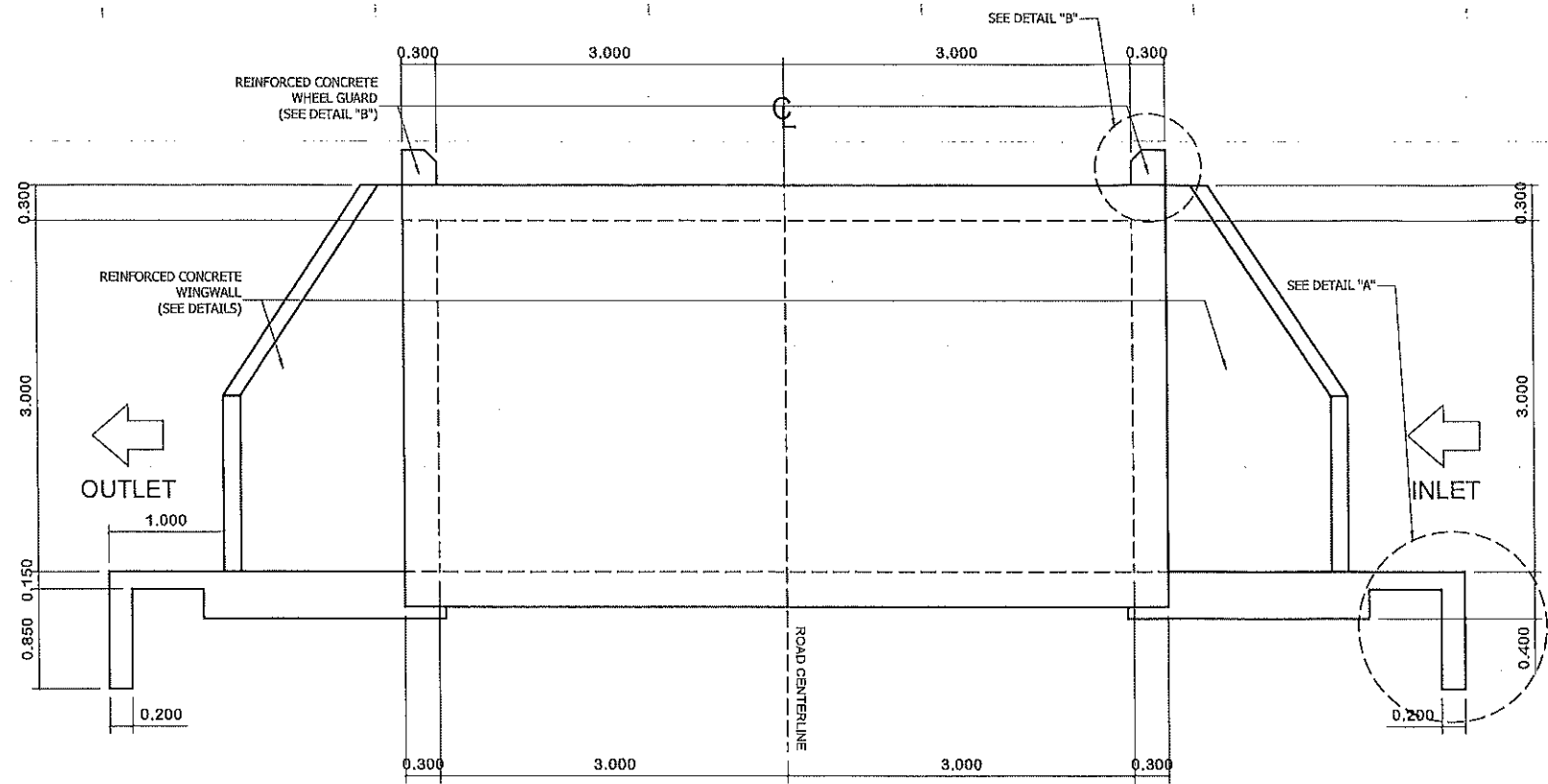
DESIGNED & PREPARED BY:
JOSEPH RYAN B. REDOLOSO
ENGINEER II

REVIEWED BY:
JOSEPH R. GONZALES
ENGINEER III
Planning and Programming Division Head

RECOMMENDING APPROVAL:
LEONERL MARCH P. SUARIO
Provincial Engineer

APPROVED BY:
YVONNE ROÑA CAGAS
Provincial Governor

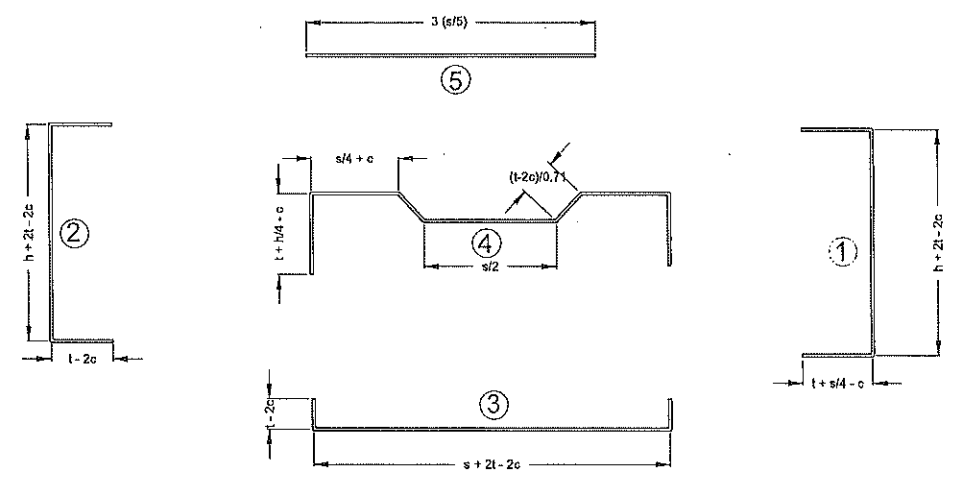
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56 43



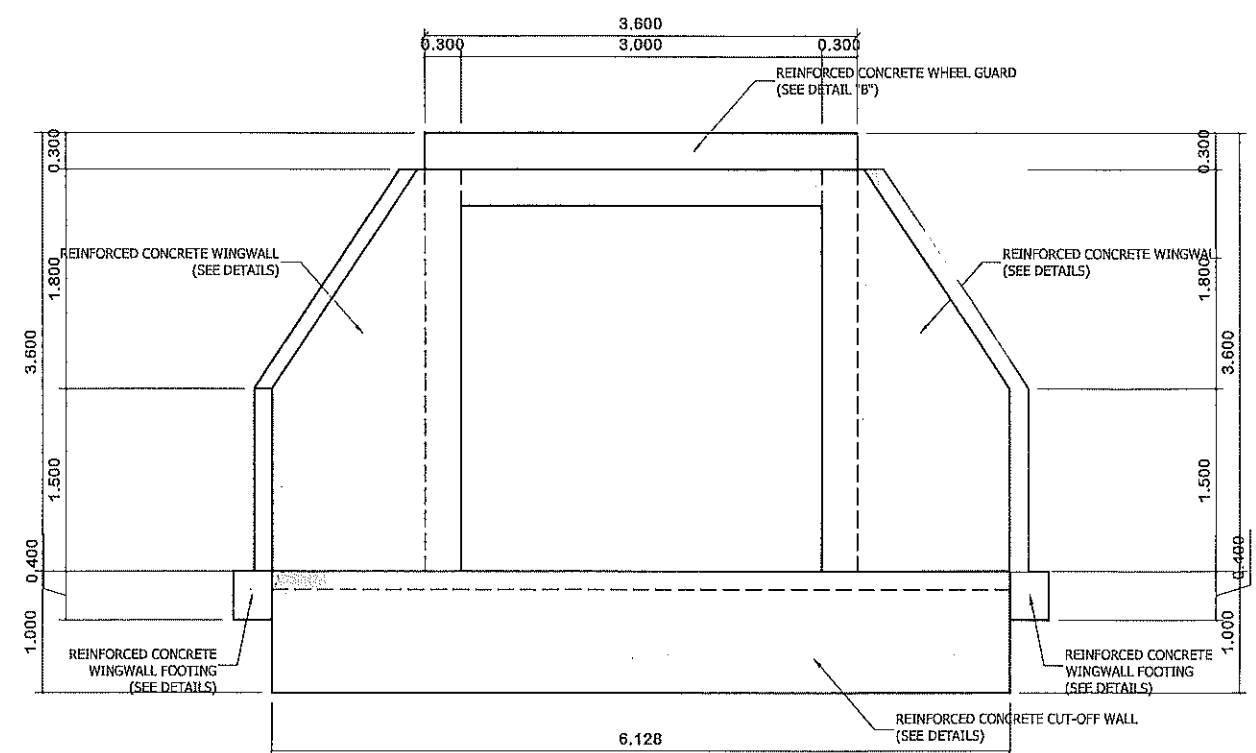
LONG SIDE SECTION
SCALE DNTS

CLEAR		SINGLE BARREL BOX CULVERT										
SPAN	HEIGHT	t	BAR 1		BAR 2		BAR 3		BAR 4		BAR 5	
S	h		Ø	SPACING	Ø	SPACING	Ø	SPACING	Ø	SPACING	Ø	SPACING
3,000	3,000	300	16	200	16	220	16	200	16	200	12	140

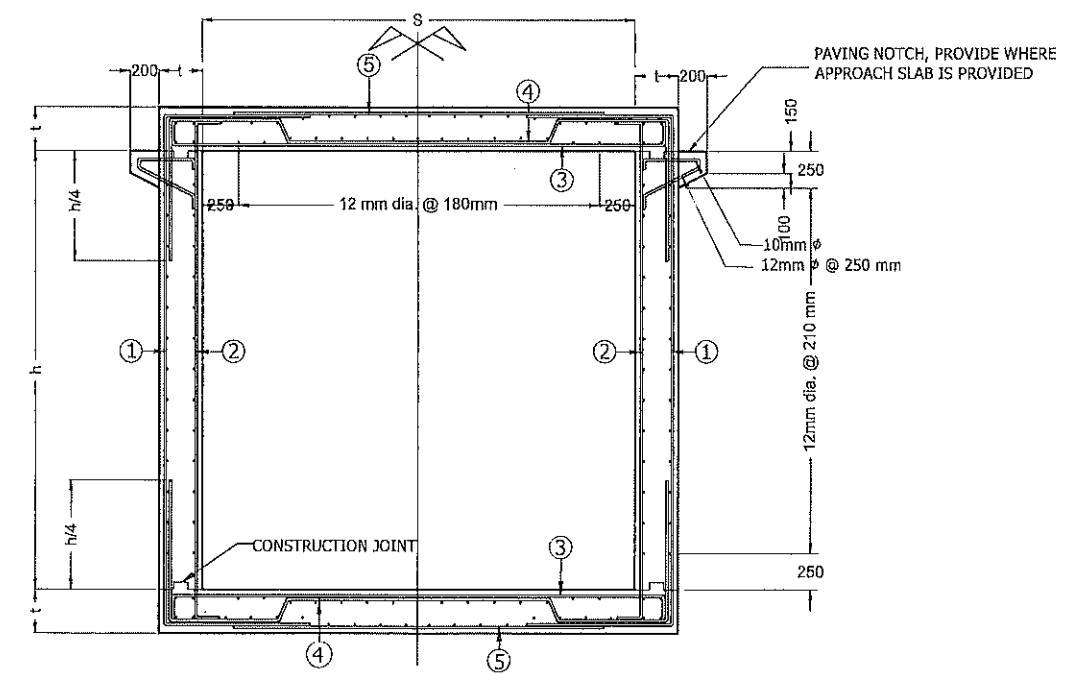
LEGEND:
c = concrete clear cover (50 mm)
o....ADDITIONAL REBARS IF FILL IS LESS THAN 600



BAR DIAGRAM
SCALE DNTS



SHORT SIDE SECTION
SCALE DNTS



SINGLE BARREL BOX CULVERT SECTION
SCALE DNTS



REPUBLIC OF THE PHILIPPINES
PROVINCIAL ENGINEER'S OFFICE
SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR

PROJECT TITLE:
COMPLETION OF GOVERNOR DOUGLAS RA. CAGAS SPORTS COMPLEX AND BUSINESS CENTER SITE DEVELOPMENT

LOCATION:
MATTI, DIGOS CITY, DAVAO DEL SUR

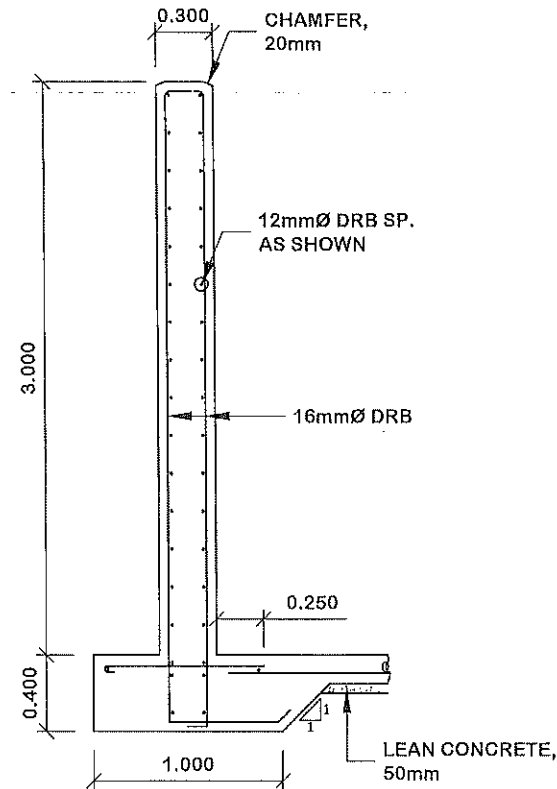
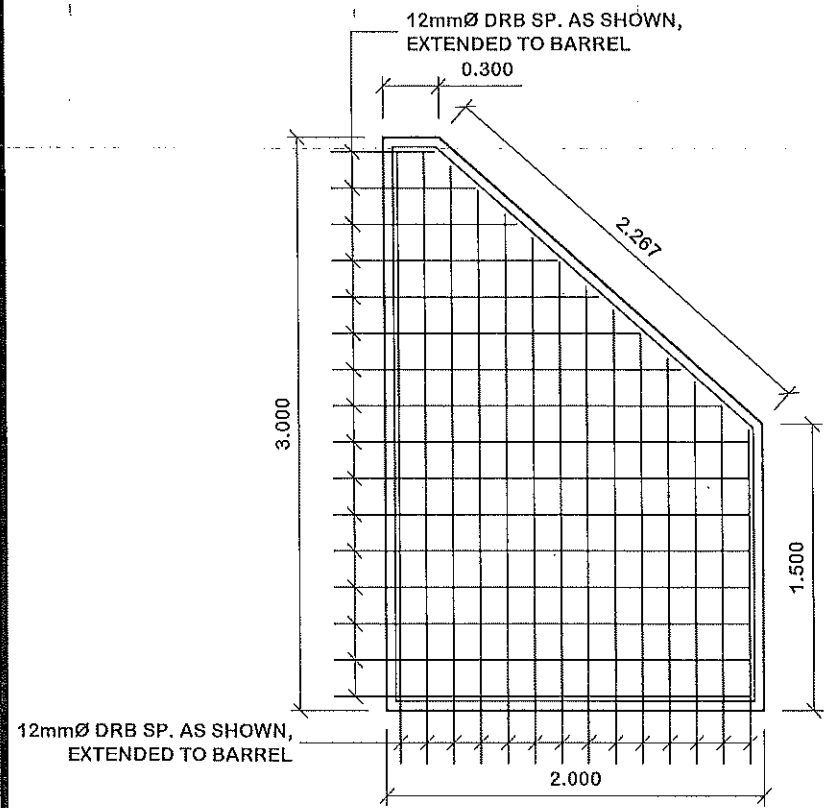
DESIGNED & PREPARED BY:
JOSEPH RYAN B. REDOLOSO
ENGINEER/II

REVIEWED BY:
JOSEPH R. GONZALES
ENGINEER/II
Planning and Programming Division Head

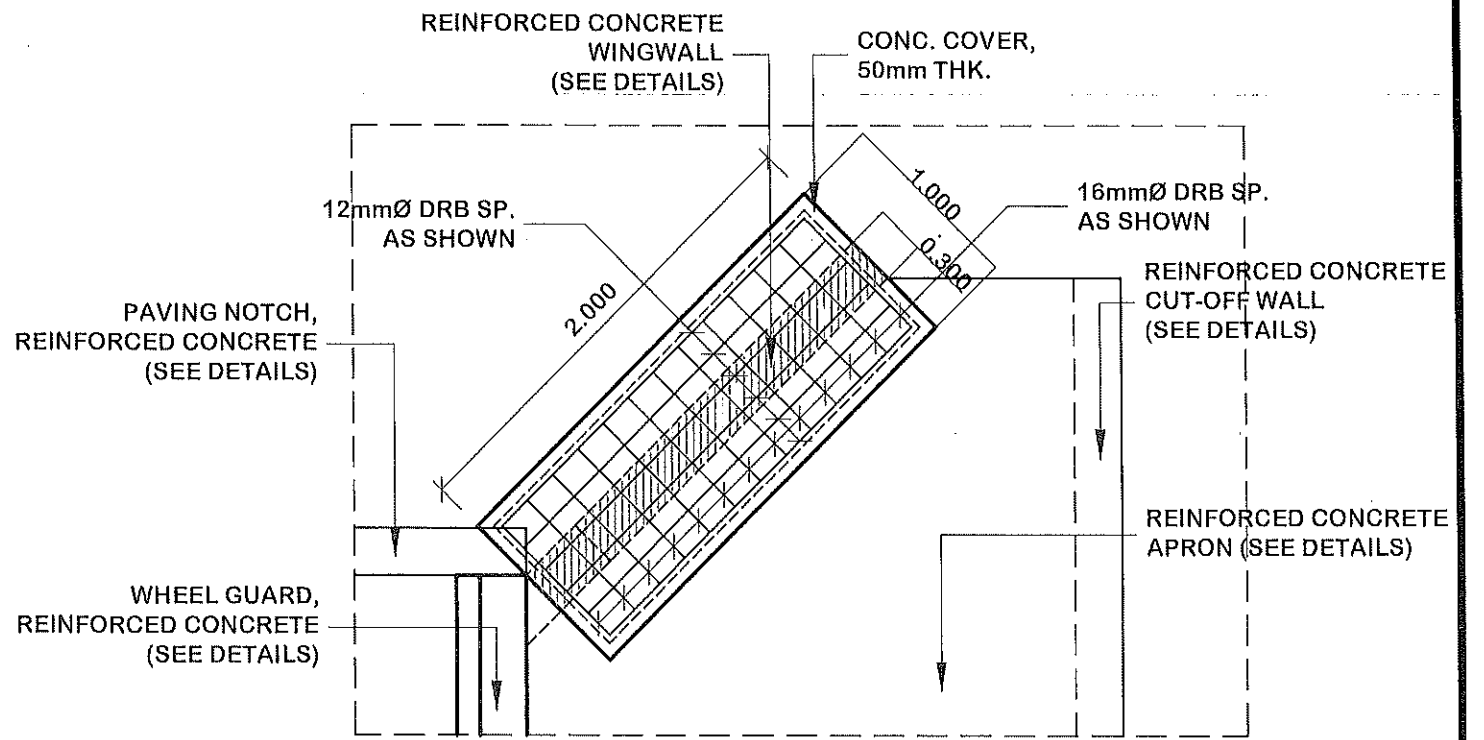
RECOMMENDING APPROVAL:
LEONERL WARCH P. SUARIO
Provincial Engineer

APPROVED BY:
YVONNE RONALD CAGAS
Provincial Governor

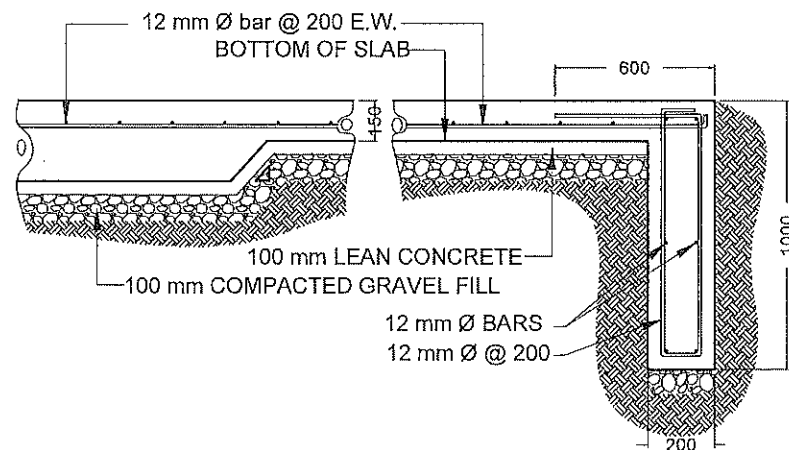
S - 16
57 43



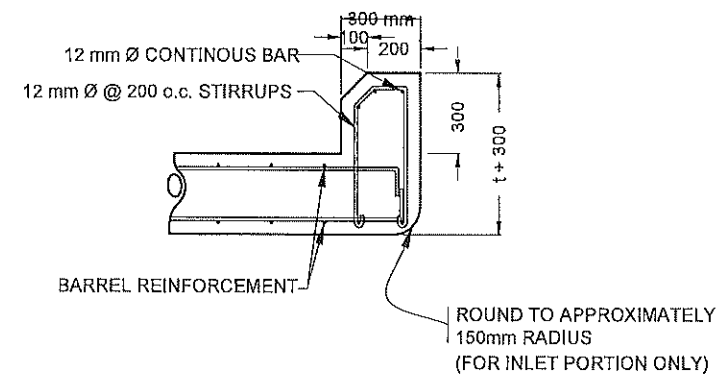
WINGWALL REINFORCEMENT DETAIL
SCALE DNTS



WINGWALL FOOTING REINFORCEMENT DETAIL
SCALE DNTS



DETAIL "A"
SCALE DNTS



DETAIL "B"
SCALE DNTS



REPUBLIC OF THE PHILIPPINES
PROVINCIAL ENGINEER'S OFFICE
SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR

PROJECT TITLE:
**COMPLETION OF GOVERNOR DOUGLAS RA. CAGAS SPORTS
COMPLEX AND BUSINESS CENTER SITE DEVELOPMENT**

LOCATION:
MATTI, DIGOS CITY, DAVAO DEL SUR

DESIGNED & PREPARED BY:
JOSEPH RYAN B. REDOLOSO
ENGINEER II

REVIEWED BY:
JOSEPH R. GONZALES
ENGINEER III
Planning and Programming Division Head

RECOMMENDING APPROVAL:
LEONER MARCH P. SUARIO
Provincial Engineer

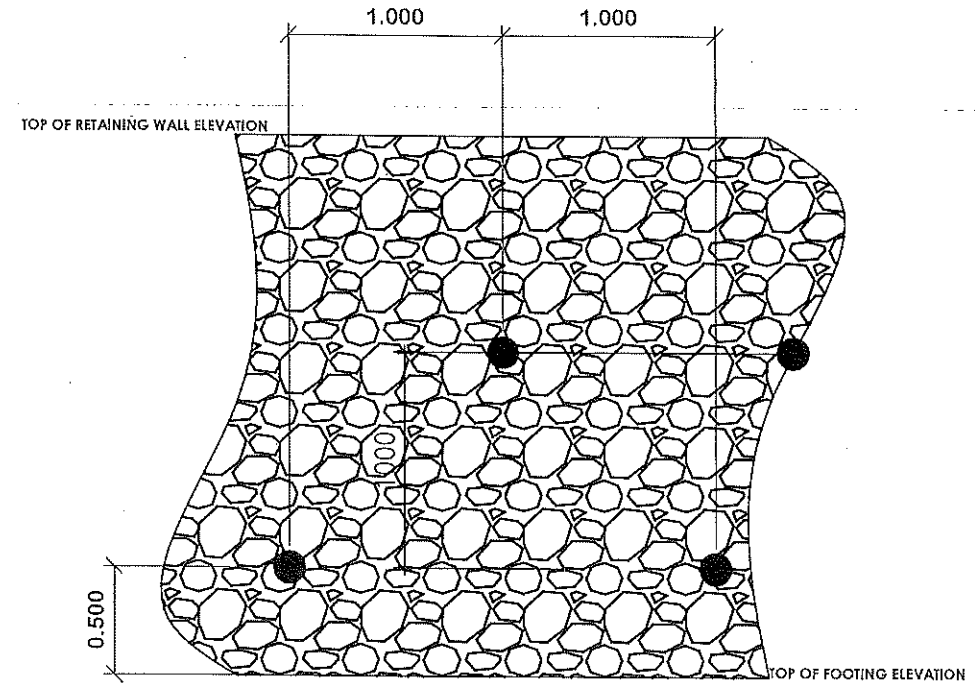
APPROVED BY:
YVONNE ROÑA CAGAS
Provincial Governor

S - 17

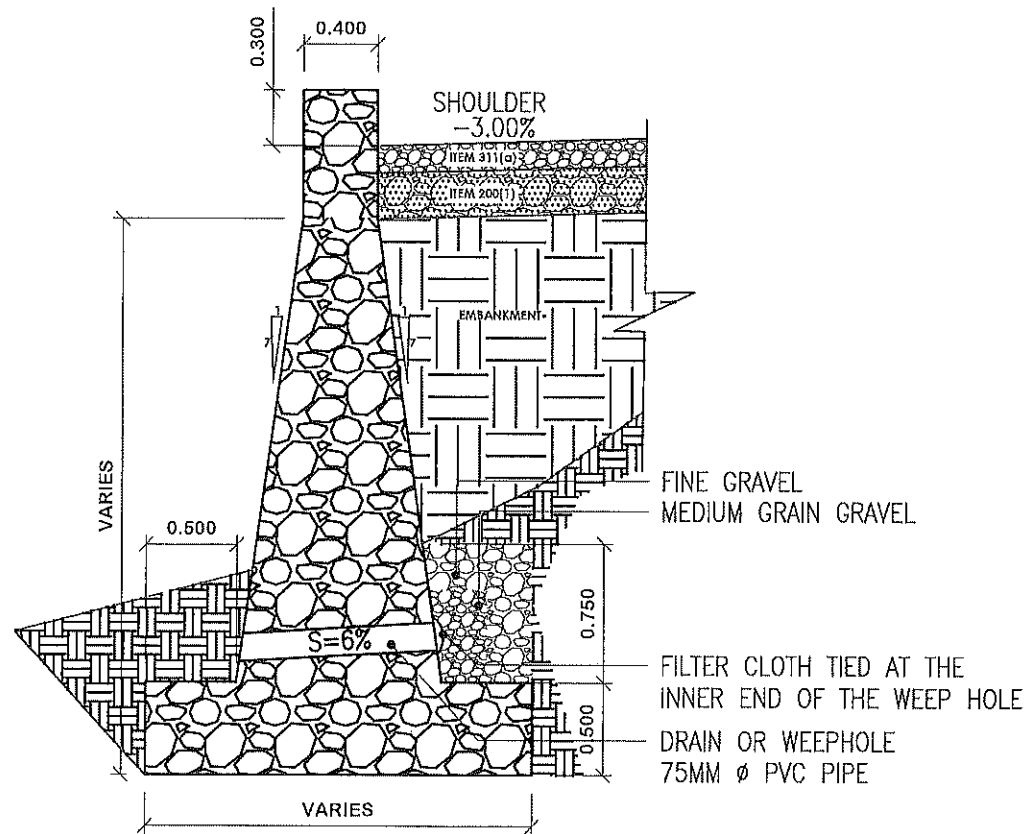
58 43

GENERAL NOTES:

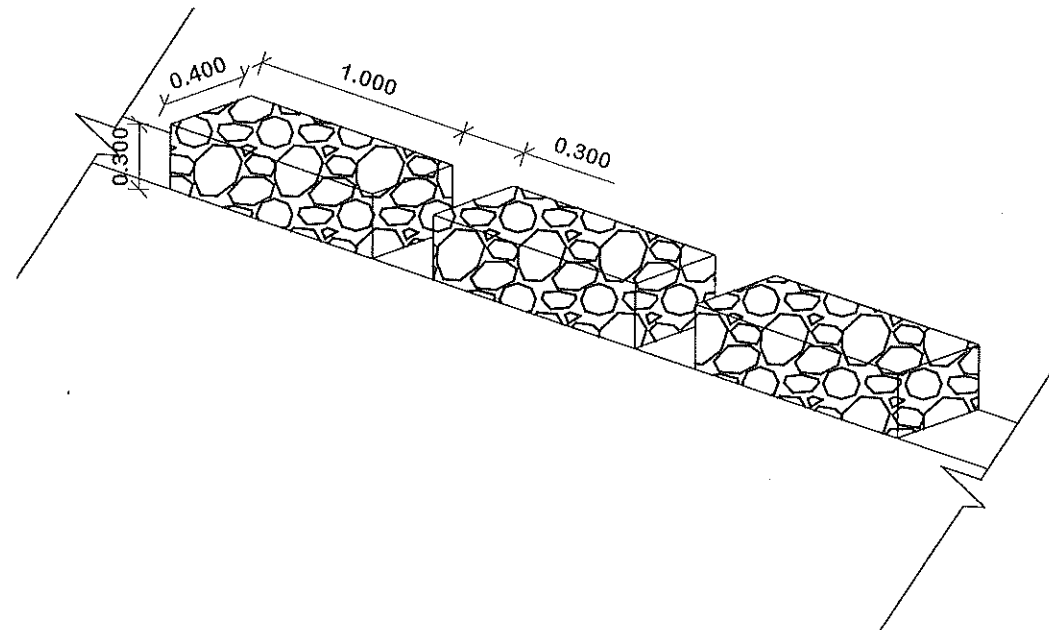
1. THE HEIGHT AND EXACT LOCATIONS OF SLOPE PROTECTION STRUCTURES SHALL BE VERIFIED BY THE ENGINEER, FIELD ADJUSTMENTS MAYBE MADE TO SUIT ACTUAL CONDITION.
2. BOULDERS TO BE USE IN THE STONE MASONRY SHALL CONFORM TO THE DPWH SPECIFICATION AND ANY BOULDERS FOUND TO BE SMALLER SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
3. CONCRETE SHALL COMPLY WITH SPECIFICATION ITEM 405b
4. STONE MASONRY SHALL COMPLY WITH SPECIFICATION ITEM 506
5. EMBANKMENT SHALL HAVE A MINIMUM STRIP OF 200MM AND SHALL BE TESTED ACCORDING TO SPECIFICATIONS. IN ANY CASE THE EMBANKMENT COLLAPSE DUE TO IMPROPER METHOD OF CONSTRUCTION OR MATERIALS USED, IT SHALL BE REPLACED AND RECTIFIED AT THE EXPENSES OF THE CONTRACTOR.
6. PRIOR TO INSTALLATION OF SLOPE PROTECTION STRUCTURE, ALL MATERIALS MUST BE TESTED AND SHOULD CONFORM THE TECHNICAL SPECIFICATIONS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY MATERIALS INSTALLED FOUND TO DEFICIENT IN WORKMANSHIP AND QUALITY OF WORK.



PARTIAL WEEP HOLE INSTALLATION ELEVATION
SCALE DNTS



STONE MASONRY SLOPE PROTECTION DETAILS
SCALE DNTS



STONE MASONRY GUARDRAIL DETAILS
SCALE DNTS



REPUBLIC OF THE PHILIPPINES
PROVINCIAL ENGINEER'S OFFICE
SAN AGUSTIN, DIGOS CITY, DAVAO DEL SUR

PROJECT TITLE:
**COMPLETION OF GOVERNOR DOUGLAS RA. CAGAS SPORTS
COMPLEX AND BUSINESS CENTER SITE DEVELOPMENT**

LOCATION:
MATTI, DIGOS CITY, DAVAO DEL SUR

DESIGNED & PREPARED BY:
JOSEPH RYAN B. REDOLOSO
ENGINEER II

REVIEWED BY:
JOSEPH R. GONZALES
ENGINEER III
Planning and Programming Division Head

RECOMMENDING APPROVAL:
LEONERIL MARCH P. SUARIO
Provincial Engineer

APPROVED BY:
YVONNE ROÑA CAGAS
Provincial Governor

S - 18

59 43

SECTION VIII.

BILL OF QUANTITIES

[See attached file.]

H

BILL OF QUANTITIES

Contract Name : **IMPROVEMENT OF GOVERNOR DOUGLAS RA. CAGAS SPORTS COMPLEX AND BUSINESS CENTER SITE DEVELOPMENT (PHASE I)**

Location of the Contract : **MATTI, DIGOS CITY, DAVAO DEL SUR**

Project Duration : **240 Calendar Days**

SUMMARY OF BID PRICES (All Parts of Bill of Quantities)

1. Part No. - Enter the "Part No." for each section of the Bill of Quantities (BOQ) where unit prices are entered.
2. Part Description - Enter the "Part Description" corresponding to the "Part No."
3. Total Amount - Enter the "total amount" in Pesos for all pages having the same "Part Description".
4. Adopting Green Procurement Policy by SBAC Resolution No. 140 series of 2019.

Contract ID:	Part No.	Part Description	Total Amount
	OTHER GENERAL REQUIREMENTS		
	B.3	Permits and Clearances	P
	B.5	Project Billboard/Signboard	P
	B.7 (1)	Occupational Safety and Health Program	P
	B.9	Mobilization/Demobilization	P
	PART A. CONSTRUCTION OF GRANDSTAND AND ATHLETE'S BENCH		
	801 (1)	Removal of Structures and Obstruction	P
	803 (1)a	Structure Excavation (Common Soil)	P
	804 (7)	Gavel Fill	P
	900 (1)	Structural Concrete, Class A, 3000 psi, 28 days	P
	901 (1)	Lean Concrete (Ready Mix, 28 days)	P
	902 (1)a1	Reinforcing Steel (Deformed) Grade 40/Grade 60	P
	903 (1)	Formworks and Falseworks	P
	1000 (1)	Soil Poisoning	P
	1001 (11)	Septic Vault/Tank, Concrete/CHB	P
	1002	Plumbing Works	P
	1003 (17)	Carpentry and Joinery Works, Phenolic Partition	P
	1003 (1)e1	Carpentry and Joinery Works, Gypsum Board Ceiling on Metal Frame	P
	1008	Aluminum Glass Windows	P
	1011(1)a	Roll-Up Door	P
	1018(1)	Glazed Tiles and Trims	P
	1027 (1)	Cement Plaster Finish	P
	1032 (1)a	Painting Works, Masonry/Concrete	P
	1043(1)	PVC Doors and Frames	P
	1046	150mm CHB Non-Load Bearing/Load Bearing (Inc. Reinforcing Steel)	P
	1047 (1)	Structural Steel	P
	1051 (5)	Metal Railing	P
	SPL - I	Polyurethane Sandwich Panel	P
	SPL - II	Electrical works and Ventilating Equipment	P
	SPL - III	Bleachers	P
	SPL - IV	Epoxy Flooring	P
	PART B. EMBANKMENT		
	104(2)a	Embankment from Borrow	P
	PART C. IMPROVEMENT OF OPEN CANAL DRAINAGE AND INSTALLATION OF SINGLE BARREL BOX CULVERT		
	404	Reinforcing Steel Bar, Grade 40/Grade 60	P
	405(1)a3	Structural Concrete, Class A, 3000 psi, 28 days	P
	407 (8)	Lean Concrete, Class B	P
	506	Stone Masonry (Lined Canal)	P
	PART D. CONSTRUCTION OF OUTDOOR BASKETBALL COURT		
	801 (1)	Removal of Structures and Obstruction	P

803 (1)a	Structure Excavation (Common Soil)	P
804 (7)	Gravel Fill	P
900 (1)	Structural Concrete, Class A, 3000 psi, 28 days	P
901 (1)	Lean Concrete (Ready Mix, 28 days)	P
902 (1)a1	Reinforcing Steel (Deformed) Grade 40/Grade 60	P
903 (2)	Formworks and Falseworks	P
1000 (1)	Soil Poisoning	P
1013 (5)	Corrugated Asphalt Roofing	P
1027 (1)	Cement Plaster Finish	P
1032 (1)a	Painting Works, Masonry/Concrete	P
1046	150mm CHB Non-Load Bearing/Load Bearing (Inc. Reinforcing Steel)	P
1047 (1)	Structural Steel	P
Total of All Amounts		P

Total of All Amounts in Words:

Name : _____ In capacity of : _____

Signed : _____ Date : _____

Duly authorized to sign the Bid for and on behalf of : _____

Contract Name : IMPROVEMENT OF GOVERNOR DOUGLAS RA. CAGAS SPORTS COMPLEX AND BUSINESS CENTER SITE DEVELOPMENT (PHASE I)

Location of the Contract : MATTI, DIGOS CITY, DAVAO DEL SUR

Project Duration : 240 Calendar Days

BILL OF QUANTITIES

Part No. _____

Pay Item No. 1	Description 2	Unit 3	Quantity 4	Unit Price (Pesos) 5	Amount (Pesos) 6
B.3	Permits and Clearances	L.S.	1.00	In words: _____ In figures: _____	In words: _____ In figures: _____
B.5	Project Billboard/Signboard	each	1.00	In words: _____ In figures: _____	In words: _____ In figures: _____
B.7 (1)	Occupational Safety and Health Program	months	8.00	In words: _____ In figures: _____	In words: _____ In figures: _____
B.9	Mobilization/Demobilization	L.S.	1.00	In words: _____ In figures: _____	In words: _____ In figures: _____
801 (1)	Removal of Structures and Obstruction	L.S.	1.00	In words: _____ In figures: _____	In words: _____ In figures: _____

Submitted by: _____

Name of the Representative of the Bidder _____

Date : _____

Position _____

Name of Bidder _____

Contract Name : IMPROVEMENT OF GOVERNOR DOUGLAS RA. CAGAS SPORTS COMPLEX AND BUSINESS CENTER SITE DEVELOPMENT (PHASE I)

Location of the Contract : MATTI, DIGOS CITY, DAVAO DEL SUR

Project Duration : 240 Calendar Days

BILL OF QUANTITIES

Part No. _____

Pay Item No.	Description	Unit	Quantity	Unit Price (Pesos)	Amount (Pesos)
1	2	3	4	5	6
803 (1)a	Structure Excavation (Common Soil)	cu.m.	1,280.82	In words: _____ In figures: _____	In words: _____ In figures: _____
804 (7)	Gravel Fill	cu.m.	354.36	In words: _____ In figures: _____	In words: _____ In figures: _____
900 (1)	Structural Concrete, Class A, 3000 psi, 28 days	cu.m.	1,048.89	In words: _____ In figures: _____	In words: _____ In figures: _____
901 (1)	Lean Concrete (Ready Mix, 28 days)	cu.m.	132.96	In words: _____ In figures: _____	In words: _____ In figures: _____
902 (1)a1	Reinforcing Steel (Deformed) Grade 40/Grade 60	kg.	74,687.40	In words: _____ In figures: _____	In words: _____ In figures: _____

Submitted by: _____

Date : _____

Name of the Representative of the Bidder _____

Position _____

Name of Bidder _____

Contract Name : IMPROVEMENT OF GOVERNOR DOUGLAS RA. CAGAS SPORTS COMPLEX AND BUSINESS CENTER SITE DEVELOPMENT (PHASE I)

Location of the Contract : MATTI, DIGOS CITY, DAVAO DEL SUR

Project Duration : 240 Calendar Days

BILL OF QUANTITIES

Part No. _____

Pay Item No.	Description	Unit	Quantity	Unit Price (Pesos)	Amount (Pesos)
1	2	3	4	5	6
903 (1)	Formworks and Falseworks	L.S.	1.00	In words: _____ In figures: _____	In words: _____ In figures: _____
1000 (1)	Soil Poisoning	L	180.00	In words: _____ In figures: _____	In words: _____ In figures: _____
1001 (11)	Septic Vault/Tank, Concrete/CHB	L.S.	1.00	In words: _____ In figures: _____	In words: _____ In figures: _____
1002	Plumbing Works	L.S.	1.00	In words: _____ In figures: _____	In words: _____ In figures: _____
1003 (17)	Carpentry and Joinery Works, Phenolic Partition	L.S.	1.00	In words: _____ In figures: _____	In words: _____ In figures: _____

Submitted by: _____

Date : _____

Name of the Representative of the Bidder

Position

Name of Bidder

Contract Name : IMPROVEMENT OF GOVERNOR DOUGLAS RA. CAGAS SPORTS COMPLEX AND BUSINESS CENTER SITE DEVELOPMENT (PHASE I)

Location of the Contract : MATTI, DIGOS CITY, DAVAO DEL SUR

Project Duration : 240 Calendar Days

BILL OF QUANTITIES

Part No. _____

Pay Item No.	Description	Unit	Quantity	Unit Price (Pesos)	Amount (Pesos)
1	2	3	4	5	6
1003 (1)el	Carpentry and Joinery Works, Gypsum Board Ceiling on Metal Frame	sq.m.	218.66	In words: _____ In figures: _____	In words: _____ In figures: _____
1008	Aluminium Glass Windows	sq.m.	14.77	In words: _____ In figures: _____	In words: _____ In figures: _____
1011 (1)a	Roll-Up Door	set	30.00	In words: _____ In figures: _____	In words: _____ In figures: _____
1018(1)	Glazed Tiles and Trims	sq.m.	2,772.47	In words: _____ In figures: _____	In words: _____ In figures: _____
1027 (1)	Cement Plaster Finish	sq.m.	5,221.18	In words: _____ In figures: _____	In words: _____ In figures: _____

Submitted by: _____

Date : _____

Name of the Representative of the Bidder _____

Position _____

Name of Bidder _____

Contract Name : IMPROVEMENT OF GOVERNOR DOUGLAS RA. CAGAS SPORTS COMPLEX AND BUSINESS CENTER SITE DEVELOPMENT (PHASE I)

Location of the Contract : MATTI, DIGOS CITY, DAVAO DEL SUR

Project Duration : 240 Calendar Days

BILL OF QUANTITIES

Part No. _____

Pay Item No. 1	Description 2	Unit 3	Quantity 4	Unit Price (Pesos) 5	Amount (Pesos) 6
1032 (1)a	Painting Works, Masonry/Concrete	sq.m.	5,221.18	In words: _____ In figures: _____	In words: _____ In figures: _____
1043(1)	PVC Doors and Frames	sq.m.	13.55	In words: _____ In figures: _____	In words: _____ In figures: _____
1046	150mm CHB Non-load Bearing/oad Bearing (Inc. Reinforcing Steel)	sq.m.	2,670.59	In words: _____ In figures: _____	In words: _____ In figures: _____
1047 (1)	Structural Steel	L.S.	1.00	In words: _____ In figures: _____	In words: _____ In figures: _____
1051 (5)	Metal Railing	m	387.00	In words: _____ In figures: _____	In words: _____ In figures: _____

Submitted by: _____

Date : _____

Name of the Representative of the Bidder _____

Position _____

Name of Bidder _____

Contract Name : IMPROVEMENT OF GOVERNOR DOUGLAS RA. CAGAS SPORTS COMPLEX AND BUSINESS CENTER SITE DEVELOPMENT (PHASE I)

Location of the Contract : MATTI, DIGOS CITY, DAVAO DEL SUR

Project Duration : 240 Calendar Days

BILL OF QUANTITIES

Part No. _____

Pay Item No.	Description	Unit	Quantity	Unit Price (Pesos)	Amount (Pesos)
1	2	3	4	5	6
SPL - I	Polyurethane Sandwich Panel	L.S.	1.00	In words: _____ In figures: _____	In words: _____ In figures: _____
SPL - II	Electrical works and Ventilating Equipment	L.S.	1.00	In words: _____ In figures: _____	In words: _____ In figures: _____
SPL - III	Bleachers	each	2 316.00	In words: _____ In figures: _____	In words: _____ In figures: _____
SPL - IV	Epoxy Flooring	L.S.	1.00	In words: _____ In figures: _____	In words: _____ In figures: _____
104(2)a	Embankment from Borrow	cu.m.	37,273.20	In words: _____ In figures: _____	In words: _____ In figures: _____

Submitted by: _____

Date : _____

Name of the Representative of the Bidder _____

Position _____

Name of Bidder _____

: IMPROVEMENT OF GOVERNOR DOUGLAS RA. CAGAS SPORTS COMPLEX AND BUSINESS CENTER SITE DEVELOPMENT (PHASE I)

Contract Name : **IMPROVEMENT OF GOVERNOR DOUGLAS RA. CAGAS SPORTS COMPLEX AND BUSINESS CENTER SITE DEVELOPMENT (PHASE I)**
 Location of the Contract : **MATTI, DIGOS CITY, DAVAO DEL SUR**
 Project Duration : **240 Calendar Days**

BILL OF QUANTITIES

Part No. _____

Pay Item No. 1	Description 2	Unit 3	Quantity 4	Unit Price (Pesos) 5	Amount (Pesos) 5
404	Reinforcing Steel Bar, Grade 40/Grade 60	kg	12,418.23	In words: _____ In figures: _____	In words: _____ In figures: _____
405(1)as	Structural Concrete, Class A, 3000 psi, 28 days	cu.m.	40.08	In words: _____ In figures: _____	In words: _____ In figures: _____
407 (B)	Lean Concrete, Class B	cu.m.	6.82	In words: _____ In figures: _____	In words: _____ In figures: _____
506	Stone Masonry (Lined Canal)	cu.m.	1,666.00	In words: _____ In figures: _____	In words: _____ In figures: _____
801 (1)	Removal of Structures and Obstruction	L.S.	1.00	In words: _____ In figures: _____	In words: _____ In figures: _____

Submitted by: _____

Date : _____

Name of the Representative of the Bidder

Position

Name of Bidder

Contract Name : IMPROVEMENT OF GOVERNOR DOUGLAS RA. CAGAS SPORTS COMPLEX AND BUSINESS CENTER SITE DEVELOPMENT (PHASE I)

Location of the Contract : MATTI, DIGOS CITY, DAVAO DEL SUR

Project Duration : 240 Calendar Days

BILL OF QUANTITIES

Part No. _____

Pay Item No. 1	Description 2	Unit 3	Quantity 4	Unit Price (Pesos) 5	Amount (Pesos) 6
803 (1)a	Structure Excavation (Common Soil)	cu.m.	90.44	In words: _____ In figures: _____	In words: _____ In figures: _____
804 (7)	Gravel Fill	cu.m.	214.32	In words: _____ In figures: _____	In words: _____ In figures: _____
900 (1)	Structural Concrete, Class A, 3000 psi, 28 days	cu.m.	324.08	In words: _____ In figures: _____	In words: _____ In figures: _____
901 (1)	Lean Concrete (Ready Mix, 28 days)	cu.m.	106.16	In words: _____ In figures: _____	In words: _____ In figures: _____
902 (1)a1	Reinforcing Steel (Deformed) Grade 40/Grade 60	kg.	15,845.80	In words: _____ In figures: _____	In words: _____ In figures: _____

Submitted by: _____

Date : _____

Name of the Representative of the Bidder

Position

Name of Bidder

Contract Name : IMPROVEMENT OF GOVERNOR DOUGLAS RA. CAGAS SPORTS COMPLEX AND BUSINESS CENTER SITE DEVELOPMENT (PHASE I)

Location of the Contract : MATTI, DIGOS CITY, DAVAO DEL SUR

Project Duration : 240 Calendar Days

BILL OF QUANTITIES

Part No. _____

Pay Item No.	Description	Unit	Quantity	Unit Price (Pesos)	Amount (Pesos)
1	2	3	4	5	6
903 (2)	Formworks and Falseworks	sq.m.	35.28	In words: _____ In figures: _____	In words: _____ In figures: _____
1000 (1)	Soil Poisoning	L	136.00	In words: _____ In figures: _____	In words: _____ In figures: _____
1013 (5)	Corrugated Asphalt Roofing	sq.m.	360.62	In words: _____ In figures: _____	In words: _____ In figures: _____
1027 (1)	Cement Plaster Finish	sq.m.	178.60	In words: _____ In figures: _____	In words: _____ In figures: _____
1032 (1)a	Painting Works, Masonry/Concrete	sq.m.	2,218.60	In words: _____ In figures: _____	In words: _____ In figures: _____

Submitted by: _____

Date : _____

Name of the Representative of the Bidder _____

Position _____

Name of Bidder _____

Contract Name : IMPROVEMENT OF GOVERNOR DOUGLAS RA. CAGAS SPORTS COMPLEX AND BUSINESS CENTER SITE DEVELOPMENT (PHASE I)

Location of the Contract : MATTI, DIGOS CITY, DAVAO DEL SUR

Project Duration : 240 Calendar Days

BILL OF QUANTITIES

Part No. _____

Pay Item No. 1	Description 2	Unit 3	Quantity 4	Unit Price (Pesos) 5	Amount (Pesos) 6
1046	150mm CHB Non-Load Bearing/Load Bearing (Inc. Reinforcing Steel)	sq.m.	150.40	In words: _____ In figures: _____	In words: _____ In figures: _____
1047 (1)	Structural Steel	L.S.	1.00	In words: _____ In figures: _____	In words: _____ In figures: _____

Submitted by: _____

Date : _____

Name of the Representative of the Bidder _____

Position _____

Name of Bidder _____

SECTION IX.

CHECKLIST OF TECHNICAL AND FINANCIAL DOCUMENTS

H.



PROCUREMENT MANAGEMENT OFFICE BIDS AND AWARDS COMMITTEE

Mobile Nos: 0905-229-0526/0908-332-2024 (Goods), 0948-768-5848 (Infra)

Telefax: (082) 553-9579

Website: www.davaodelsur.gov.ph/pgo-bac

Email Add.: bac.davaodelsur2@gmail.com/spbacdavaodelsur@gmail.com



CHECKLIST-CIVIL

IB No:

Opening of Bids:

Name of Project/Brief Description of Goods:			
PR:	Dated:	ABC	End User:
Name of Contractor/Supplier:			
Address:			
Contact Number:			
ENVELOPE 1- ELIGIBILITY DOCUMENTS/TECHNICAL			
1. Class "A" Documents			
Legal Documents			
a. Valid PhilGEPs Registration Certificate (Platinum Membership) with its corresponding Annex A.			
Technical Documents			
b. Statement of the prospective bidder of all its on-going government and private contracts, including contracts awarded but not yet started (7 calendar days before the bid opening), if any, whether similar or not similar in nature and complexity to the contract to be bid with supporting documents such as Notice of Award and/or Contract, Notice to Proceed, and Certificate of Accomplishment or Statement of Time Elapsed and Work Accomplished.			
c. Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid for the last (3) years, and whose value, adjusted to current prices using the PSA consumer price indices, must be at least fifty percent (50%) of the ABC to be bid: Provided, however, that contractors under Small A and Small B categories without similar experience on the contract to be bid may be allowed to bid if the cost of such contract is not more than the Allowable Range of Contract Cost (ARCC) of their registration based on the guidelines as prescribed by the PCAB. This Statement must be supported with the following: Contract/ Purchase Order, Certificate of Completion/ Acceptance or Inspection Report or Official Receipt, Validated Contractors/Constructors Performance Evaluation System (CPES) in DPWH website.			
d. Valid Philippine Contractors Accreditation Board (PCAB) License or Special PCAB License in case of Joint Ventures, and Registration for the type and cost of the contract to be bid.			
Financial Documents			
e. The prospective bidder's computation of Net Financial Contracting Capacity (NFC). However, in the case of procurement of Goods, a bidder may submit a committed Line of Credit from a Universal or Commercial Bank, in lieu of its NFC computation. (Note: K=15)			
2 Class "B" Documents			
a. For Infrastructure Projects, Joint Venture bidders shall submit a Joint Venture Agreement in accordance with R.A. 4566 and its IRR. Each partner of the joint venture shall submit their respective PhilGEPs Certificates of Registration in accordance with Section 8.5.2 of this IRR. The submission of technical and financial eligibility documents by any of the joint venture partners constitutes compliance: Provided, that the partner responsible to submit the NFC shall likewise submit the Statement of all of its ongoing contracts and Audited Statements.			
TECHNICAL PROPOSAL			
1. Original copy of Bid Security in the form of the following: <ul style="list-style-type: none"> <input type="checkbox"/> Cash or Cashier's/ Manager's check (2%) <input type="checkbox"/> Bank Guarantee/ Draft or Irrevocable Letter of Credit (2%) <input type="checkbox"/> Surety Bond callable upon demand (5%) <input type="checkbox"/> Bid Securing Declaration (in the prescribed form) 			
2. Project Requirements, which shall include the following: <ul style="list-style-type: none"> a. Organizational chart for the contract to be bid 			

	<p>b. List of contractor's personnel (viz., Project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, with their complete qualifications and experience data;</p>
	<p>c. List of contractor's equipment units, which are owned, leased, and/or under purchase agreements, supported by certification of availability of equipment from the equipment lessor/vendor for the duration of the project;</p>
	<p>3. Original Duly Signed Omnibus Sworn Statement (OSS) by the prospective bidder or its duly authorized representative; and if applicable, Original Notarized Secretary's Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the bidder.</p>
	<p>4. Other documents/materials to comply with other non-discretionary criteria and requirements as stated in the Instruction to Bidders:</p> <ul style="list-style-type: none"> • Construction Methods • Construction schedule and S-Curve • Pert-CPM • Manpower Utilization Schedule • Equipment Utilization Schedule • Construction Safety & Health Program • Duly Notarized Affidavit of Site Inspection • Duly Notarized Certification as to Compliance to Labor Laws and Standard
	<p>QUALIFIED</p>
	<p>DISQUALIFIED</p>
<p>ENVELOPE 2- FINANCIAL PROPOSAL</p>	
	<p>1. Duly Signed Financial Bid Form</p>
	<p>2. Duly Signed Bid Prices in the Bill of Quantities</p>
	<p>3. Duly Signed Detailed Estimates</p>
	<p>4. Duly Signed Cash Flow by Quarter and Payment Schedules</p>

SECTION X.

OTHER DOCUMENTS

- 1) Purchase Request
- 2) Statement of all On-going Government & Private Contracts including Contracts awarded but not yet started (Prescribed Form)
- 3) Statement of Single Largest Completed Contract (Prescribed Form)
- 4) Bid Securing Declaration (Prescribed Form)
- 5) Omnibus Sworn Statement (Prescribed Form)
- 6) Bid Form (Prescribed Form)
- 7) Resolution No. 1333 Series of 2023 / Three-Strike Policy
- 8) Resolution No. 052 Series of 2022
- 9) Resolution No. 053 Series of 2022
- 10) TWG – Checklist for Bid Evaluation
- 11) TWG – Checklist for Post Qualification

H

PURCHASE REQUEST
PROVINCE OF DAVAO DEL SUR
MATTI, DIGOS CITY

Department : PROVINCIAL ENGINEER'S OFFICE
 Section : Construction

PR NO. : 011-24-3 Date : 02/07/24
 SAI NO. : _____ Date : _____

STOCK No.	UNIT OF ISSUE	ITEM DESCRIPTION	QTY	UNIT COST	TOTAL COST
1	Job Order	IMPROVEMENT OF GOVERNOR DOUGLAS RA. CAGAS SPORTS COMPLEX AND BUSINESS CENTER SITE DEVELOPMENT (PHASE I) located at MATTI, DIGOS CITY, DAVAO DEL SUR all in accordance, to plans, specifications and scope of work and the Green Procurement Policy as adopted by Executive Order No. 30 series of 2019. XXXXXXXXXXXXXXXX TOTAL	1		P 220,000,000.00
<p align="center">CHARGE TO: Improvement of Governor Douglas Ra. Cagas Sports Complex and Business Center Site Development (Phase I) Matti, Digos City, Davao del Sur LOAN PROCEEDS</p>					
<p>Purpose/Remarks For use in the IMPROVEMENT OF GOVERNOR DOUGLAS RA. CAGAS SPORTS COMPLEX AND BUSINESS CENTER SITE DEVELOPMENT (PHASE I) located at MATTI, DIGOS CITY, HAGONOVY, DAVAO DEL SUR</p>					
Signature : _____		CASH AVAILABILITY	APPROVED : _____		
Printed Name : LEONERL MARCH P. SUARIO Provincial Engineer		FARAH GEMMA V. BIDAN, CPA Provincial Treasurer	YVONNE RONALD CAGAS Governor		
Date : _____		February 23, 2024	2024	FEB 23	

TECHNICAL WORKING GROUP
 TECHNICAL SPECS CONTROLLED
 BY: _____
 DATE: 02/07/24

FEB 23 2024
 RECEIVED
 OFFICE OF THE PROVINCIAL ENGINEER
 MATTI, DIGOS CITY

Statement of Single Largest Completed Contract (SLCC)
 (Similar in Nature for the Last 3 years)

Name of Project/Contract: _____

IB No. _____

Location: _____

Name of Contract / Location Project Cost	a) Owner's Name b) Address c) Telephone No.	Nature of Work	Bidder's Role		a) Amount at Award b) Amount at Completion c) Duration	a) Date Awarded b) Date Started c) Date of Completion
			Description	%		

Note: This statement shall be supported with:

1. Contract/Purchase Order
2. Certificate of Completion/Acceptance or Inspection and Acceptance Report or Official Receipts

Submitted by: _____

(Printed Name & Signature)

Designation: _____

Date: _____

Bid Securing Declaration Form
[shall be submitted with the Bid if bidder opts to provide this form of bid security]

REPUBLIC OF THE PHILIPPINES)
CITY OF _____) S.S.

BID SECURING DECLARATION
Project Identification No.: [Insert number]

To: *[Insert name and address of the Procuring Entity]*

I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid Securing Declaration.
2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of the written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1(f), of the IRR of RA No. 9184; without prejudice to other legal action the government may undertake.
3. I/We understand that this Bid Securing Declaration shall cease to be valid on the following circumstances:
 - a. Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
 - b. I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I/we failed to timely file a request for reconsideration or (ii) I/we filed a waiver to avail of said right; and
 - c. I am/we are declared the bidder with the Lowest Calculated Responsive Bid, and I/we have furnished the performance security and signed the Contract.

IN WITNESS WHEREOF, I/We have hereunto set my/our hand/s this ____ day of [month]
[year] at *[place of execution]*.

*[Insert NAME OF BIDDER OR ITS AUTHORIZED
REPRESENTATIVE]*
[Insert signatory's legal capacity]
Affiant

[Jurati]

[Format shall be based on the latest Rules on Notarial Practice]

Omnibus Sworn Statement (Revised)

[shall be submitted with the Bid]

REPUBLIC OF THE PHILIPPINES)
CITY/MUNICIPALITY OF _____) S.S.

AFFIDAVIT

1. [Name of Affiant], of legal age, [Civil Status], [Nationality], and residing at [Address of Affiant], after having been duly sworn in accordance with law, do hereby depose and state that:

1. *[Select one, delete the other:]*

[If a sole proprietorship:] I am the sole proprietor or authorized representative of [Name of Bidder] with office address at [address of Bidder];

[If a partnership, corporation, cooperative, or joint venture:] I am the duly authorized and designated representative of [Name of Bidder] with office address at [address of Bidder];

2. *[Select one, delete the other:]*

[If a sole proprietorship:] As the owner and sole proprietor, or authorized representative of [Name of Bidder], I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached duly notarized Special Power of Attorney;

[If a partnership, corporation, cooperative, or joint venture:] I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached [state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable:)];

3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;

4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;

5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. *[Select one, delete the rest:]*

[If a sole proprietorship:] The owner or sole proprietor is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical

Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

[If a partnership or cooperative:] None of the officers and members of *[Name of Bidder]* is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

[If a corporation or joint venture:] None of the officers, directors, and controlling stockholders of *[Name of Bidder]* is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

7. *[Name of Bidder]* complies with existing labor laws and standards; and

8. *[Name of Bidder]* is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:

- a. Carefully examining all of the Bidding Documents;
- b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
- c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and
- d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the *[Name of the Project]*.

9. *[Name of Bidder]* did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.

10. In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.

IN WITNESS WHEREOF, I have hereunto set my hand this ___ day of ___, 20__ at _____, Philippines.

[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]

[Insert signatory's legal capacity]
Affiant

[Jurati]

[Format shall be based on the latest Rules on Notarial Practice]

Bid Form for the Procurement of Infrastructure Projects
[shall be submitted with the Bid]

BID FORM

Project Identification No. : _____ Date : _____

To: *[name and address of Procuring Entity]*

Having examined the Philippine Bidding Documents (PBDs) including the Supplemental or Bid Bulletin Numbers *[insert numbers]*, the receipt of which is hereby duly acknowledged, we, the undersigned, declare that:

- a. We have no reservation to the PBDs, including the Supplemental or Bid Bulletins, for the Procurement Project: *[insert name of contract]*;
- b. We offer to execute the Works for this Contract in accordance with the PBDs;
- c. The total price of our Bid in words and figures, excluding any discounts offered below is: *[insert information]*;
- d. The discounts offered and the methodology for their application are: *[insert information]*;
- e. The total bid price includes the cost of all taxes, such as, but not limited to: *[specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties]*, which are itemized herein and reflected in the detailed estimates;
- f. Our Bid shall be valid within the a period stated in the PBDs, and it shall remain binding upon us at any time before the expiration of that period;
- g. If our Bid is accepted, we commit to obtain a Performance Security in the amount of *[insert percentage amount]* percent of the Contract Price for the due performance of the Contract, or a Performance Securing Declaration in lieu of the allowable forms of Performance Security, subject to the terms and conditions of issued GPPB guidelines¹ for this purpose;
- h. We are not participating, as Bidders, in more than one Bid in this bidding process, other than alternative offers in accordance with the Bidding Documents;
- i. We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed; and
- j. We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.
- k. We likewise certify/confirm that the undersigned, is the duly authorized

¹ currently based on GPPB Resolution No. 09-2020

representative of the bidder, and granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for the [Name of Project] of the [Name of the Procuring Entity].

1. We acknowledge that failure to sign each and every page of this Bid Form, including the Bill of Quantities, shall be a ground for the rejection of our bid.

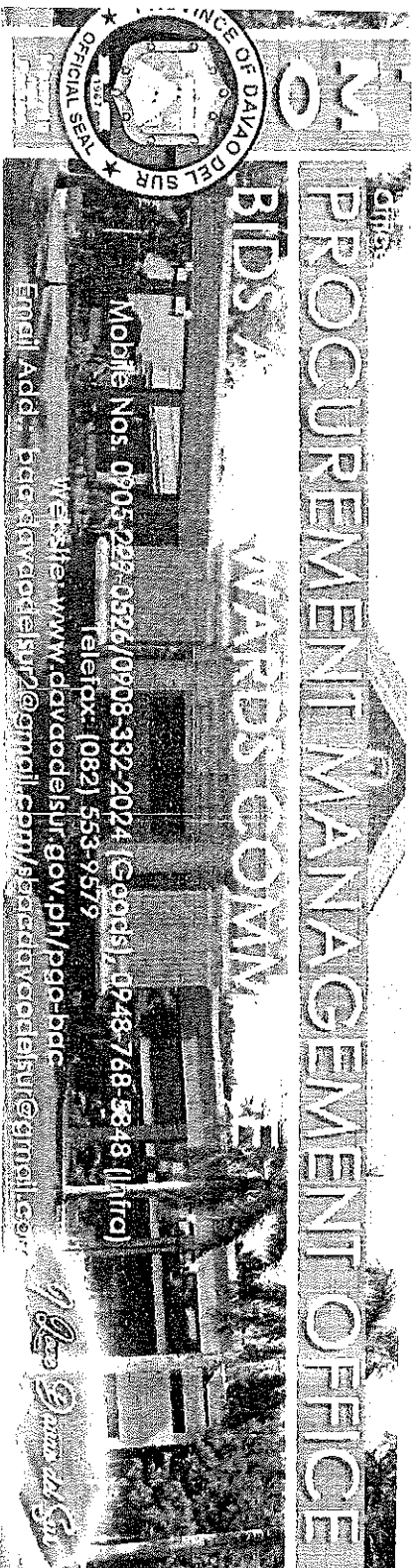
Name: _____

Legal Capacity: _____

Signature: _____

Duly authorized to sign the Bid for and behalf of: _____

Date: _____



Resolution No.1333
Series of 2023

A RESOLUTION

RECOMMENDING TO THE HEAD OF THE PROCURING ENTITY, GOVERNOR YVONNE ROÑA CAGAS TO FURTHER AMEND THE 3-STRIKE POLICY IN THE PROCUREMENT OF CONTRACTS FOR GOODS AND SERVICES, AND INFRASTRUCTURE PROJECTS OF THE PROVINCIAL GOVERNMENT OF DAVAO DEL SUR.

WHEREAS, the Provincial Government of Davao del Sur encounters several failures of biddings due to constant errors committed by the participating Bidders in the submission of their bidding documents despite of the orientation during Pre-Bid Conference and the Instruction to Bidders;

WHEREAS, to further strengthen the integrity of the competitive bidding process, the Bids and Awards Committee unanimously agreed that the following instructions are hereby issued pertaining to the implementation of the 3-Strike Policy of the Provincial Government of Davao del Sur against violations of Section 69 of the IRR of RA 9184;

1. The provision of Section 69.1 of the said IRR, pertaining to the 3-Strike Policy of the Provincial Government of Davao del Sur, is hereby reiterated as follows:

"In addition to the provisions of Rules XXI and XXII of this IRR, the Head of the Procuring Entity, subject to the authority delegated to the BAC, if any, shall impose on bidders or prospective bidders, the administrative penalty of suspension for one (1) year for the first offense, and suspension of two (2) years for the second offense from participating in the competitive bidding process, as well as disqualification from further participating in the competitive bidding being undertaken by the Procuring Entity concerned, where applicable, for the following violations: 69.1.i All other acts that tend to defeat the purpose of the competitive bidding, such as habitually withdrawing from bidding, submitting late Bids or patently insufficient bid, for at least three (3) times within a year, except for valid reasons."

2. The violations enumerated, which are considered as acts that tend to defeat the purpose of competitive bidding, are hereby clarified to read as follows:
 - a) Non-submission of post-qualification and other requirements within the prescribed period as specified in the notice issued by the BAC;
 - b) All other acts that tend to defeat the purpose of competitive bidding, such as:
 - 1.) Withdrawing from bidding or Non-dropping of Bid Documents,
 - 2.) Submitting late Bids;
 - 3.) Submitting of patently insufficient bid. Patently insufficient bid is clarified as the "total absence" of the required document.

4.) Refusal to receive/acknowledge notice/s issued by the Head of the Procuring Entity and/or Bids and Awards Committee

BAC RES. NO. 1333, S.2023

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x-x-x-x-x-x-x-x-x-x-x-x-x

c) Habitually committing offenses that are not grounds for disqualification such as improper sealing, non-tabbing, and the like.

3. Every time a bidder is observed to have done committed any of the acts enumerated under Item 2 of this Resolution, the Chairperson of the BAC shall immediately issue a Show Cause Order to the erring bidder informing of his act, and giving him three (3) calendar days to show cause why he should not be sanctioned for committing an act which tends to defeat the purpose of public bidding under the 3-Strike Policy of the Provincial Government of Davao del Sur;
4. Based on the evaluation by the BAC of the bidder's response to the Show Cause Order mentioned in Item No. 3 of this Resolution, the BAC shall, within five (5) calendar days from the receipt of the bidder's response determine whether the bidder's act was done with or without a valid cause;
5. The BAC Secretariat shall submit to the BAC a 3-Strike Policy Report, which shall contain the information in Item 3 and 9 of this Resolution.
6. The BAC through its Secretariat shall monitor the participation of bidders in all of its projects/participations, and maintain a tally of violations by each bidder of the 3-Strike Policy in its jurisdiction as well as of the violations by the bidder of the said policy in other offices of the Provincial Government of Davao del Sur;
7. All other petty defects found in the bid documents of the bidder which will not in any manner defeat the purpose of Competitive Bidding shall not be a ground for the imposition of a strike, subject to the discretion of the BAC
8. For the procurement of Infrastructure Projects, this Policy is applicable to all methods of procurement, be it Competitive Bidding or alternative methods of procurement. For the procurement of Goods and Consulting Services, this Policy is applicable to Competitive Bidding only
9. For the sanctions to be imposed:
 - **ONE (1) STRIKE** will be imposed for various IB Nos. participated by the bidder with the same nature of violation opened on the same date, or was disqualified during post-qualification stage with the same case of the latter;
 - **MULTIPLE STRIKES** for different discrepancies/offenses under different IB Nos. opened on the same date, or was disqualified during post-qualification stage with the same case of the latter;
 - For Item 2.c: Three habitual offenses are equivalent to one (1) strike
10. Each "offense" by a bidder referred to in Section 69.1.i. of the IRR, as stated in this Resolution, consists of three violations or strikes within a period of one **calendar year** for all the procurements of all offices of the Provincial Government of Davao del Sur. A Fresh Period of one (1) year in counting of "strikes" shall be observed in the succeeding year;

1 ADWEDAVAO DEL SUR

11. Based on the 3-Strike reports, the Bids and Awards Committee, shall recommend to the Head of the Procuring Entity, for approval, the following administrative sanctions on the erring Contractor/Supplier for the violation of the 3-Strike Policy:

- a. For the first violation or strike – a first warning.
- b. For the second strike – a second warning.
- c. For the third strike, which together with the first two strikes constitutes the first offense against the 3-Strike Policy – an administrative penalty of suspension for one (1) year from participating in any procurement process in the Provincial Government of Davao del Sur.
- d. For the second offense – the second set of three strikes committed by the bidder – an administrative suspension for two (2) years from participating in any procurement process in the Provincial Government of Davao del Sur.

WHEREFORE, on motion of BAC Member, Raul R. Fueconcillo, Lagri.MagDev. duly seconded by all BAC Members present it was –

RESOLVED, as it is hereby **RESOLVED**, to recommend to the Head of the Procuring Entity, GOVERNOR WYONNE ROÑA CAGAS to **FURTHER AMEND THE 3-STRIKE POLICY IN THE PROCUREMENT OF CONTRACTS FOR GOODS AND SERVICES, AND INFRASTRUCTURE PROJECTS OF THE PROVINCIAL GOVERNMENT OF DAVAO DEL SUR.**

RESOLVED FINALLY, to furnish copies of this Resolution to all agencies concerned, Suppliers, and Concerned End Users, for their information and guidance.

UNANIMOUSLY APPROVED at the Ralota Hall, Governor Douglas RalotaCagas Sports and Business Complex, Barangay Matti, Digos City, Province of Davao del Sur, this 31st day of August, 2023.

1 2023 DAVAO DEL SUR

I hereby concur to the correctness of the minutes:

ENGR. SHEILA MAE A. ZAPANTA, MPA
Administrative Officer IV, PMO
Head, BAC Secretariat for Infrastructure Projects

NORJANNA M. CAMAGUIN, MPA
Chief Administrative Officer, PMO
Head, BAC Secretariat for Goods and Consulting Services

ENGR. RODERICK MILANA, REA
Provincial Assessor / BAC Member

ALLAN C. PUTONG, JD
PGDH-PGSO / BAC Member

ENGR. ANGELIE R. GELLA
APGDH-PEO / BAC Member

DOMINIC BUCOL, JD
PGDH-PCSMO / BAC Member

RAUL R. FUECONCILLO, LAgri.MAg.Dev.
Provincial Agriculturist / BAC Member

RAUL D. RAUT, ENP, JD
PGDH-PHRMO / BAC Vice-Chairperson

DESSAMIE BUAT-SANCHEZ, CPA, JD
PGDH-PBO / BAC Chairperson
Presiding Officer

Approved by:

YVONNE ROÑA CAGAS
Governor
Head of Procuring Entity

I LOVE DAVAO DEL SUR



REPUBLIC OF THE PHILIPPINES
PROVINCE OF DAVAO DEL SUR

Barangay Mati, Digos City, Davao del Sur

Mobile Number: 0917-539-5179; Fax: 083-225-2024; 083-225-2025

Telephone: (083) 225-5179; Website: www.davaodelsur.gov.ph

Email Address: hr@davaodelsur.gov.ph; procurement@davaodelsur.gov.ph

OFFICE OF THE GOVERNOR

BIDS AND AWARDS COMMITTEE (BAC)

Resolution No. 052

Series of 2022

**A RESOLUTION
RECOMMENDING TO THE HEAD OF THE PROCURING ENTITY, GOVERNOR
YVONNE RONA CAGAS TO ADOPT THE SUSPENSION OF PARTICIPATING
BIDDERS WHO WILL INCUR ANY OF THE VIOLATIONS STIPULATED IN SECTION
41 OF THE 2016 REVISED IMPLEMENTING RULES AND REGULATIONS OF
REPUBLIC ACT NO. 9184, OTHERWISE KNOWN AS THE GOVERNMENT
PROCUREMENT REFORM ACT.**

WHEREAS, the Provincial Government of Davao del Sur encounters failures of biddings due to constant violations committed by the participating Bidders in the submission of their bidding documents despite of the orientation during Pre-bid Conference and the Instruction to Bidders;

WHEREAS, to further strengthen the integrity of the competitive bidding process, the Bids and Awards Committee together with the Members of the Technical Working Group unanimously agreed that the following instructions are hereby issued pertaining to the implementation of the Suspension of the Participating Bidders against violations of Section 41 of the Revised IRR of RA 9184:

1. The provision of Section 41 the Revised IRR of RA 9184 is hereby reiterated as follows:
 - a. *If there is prima facie evidence of collusion between appropriate public officers or employees of the Procuring Entity, or between the BAC and any of the bidders, or if the collusion is between or among the bidders themselves, or between a bidder and a third party, including any act which restricts, suppresses or nullifies or tends to restrict, suppress or nullify competition;*
 - b. *If the BAC is found to have failed in following the prescribed bidding procedures; or*
 - c. *For any justifiable and reasonable ground where the award of the contract will not redound to the benefit of the government as defined in the IRR."*
2. The violations enumerated, which are considered as acts that tend to defeat the purpose of competitive bidding, are hereby clarified to read as follows:
 - 2.a. *If there is prima facie evidence of collusion between appropriate public officers or employees of the Procuring Entity*
 - 2.b. *If there is prima facie evidence of collusion between the BAC and any of the bidders;*

H

W



PROVINCE OF DAVAO DEL SUR

Barangay Matti, Digos City, Davao del Sur

Mobile No. (082) 35 5252; 0960-3354/3355; 2024/5945-786-5545

Telefax: (082) 35 5252; 0960-3354/3355; 2024/5945-786-5545

E-mail: bidders@bids.gov.ph; govhelp@bids.gov.ph

OFFICE OF THE GOVERNOR

PROVINCE OF DAVAO DEL SUR

BAC Resolution No. 052 s. 2022

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x-x-x-x-x-x-x-x-x-x-x-x-x-x-x

2.c If there is *prima facie* evidence of collusion between or among the bidders themselves, or between a bidder and a third party, including any act which restricts, suppresses or nullifies or tends to restrict, suppress or nullify competition;

3. The BAC through its Secretariat shall monitor the participation of bidders in all of its projects and maintain a tally of violations by each bidder in its jurisdiction as well as of the violations by the bidder of the said policy in other offices of the Provincial Government of Davao del Sur.

4. The Bids and Awards Committee, shall recommend to the Head of the Procuring Entity, for approval, the administrative sanction on the erring participating bidder/contractor for the violation Section 41 of RA 9184:
- a. For the first violation – an administrative penalty of suspension for three (3) months from participating in any procurement process in the Provincial Government of Davao del Sur.
 - b. For the second violation – an administrative penalty of suspension for one (1) year from participating in any procurement process in the Provincial Government of Davao del Sur.
 - c. For the third offense- perpetual disqualification from participating in any procurement process in the Provincial Government of Davao del Sur.

WHEREFORE, on motion of BAC Member Miliana, duly seconded by BAC Member Putong, it was –

RESOLVED, as it is hereby *RESOLVED*, to recommend to the Head of the Procuring Entity, GOVERNOR YVONNE ROÑA CAGAS to ADOPT THE *SUSPENSION OF PARTICIPATING BIDDERS WHO WILL INCUR ANY OF THE VIOLATIONS STIPULATED IN SECTION 41 OF THE 2016 REVISED IMPLEMENTING RULES AND REGULATIONS OF REPUBLIC ACT NO. 9184, OTHERWISE KNOWN AS THE GOVERNMENT PROCUREMENT REFORM ACT.*

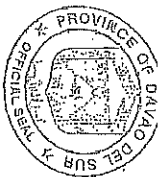
RESOLVED FINALLY, to furnish copies of this Resolution to all agencies concerned for their information and guidance.

UNANIMOUSLY APPROVED at the Almedras Hall, Governor Douglas Ralota Cagas Sports and Business Complex, Barangay Matti, Digos City, Province of Davao del Sur, this 14th day of July, 2022.

I hereby certify the correctness of above-mentioned resolution.

ENGR. SHEILA MAE ZAPANTA, MPA
Agricultural Technologist
Head, BAC Secretariat (Infrastructure Projects)

NORJANNIA M. QAMAQUIN, MPA
LTOO IK
Head, BAC Secretariat (Goods and Consulting Services)



PROVINCE OF DAVAO DEL SUR
Barangay Mati, Digos City, Davao del Sur

Mobile Nos: 0907-299-0526/(052) 822-2024/(052) 762-5842

Telefax: (082) 557-9579/Website: www.davaodelsur.gov.ph

E-mail Add: bac.davao@psd.davaodelsur.gov.ph, shac.davao@psd.davaodelsur.gov.ph, dms.davao@psd.davaodelsur.gov.ph

OFFICE OF THE DEPUTY PROVINCIAL BAC CHAIRPERSON

PROCESSED BY: [Signature] DATE: [Blank]

BAC Resolution No. 052 s. 2022

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X-X-X-X-X-X-X-X-X-X-X-X-X-X-X-X

Attested by:

[Signature]
DOMINIC S. BUCCOL JD
PGDH-Provincial Warden Office
BAC Member

(on leave)
RAUL R. FUECONCILLO, MagDev
PGDH-OPAG
BAC Member

[Signature]
Engr. ANGELIE R. GELLA
APGDH-PEO
BAC Member

[Signature]
Engr. RODERICK R. MILLANA, REA
PGDH-PASSO
BAC Member

[Signature]
ALLAN D. PUTONG
PGDH-PGSD
BAC Member

[Signature]
RAUL B. RAUT, Enp, JD
PGDH-HRIMO
BAC Vice Chairpersn

[Signature]
DESSAMIE BUAT-SANCHEZ, CPA, JD
Provincial Budget Officer
BAC Chairperson – Presiding Officer

Approved by:

[Signature]
YVONNE RONA CAGAS
Governor
Head of Procuring Entity



PROVINCE OF DAVAO DEL SUR
Barangay Mati, Digos City, Davao del Sur

Makaha (M.C.) Office
 (Makaha (M.C.) Office)
 1st Floor, Davao Development Office Building
 Digos City, Davao del Sur
 Tel. No. (082) 222-1111
 Fax. No. (082) 222-1111
 Email: bac.davao@psa.gov.ph

Resolution No. 053
Series of 2022

A RESOLUTION
RECOMMENDING TO THE HEAD OF THE PROCURING ENTITY, GOVERNOR YVONNE RONA CAGAS, TO DECLARE BIDDERS WHO FAILED TO DISCLOSE ALL ON-GOING PROJECTS AS DISQUALIFIED, AFTER FINDING SUCH NON-INCLUSION DURING POST-QUALIFICATION OF BIDDERS BY THE BAC TECHNICAL WORKING GROUP (TWG).

Be it enacted by the BAC MEMBERS in meeting assembled:

WHEREAS, in line with the Provincial Government of Davao del Sur's initiative to fast-track the procurement transactions of the Province, the Special Bids and Awards Committee thereby adopts this Resolution to produce Contractors with integrity and truthfulness in their submitted bid;

WHEREAS, item number 2 of GPPB NPM 111-2013 states that, "*Failure to include all on-going and completed contracts in the Statement may be a ground for disqualification for being incomplete, and may also result in blacklisting if proven that such failure amounts to submission of false information or false documents. The submission of the eligibility documents enumerated in Section 23.1 of the IRR is a mandatory requirement that must be complied with by prospective bidders, such that failure to submit any of the documents or the submission of an otherwise incomplete or patently insufficient document, will disqualify the bidder based on the non-discretionary "pass/fail" criterion under Section 30.1 of the IRR.*"

IN ADDITION, GPPB NPM 006-2018 states that, "*Failure to declare an on-going government and private contract, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid is a ground for disqualification. These contracts, as reflected in the "Statement of all on-going contracts", are vital to the computation of the Net Financial Contracting Capacity of the bidder, and they are necessary information during the post-qualification stage to verify, validate and ascertain the technical qualification of the Lowest Calculated Bidder for the ultimate determination whether it is the Lowest Calculated and Responsive Bidder.*"


WHEREFORE, after thorough deliberation, BAC Member Milana duly seconded by BAC Member Putong, it was-


RESOLVED, as it is hereby **RESOLVED**, to recommend to the **HEAD OF PROCURING ENTITY, GOVERNOR YVONNE RONA CAGAS, TO DECLARE BIDDERS WHO FAILED TO DISCLOSE ALL ON-GOING PROJECTS AS DISQUALIFIED AFTER FINDING SUCH NON-INCLUSION DURING POST-QUALIFICATION OF BIDDERS BY THE BAC TECHNICAL WORKING GROUP (TWG);**

RESOLVED FINALLY, to furnish copies of this Resolution to all agencies concerned for their information and guidance.

UNANIMOUSLY APPROVED at the Almendras Hall, Governor Douglas Ralota Cagas Sports and Business Complex, Barangay Mati, Digos City, Province of Davao del Sur, this 14th day of July, 2022.

I hereby certify to the correctness of above-mentioned resolution


Engr. SHEILA MAE ZAPANTA, MPA
 Agricultural Technologist
 Head, BAC Secretariat (Infrastructure Projects)


NORJANNA M. CAMAGUIN, MPA
 LTOO IV
 Head, BAC Secretariat (Goods and Consulting Services)


Attested by:

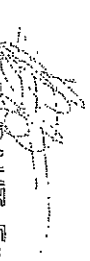

DOMINICK S. BUCCOL, JD
PGDH-Provincial Warden Office
BAC Member


(on leave)
RAUL R. FUECONCILLLO, MagDDev
PGDH-Office of the Provincial Agriculturist
BAC Member


Engr. ANGELLE R. GELLA
APGDH-PEO
BAC Member


Engr. ROBERTICK R. MILANA, REA
PGDH-PASSO
BAC Member


ALLAN C. PUTONG, JD
PGDH-PGSO
BAC Member


RAUL D. RAUT, ENP, JD
PGDH-HRMO
BAC Vice Chairperson


DESSAMIE BUAT-SANCHEZ, CPA, JD
PGDH - PBO
BAC Chairperson – Presiding Officer

Approved by:


YOLANDE RONA CAGAS
Governor
Head of Procuring Entity

PROCURMENT MANAGEMENT OFFICE
WARDSONOMY

BIDS /

Mobile Nos. 0906-222-0526 / 0908-332-2024 (Globe), 0948-768-5848 (Ultra)

Website: www.davaodelsur.gov.ph/pgc-bac

Telephone: (082) 553-9579

Email: Adm. @davaodelsur@gmail.com, Proc. @davaodelsur@gmail.com, Bids @davaodelsur@gmail.com



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TWG – CHECKLIST FOR BID EVALUATION

IB No. _____		
Name of Project: _____		
Contractor: _____		
ITEMS:		
1. Bid Amount (both in words and in figure) must be below ABC.	FINDINGS	REMARKS
2. Bill of Quantities submitted by the contractor must conform with the Bill of Quantities issued by the End-User.		
3. Detailed Estimates		
A. Check mathematical computation in the Detailed Estimates		
B. The amount in the Detailed Estimates must be reconciled with the amount in the summary of bid and the quantities in the BOQ.		
C. Allowance for waste and/or losses, not to exceed 5% of materials equipment.		
D. Mobilization and demobilization shall not exceed 1% of the Estimated Direct Cost (EDC) of the civil works items.		
E. Overhead expenses must be within the range of %-11% of the EDC.		
F. Contingencies must be within the range of 0.5%-3% of the EDC.		
G. Miscellaneous expenses must be within the range of 0.5%-1% of the EDC.		
H. Contractor's Profit Margin shall be 8% of the EDC for projects above 5 million and 10% for the projects 5 million and below.		
I. VAT Component shall be 5% of the sum of the EDC, OCM, and Profit.		
J. The following non-civil work items shall not be subjected to OCM mark-up:		
1. Field/ Laboratory Office & Living Quarters (Rental Basis)		
2. Furnishing of Furniture, Laboratory Equipment, Survey Equipment and Consumables		
3. Assistance to the Engineers		
4. Photographs		
5. Health and Safety		
2. Traffic Management		
3. Environmental Compliance		
4. Communication Equipment		
5. Project Billboard, etc.		



PROCUREMENT MANAGEMENT OFFICE WARDS COMMUNITY CENTER

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Website - www.davaodelsur.gov.ph/pgoboc
Email/Addr. - bsc.davaodelsur2@gmail.com/bid.davaodelsur@gmail.com

K. The following items shall not be subjected to OCM and Profit mark-up:			
A.	<i>Mobilization and demobilization</i>		
B.	Provision of Service Vehicle		
C.	<i>Permits and Clearances</i>		
4. Bid Security			
A.	Cash or Cashier's/ Manager's check (2%)		
B.	Bank Guarantee/ Draft or Irrevocable Letter of Credit (2%)		
C.	Surety Bond callable upon demand (5%)		
D.	<i>Bid Securing Declaration (must be in prescribed form, 15 days)</i>		
E.	Cash Flow by quarter and payment schedule (check mathematical computation against the bid amount)		



PROCUREMENT MANAGEMENT OFFICE

BIDS AWARDS COMMITTEE

Mobile Nos: 0905-229-0924 / 0908-332-2024 (Cgads), 6948-768-5848 (Afr)
 Website: www.davaodelsur.gov.ph/pgo-bac
 Telefax: (082) 566-9579
 Email Address: bac.davaodelsur@gmail.com, dac.davaodelsur@gmail.com

TWG – CHECKLIST FOR POST QUALIFICATION

IB. No.	FINDINGS	REMARKS
Name of Project:		
Contractor:		
TECHNICAL DOCUMENTS:		
1. Not a Blacklisted Contractor per GPPB Website		
2. Registration certificate from SEC, Department of Trade and Industry (DTI) for sole proprietorship, or CDA for cooperatives must be valid (Company Name and Validity)		
3. Mayor's/ Business permit must be valid (Company Name and Validity)		
4. Tax Clearance must be valid (Company Name and Validity)		
5. PhilGEPS Registration (Platinum Membership) must be valid (Company Name and Validity)		
6. Valid Philippine Contractors Accreditation Board or Special PCAB License in case of Joint Ventures (PCAB)		
7. Statement of all on-going government and private contracts including awarded but not yet started <ul style="list-style-type: none"> A. Complete attachments <ul style="list-style-type: none"> I. Notice of Award II. Contract III. Notice to Proceed IV. Contract Extension, if any; V. Statement of Work Accomplishment duly signed by the Procuring Entity B. Evaluate the projects, if any; <ul style="list-style-type: none"> i. Verify Target Date of Completion ii. Must not incur Negative Slippage of more than fifteen percent (15%) in any one project or a negative slippage of more than ten percent (10%) in each two (2) or more contracts. C. Verification of on-going projects via DPWH portal 		
8. Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid for the last (3) years, and whose value, adjusted to current prices using the PSA consumer price indices, must be at least fifty percent (50%) of the ABC to be bid; Provided, however, that contractors under Small A and Small B categories without similar experience on the contract to be bid may be allowed to bid if the cost of such contract is not more than the Allowable Range of Contract Cost (ARCC) of their registration based on the guidelines as prescribed by the PCAB. Must be supported with the following: <ul style="list-style-type: none"> A. Contract / Purchase Order B. Certificate of Completion / Acceptance or Inspection Report or Official Receipt C. Validate Contractors/Constructors Performance Evaluation System (CPES) in DPWH website. 		



PROCUREMENT MANAGEMENT OFFICE
BIDS AND AWARDS COMMITTEE

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9. Omnibus Sworn Statement must be in prescribed form (1 to 9) and duly notarized		
10. Net Financial Contracting Capacity (NFCC) must be reconciled with the Audited Financial Statements		
11. Income Tax Return as of 2020		
12. Business Tax Return Quarterly or Monthly as of 2021		
13. Construction Methods must conform with the approved plan		
14. Construction schedule and S-Curve must conform with the prescribed contract duration and the bid amount		
15. PERT-CPM must conform with the contract duration		
16. Manpower Utilization must conform with the POW		
17. Equipment Utilization must conform with the POW		
18. Duly Notarized Affidavit of Site Inspection		
19. Duly Notarized Compliance to Existing Labor Laws and Standards		