

MAIN BRIDGE

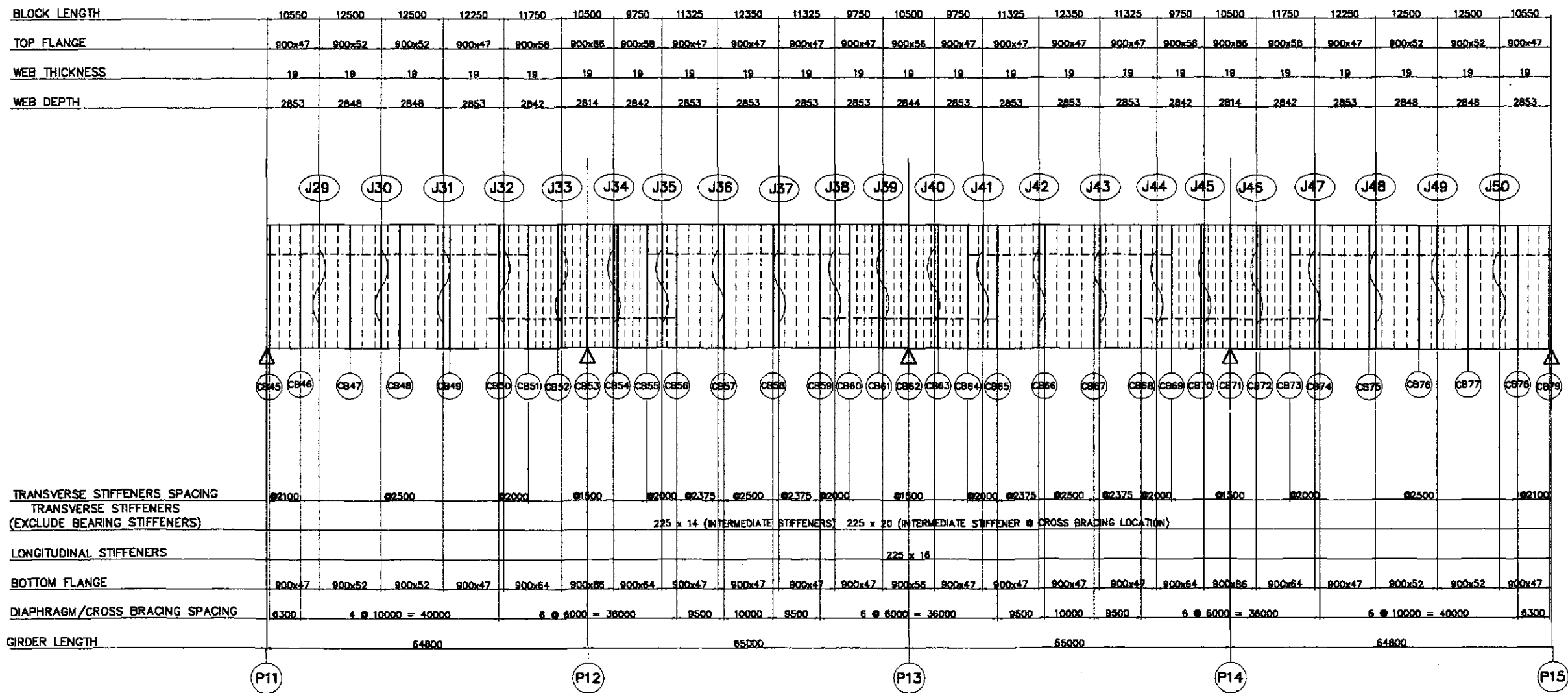
SUPERSTRUCTURE - PLATE GIRDERS

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------------------------------|-------------------|--------|------------------|--------|--------|--------|--------|------------------|--------|--------|--------|--------|------------------|--|--------|--------|--------|------------------|--------|--------|--------|--------|------------------|--------|--------|--------|--------|--------|--------|
| BLOCK LENGTH | 10550 | 12500 | 12500 | 12250 | 11750 | 10500 | 9750 | 11325 | 12350 | 11325 | 9750 | 10500 | 9750 | 11325 | 12350 | 11325 | 9750 | 10500 | 9750 | 11325 | 12350 | 11325 | 9750 | 10500 | 11750 | 12250 | 12500 | 12500 | 10550 | |
| TOP FLANGE | 800x47 | 900x52 | 800x52 | 900x47 | 900x58 | 900x86 | 900x58 | 900x47 | 900x47 | 900x47 | 900x47 | 900x56 | 900x47 | 900x47 | 900x47 | 900x47 | 900x47 | 900x56 | 900x47 | 900x47 | 900x47 | 900x47 | 900x47 | 900x58 | 900x86 | 900x58 | 900x47 | 900x52 | 900x52 | 900x47 |
| WEB THICKNESS | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
| WEB DEPTH | 2853 | 2848 | 2848 | 2853 | 2842 | 2814 | 2842 | 2853 | 2853 | 2853 | 2853 | 2844 | 2853 | 2853 | 2853 | 2853 | 2853 | 2844 | 2853 | 2853 | 2853 | 2853 | 2853 | 2842 | 2814 | 2842 | 2853 | 2848 | 2848 | 2853 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TRANSVERSE STIFFENERS SPACING (EXCLUDE BEARING STIFFENERS) | @2100 | @2500 | @2000 | @1500 | @2000 | @2375 | @2500 | @2375 | @2000 | @1500 | @2000 | @2375 | @2500 | @2375 | @2000 | @1500 | @2000 | @2375 | @2500 | @2375 | @2000 | @1500 | @2000 | @2375 | @2500 | @2375 | @2000 | @1500 | @2000 | @2500 |
| LONGITUDINAL STIFFENERS | 225 x 14 (INTERMEDIATE STIFFENERS) | | | | | | | | | | | | | | 225 x 20 (INTERMEDIATE STIFFENER @ CROSS BRACING LOCATION) | | | | | | | | | | | | | | | |
| DIAPHRAGM/CROSS BRACING SPACING | 6300 | 4 @ 10000 = 40000 | | 6 @ 6000 = 36000 | | 9500 | 10000 | 9500 | 6 @ 6000 = 36000 | | 9500 | 10000 | 9500 | 6 @ 6000 = 36000 | | 9500 | 10000 | 9500 | 6 @ 6000 = 36000 | | 9500 | 10000 | 9500 | 6 @ 6000 = 36000 | | 9500 | 10000 | 9500 | 6300 | |
| GIRDER LENGTH | 64800 | | | | 65000 | | | | 65000 | | | | 65000 | | | | 64800 | | | | | | | | | | | | | |
| | P6 | P7 | | | | P8 | | | | P9 | | | | P10 | | | | P11 | | | | | | | | | | | | |

NOTE :
1. ALL STEEL SHALL BE SMA 490W/GRADE 50W CONFORMING TO ASTM A709M UNLESS OTHERWISE NOTED.

1 MAIN GIRDER COMPONENT (PIER 6 to PIER 11)
SCALE 1:500

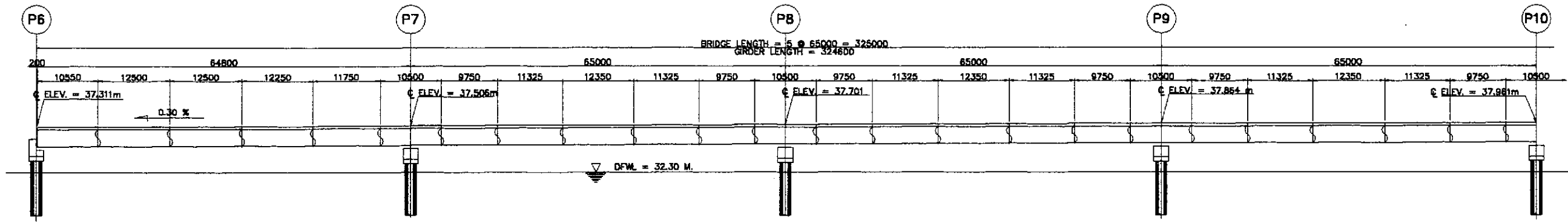
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|--|-----------|----------|--------------|--|--|--|--|---|--------------|--|-------------|
| | DESIGNED | DATE | SIGNATURE | REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS | | | | PROJECT AND LOCATION : | SCALE : | SHEET CONTENTS : | SHEET NO. : |
| | CHECKED | 10/17/02 | J. C. SANTOS | BUREAU OF DESIGN Submitted By: DANILLO C. TRAJANO Reviewed By: ADRIANO M. DORAY Recommended By: GILBERTO S. REYES Office of the Secretary: MANUEL M. BONGCAN SIMEON A. DATUMANONG | | | | THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Pinaridel, Cabanatuan and San Jose Bypasses) | AS SHOWN | BRIDGE NO. 10 PAMPANGA RIVER BRIDGE MAIN GIRDER COMPONENT (PIER 6 to PIER 11) (INITIAL STAGE) | B10M-01 |
| | SUBMITTED | 10/17/02 | Team Leader | Office of the Secretary Approved By: SIMEON A. DATUMANONG | | | | CABANATUAN BYPASS - CONTRACT PACKAGE III | FULL SIZE A1 | | |



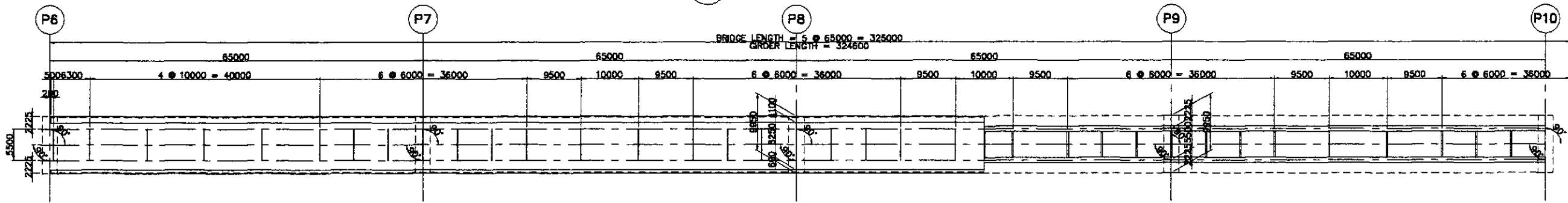
NOTE :
 1. ALL STEEL SHALL BE SMA 490W/GRADE 50W CONFORMING TO ASTM A708M UNLESS OTHERWISE NOTED.

1 MAIN GIRDER COMPONENT (PIER 11 TO PIER 15)
 SCALE 1:500

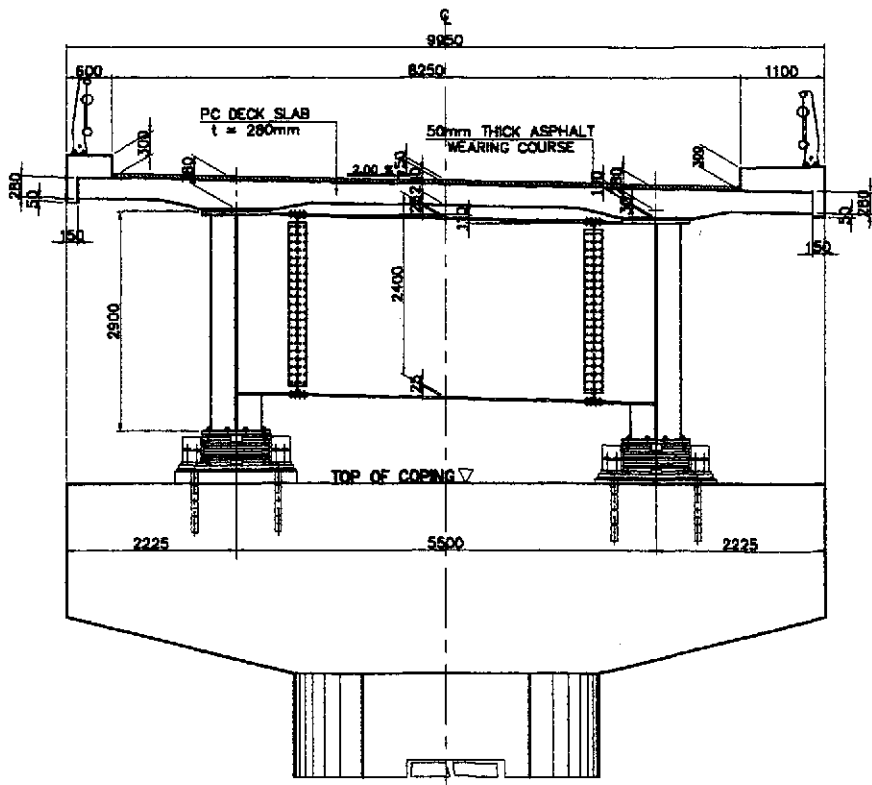
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|--|-----------|-----------|--|---------------------------------------|--|---------------------------------------|--|--|------------------|---|-------------------------------------|
| | DATE | SIGNATURE | REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS | | | | PROJECT AND LOCATION : | SCALE : | SHEET CONTENTS : | SHEET NO. : | |
| | DESIGNED | 10/8/02 | <i>F. M. SALAS</i> | BUREAU OF DESIGN | | | | THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) | AS SHOWN | BRIDGE NO. 10 PAMPANGA RIVER BRIDGE MAIN GIRDER COMPONENT (PIER 11 TO PIER 15) (INITIAL STAGE) | B10M-02 |
| | CHECKED | 10/17/02 | <i>J. C. SANTOS</i> | Submitted By: | Reviewed By: | Recommended By: | CABANATUAN BYPASS - CONTRACT PACKAGE III | FULL SIZE A1 | | | |
| | SUBMITTED | 11/19/02 | <i>Mr. [Signature]</i> | DANILO C. TRAJANO Project Director | ADRIANO M. DORCY Chief, Bridge Division | GILBERTO S. REYES Director IV (OC) | | | | | MANUEL M. BONDIAN Undersecretary |



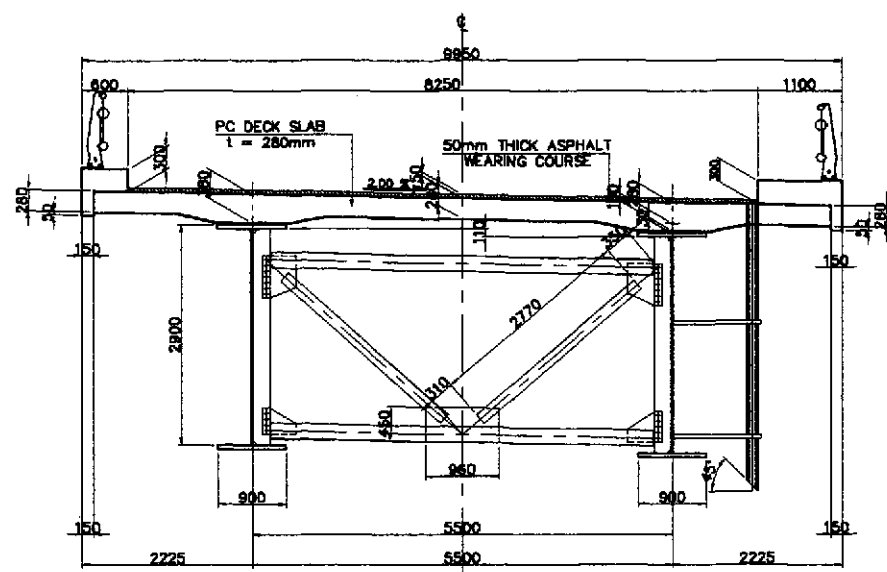
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SCALE 1:400



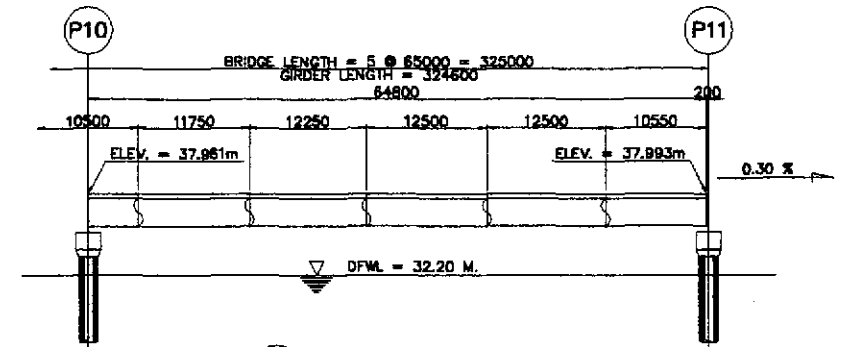
B PLAN
SCALE 1:400



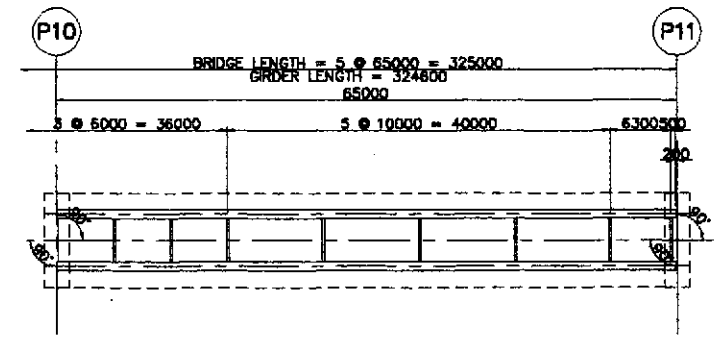
C SECTION @ END SUPPORT
SCALE 1:50



D SECTION @ INTERMEDIATE CROSS BRACING
SCALE 1:50



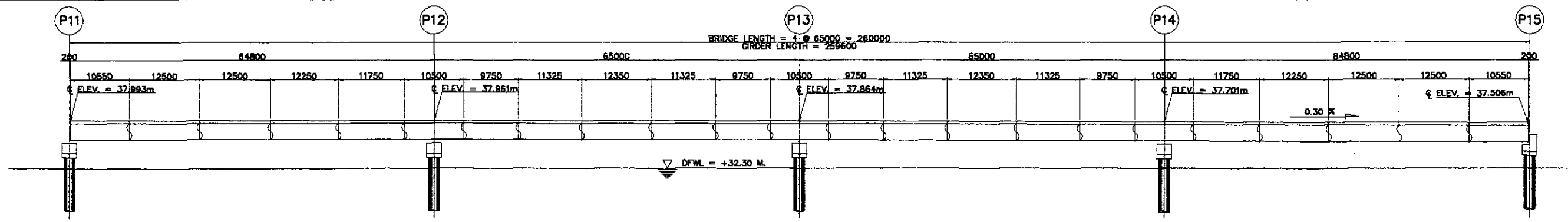
A-1 PLAN
SCALE 1:400



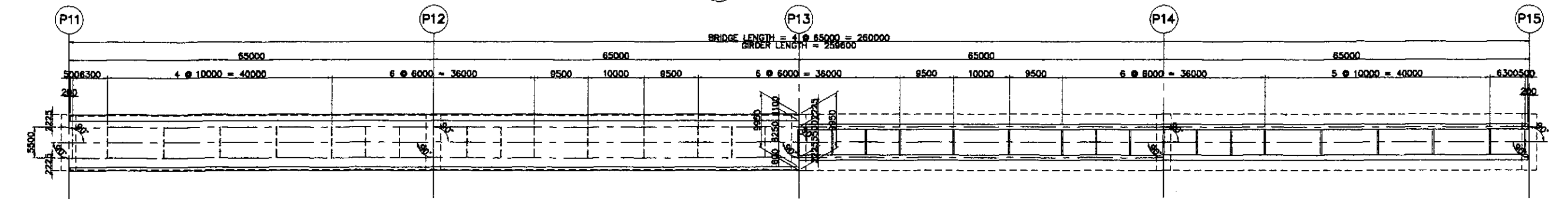
B-1 PLAN
SCALE 1:400

1 MAIN GIRDER ARRANGEMENT (PIER 6 to PIER 11)
SCALE AS SHOWN

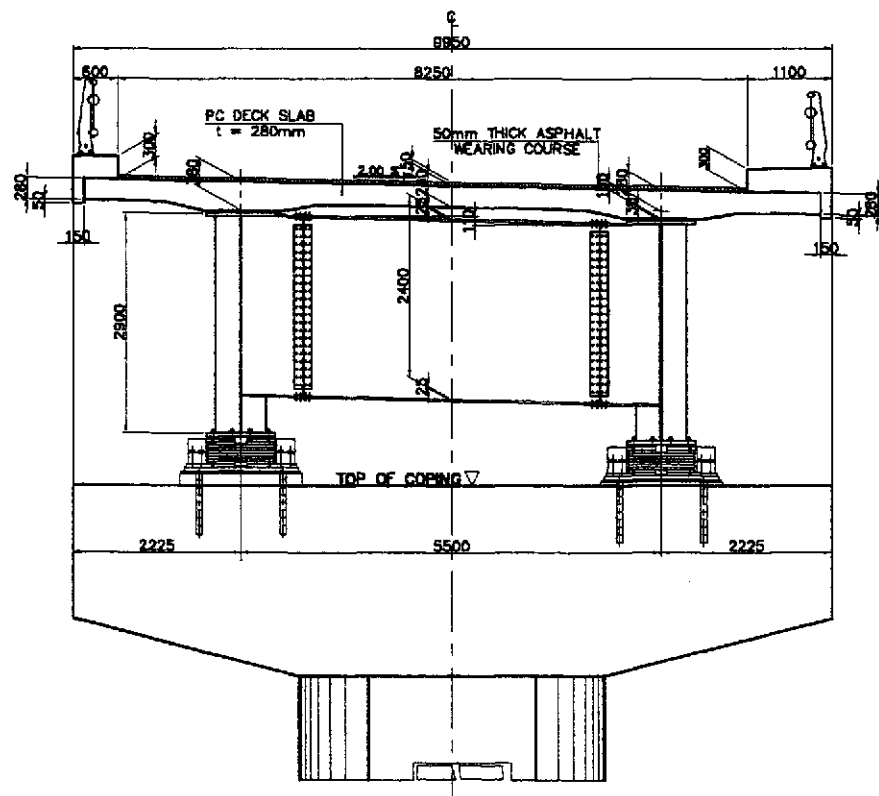
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|--|-----------|----------|-------------|---------------------------------------|--|---------------------------------------|------------------------------------|-----------------------------------|--------------|---|-------------------------------------|--|-------------------------------|
| | DESIGNED | DATE | SIGNATURE | | REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS | | | | | PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Pinarid, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III | SCALE : AS SHOWN FULL SIZE A1 | SHEET CONTENTS : BRIDGE NO. 10 PAMPANGA RIVER BRIDGE MAIN GIRDER ARRANGEMENT (PIER 6 to PIER 11) (INITIAL STAGE) | SHEET NO. : B10M-03 |
| | CHECKED | 10/17/02 | F. M. SALAS | | BUREAU OF DESIGN | | | | | | | | |
| | SUBMITTED | 10/19/02 | TEAM LEADER | | Submitted By: | Reviewed By: | Recommended By: | Recommended By: | Approved By: | | | | |
| | | | | DANILO C. TRAJANO Project Director | ADRIANO M. DOROY Chief, Bridge Division | GILBERTO S. REYES Director IV (OC) | MANUEL M. BONGAN Undersecretary | SIMEON A. DATUMANONG Secretary | | | | | |



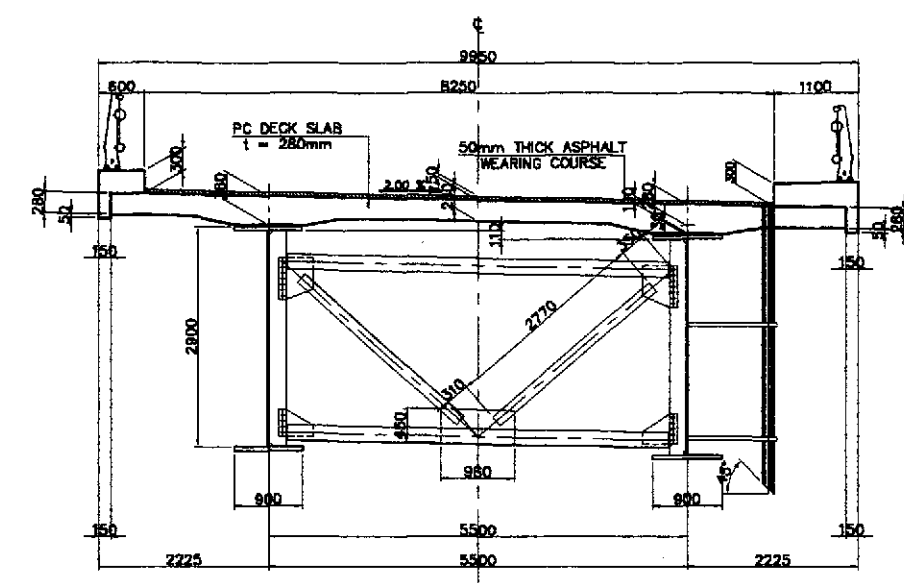
A ELEVATION
SCALE 1:400



B PLAN
SCALE 1:400



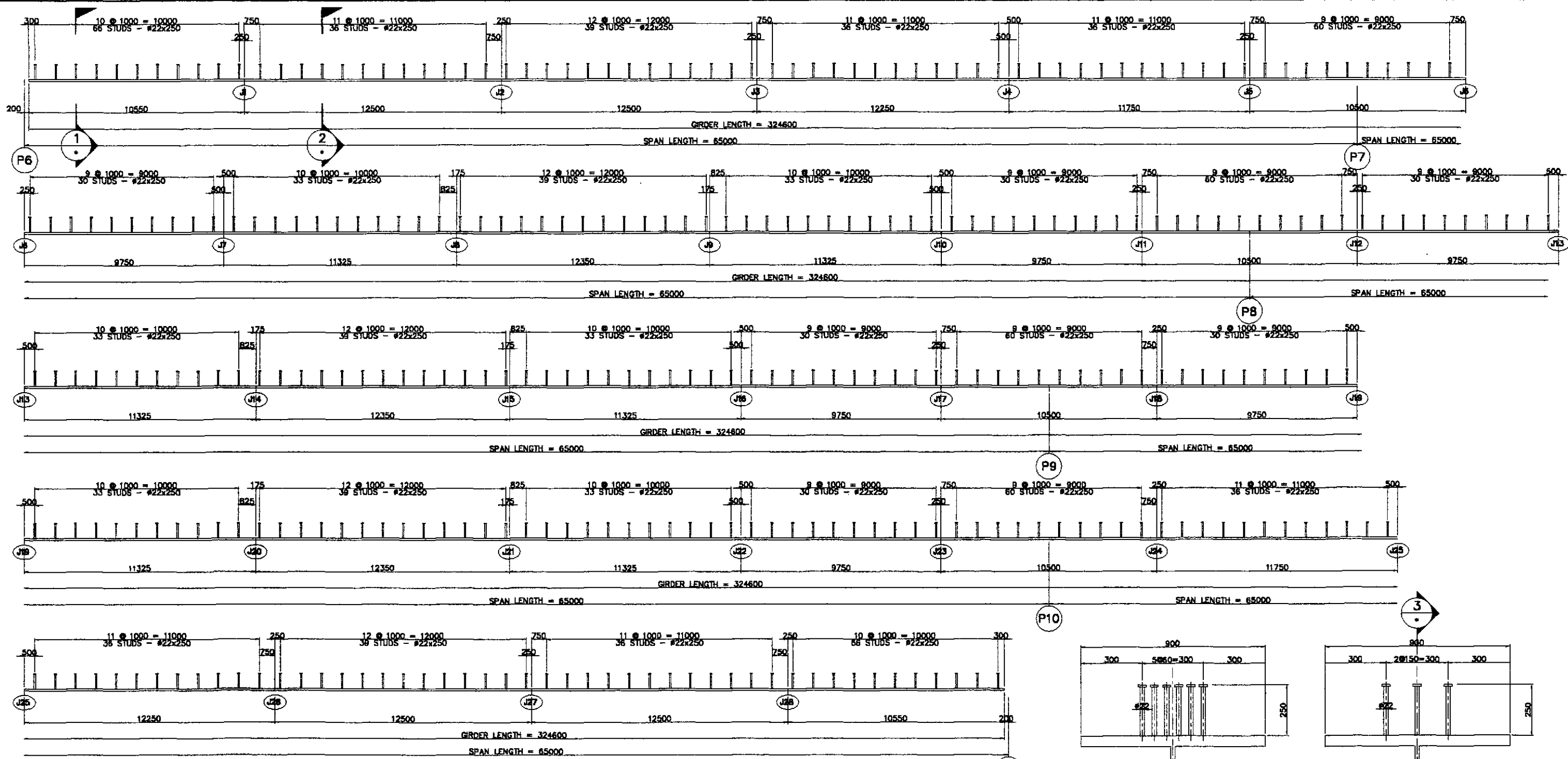
C SECTION @ END SUPPORT
SCALE 1:50



D SECTION @ INTERMEDIATE CROSS BRACING
SCALE 1:50

1 MAIN GIRDER ARRANGEMENT (PIER 11 to PIER 15)
SCALE AS SHOWN

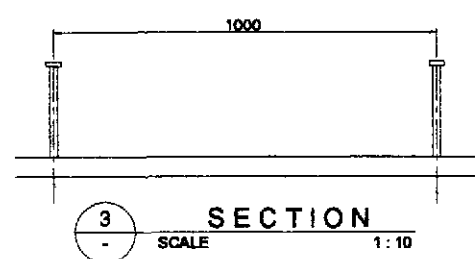
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|--|-----------|----------|-----------------------------------|---|--|--|---|----------|---|----------------|
| | DESIGNED | 10/8/02 | <i>[Signature]</i> F. M. S. S. | REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS | | | PROJECT AND LOCATION : | SCALE : | SHEET CONTENTS : | SHEET NO. : |
| | CHECKED | 10/17/02 | J. G. SANCOS | BUREAU OF DESIGN Submitted By: DANILO C. TRAJANO Project Director | | | THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Pinarid, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III | AS SHOWN | BRIDGE NO. 10 PAMPANGA RIVER BRIDGE MAIN GIRDER ARRANGEMENT (PIER 11 to PIER 15) (INITIAL STAGE) | B10M-04 |
| | SUBMITTED | 10/19/02 | <i>[Signature]</i> TEAM LEADER | OFFICE OF THE SECRETARY Recommended By: ADRIANO M. DOROY Chief, Bridges Division Recommended By: GILBERTO S. REYES Director IV (OC) Recommended By: MANUEL M. BONDAN Undersecretary Approved By: SIMEON A. DATUMANONG Secretary | | | FULL SIZE A1 | | | |



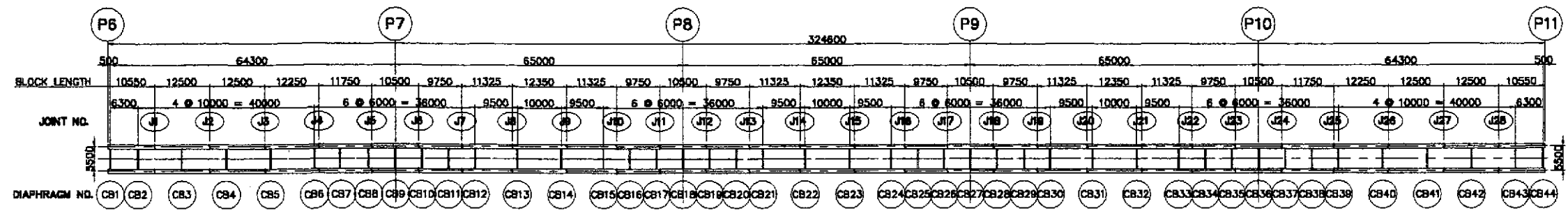
A SHEAR STUD DETAILS (PIER 6 to PIER 11)
SCALE 1:100

1 STUD DETAIL AT SUPPORT
SCALE 1:10

2 SECTION
SCALE 1:10

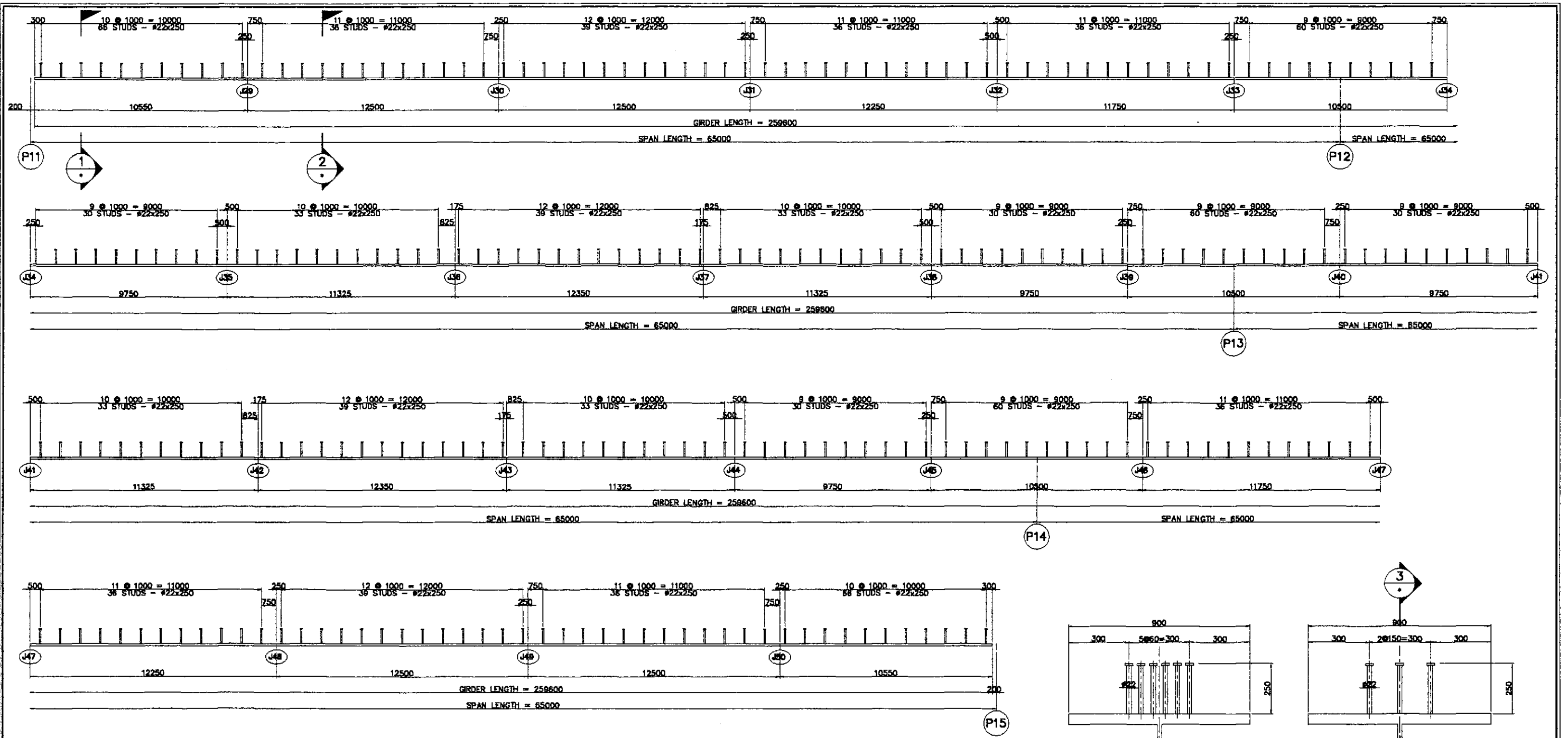


3 SECTION
SCALE 1:10



B KEY PLAN
SCALE 1:800

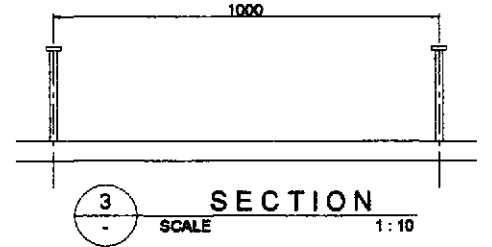
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|--|-----------|----------|-------------------|--|--|---|---|---|-------------------------------------|--|-------------------------------|
| | DESIGNED | DATE | SIGNATURE | | REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS | | | PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Paridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III | SCALE : AS SHOWN FULL SIZE A1 | SHEET CONTENTS : BRIDGE NO. 10 PAMPANGA RIVER BRIDGE SHEAR STUD DETAILS (PIER 6 to PIER 11) (INITIAL STAGE) | SHEET NO. : B10M-05 |
| | CHECKED | 10/17/02 | F. U. S. SANTOS | | BUREAU OF DESIGN | OFFICE OF THE SECRETARY | | | | | |
| | SUBMITTED | 10/17/02 | M. R. B. B. B. B. | | Submitted By: DANILO C. TRAJANO Project Director | Reviewed By: ADRIANO M. DORAY Chief, Bridges Division | Recommended By: DILBERTO S. REYES Director IV (CIC) | | | | |



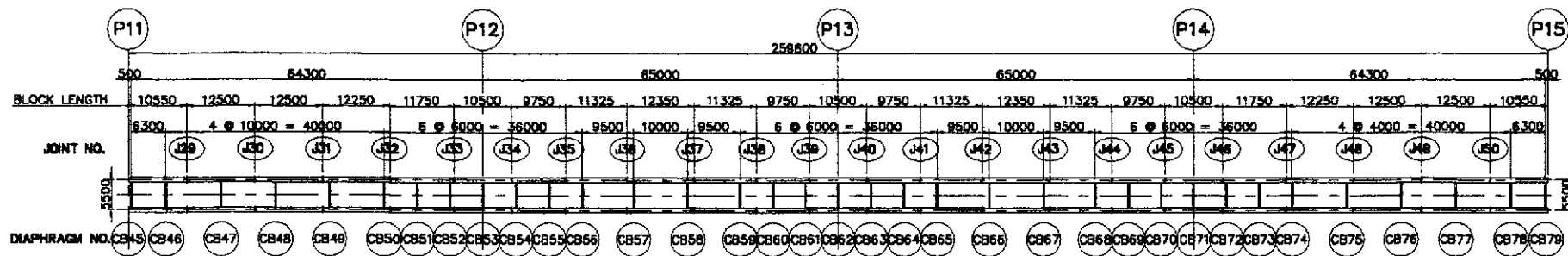
A SHEAR STUD DETAILS (PIER 11 to PIER 15)
SCALE 1:100

1 STUD DETAIL AT SUPPORT
SCALE 1:10

2 SECTION
SCALE 1:10

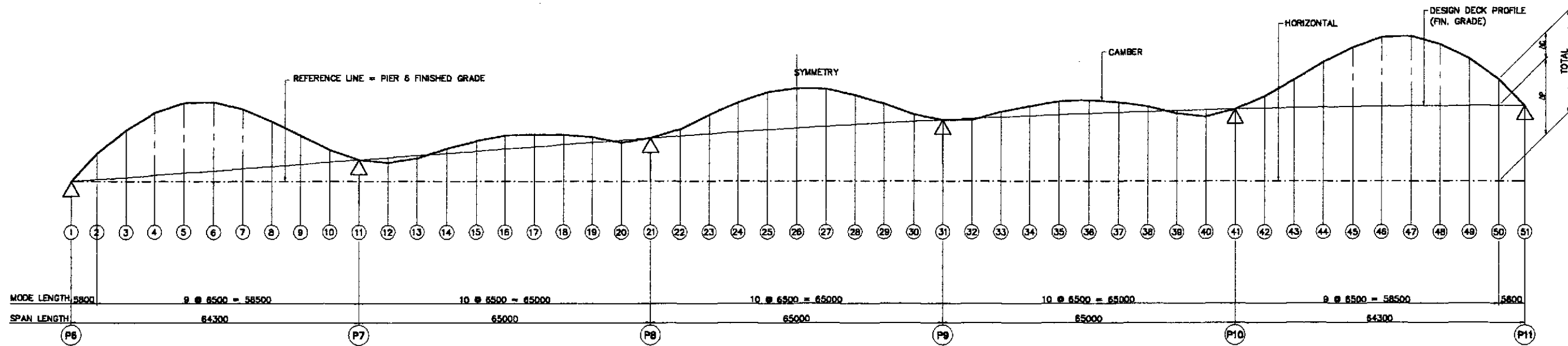


3 SECTION
SCALE 1:10



B KEY PLAN
SCALE 1:600

| | | | | | | | | |
|--|--|--|--|---|------------------------------------|---|------------------------------|--|
| | DESIGNED: <i>[Signature]</i> CHECKED: <i>[Signature]</i> SUBMITTED: <i>[Signature]</i> | DATE: 10/18/02 SIGNATURE: <i>[Signature]</i> TEAM LEADER | REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS | PROJECT AND LOCATION: THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Pinaridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III | SCALE: AS SHOWN FULL SIZE A1 | SHEET CONTENTS: BRIDGE NO. 10 PAMPANGA RIVER BRIDGE SHEAR STUD DETAILS (PIER 11 to PIER 15) (INITIAL STAGE) | SHEET NO.: B10M-06 | |
| | SUBMITTED BY: DANLO C. TRAJANO, Project Director | | | OFFICE OF THE SECRETARY Recommended By: ADRIANO M. DORAY, Chief, Bridge Division Recommended By: GILBERTO S. REYES, Director IV (OC) Recommended By: MANUEL M. BONGHAN, Undersecretary Approved By: SIMEON A. DATUMANONG, Secretary | | | | |
| | BUREAU OF DESIGN | | | | | | | |



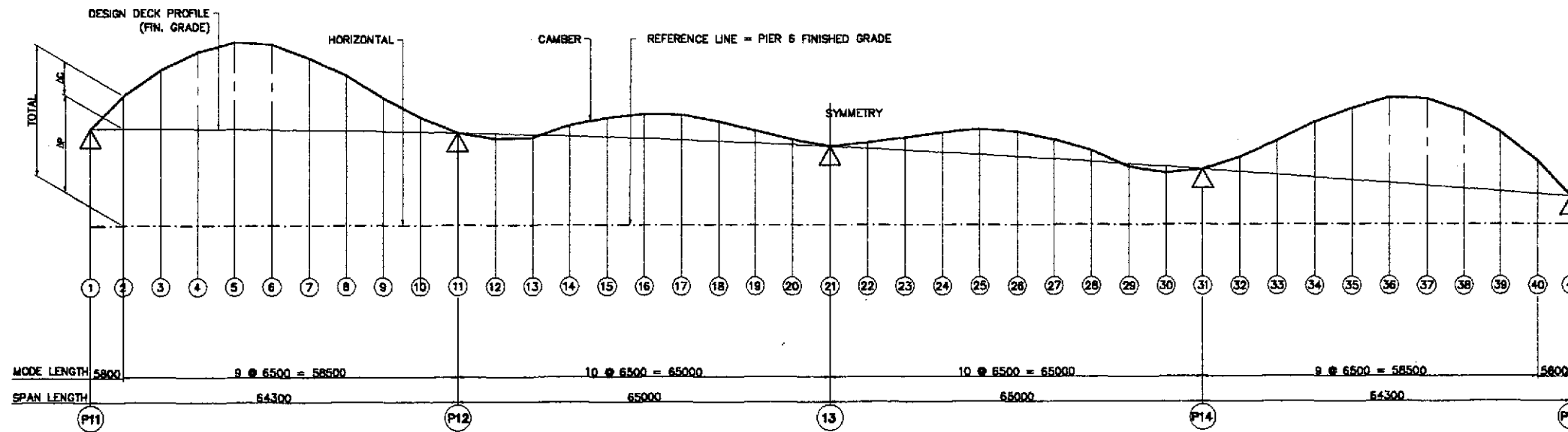
1 MAIN GIRDER CAMBER DIAGRAM

| SECTION | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 |
|----------------------|---|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| STEEL | 0 | 11 | 20 | 26 | 29 | 29 | 25 | 19 | 12 | 5 | 0 | -2 | -1 | 2 | 4 | 5 | 5 | 4 | 2 | -1 | 0 | 3 | 8 | 12 | 15 | 16 | 15 | 12 | 8 | 3 | 0 | -1 | 2 | 4 | 5 | 5 | 4 | 2 | -1 | -2 | 0 | 5 | 12 | 19 | 25 | 29 | 29 | 26 | 20 | 11 | 0 |
| DECK SLAB AND HAUNCH | 0 | 33 | 60 | 79 | 88 | 88 | 76 | 57 | 35 | 15 | 0 | -5 | -2 | 5 | 12 | 17 | 16 | 12 | 8 | -1 | 0 | 9 | 24 | 37 | 48 | 51 | 48 | 37 | 24 | 9 | 0 | -1 | 6 | 12 | 16 | 17 | 12 | 5 | -2 | -5 | 0 | 15 | 35 | 57 | 76 | 88 | 89 | 79 | 60 | 33 | 0 |
| SIDEWALK SLAB | 0 | 9 | 15 | 20 | 23 | 22 | 19 | 15 | 9 | 4 | 0 | -2 | -1 | 2 | 4 | 5 | 4 | 3 | 2 | -1 | 0 | 3 | 6 | 10 | 12 | 13 | 12 | 10 | 6 | 3 | 0 | -1 | 2 | 3 | 4 | 5 | 4 | 2 | -1 | -2 | 0 | 4 | 9 | 15 | 19 | 22 | 23 | 20 | 15 | 9 | 0 |
| RAILING | 0 | 2 | 4 | 5 | 5 | 5 | 4 | 3 | 2 | 1 | 0 | -1 | -1 | 1 | 1 | 1 | 1 | 1 | 1 | -1 | 0 | 1 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 1 | 0 | -1 | 1 | 1 | 1 | 1 | 1 | 1 | -1 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 5 | 4 | 2 | 0 | |
| ADJUSTING ASPHALT | 0 | 4 | 7 | 10 | 11 | 11 | 9 | 7 | 5 | 2 | 0 | -1 | -1 | 1 | 2 | 2 | 2 | 2 | 1 | -1 | 0 | 2 | 3 | 5 | 6 | 6 | 6 | 5 | 3 | 2 | 0 | -1 | 1 | 2 | 2 | 2 | 2 | 1 | -1 | -1 | 0 | 2 | 5 | 7 | 9 | 11 | 11 | 10 | 7 | 4 | 0 |
| SUB TOTAL (ΔC) | 0 | 59 | 106 | 140 | 157 | 155 | 133 | 101 | 63 | 27 | 0 | -11 | -6 | 11 | 23 | 30 | 28 | 22 | 12 | -5 | 0 | 15 | 43 | 68 | 84 | 89 | 84 | 66 | 43 | 15 | 0 | -5 | 12 | 22 | 28 | 30 | 23 | 11 | -6 | -11 | 0 | 27 | 63 | 101 | 133 | 155 | 157 | 140 | 106 | 59 | 0 |
| ΔP | 0 | 18 | 37 | 57 | 76 | 96 | 115 | 135 | 154 | 174 | 193 | 213 | 232 | 252 | 271 | 291 | 310 | 330 | 349 | 368 | 388 | 407 | 426 | 444 | 461 | 478 | 493 | 508 | 523 | 537 | 551 | 563 | 575 | 587 | 597 | 608 | 617 | 626 | 634 | 641 | 648 | 654 | 660 | 665 | 669 | 672 | 675 | 678 | 679 | 680 | 681 |
| TOTAL (ΔP + ΔC) | 0 | 77 | 143 | 197 | 233 | 251 | 248 | 236 | 217 | 201 | 193 | 202 | 226 | 263 | 294 | 321 | 338 | 352 | 361 | 364 | 388 | 422 | 468 | 510 | 545 | 567 | 577 | 575 | 566 | 552 | 551 | 558 | 587 | 609 | 625 | 638 | 640 | 637 | 628 | 630 | 648 | 681 | 723 | 786 | 802 | 827 | 832 | 818 | 785 | 739 | 681 |

NOTES :

ΔC = CAMBER (MM)
 ΔP = DESIGN DECK PROFILE (FINISHED GRADE) IN MM.

| | | | | | | | | | | | |
|--|-----------|----------|--------------|--|--|--|--|---|----------|---|-------------|
| | DESIGNED | DATE | SIGNATURE | REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS | | | | PROJECT AND LOCATION : | SCALE : | SHEET CONTENTS : | SHEET NO. : |
| | CHECKED | 10/17/20 | J. C. SANTOS | BUREAU OF DESIGN Submitted By: DANILO G. TRAJANO Reviewed By: ADRIANO M. DORAY Recommended By: GILBERTO S. REYES Office of the Secretary: MANUEL M. BONGONAN SIMEON A. DATUMANONG | | | | THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Pinarid, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III | AS SHOWN | BRIDGE NO. 10 PAMPANGA RIVER BRIDGE MAIN GIRDER CAMBER DIAGRAM (PIER 6 to PIER 11) (INITIAL STAGE) | B10M-07 |
| | SUBMITTED | 10/19/20 | M. RAMON | OFFICE OF THE SECRETARY Approved By: (See cover sheet for Signature/Approval) | | | | FULL SIZE A1 | | | |



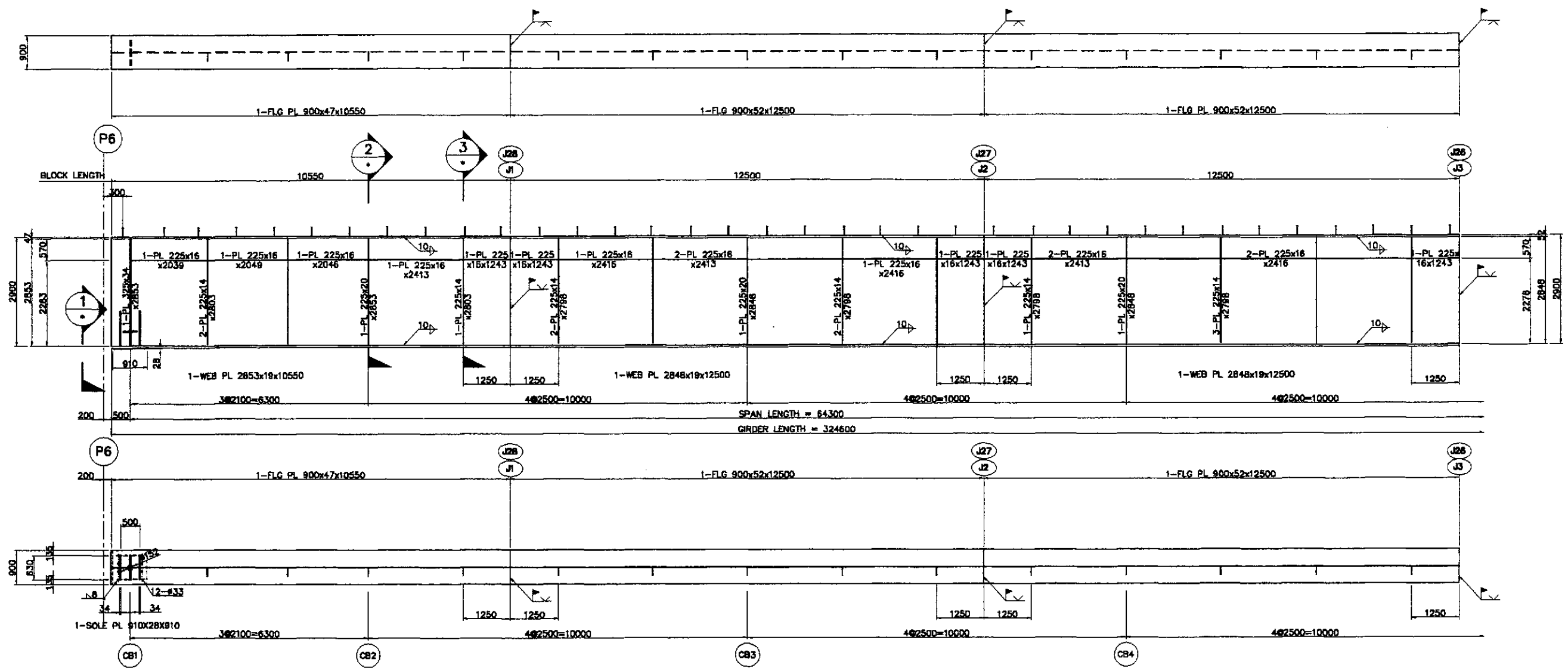
1 MAIN GIRDER CAMBER DIAGRAM

| SECTION | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 |
|----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| STEEL | 0 | 11 | 19 | 25 | 28 | 28 | 24 | 18 | 11 | 5 | 0 | -2 | 1 | 3 | 6 | 8 | 8 | 6 | 4 | 2 | 0 | 2 | 4 | 6 | 8 | 8 | 6 | 3 | 1 | -2 | 0 | 5 | 11 | 18 | 24 | 28 | 28 | 25 | 18 | 11 | 0 |
| DECK SLAB AND HAUNCH | 0 | 32 | 59 | 77 | 87 | 85 | 73 | 55 | 33 | 14 | 0 | -4 | 2 | 10 | 19 | 24 | 24 | 20 | 12 | 4 | 0 | 4 | 12 | 20 | 24 | 24 | 19 | 10 | 2 | -4 | 0 | 14 | 33 | 55 | 73 | 85 | 87 | 77 | 59 | 32 | 0 |
| SIDEWALK SLAB | 0 | 9 | 15 | 20 | 22 | 22 | 19 | 14 | 9 | 4 | 0 | -1 | 1 | 3 | 5 | 6 | 7 | 5 | 3 | 1 | 0 | 1 | 3 | 5 | 7 | 6 | 5 | 3 | 1 | -1 | 0 | 4 | 9 | 14 | 19 | 22 | 22 | 20 | 15 | 9 | 0 |
| RAILING | 0 | 2 | 4 | 5 | 5 | 5 | 4 | 3 | 2 | 1 | 0 | -1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 5 | 5 | 4 | 2 | 0 |
| ADJUSTING ASPHALT | 0 | 4 | 7 | 9 | 11 | 10 | 9 | 7 | 4 | 2 | 0 | -1 | 1 | 2 | 3 | 3 | 3 | 3 | 2 | 1 | 0 | 1 | 2 | 3 | 3 | 3 | 3 | 2 | 1 | -1 | 0 | 2 | 4 | 7 | 9 | 10 | 11 | 9 | 7 | 4 | 0 |
| SUB TOTAL (ΔC) | 0 | 58 | 104 | 136 | 153 | 150 | 129 | 97 | 59 | 26 | 0 | -9 | 6 | 19 | 34 | 43 | 44 | 35 | 22 | 9 | 0 | 9 | 22 | 35 | 44 | 43 | 34 | 19 | 6 | -9 | 0 | 26 | 59 | 97 | 129 | 150 | 153 | 136 | 104 | 58 | 0 |
| ΔP | 681 | 680 | 678 | 678 | 675 | 672 | 669 | 665 | 660 | 654 | 648 | 641 | 634 | 626 | 617 | 608 | 597 | 587 | 575 | 563 | 551 | 537 | 523 | 508 | 493 | 478 | 461 | 444 | 426 | 407 | 388 | 369 | 349 | 330 | 310 | 291 | 271 | 252 | 232 | 213 | 195 |
| TOTAL (ΔP + ΔC) | 681 | 738 | 783 | 814 | 828 | 822 | 798 | 762 | 719 | 680 | 648 | 632 | 640 | 645 | 651 | 651 | 641 | 622 | 597 | 572 | 551 | 546 | 545 | 544 | 537 | 521 | 495 | 463 | 432 | 398 | 368 | 395 | 408 | 427 | 439 | 441 | 424 | 388 | 336 | 271 | 195 |

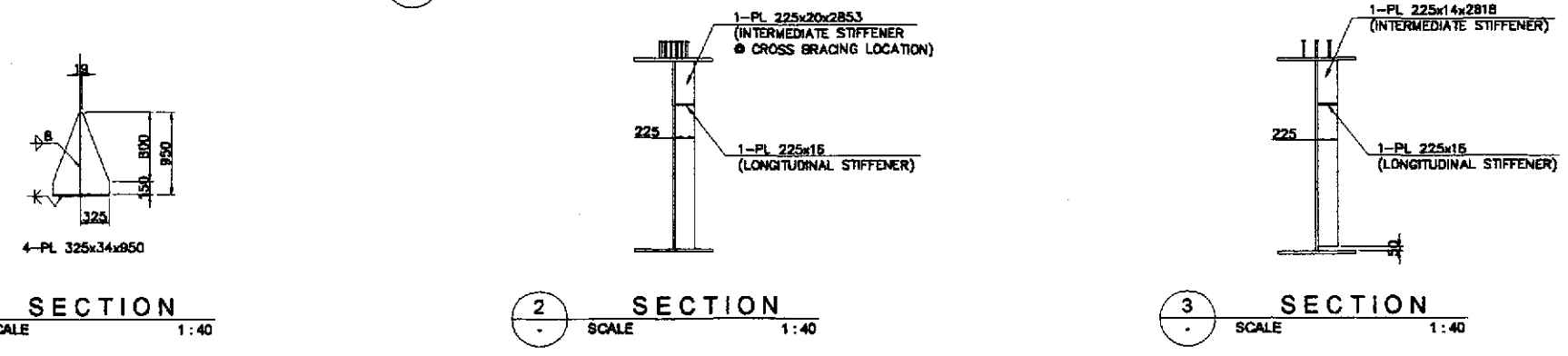
NOTES :

ΔC = CAMBER (MM)
 ΔP = DESIGN DECK PROFILE (FINISHED GRADE) IN MM.

| | | | | | | | | | | | | |
|--|-----------|----------|-------------------|--|--|---|--|--|--|-------------------------------------|--|-------------------------------|
| | DESIGNED | DATE | SIGNATURE | | REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS | | | | PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III | SCALE : AS SHOWN FULL SIZE A1 | SHEET CONTENTS : BRIDGE NO. 10 PAMPANGA RIVER BRIDGE MAIN GIRDER CAMBER DIAGRAM (PIER 11 to PIER 15) (INITIAL STAGE) | SHEET NO. : B10M-08 |
| | CHECKED | 10/17/02 | F. M. SLAS | | BUREAU OF DESIGN | | | | | | | |
| | SUBMITTED | 10/19/02 | MANUEL M. BONGUAN | | Submitted By: DANLO C. TRAJANO Project Director | Reviewed By: ADRIANO M. DORAY Chief, Bridges Division | Recommended By: GILBERTO S. REYES Director IV (OC) | Recommended By: (See cover sheet for Signature) | | | | |



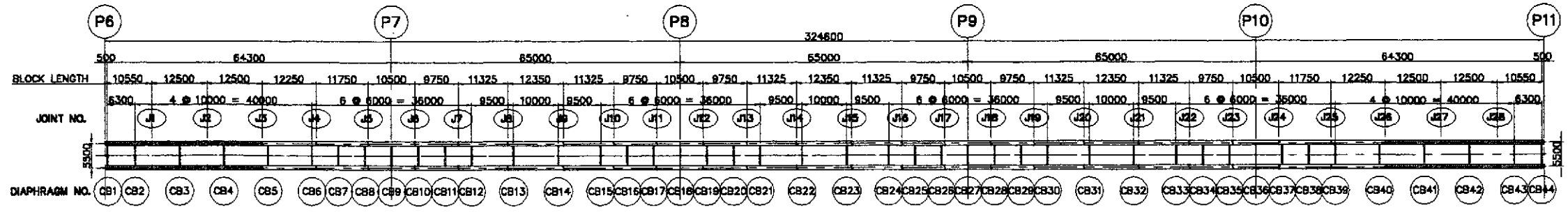
A STIFFENER LAYOUT AND DETAILS (P6-P11)
SCALE 1:60



1 SECTION
SCALE 1:40

2 SECTION
SCALE 1:40

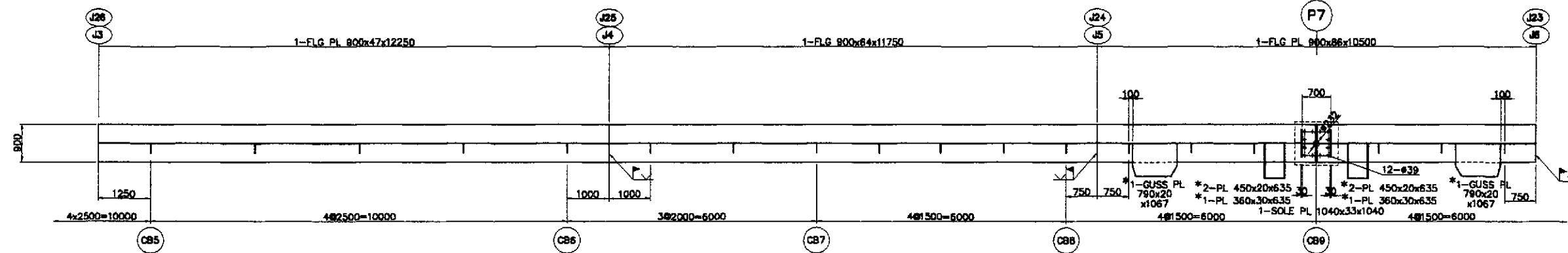
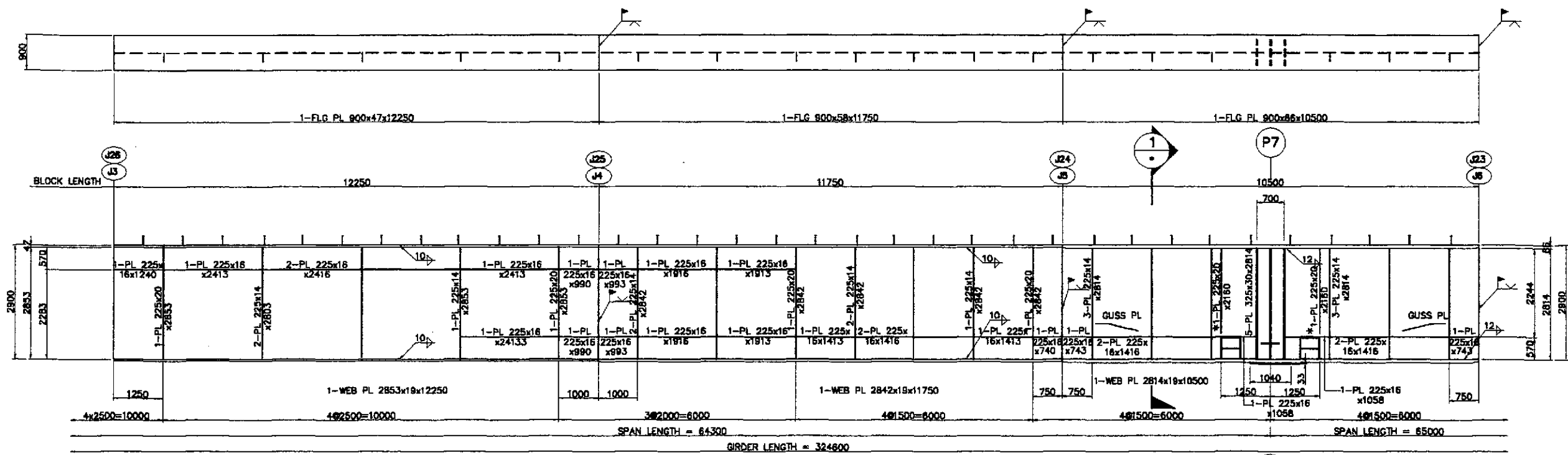
3 SECTION
SCALE 1:40



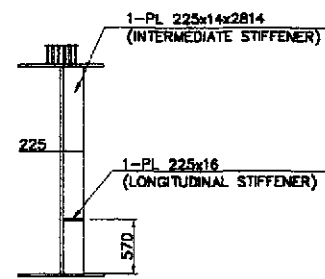
B KEY PLAN
SCALE 1:600

- NOTES:**
- STRUCTURAL STEEL SHALL BE SMA 490W/ GRADE 50W CONFORMING TO ASTM A 709M UNLESS OTHERWISE NOTED.
 - FOR STUD SHEAR DETAILS, SEE DWG. NO. B10M-05

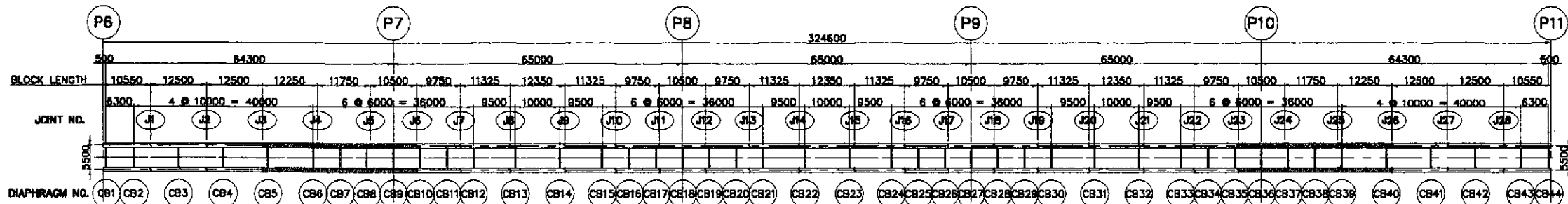
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|--|----------|------|-----------|--|--|--|---|-------------------------------------|--|-------------------------------|
| | DESIGNED | DATE | SIGNATURE | | | | PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Pinaridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III | SCALE : AS SHOWN FULL SIZE A1 | SHEET CONTENTS : BRIDGE NO. 10 PAMPANGA RIVER BRIDGE STIFFENER LAYOUT AND DETAILS (PIER 6 TO PIER 11) - 1 OF 5 (INITIAL STAGE) | SHEET NO. : B10M-09 |
| | CHECKED | DATE | SIGNATURE | | | | | | | |



A STIFFENER LAYOUT AND DETAILS (P6-P11)
SCALE 1:60



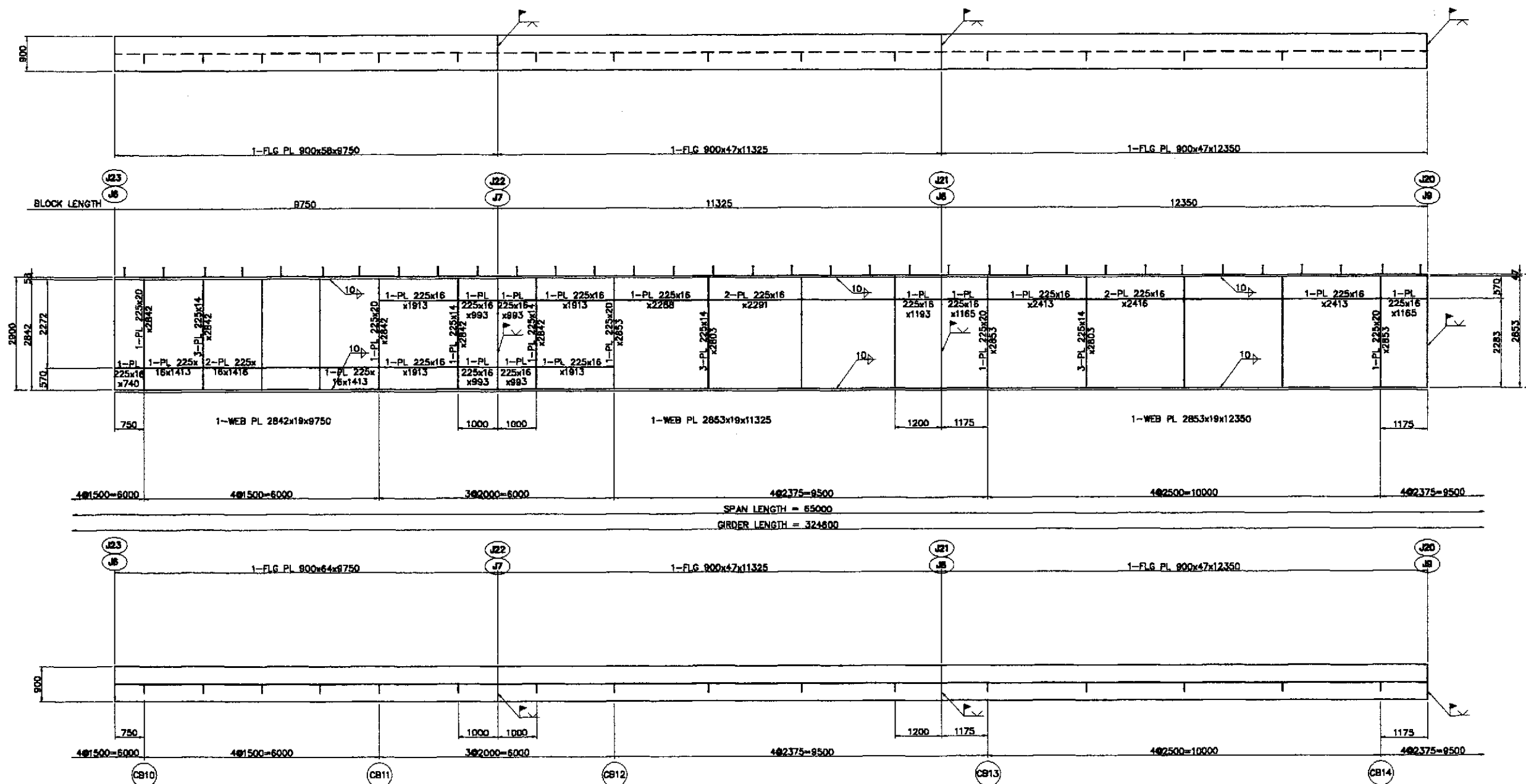
SECTION 1
SCALE 1:40



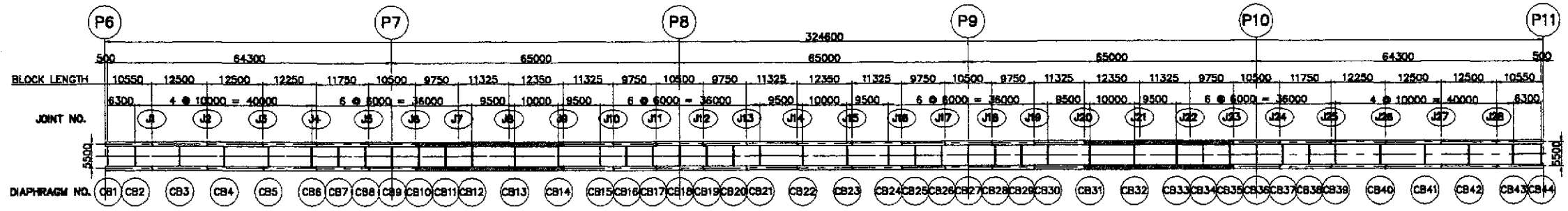
B KEY PLAN
SCALE 1:600

- NOTES:**
- STRUCTURAL STEEL SHALL BE SMA 490W/ GRADE S0W CONFORMING TO ASTM A 709M UNLESS OTHERWISE NOTED.
 - FOR STUD SHEAR DETAILS, SEE DWG. NO. B10M-05

| | | | | | | | | | | | |
|--|-----------|----------|--------------|--|---|--|--|--|--------------|---|-------------|
| | DESIGNED | DATE | SIGNATURE | | PROJECT AND LOCATION : | | | | SCALE : | SHEET CONTENTS : | SHEET NO. : |
| | CHECKED | 10/17/02 | F. M. SALAS | | THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Piaridel, Cabanatuan and San Jose Bypasses) | | | | AS SHOWN | BRIDGE NO. 10 PAMPANGA RIVER BRIDGE STIFFENER LAYOUT AND DETAILS (PIER 6 TO PIER 11) - 2 OF 5 (INITIAL STAGE) | B10M-10 |
| | SUBMITTED | 10/19/02 | J. E. SANTOS | | CABANATUAN BYPASS - CONTRACT PACKAGE III | | | | FULL SIZE A1 | | |
| SUBMITTED BY: DANILLO C. TRAJANO, Project Director REVIEWED BY: ADRIANO M. DOROY, Chief, Bridge Division RECOMMENDED BY: GILBERTO S. REYES, Director IV (DC) MANUEL M. BONGHAN, Undersecretary SINEON A. DATUMANONG, Secretary | | | | | | | | | | | |



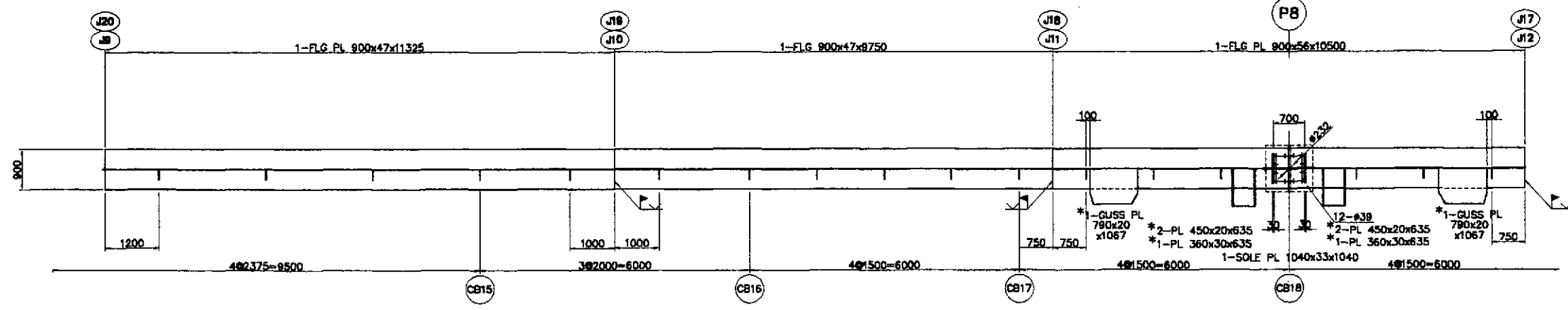
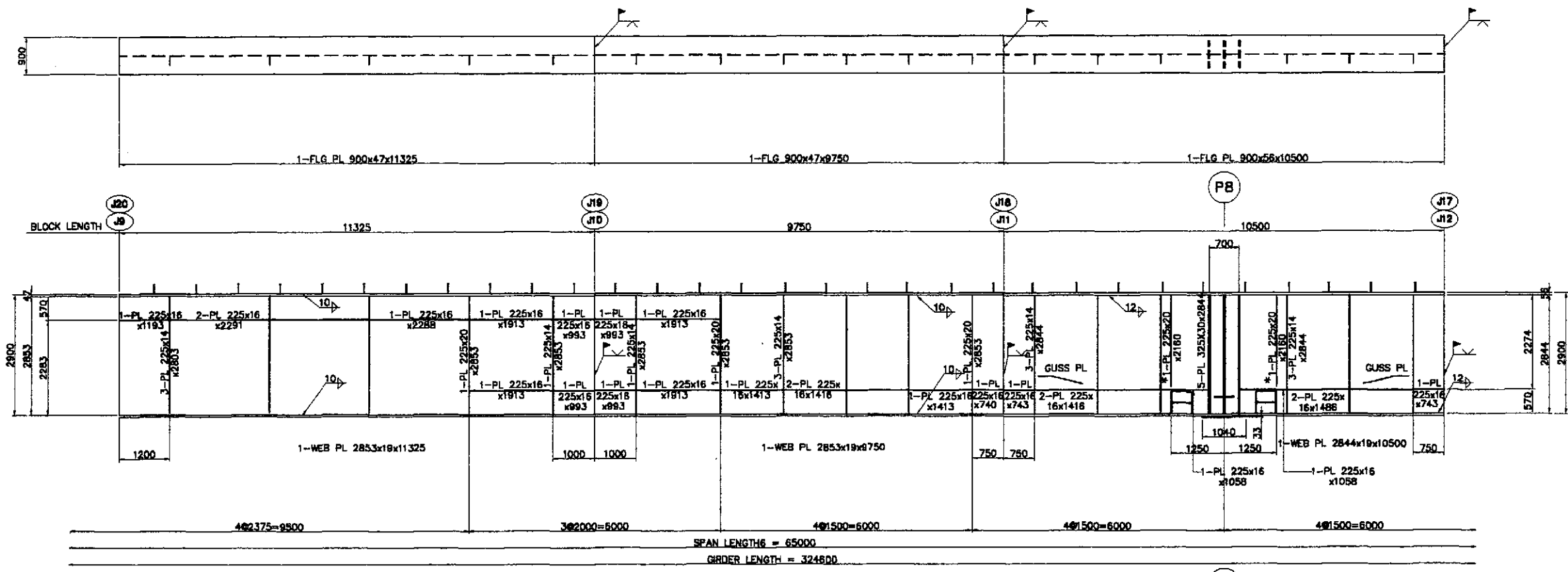
A STIFFENER LAYOUT AND DETAILS (P6-P11)
SCALE 1:80



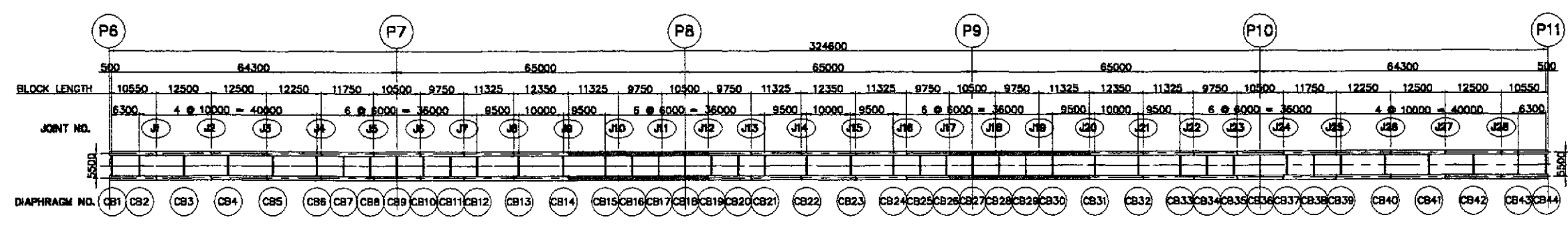
B KEY PLAN
SCALE 1:600

- NOTES:**
- STRUCTURAL STEEL SHALL BE SMA 490W/ GRADE 50W CONFORMING TO ASTM A 709M UNLESS OTHERWISE NOTED.
 - FOR STUD SHEAR DETAILS, SEE DWG. NO. B10M-05

| | | | | | | | | | | | | |
|--|-----------|----------|------------------|---|--------------|--|--|--|--|----------|--|-------------|
| | DESIGNED | DATE | SIGNATURE | REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS BUREAU OF DESIGN | | | | PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III | | SCALE : | SHEET CONTENTS : | SHEET NO. : |
| | CHECKED | 10/17/02 | F. M. SALAS | | | | | | | AS SHOWN | BRIDGE NO. 10 PAMPANGA RIVER BRIDGE STIFFENER LAYOUT AND DETAILS (PIER 6 TO PIER 11) - 3 of 5 (INITIAL STAGE) | B10M-11 |
| | SUBMITTED | 10/19/02 | MANUEL M. BONDAN | DANILO C. TRAJANO Project Director ADRIANO M. DORAY Chief, Bridge Division GILBERTO S. REYES Director IV (OC) MANUEL M. BONDAN Undersecretary SIMEON A. DATUMANONG Secretary | FULL SIZE A1 | | | | | | | |



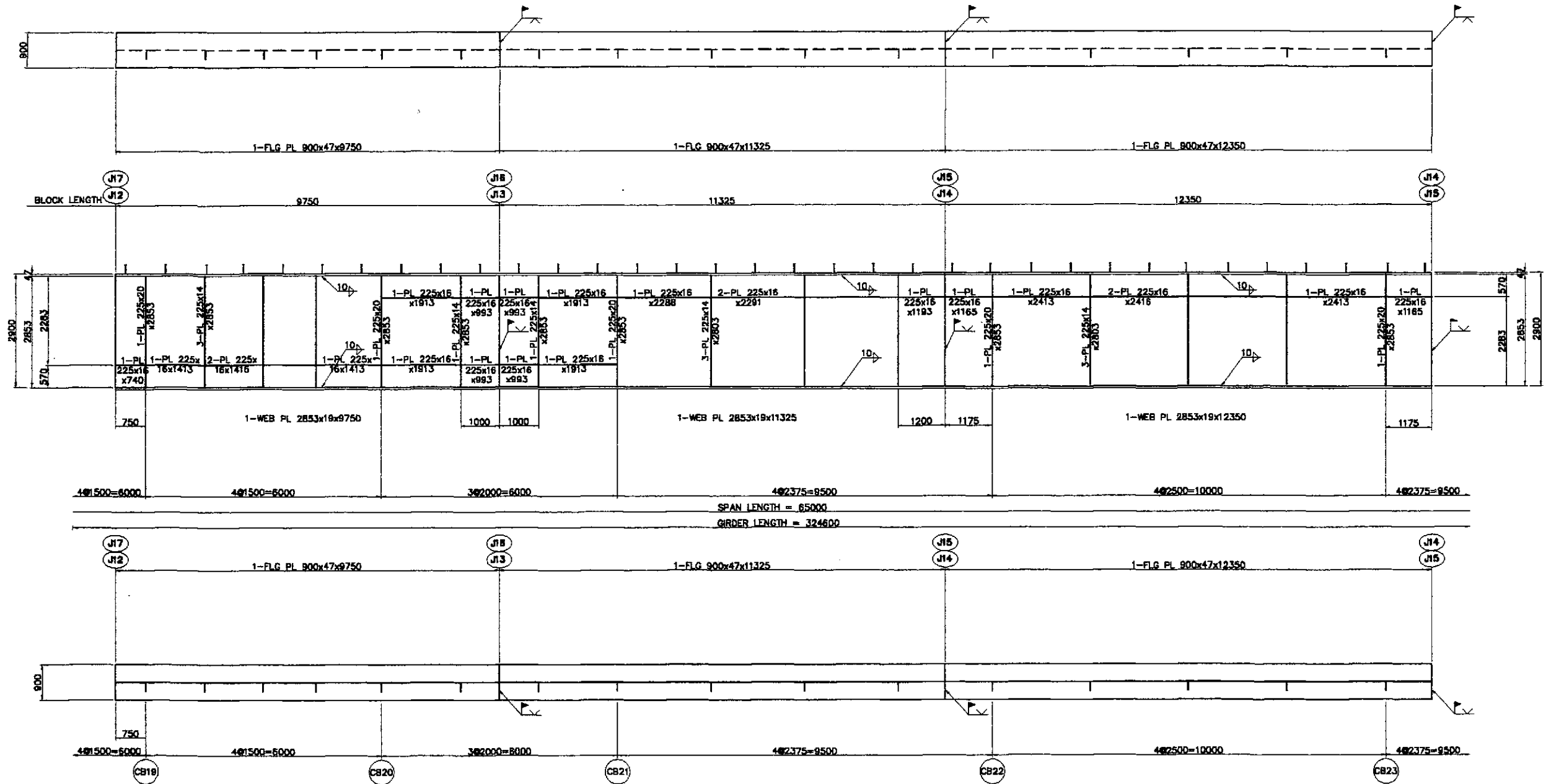
A STIFFENER LAYOUT AND DETAILS (P6-P11)
SCALE 1:60



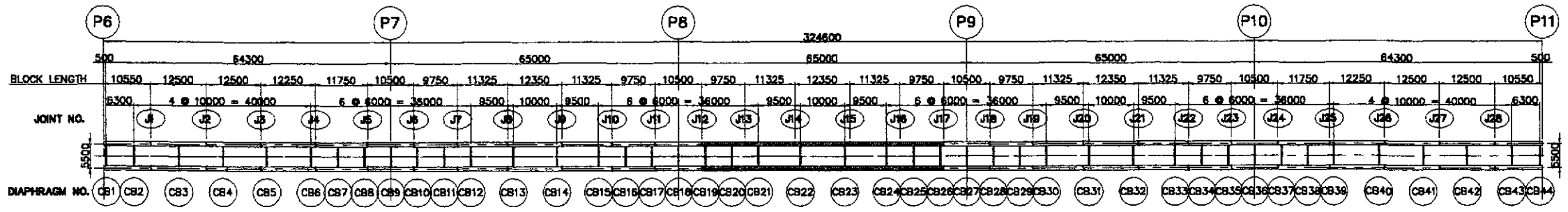
B KEY PLAN
SCALE 1:600

- NOTES:**
- STRUCTURAL STEEL SHALL BE SMA 490W/ GRADE S50 CONFORMING TO ASTM A 709M UNLESS OTHERWISE NOTED.
 - FOR STUD SHEAR DETAILS, SEE DWG. NO. B10M-05

| | | | | | | | | | |
|-----------|----------|--------------|--|---|---|---|-----------------------------------|--|-------------|
| | DESIGNED | DATE | SIGNATURE | REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS | PROJECT AND LOCATION : | | SCALE : | SHEET CONTENTS : | SHEET NO. : |
| | CHECKED | 10/17/02 | F. M. SALAS | | THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Paridel, Cabanatuan and San Jose Bypasses) | | AS SHOWN | BRIDGE NO. 10 PAMPANGA RIVER BRIDGE STIFFENER LAYOUT AND DETAILS (PIER 6 TO PIER 11) - 4 OF 5 (INITIAL STAGE) | B10M-12 |
| SUBMITTED | 10/19/02 | J. C. SANTOS | DANILLO C. TRAJANO Project Director | BUREAU OF DESIGN Reviewed By: ADRIANO M. DOROY Chief, Bridge Division | OFFICE OF THE SECRETARY Recommended By: GILBERTO S. REYES Director IV (OIC) | Approved By: MANUEL M. BONOAN Undersecretary | SIMEON A. DATUMANONG Secretary | FULL SIZE A1 | |



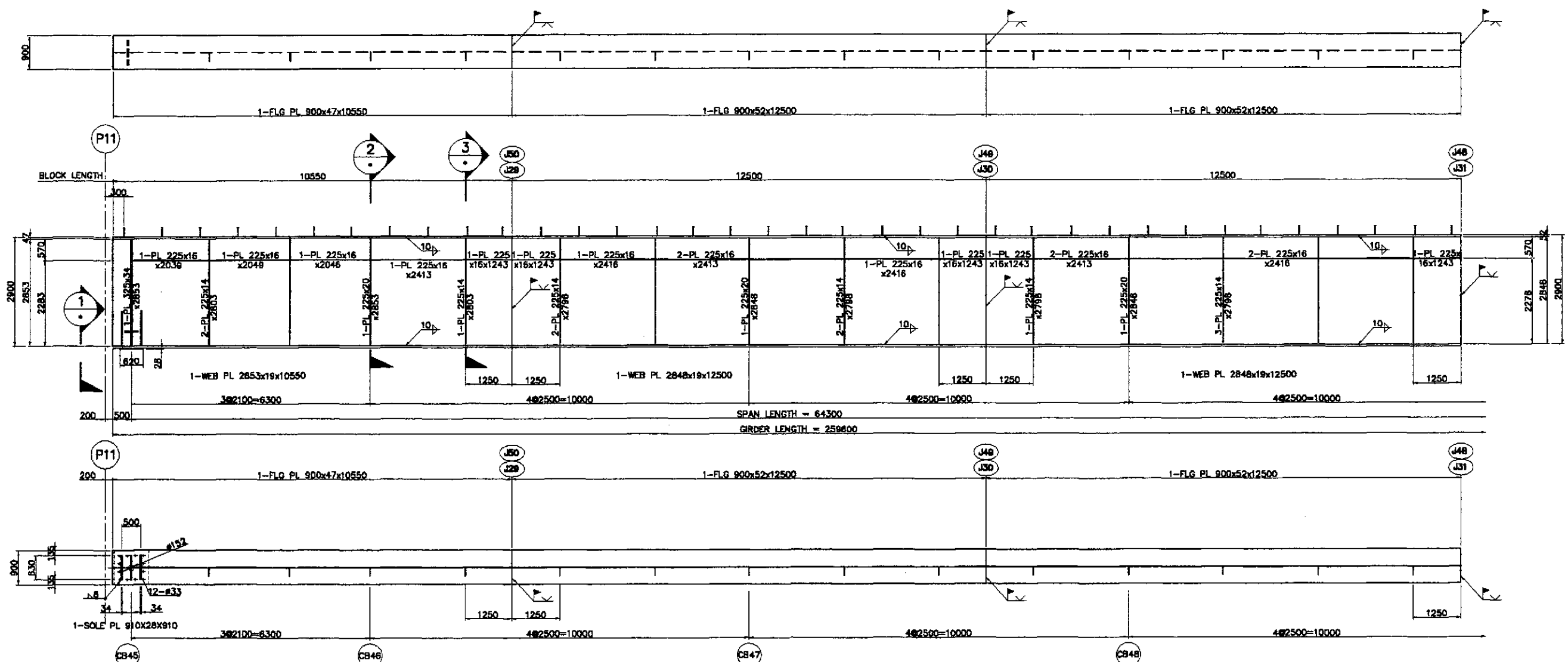
A STIFFENER LAYOUT AND DETAILS (P6-P11)
SCALE 1:60



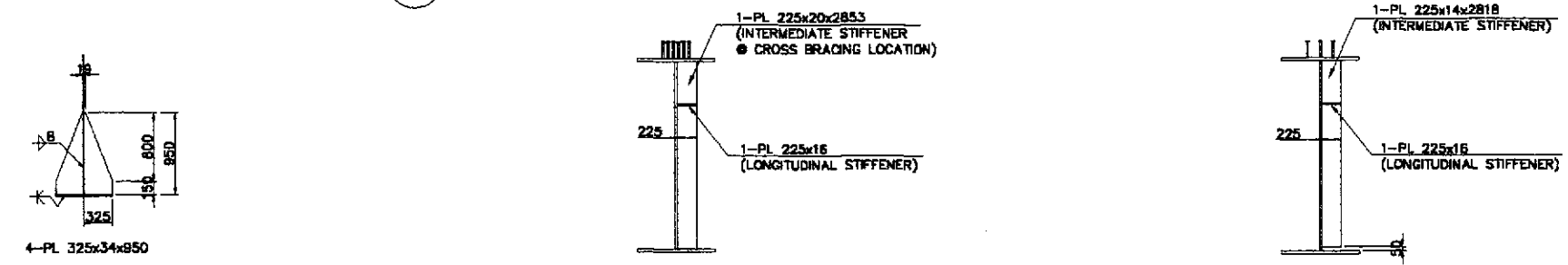
B KEY PLAN
SCALE 1:600

- NOTES:**
- STRUCTURAL STEEL SHALL BE SMA 480W/ GRADE 50W CONFORMING TO ASTM A 709M UNLESS OTHERWISE NOTED.
 - FOR STUD SHEAR DETAILS, SEE DWG. NO. B10M-05

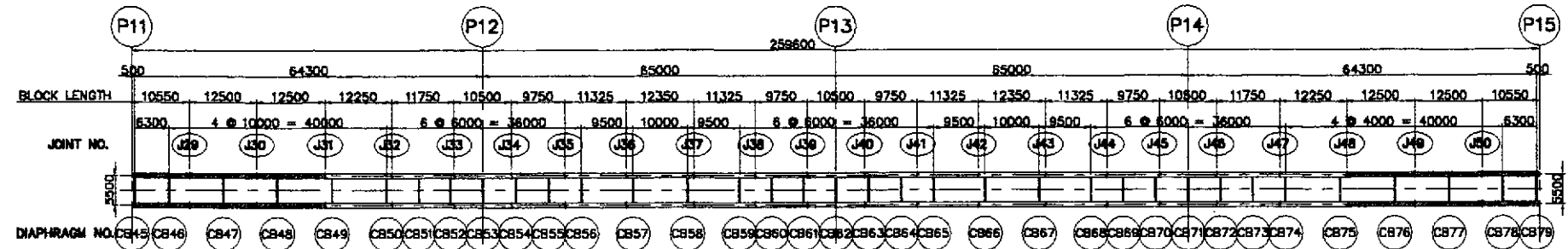
| | | | | | | |
|--|---|--|---|---|---|---|
| | | REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS | PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III | SCALE : AS SHOWN FULL SIZE A1 | SHEET CONTENTS : BRIDGE NO. 10 PAMPANGA RIVER BRIDGE STIFFENER LAYOUT AND DETAILS (PIER 6 TO PIER 11) - 5 of 5 (INITIAL STAGE) | SHEET NO. : B10M-13 |
| | DESIGNED: <i>[Signature]</i> CHECKED: <i>[Signature]</i> SUBMITTED: <i>[Signature]</i> | DATE: <i>10/1/02</i> SIGNATURE: <i>[Signature]</i> P.H.E. - P.M.D. DANLO C. TRAJANO Project Director | BUREAU OF DESIGN OFFICE OF THE SECRETARY Recommended By: <i>[Signature]</i> Approved By: <i>[Signature]</i> MANUEL M. BONGAN Undersecretary SMEON A. DATUMANONG Secretary | SCALE : AS SHOWN FULL SIZE A1 | SHEET CONTENTS : BRIDGE NO. 10 PAMPANGA RIVER BRIDGE STIFFENER LAYOUT AND DETAILS (PIER 6 TO PIER 11) - 5 of 5 (INITIAL STAGE) | SHEET NO. : B10M-13 |
| | JICA JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS YACHIYO ENGINEERING CO., LTD. | DANLO C. TRAJANO Project Director | ADRIANO M. DOROY Chief, Bridges Division GILBERTO S. REYES Director IV (OC) | PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III | SCALE : AS SHOWN FULL SIZE A1 | SHEET CONTENTS : BRIDGE NO. 10 PAMPANGA RIVER BRIDGE STIFFENER LAYOUT AND DETAILS (PIER 6 TO PIER 11) - 5 of 5 (INITIAL STAGE) |



A STIFFENER LAYOUT AND DETAILS (P11-P15)
SCALE 1:60



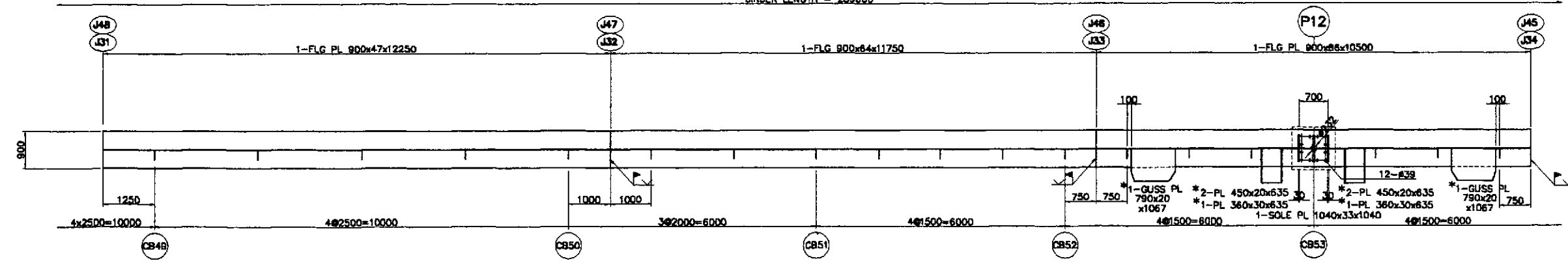
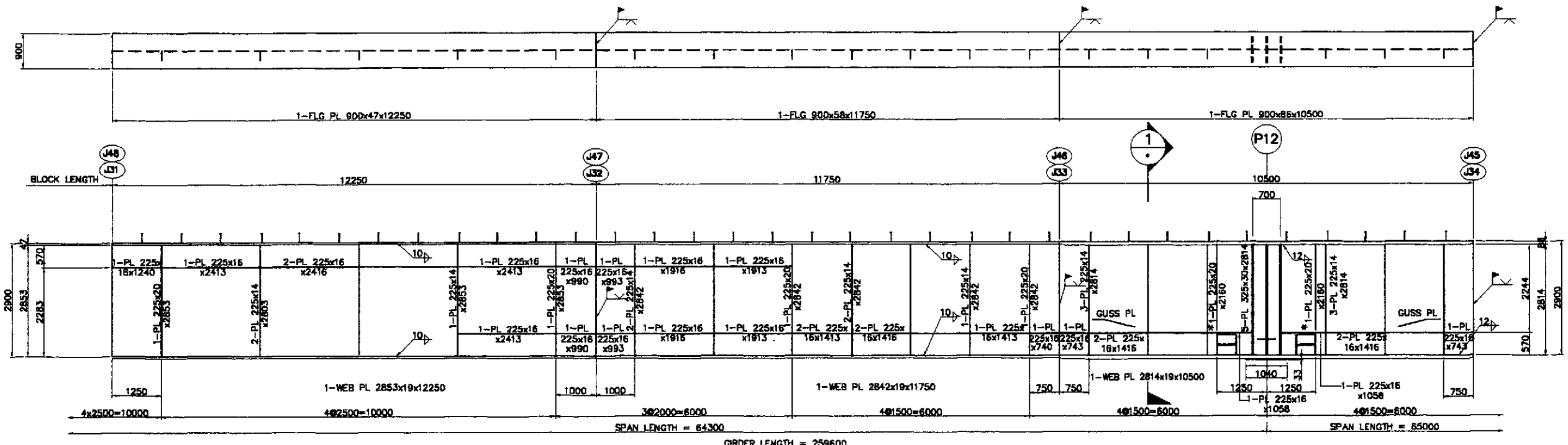
1 SECTION SCALE 1:40 **2 SECTION SCALE 1:40** **3 SECTION SCALE 1:40**



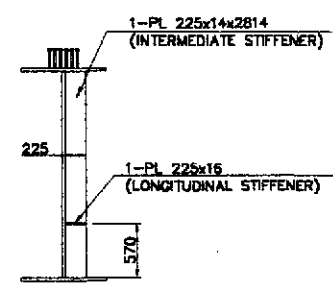
B KEY PLAN SCALE 1:600

- NOTES:**
- STRUCTURAL STEEL SHALL BE SMA 490W/ GRADE 50W CONFORMING TO ASTM A 709M UNLESS OTHERWISE NOTED.
 - FOR STUD SHEAR DETAILS, SEE DWG. NO. B10M-06

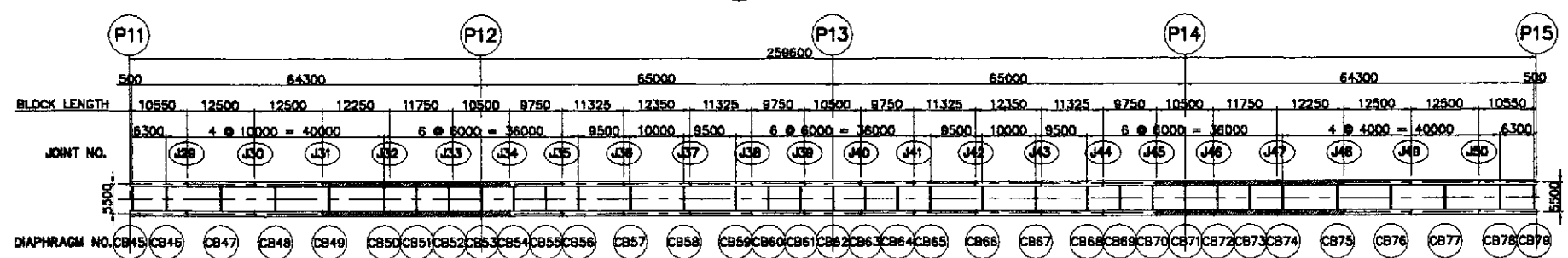
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|--|---|--|--|---|---|--|--|---|-------------------------------|
| | | REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS | | | | PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III | SCALE : AS SHOWN FULL SIZE A1 | SHEET CONTENTS : BRIDGE NO. 10 PAMPANGA RIVER BRIDGE STIFFENER LAYOUT AND DETAILS (PIER 11 TO PIER 15) - 1 OF 4 (INITIAL STAGE) | SHEET NO. : B10M-14 |
| | DESIGNED: 10/8/07 CHECKED: 11/17/07 SUBMITTED: 11/19/07 | SIGNATURE: F. L. SALAS J. C. SANTOS TEAM LEADER | BUREAU OF DESIGN Submitted By: DANILLO C. TRAJANO Project Director | OFFICE OF THE SECRETARY Reviewed By: ADRIANO M. DOROY Chief, Bridges Division | Recommended By: GILBERTO S. REYES Director IV (OC) | Approved By: MANUEL M. BONGAON Undersecretary | Approved By: SIMEON A. DATUMAHONG Secretary | | |
| | JICA JAPAN INTERNATIONAL COOPERATION AGENCY KATANIRA & ENGINEERS YEO YACHYO ENGINEERING CO., LTD. | | | | | | | | |



A STIFFENER LAYOUT AND DETAILS (P11-P15)
SCALE 1:60



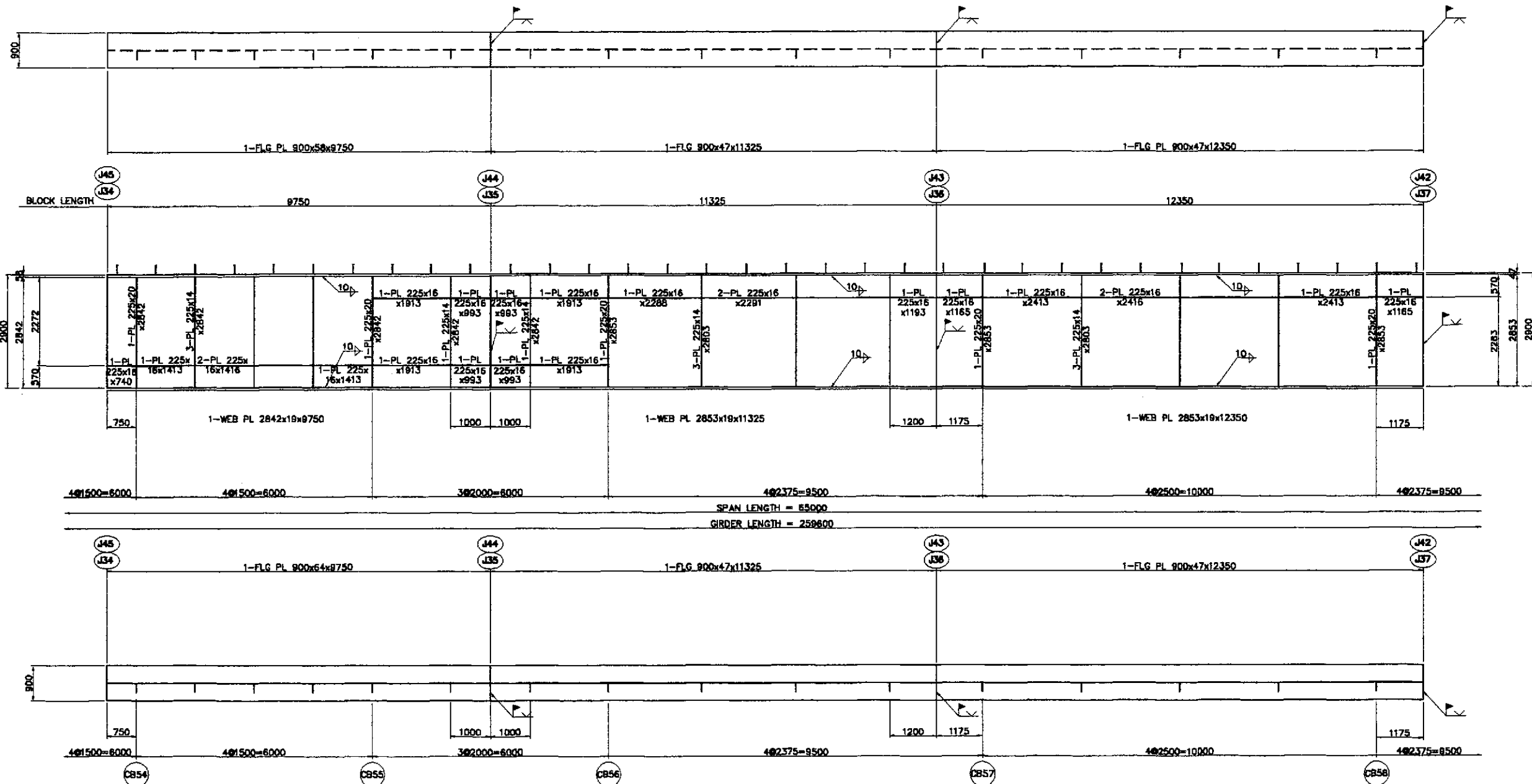
SECTION
SCALE 1:40



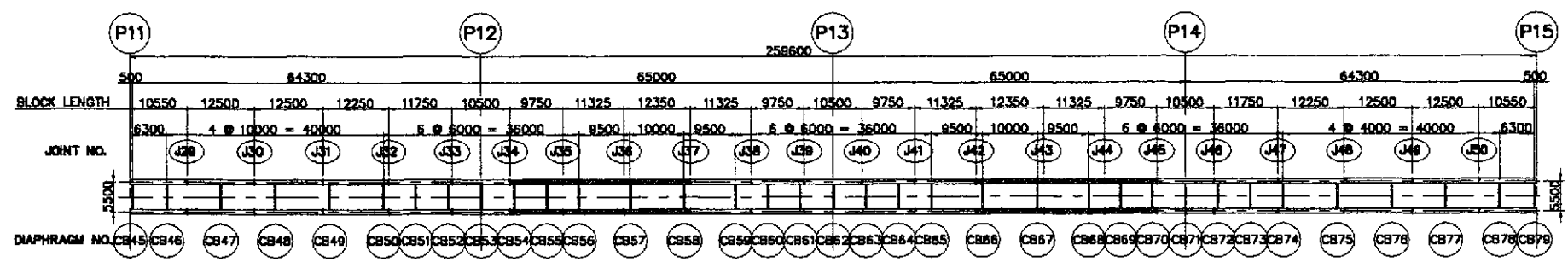
B KEY PLAN
SCALE 1:600

- NOTES:**
- STRUCTURAL STEEL SHALL BE SMA 490W/ GRADE 50W CONFORMING TO ASTM A 709M UNLESS OTHERWISE NOTED.
 - FOR STUD SHEAR DETAILS, SEE DWG. NO. B10M-06

| | | | | | | | | | |
|--|--|--|---|---|--|--|---|-------------------------------|--|
| | | REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS | | PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III | | SCALE : AS SHOWN FULL SIZE A1 | SHEET CONTENTS : BRIDGE NO. 10 PAMPANGA RIVER BRIDGE STIFFENER LAYOUT AND DETAILS (PIER 11 TO PIER 15) - 2 OF 4 (INITIAL STAGE) | SHEET NO. : B10M-15 | |
| | DESIGNED: 10/18/02 CHECKED: 10/17/02 SUBMITTED: 10/19/02 | SIGNATURE: [Signature] F. M. SALAS J. C. SANTOS TEAM LEADER | SUBMITTED BY: DANLO C. TRAJANO Project Director | REVIEWED BY: ADRIANO M. DOROY Chief, Bridges Division | RECOMMENDED BY: GILBERTO S. REYES Director IV (DC) | APPROVED BY: MANUEL M. BONGAN Undersecretary | | | |
| | JICA JAPAN INTERNATIONAL COOPERATION AGENCY | | | KATAHIRA & ENGINEERS YACHIYO ENGINEERING CO., LTD. | | | | | |



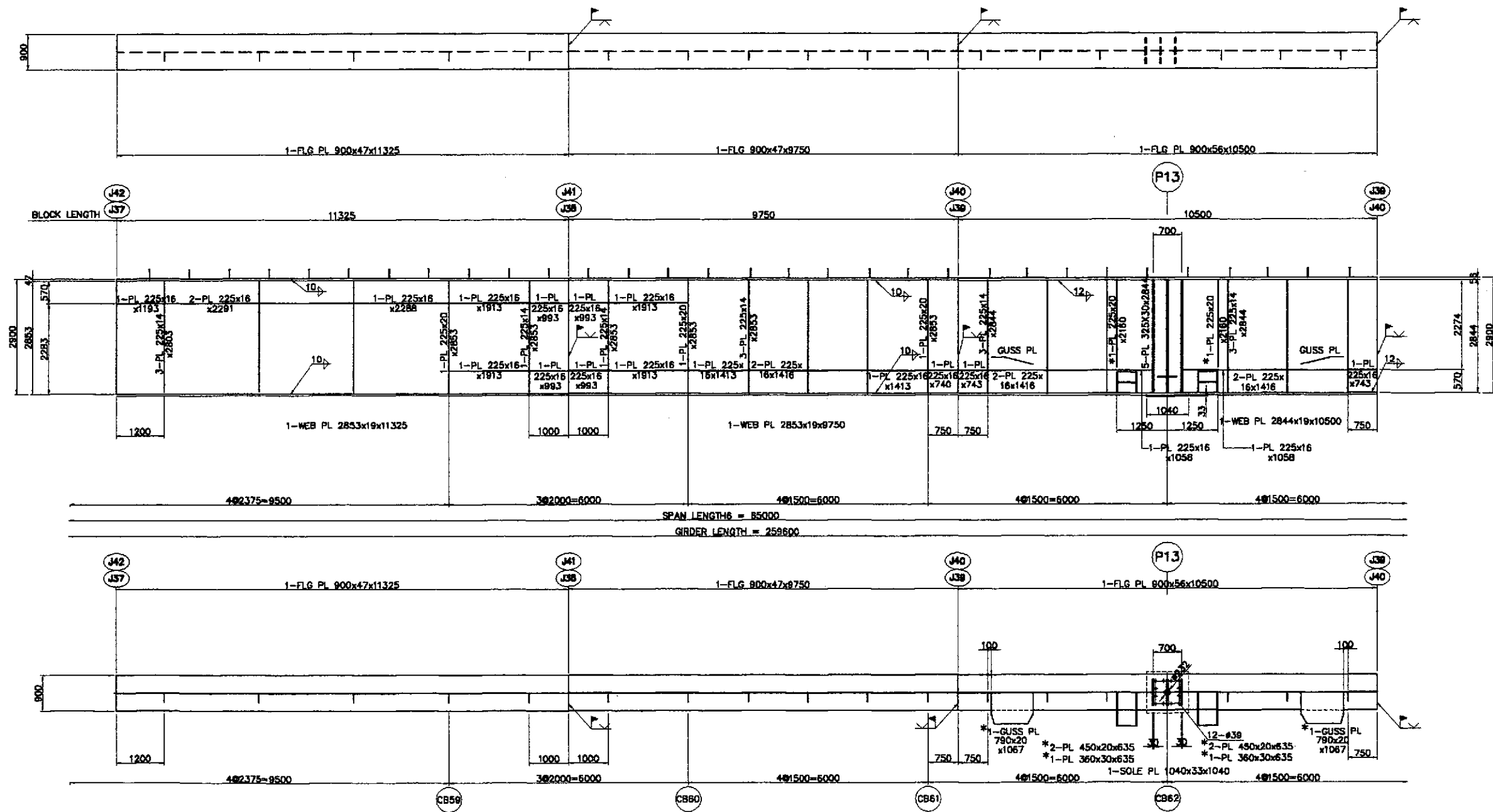
A STIFFENER LAYOUT AND DETAILS (P11-P15)
SCALE 1:60



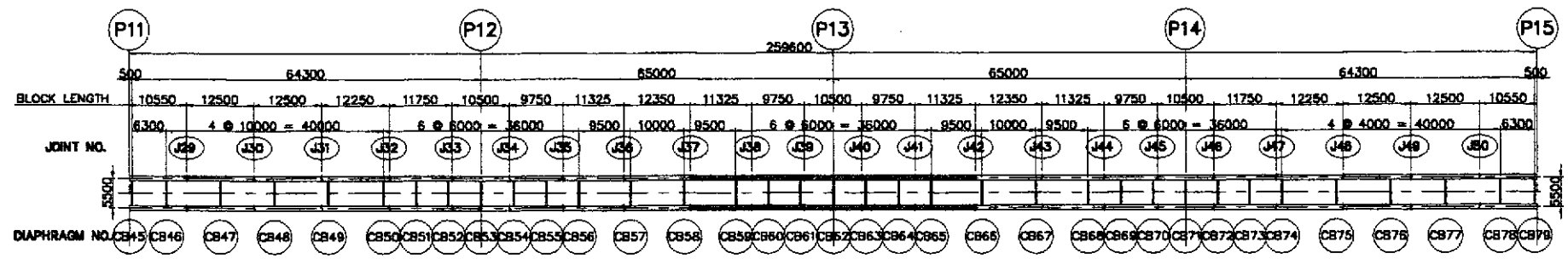
B KEY PLAN
SCALE 1:600

- NOTES:**
- STRUCTURAL STEEL SHALL BE SMA 490W/ GRADE 50W CONFORMING TO ASTM A 709M UNLESS OTHERWISE NOTED.
 - FOR STUD SHEAR DETAILS, SEE DWG. NO. B10M-06

| | | | | | | | | | | | |
|--|-----------|----------|---|--|--|---|---------------------------------------|---|-----------------------------------|---|-------------|
| | DESIGNED | 10/18/02 | F. M. SALAS | | REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS | | | PROJECT AND LOCATION : | SCALE : | SHEET CONTENTS : | SHEET NO. : |
| | CHECKED | 10/17/02 | J. SANTOS | | BUREAU OF DESIGN OFFICE OF THE SECRETARY | | | THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Pinaridel, Cabanatuan and San Jose Bypasses) | AS SHOWN | BRIDGE NO. 10 PAMPANGA RIVER BRIDGE STIFFENER LAYOUT AND DETAILS (PIER 11 TO PIER 15) - 3 OF 4 (INITIAL STAGE) | B10M-16 |
| | SUBMITTED | 10/19/02 | DANILO C. TRAJANO Project Director | | DANILO C. TRAJANO Project Director | ADRIANO M. DOROY Chief, Bridges Division | GILBERTO S. REYES Director IV (DC) | MANUEL M. BOMON Undersecretary | SIMEON A. DATUMANONG Secretary | FULL SIZE A1 | |



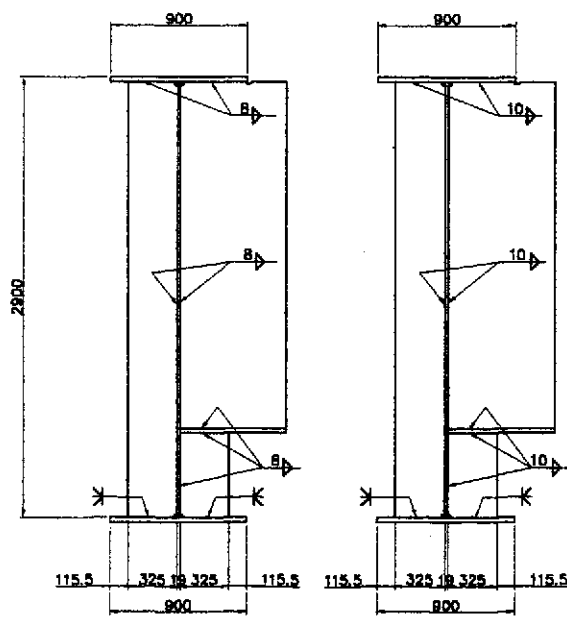
A STIFFENER LAYOUT AND DETAILS (P11-P15)
SCALE 1:60



B KEY PLAN
SCALE 1:600

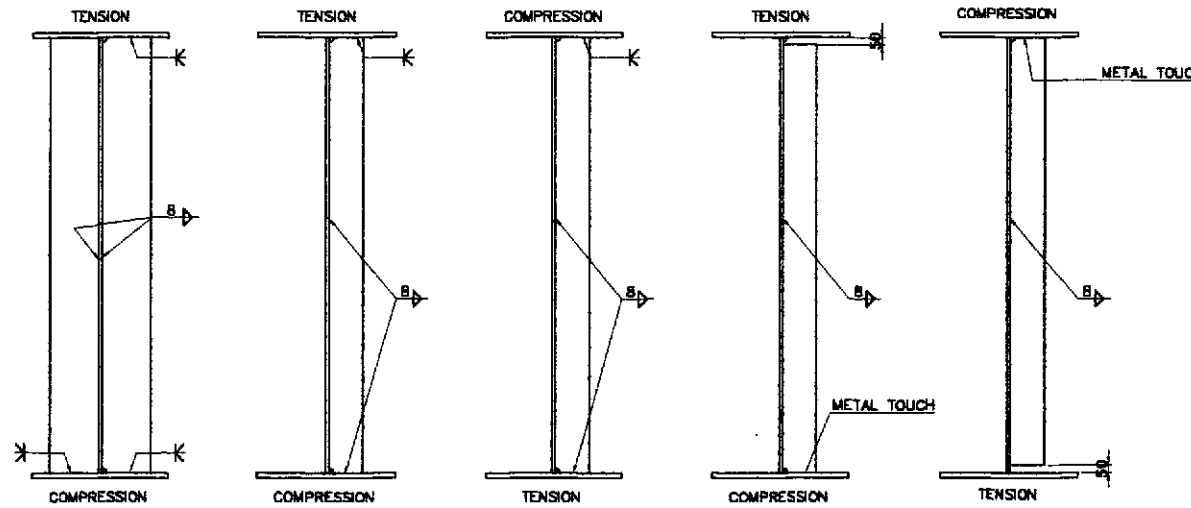
- NOTES:**
1. STRUCTURAL STEEL SHALL BE SMA 490W/ GRADE 50W CONFORMING TO ASTM A 709M UNLESS OTHERWISE NOTED.
 2. FOR STUD SHEAR DETAILS, SEE DWG. NO. B10M-06

| | | | | | | | | | |
|--|-----------|----------|-------------|--|---|--|--------------|---|-------------|
| | DESIGNED | DATE | SIGNATURE | <p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS</p> | PROJECT AND LOCATION : | | SCALE : | SHEET CONTENTS : | SHEET NO. : |
| | CHECKED | 10/19/02 | F. B. SALAS | | THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Pinaridel, Cabanatuan and San Jose Bypasses) | | AS SHOWN | BRIDGE NO. 10 PAMPANGA RIVER BRIDGE STIFFENER LAYOUT AND DETAILS (PIER 11 TO PIER 15) - 4 of 4 (INITIAL STAGE) | B10M-17 |
| | SUBMITTED | 10/19/02 | TEAM LEADER | | CABANATUAN BYPASS - CONTRACT PACKAGE III | | FULL SIZE A1 | | |
| <p>Submitted By: DANILO C. TRAJANO, Project Director</p> <p>Reviewed By: ADRIANO M. DOROY, Chief, Bridges Division</p> <p>Recommended By: GILBERTO S. REYES, Director IV (OC)</p> <p>Approved By: MANUEL M. BONDAN, Undersecretary</p> <p>Approved By: SIMEON A. DATUMANONG, Secretary</p> | | | | | | | | | |



EXTERIOR SUPPORT INTERIOR SUPPORT

1 BEARING STIFFENERS DETAIL
SCALE 1:25

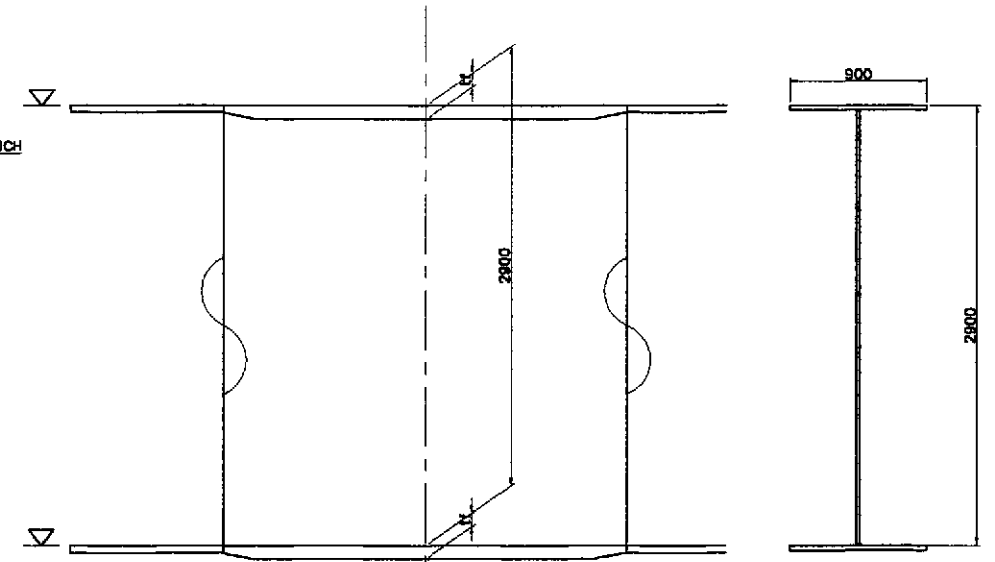


AT BEARING STIFFENER

AT CROSS-BRACING POSITION

AT INTERMEDIATE VERTICAL STIFFENER

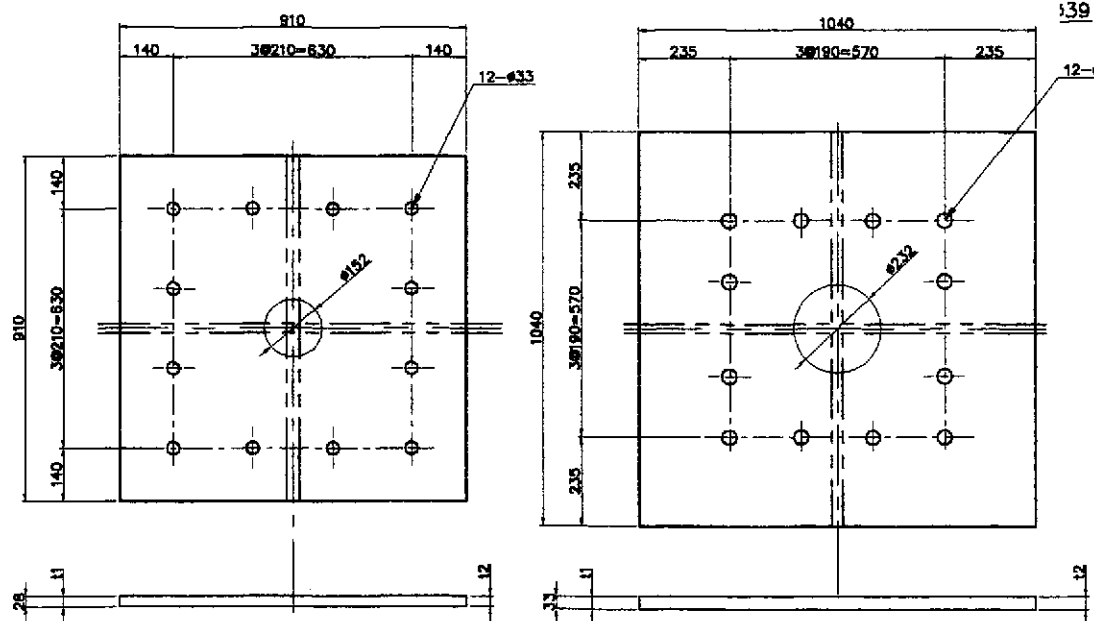
2 TRANSVERSE INTERMEDIATE STIFFENERS DETAIL
SCALE 1:6



NOTES:

1. THE DEPTH OF MAIN GIRDER, D=2800mm IS MEASURED FROM THE TOP OF TOP FLANGE TO THE TOP OF BOTTOM FLANGE.
2. VARIATION OF THE THICKNESS OF TOP FLANGE SHALL BE DONE ON THE LOWER SIDE. THE TOP OF TOP FLANGE SHALL HAVE ONE CONTINUOUS LINE.
3. VARIATION ON THICKNESS OF BOTTOM FLANGE SHALL ALSO BE DONE ON THE LOWER SIDE.

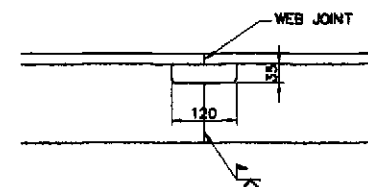
3 GIRDER WEB DETAIL
SCALE 1:6



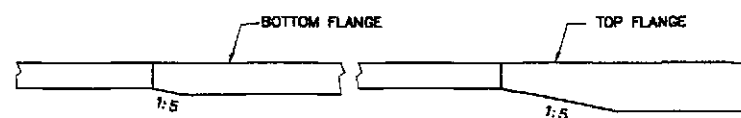
1-SOLE PL. 910x28x910 (P5, P11 & P15)

1-SOLE PL. 1040x33x1040 (P7-P10, P12-P14)

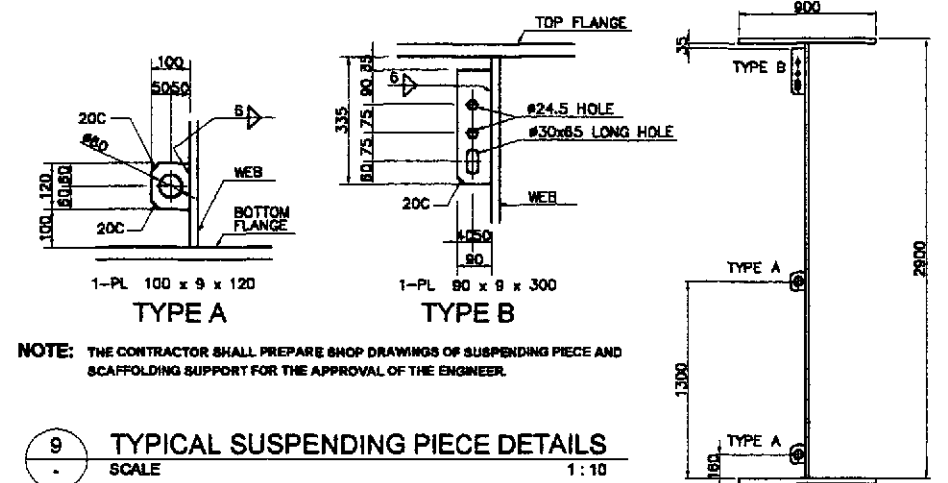
4 SOLE PLATE DETAIL
SCALE 1:10



5 LONGITUDINAL STIFFENER CONNECTION DETAIL
SCALE 1:6



6 FLANGE WELD CONNECTION DETAIL
SCALE 1:6



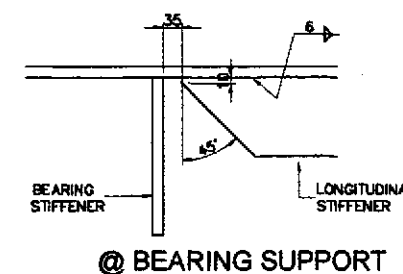
NOTE: THE CONTRACTOR SHALL PREPARE SHOP DRAWINGS OF SUSPENDING PIECE AND SCAFFOLDING SUPPORT FOR THE APPROVAL OF THE ENGINEER.

9 TYPICAL SUSPENDING PIECE DETAILS
SCALE 1:10

8 SUSPENDING PIECE LOCATION
SCALE 1:25

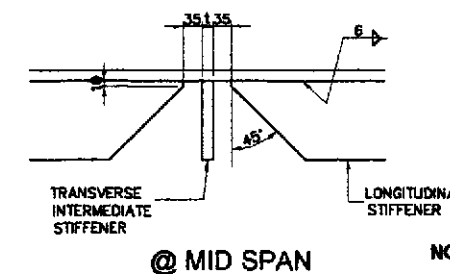
SCHEDULE OF SOLE PLATE THICKNESS

| LOCATION | 11 | 12 |
|----------|------|------|
| PIER 6 | 28 | 30.7 |
| PIER 7 | 33 | 36.1 |
| PIER 8 | 35 | 36.1 |
| PIER 9 | 33 | 36.1 |
| PIER 10 | 33 | 36.1 |
| PIER 11 | 28 | 28 |
| PIER 12 | 36.1 | 33 |
| PIER 13 | 36.1 | 33 |
| PIER 14 | 36.1 | 33 |
| PIER 16 | 30.7 | 28 |



@ BEARING SUPPORT

7 END OF LONGITUDINAL STIFFENER DETAIL
SCALE NTS

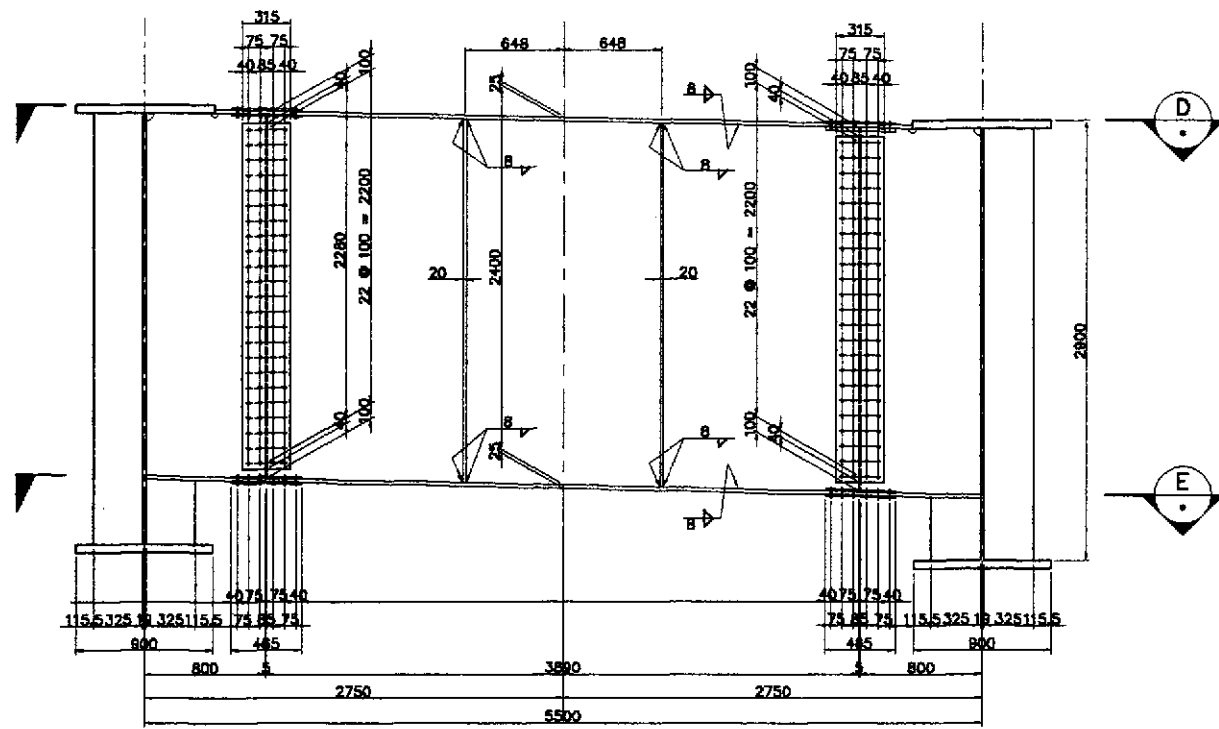


@ MID SPAN

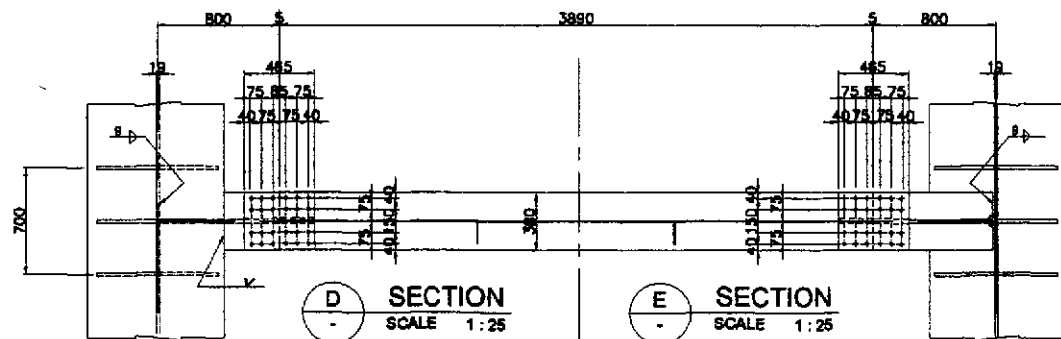
NOTES:

1. MAIN GIRDER STEEL SHALL BE SMA490W/GRADE 50W CONFORMING TO ASTM A 709M UNLESS OTHERWISE NOTED.
2. ALL OTHER STRUCTURAL STEEL SHALL BE SMA400W/GRADE 36W CONFORMING TO ASTM A 709M UNLESS OTHERWISE NOTED.

A STIFFENER DETAILS
SCALE AS SHOWN

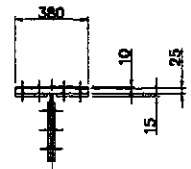


A EXTERIOR (INTERIOR) SUPPORT DIAPHRAGM DETAILS
SCALE 1:25



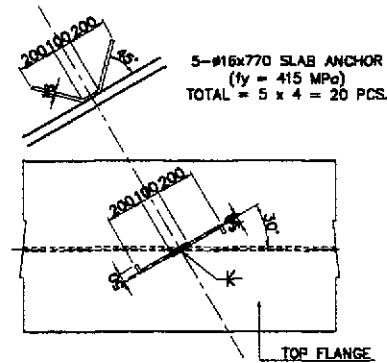
- D** SECTION SCALE 1:25
 1-FLG PL 380x25x350
 1-WEB PL 2400x34x790 (2400x30x790)
 1-FLG PL 380x25x790
 1-RIB PL 325x34x425 (325x30x425)
- E** SECTION SCALE 1:25
 1-FLG PL 380x25x350
 1-WEB PL 2400x34x790 (2400x30x790)
 1-FLG PL 380x25x790
 1-RIB PL 325x34x425 (325x30x425)

NOTE : VALUES IN PARENTHESIS ARE FOR PIERS P7, P8, P9, P10, P12, P13 & P14.
 STANDARD VALUES ARE FOR PIERS P6, P11 & P15.



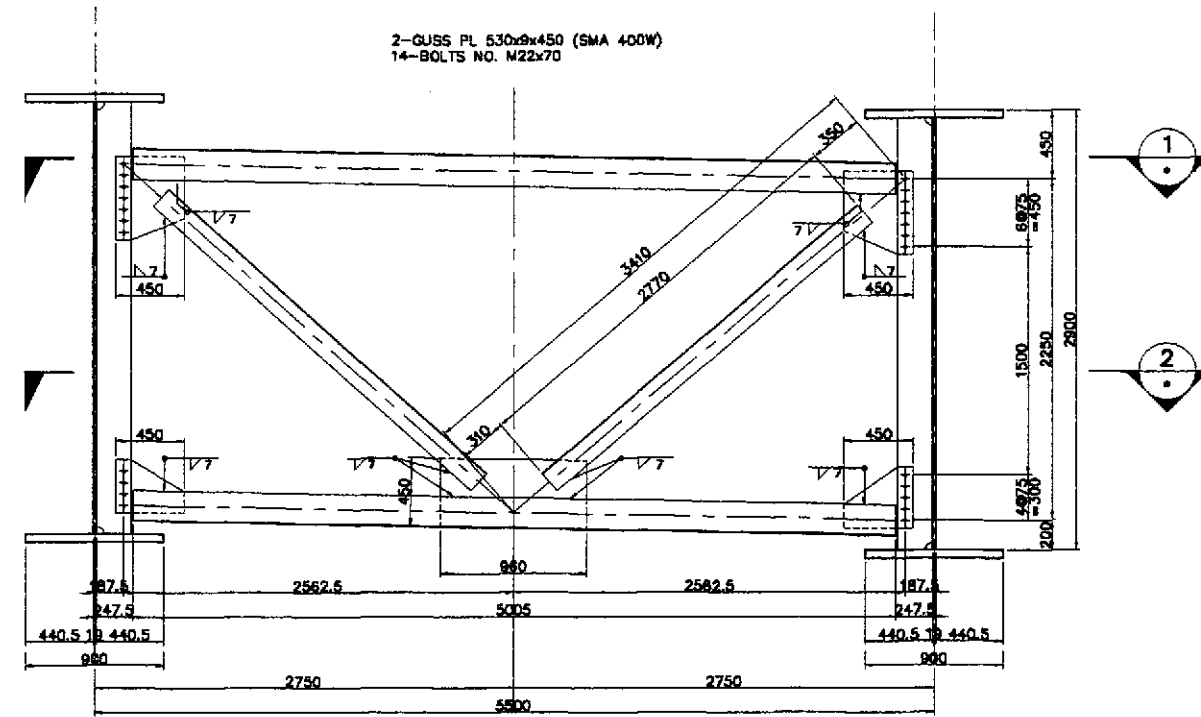
- 1-FLG PL 380x25x3890
 1-WEB PL 2400x16x3890 (2400x15x3890)
 1-FLG PL 380x25x3890
 2-V. STIFF PL 170x20x2400
 4-SPL PL 380x10x465
 8-SPL PL 155x15x465
 96-BOLTS M22x85
 4-SPL PL 2280x8x315
 4-FILL PL 2280x8x155 (2280x8x155)
 184-BOLTS M22x80

B TOP & BOTTOM CONNECTION
SCALE 1:25



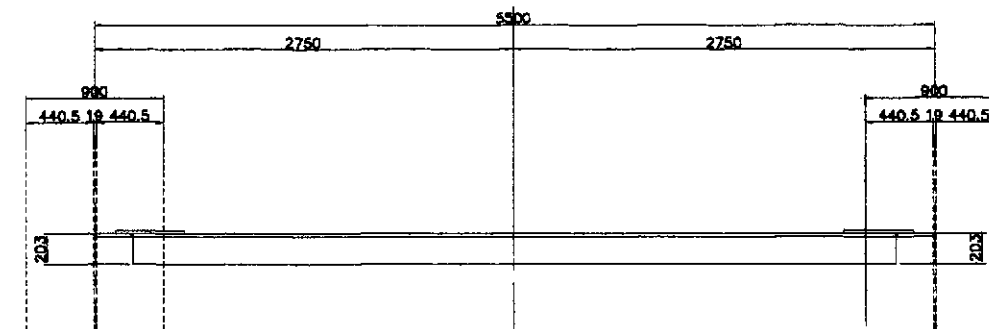
NOTE : PROVIDE 5 PCS. OF SLAB ANCHOR AT TOP FLANGE OF EXTERIOR SUPPORT DIAPHRAGM FOR CAST-IN-PLACE SLAB.

F SLAB ANCHOR DETAILS
SCALE 1:20



- 2-GUSS PL 630x9x450 (SMA 400W)
 14-BOLTS NO. M22x70
- 2-L 200x200x22.0x5005 (SMA 400W)
 2-L 150x150x18.0x2770 (SMA 400W)
 1-GUSS PL 450x9x960 (SMA 400W)
- 1-GUSS PL 380x9x450 (SMA 400W)
 5-BOLTS NO. M22x70
- 1-GUSS PL 380x9x450 (SMA 400W)
 5-BOLTS NO. M22x70

C INTERMEDIATE CROSS BRACING DETAILS
SCALE 1:25



1 SECTION SCALE 1:25

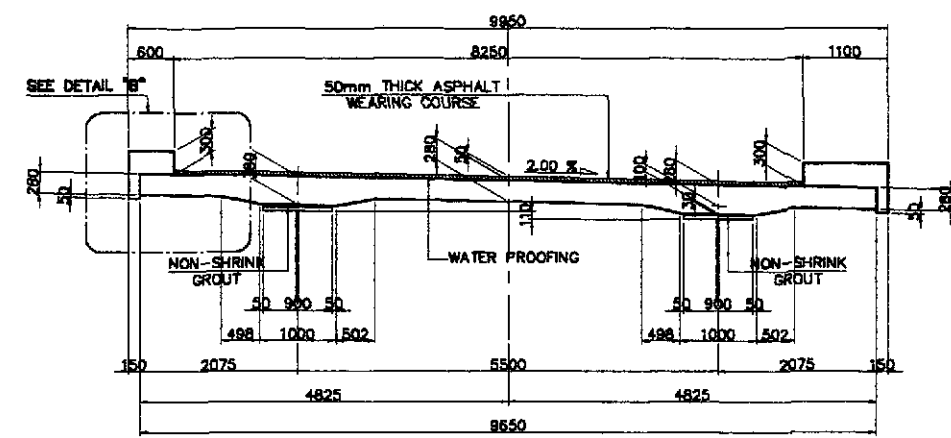
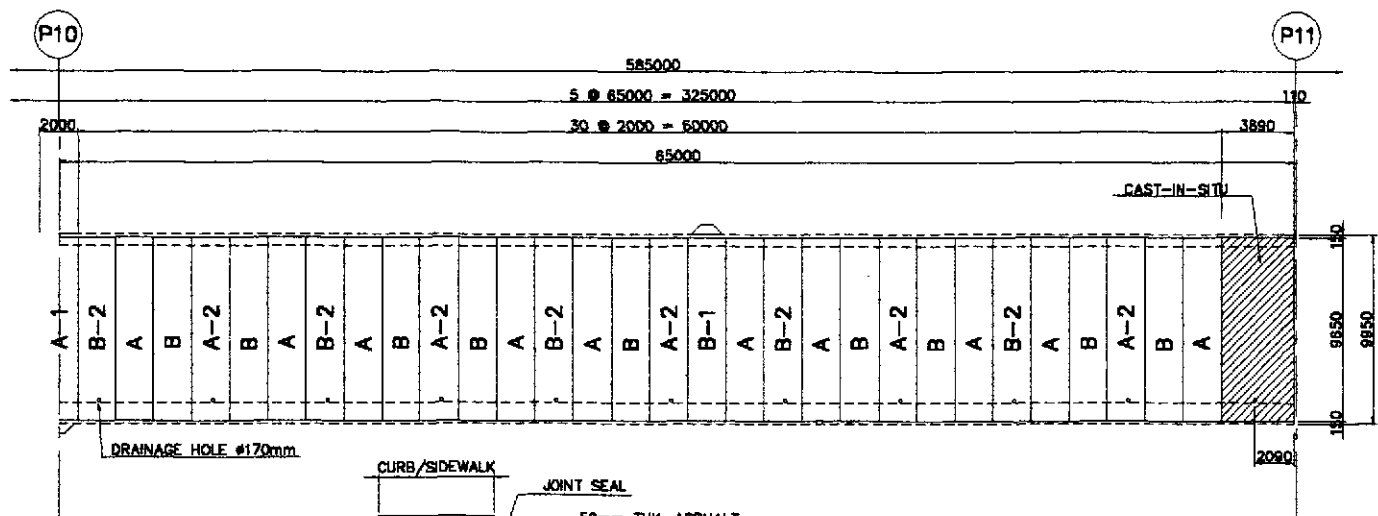
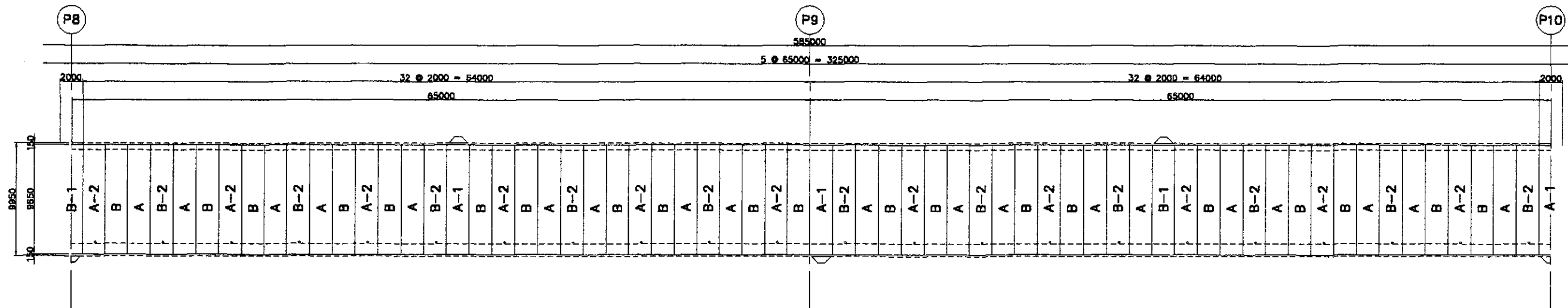
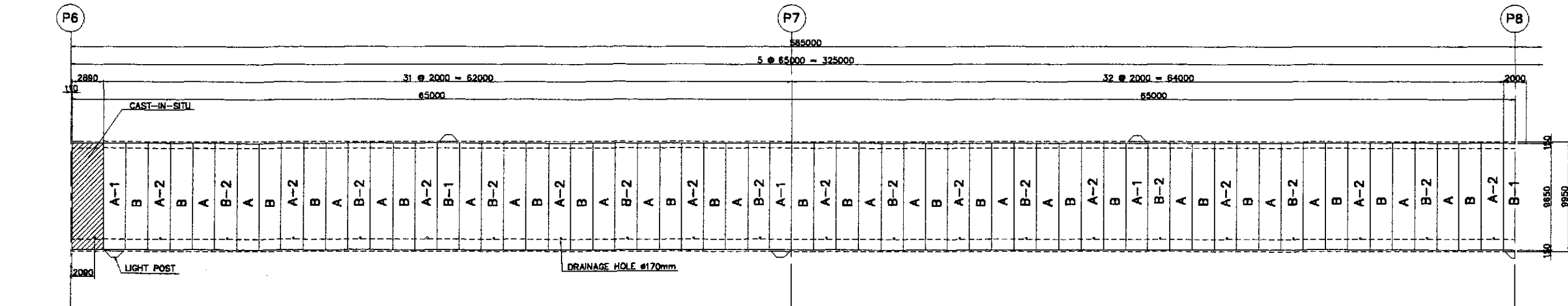
2 SECTION SCALE 1:25

1 DETAIL OF CROSS BEAMS
SCALE AS SHOWN

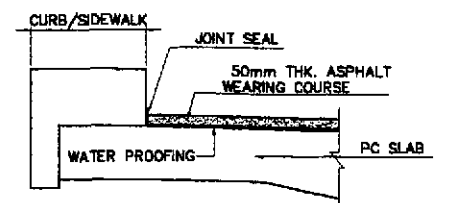
- NOTE :
- ALL STEEL SHALL BE SMA490W OR GRADE 50W CONFORMING TO ASTM A 708M UNLESS OTHERWISE NOTED.
 - ALL BOLTS SHALL BE HIGH STRENGTH BOLTS CONFORMING TO ASTM A490M.
 - ALL "L" SHADED STEEL SHALL BE CONFORMING TO SMA 400W/ASTM A36W (CORROSION RESISTANT) UNLESS OTHERWISE NOTED.
 - STUD SHEAR DETAIL - SEE DRAWINGS "STUD SHEAR LAYOUT" WITH ASTM A 108 FOR STUD SHEAR DETAIL.
 - TRANSVERSE RESTRAINER - SEE DRAWINGS "TRANSVERSE RESTRAINER"

| | | | | | | | | | | | | | | |
|-----------|----------|-------------|--------------------------------------|--------------|--|------------------|---------------------------------------|--|-------------------------------------|--|-----------------------------------|--|--------------|--|
| | DESIGNED | DATE | SIGNATURE | | REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS | | | | | PROJECT AND LOCATION : | SCALE : | SHEET CONTENTS : | SHEET NO. : | |
| | CHECKED | 10/17/02 | F. M. SALAS | | Submitted By: | BUREAU OF DESIGN | OFFICE OF THE SECRETARY | THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) | AS SHOWN | BRIDGE NO. 10 PAMPANGA RIVER BRIDGE DETAIL OF DIAPHRAGMS OR CROSS BEAMS (INITIAL STAGE) | B10M-19 | | | |
| SUBMITTED | 10/19/02 | TEAM LEADER | DANLO C. TRAJANO Project Director | Reviewed By: | ADRIANO M. DOROY Chief, Bridges Division | Recommended By: | GILBERTO S. REYES Director IV (OC) | Recommended By: | MANUEL M. BONONAN Undersecretary | Approved By: | SIMEON A. DATUMANONG Secretary | CABANATUAN BYPASS - CONTRACT PACKAGE III | FULL SIZE A1 | |

SUPERSTRUCTURE - PC SLAB



| TYPE | NO. | REMARKS |
|-------|-----|------------------|
| A | 47 | TYPICAL |
| A-1 | 6 | W/ LIGHT POST |
| A-2 | 27 | W/ DRAINAGE HOLE |
| B | 48 | TYPICAL |
| B-1 | 4 | W/ LIGHT POST |
| B-2 | 26 | W/ DRAINAGE HOLE |
| TOTAL | 158 | |

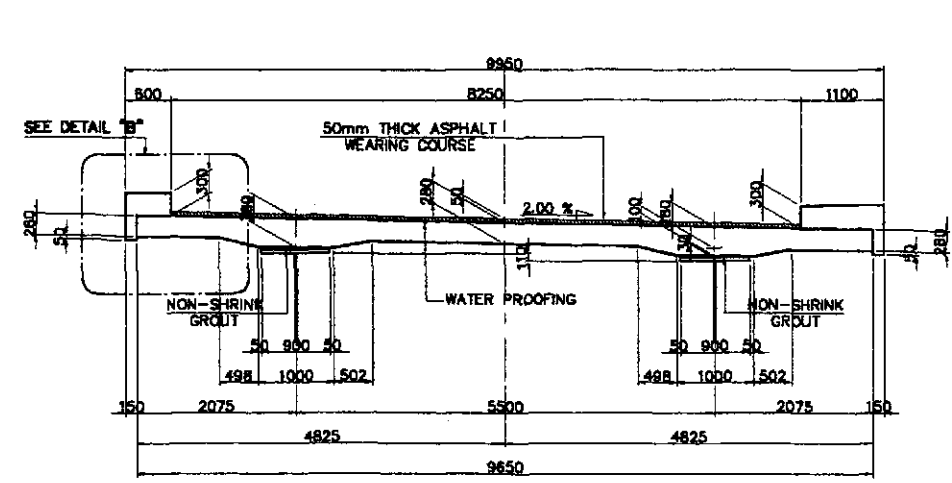
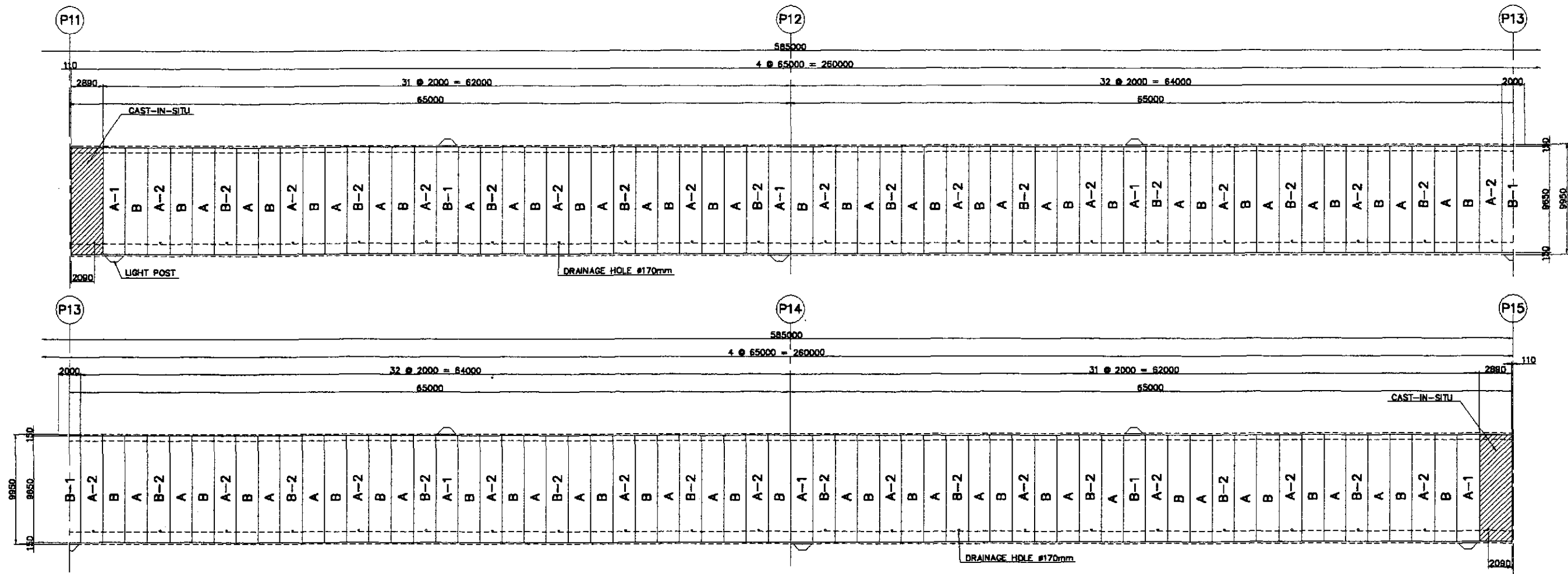


1 DECK SLAB LAYOUT PLAN (PIER 6 TO PIER 11)
SCALE 1:200

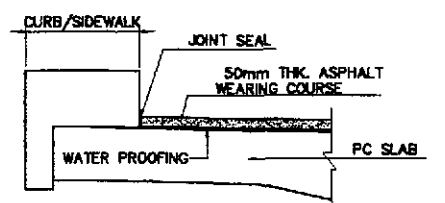
B DECK WATER PROOFING DETAILS
SCALE 1:20

NOTE:
1. PROVIDE #170mm HOLES TO FIT #150mm DRAINAGE PIPES. THE CONTRACTOR SHOULD PROVIDE SEAL TO FIT THE DRAINAGE PIPES TO THE HOLE PROVIDED.
2. DECK SLAB WATER PROOFING AS DISCUSSED IN THE SPECIFICATIONS SHALL BE APPLIED TO THE CONCRETE SLAB FOR THE MAIN BRIDGE PRIOR TO ASPHALT WEARING COURSE.
WATER PROOFING AREA = 2882 Sq.M.

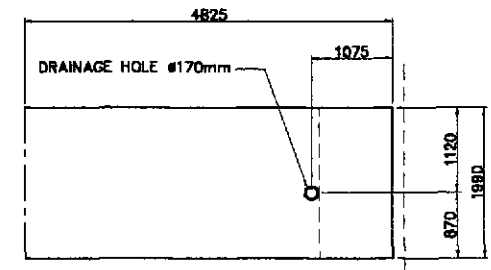
| | | | | | | | | | | | |
|--|-----------|----------|--------------|-------------------|---|-------------------|---|--|---|---------------------------|-----------------|
| | DESIGNED | DATE | SIGNATURE | | REPUBLIC OF THE PHILIPPINES | | PROJECT AND LOCATION: THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III | SCALE: AS SHOWN FULL SIZE A1 | SHEET CONTENTS: BRIDGE NO. 10 PAMPANGA RIVER BRIDGE PC SLAB LAYOUT PLAN (PIER 6 TO PIER 11) (INITIAL STAGE) | SHEET NO.: B10M-31 | |
| | CHECKED | 10/17/02 | F. M. SALAS | | DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS | | | | | | |
| | SUBMITTED | 10/19/02 | M. RODRIGUEZ | | Submitted By: | Reviewed By: | | | | | Recommended By: |
| | | | | DANILO C. TRAJANO | ADRIANO M. DORAY | GILBERTO S. REYES | MANUEL M. BONOGAN | SIMEON A. DATUMANONG | | | |



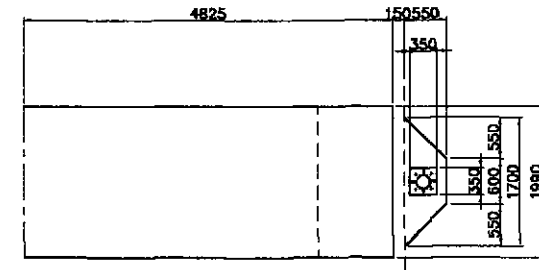
A TYPICAL SECTION
SCALE 1:50



B DECK WATER PROOFING DETAILS
SCALE 1:20



C WITH DRAINAGE HOLE
SCALE 1:50



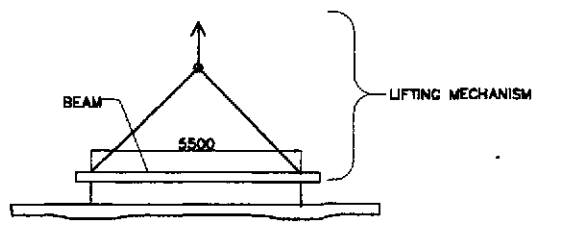
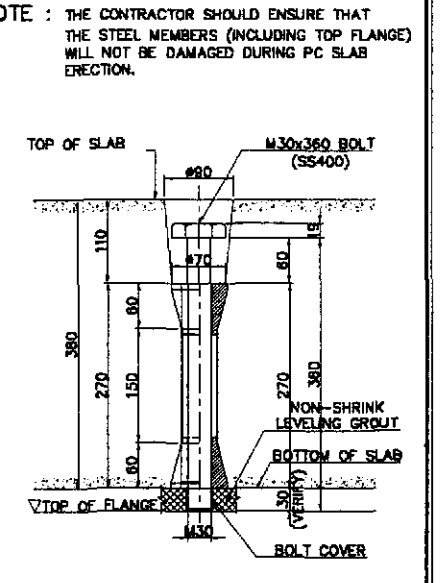
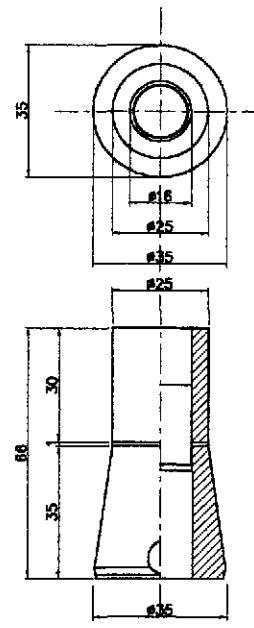
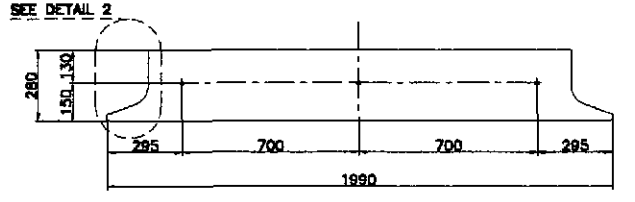
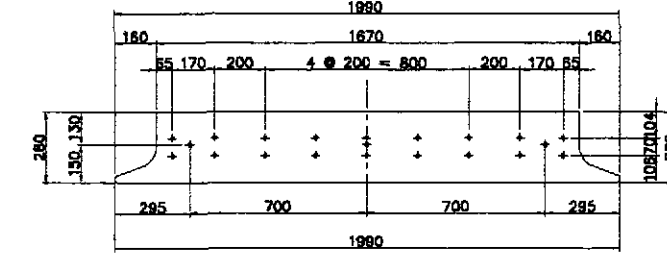
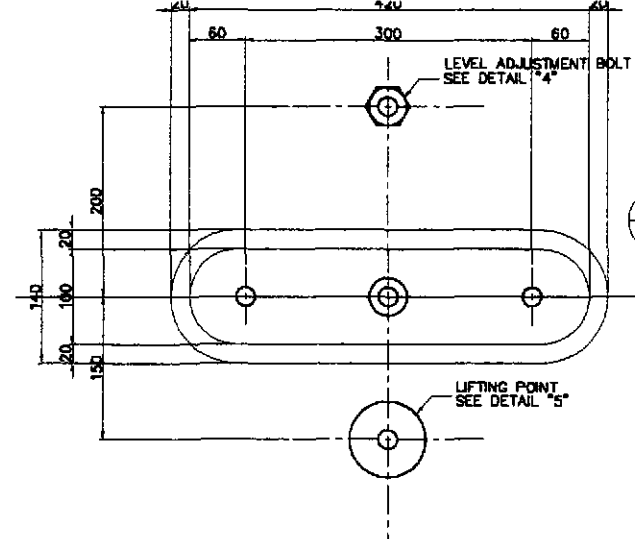
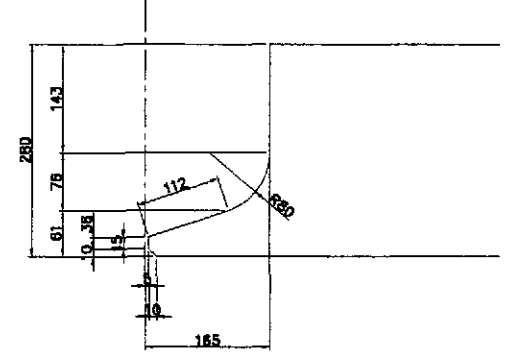
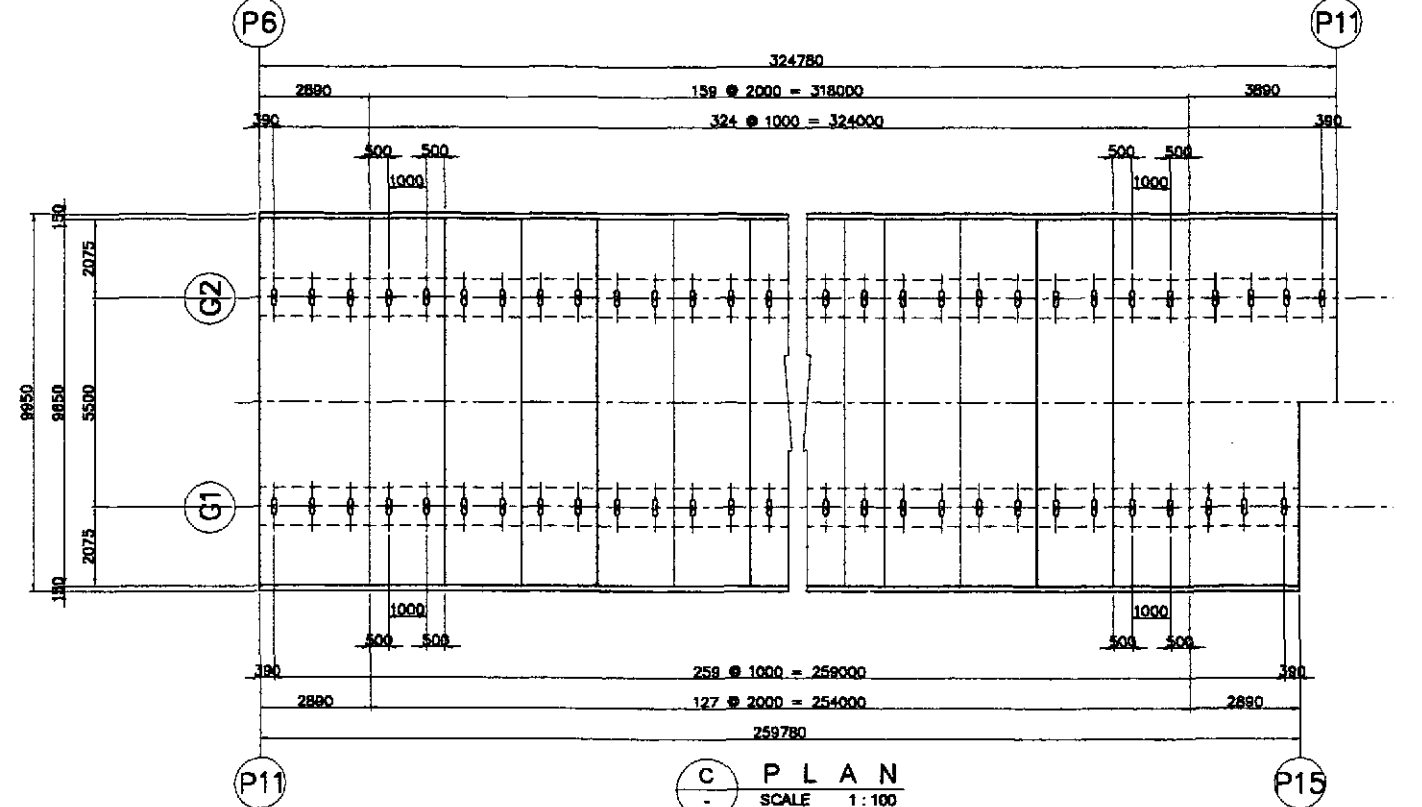
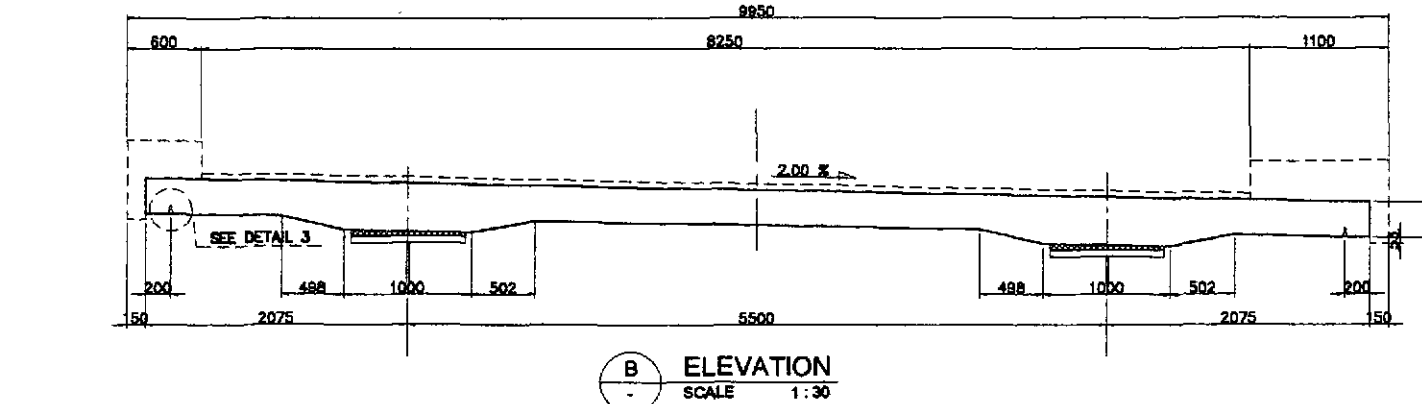
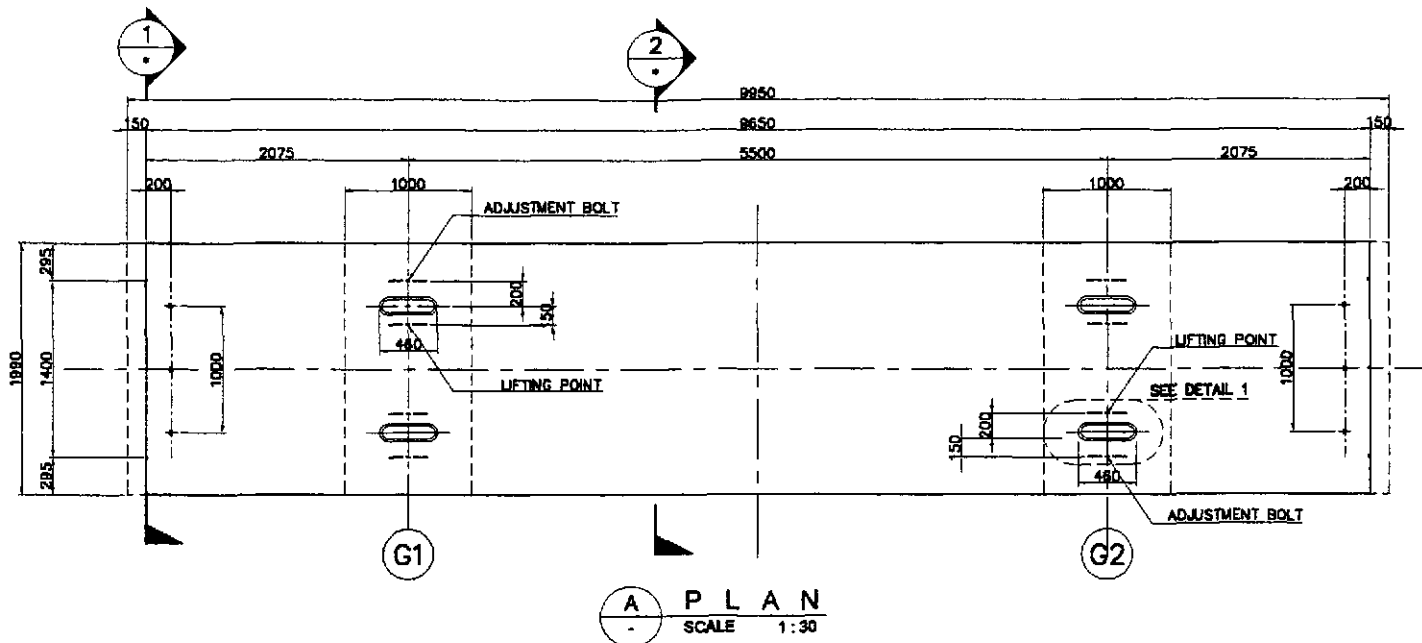
D WITH LIGHT POST
SCALE 1:50

| TYPE | NO. | REMARKS |
|-------|-----|------------------|
| A | 36 | TYPICAL |
| A-1 | 6 | W/ LIGHT POST |
| A-2 | 22 | W/ DRAINAGE HOLE |
| B | 40 | TYPICAL |
| B-1 | 3 | W/ LIGHT POST |
| B-2 | 20 | W/ DRAINAGE HOLE |
| TOTAL | 127 | |

- NOTE:
- PROVIDE #170mm HOLES TO FIT #150mm DRAINAGE PIPES. THE CONTRACTOR SHOULD PROVIDE SEAL TO FIT THE DRAINAGE PIPES TO THE HOLE PROVIDED.
 - DECK SLAB WATER PROOFING AS DISCUSSED IN THE SPECIFICATIONS SHALL BE APPLIED TO THE CONCRETE SLAB FOR THE MAIN BRIDGE PRIOR TO ASPHALT WEARING COURSE.
WATER PROOFING AREA = 2145 Sq.M.

1 DECK SLAB LAYOUT PLAN (PIER 11 TO PIER 15)
SCALE 1:200

| | | | | | | | | |
|--|-----------|----------|--------------------|--|---|--------------|---|-------------|
| | DESIGNED | DATE | SIGNATURE | REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS | PROJECT AND LOCATION : | SCALE : | SHEET CONTENTS : | SHEET NO. : |
| | CHECKED | 10/17/02 | <i>[Signature]</i> | BUREAU OF DESIGN Submitted By: DANILLO C. TRAJANG Project Director | THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Paridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III | AS SHOWN | BRIDGE NO. 10 PAMPANGA RIVER BRIDGE PC SLAB LAYOUT PLAN (PIER 11 TO PIER 15) (INITIAL STAGE) | B10M-32 |
| | SUBMITTED | 10/19/02 | <i>[Signature]</i> | OFFICE OF THE SECRETARY Recommended By: GILBERTO S. REYES Director IV (OC) | Approved By: SIMON A. DATUMANONG Secretary | FULL SIZE A1 | | |



WT. OF SLAB PANEL=20 TONS (APPROX.)

NOTE :

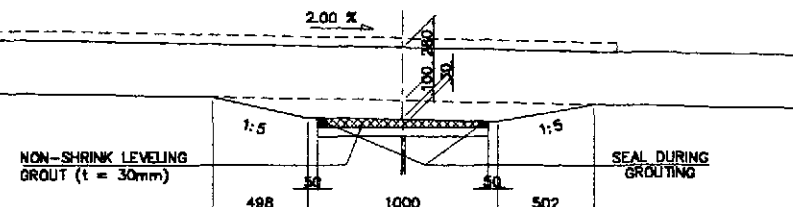
1. THE DESIGN OF THE LIFTING MECHANISM MUST BE DONE BY THE CONTRACTOR, TO BE APPROVED BY THE ENGINEER.
2. CARE SHOULD BE TAKEN SO AS NOT TO DAMAGE THE PRECAST SLAB DURING STORAGE, TRANSPORTATION AND ERECTION. DAMAGES THAT MAY AFFECT THE STRUCTURAL INTEGRITY OF THE SLAB WILL BE GROUND FOR REJECTION BY THE ENGINEER.

JICA
JAPAN INTERNATIONAL COOPERATION AGENCY

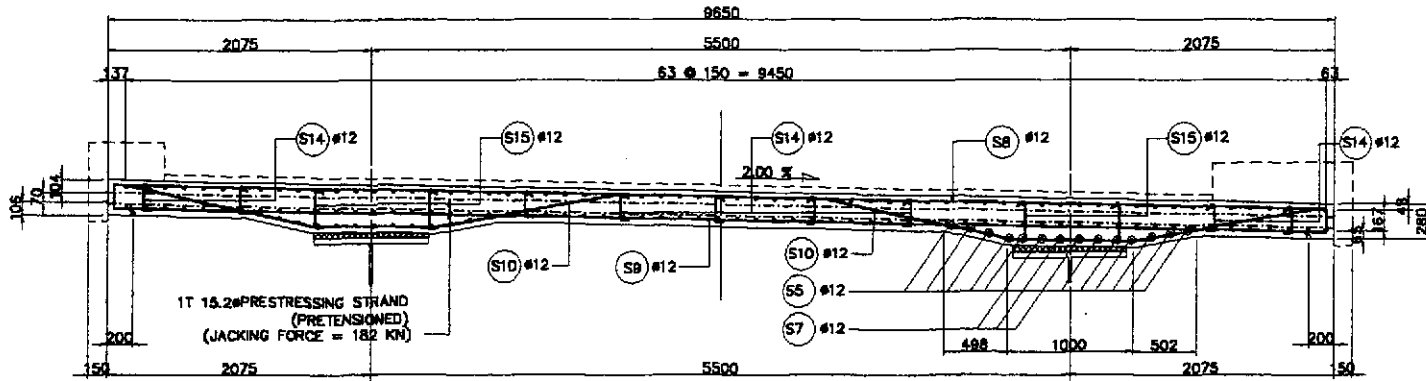
KATAHIRA & ENGINEERS INTERNATIONAL
YEO YACHYO ENGINEERING CO., LTD.

| DESIGNED | DATE | SIGNATURE | REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS | | |
|-----------|----------|-------------|--|--|---------------------------------------|
| 10/18/02 | 10/17/02 | F. M. SILAS | BUREAU OF DESIGN | | |
| CHECKED | | | OFFICE OF THE SECRETARY | | |
| SUBMITTED | | | | | |
| | | | DANIL C. TRAJANO Project Director | ADRIANO M. DORAY Chief, Bridge Division | GILBERTO S. REYES Director IV (DC) |
| | | | | MANUEL M. BONGAN Undersecretary | SIMEON A. DATUMANONG Secretary |

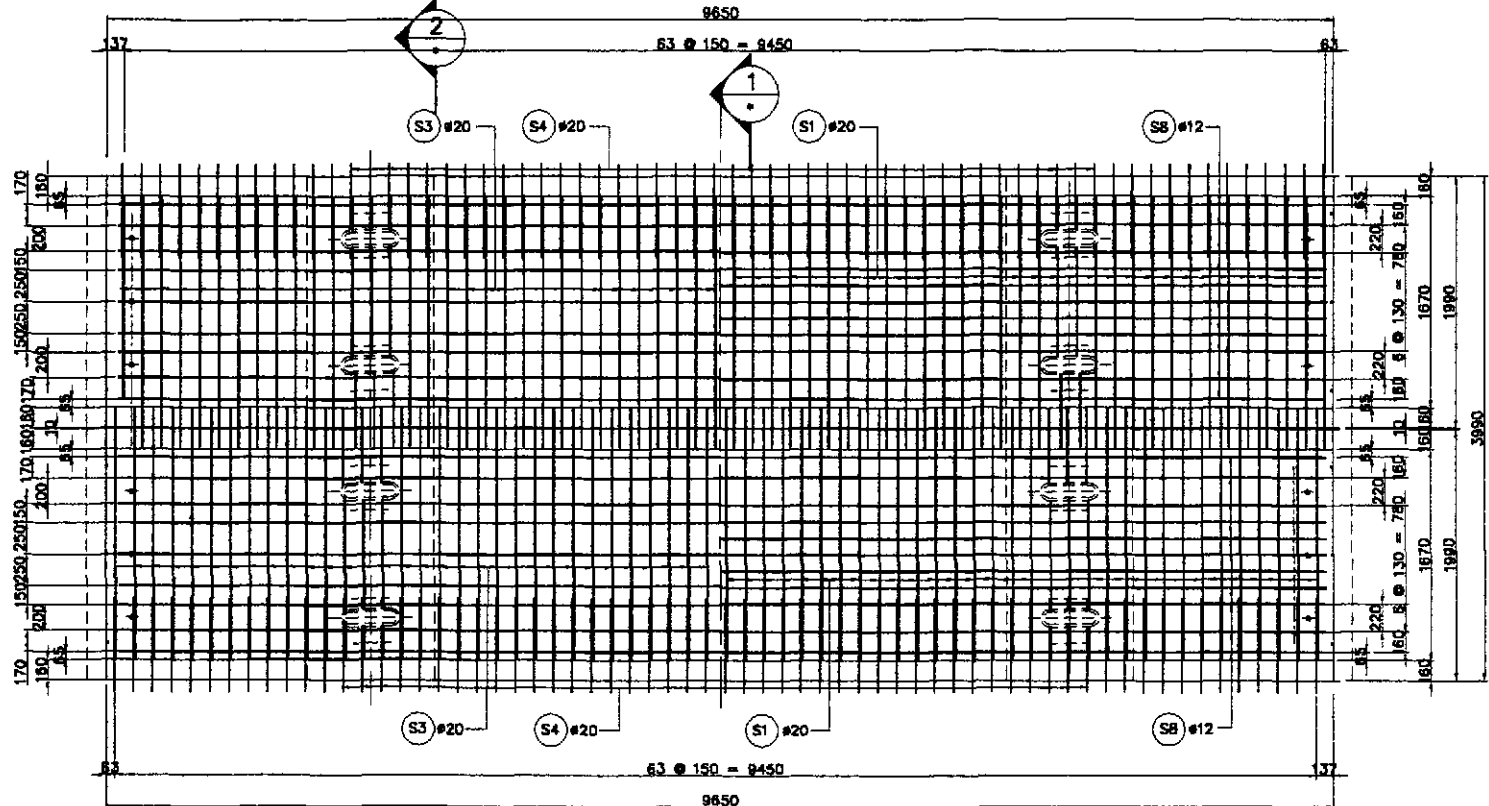
| PROJECT AND LOCATION : | SCALE : | SHEET CONTENTS : | SHEET NO. : |
|--|--------------|--|-------------|
| THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) | AS SHOWN | BRIDGE NO. 10 PAMPANGA RIVER BRIDGE DETAILS OF PC SLAB PANEL (INITIAL STAGE) | B10M-33 |
| CABANATUAN BYPASS - CONTRACT PACKAGE III | FULL SIZE A1 | | |



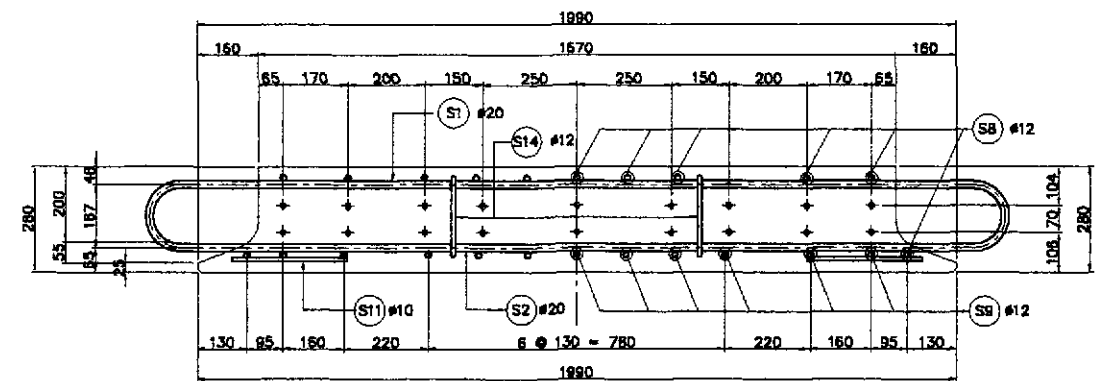
2 DETAIL OF HAUNCH
SCALE 1:20



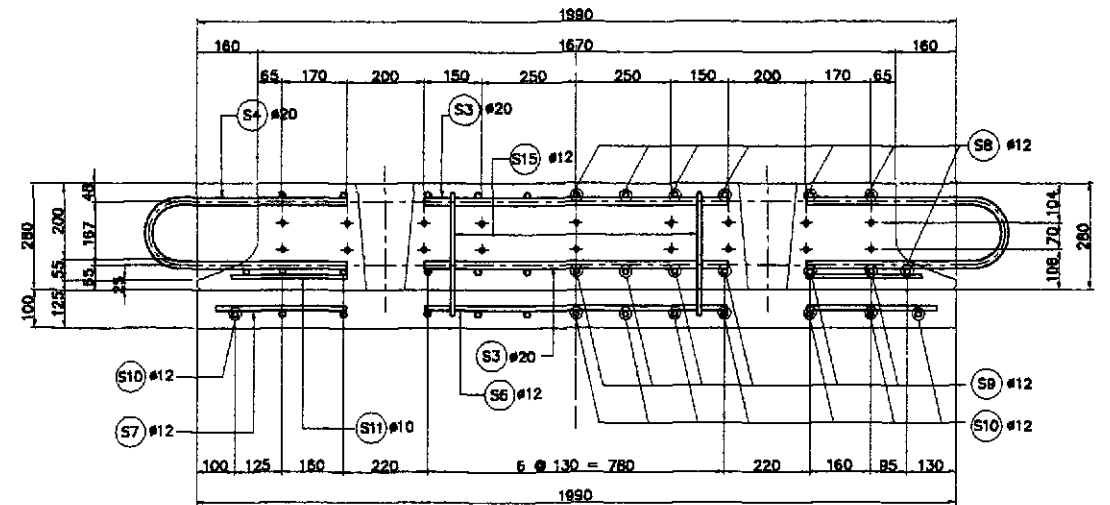
B ELEVATION
SCALE 1:30



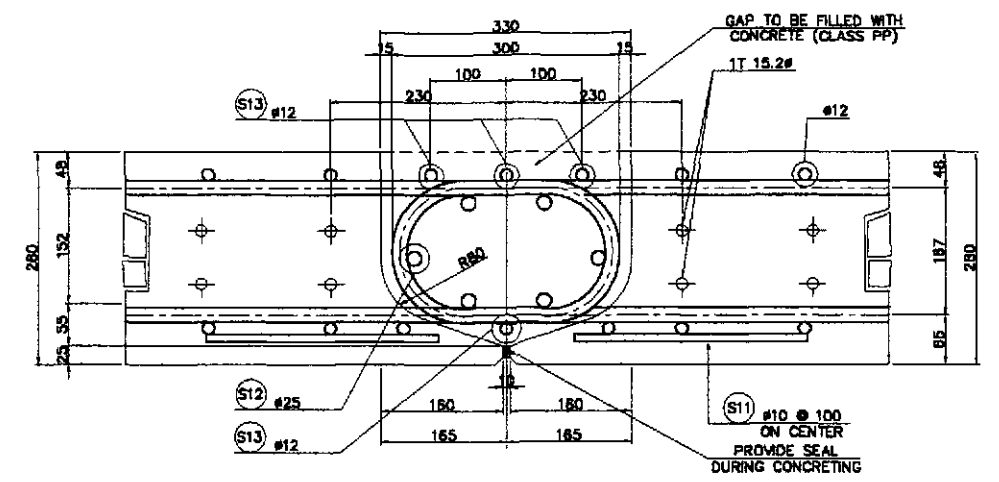
A PLAN
SCALE 1:100



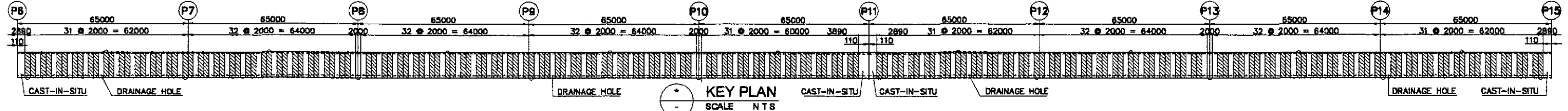
1 SECTION
SCALE 1:10



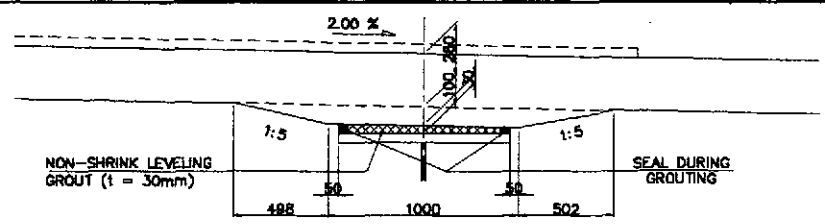
2 SECTION
SCALE 1:10



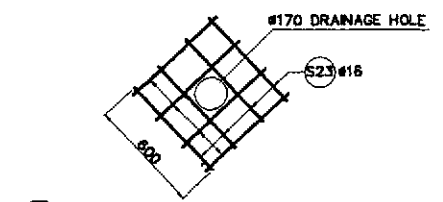
1 DETAIL OF CONNECTION BET. SLAB PANELS
SCALE 1:5



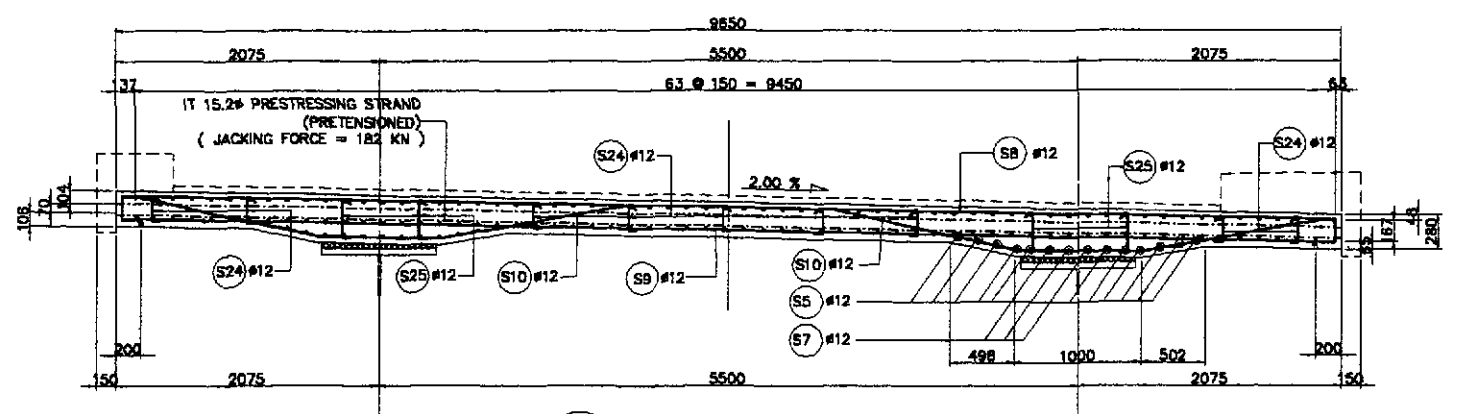
| | | | | | | | | | | | | | |
|--|-----------|------|-----------|--|--|--|---|---|--|--|-------------------------------------|--|-------------------------------|
| | DESIGNED | DATE | SIGNATURE | | REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS | | | | | PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III | SCALE : AS SHOWN FULL SIZE A1 | SHEET CONTENTS : BRIDGE NO. 10 PAMPANGA RIVER BRIDGE PRECAST PC SLAB DETAILS (TYPE A & B, A-1 & B-1) (INITIAL STAGE) | SHEET NO. : B10M-34 |
| | CHECKED | DATE | SIGNATURE | | BUREAU OF DESIGN | | | | | | | | |
| | SUBMITTED | DATE | SIGNATURE | | Submitted By: DANILLO C. TRAJANO Project Director | Reviewed By: ADRIANO M. DORAY Chief, Bridges Division | Recommended By: GILBERTO S. REYES Director IV (OC) | Recommended By: MANUEL M. BONONAN Undersecretary | Approved By: SIMEON A. DATUMANONG Secretary | | | | |



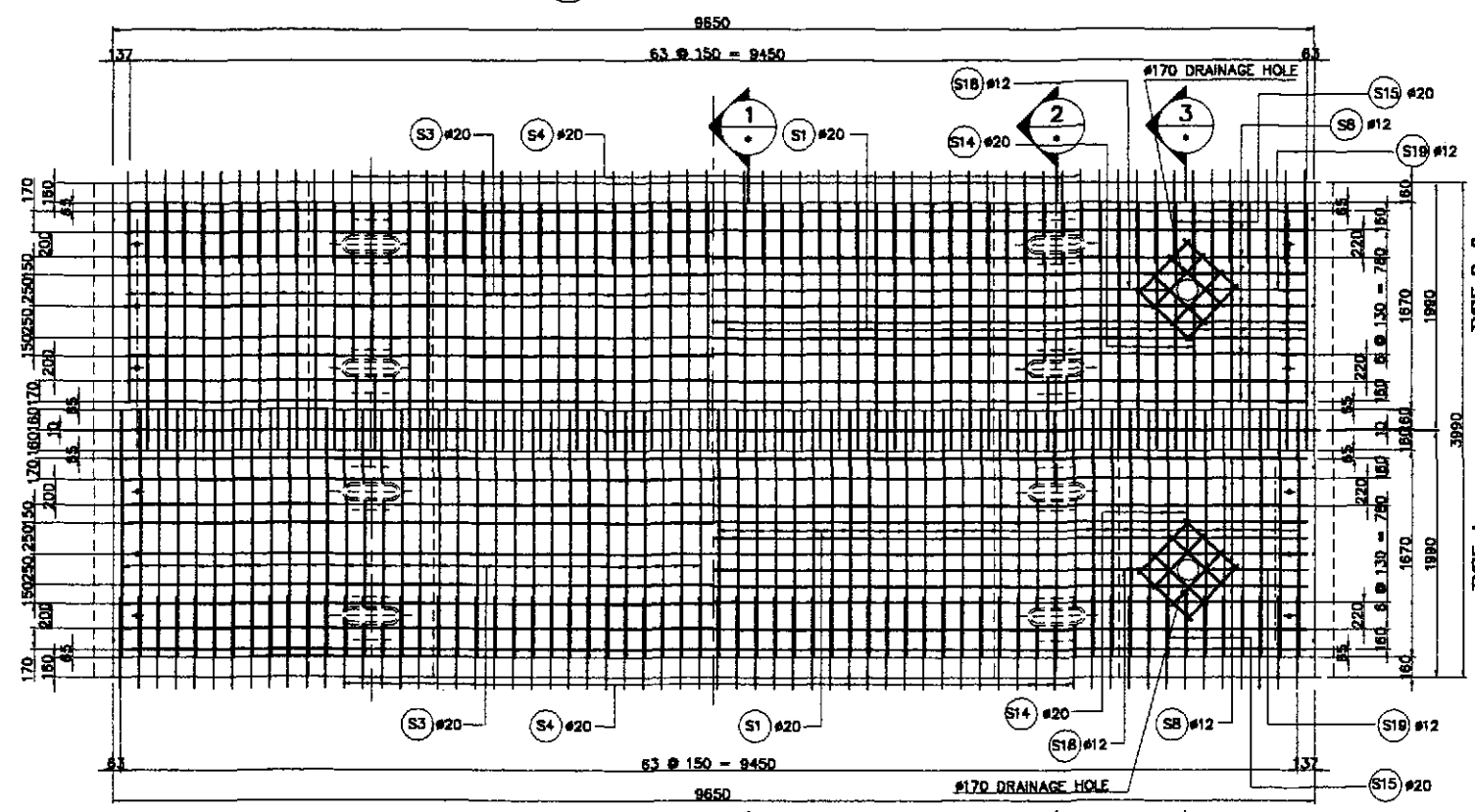
2 DETAIL OF HAUNCH
SCALE 1:20



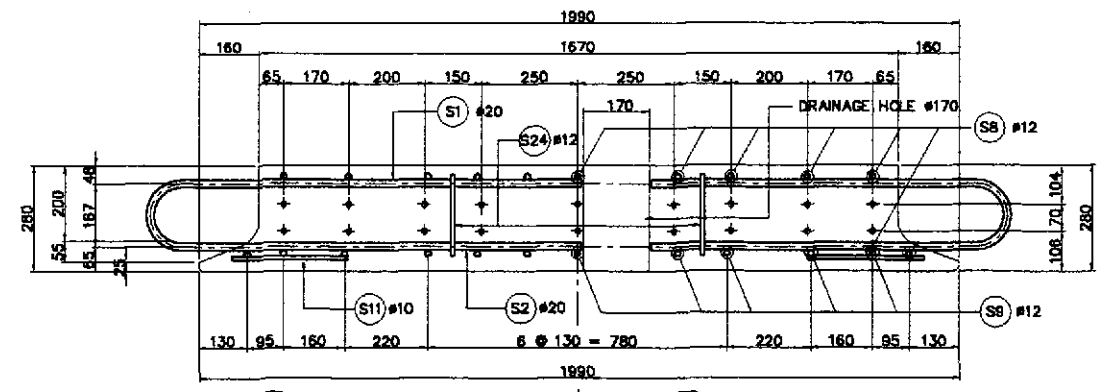
3 DETAIL OF HOLE
SCALE 1:20



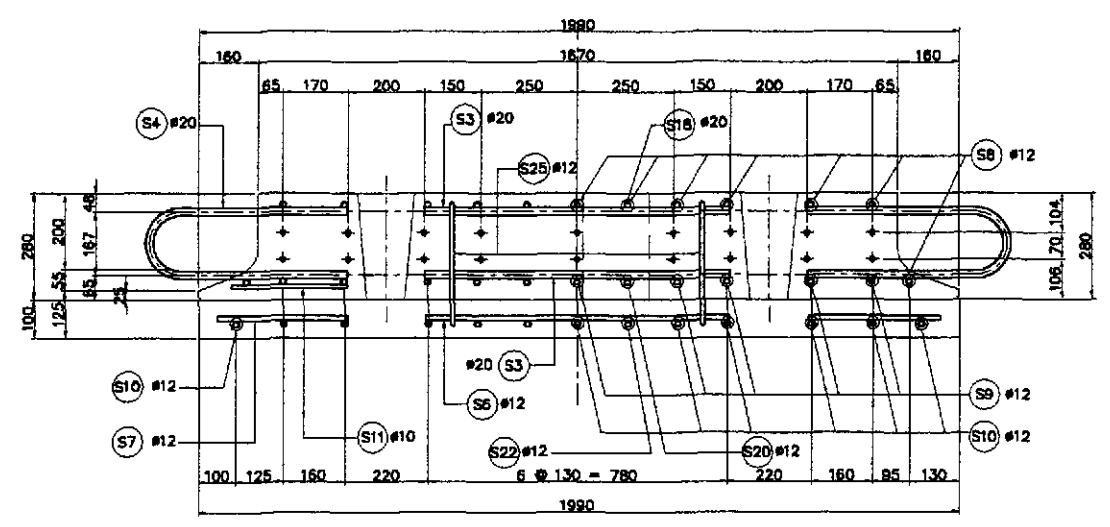
B ELEVATION
SCALE 1:30



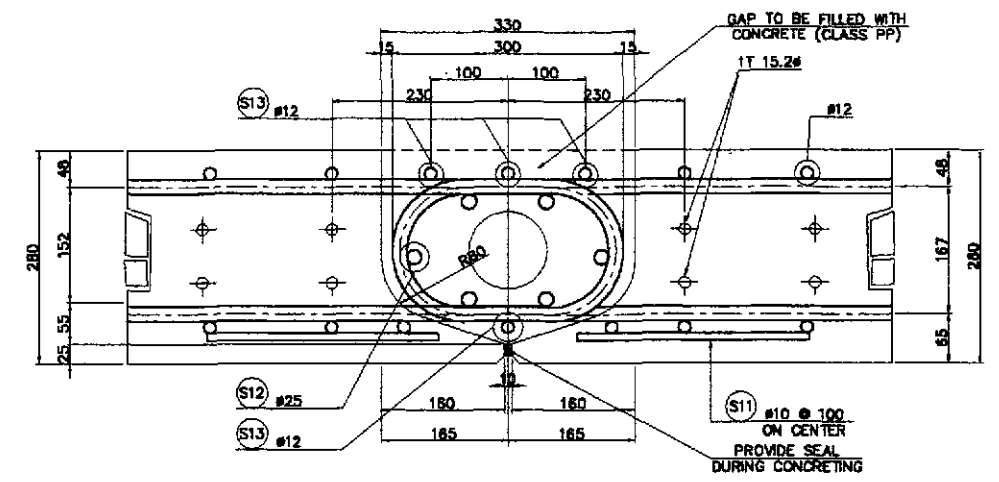
A PLAN
SCALE 1:100



1 SECTION SCALE 1:10
3 SECTION SCALE 1:10

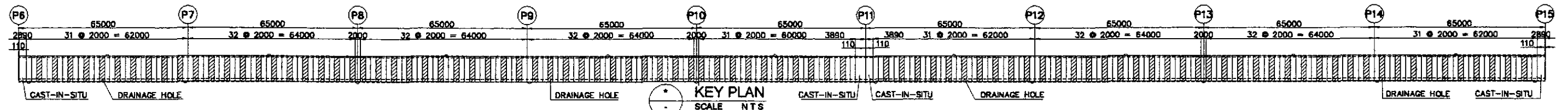


2 SECTION
SCALE 1:10



1 DETAIL OF CONNECTION BET. SLAB PANELS
SCALE 1:5

NOTES:
1. REFER TO SHEET NO. B10M-31 AND B10M-32 FOR ACTUAL LAYOUT OF PRECAST SLAB.
2. NO DRAINAGE HOLE FOR TYPE A AND TYPE B.



KEY PLAN
SCALE N T S

| | | | | | | | | | | | |
|--|-----------|--|----------------|--|--------------|---------------------------------------|--|-------------------------------------|---|---|--|
| | DESIGNED | DATE | SIGNATURE | REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS | | | PROJECT AND LOCATION : | SCALE : | SHEET CONTENTS : | SHEET NO. : | |
| | CHECKED | 10/17/02 | F. M. SALAS | BUREAU OF DESIGN | | | THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) | AS SHOWN | BRIDGE NO. 10 PAMPANGA RIVER BRIDGE PRECAST PC SLAB DETAILS (TYPE A-2 & B-2) (INITIAL STAGE) | B10M-35 | |
| | SUBMITTED | 10/19/02 | M. S. S. S. S. | Submitted By: | Reviewed By: | Recommended By: | CABANATUAN BYPASS - CONTRACT PACKAGE III | FULL SIZE A1 | | | |
| | | DANILLO C. TRAJANO Project Director | | ADRIANO M. DOROY Chief, Bridges Division | | GILBERTO S. REYES Director IV (OC) | | MANUEL M. BONONAN Undersecretary | | Approved By: (See cover sheet for Signature/Approval) SAMSON A. DATUMANONG Secretary | |

| BAR BENDING DIAGRAM | | | | | | | | | | | | | | |
|--|----------|-----------|-----------|--------------------------|------|------|---|---|---|-------------|------------|--------------------|--------------|----------|
| (A) | (B) | (C) | (D) | | | | | | | | | | | |
| (E) | (F) | (G) | (H) | | | | | | | | | | | |
| SCHEDULE OF REINFORCEMENT | | | | | | | | | | | | | | |
| LOCATION | BAR MARK | SIZE (mm) | BEND TYPE | DIMENSION(mm) OUT TO OUT | | | | | | LENGTH (mm) | NO. REQ'D. | UNIT WEIGHT (kg/m) | WEIGHT (kg.) | |
| | | | | a | b | c | d | e | f | | | | GRADE 40 | GRADE 80 |
| TYPE A & TYPE B TYPE A-1 & TYPE B-1 | S1 | 20 | A | 1630 | | | | | | 1630 | 58 | 2.466 | | 238 |
| | S2 | 20 | B | 708 | 262 | 2084 | | | | 4030 | 59 | 2.466 | | 587 |
| | S3 | 20 | A | 793 | | | | | | 1600 | 10 | 2.466 | | 40 |
| | S4 | 20 | C | 429 | 262 | | | | | 2240 | 10 | 2.466 | | 56 |
| | S5 | 12 | A | 1890 | | | | | | 1890 | 20 | 0.888 | 34 | |
| | S6 | 12 | A | 793 | | | | | | 800 | 6 | 0.888 | 5 | |
| | S7 | 12 | A | 342 | | | | | | 350 | 12 | 0.888 | 4 | |
| | S8 | 12 | A | 9550 | | | | | | 9550 | 13 | 0.888 | 111 | |
| | S9 | 12 | D | 185 | 9550 | | | | | 9880 | 11 | 0.888 | 97 | |
| | S10 | 12 | E | 1581 | 993 | | | | | 4160 | 26 | 0.888 | 97 | |
| | S11 | 10 | A | 310 | | | | | | 310 | 192 | 0.617 | 37 | |
| | S12 | 25 | A | 9550 | | | | | | 9550 | 6 | 3.854 | | 221 |
| | S13 | 12 | A | 9550 | | | | | | 9550 | 4 | 0.888 | 34 | |
| | S14 | 12 | F | 130 | 230 | 110 | | | | 470 | 18 | 0.888 | 8 | |
| | S15 | 12 | F | 130 | 330 | 110 | | | | 570 | 8 | 0.888 | 5 | |
| TOTAL | | | | | | | | | | | = | 432 kgs. | 1,142 kgs. | |

THE REINFORCEMENT SHOWN ON THIS TABLE IS FOR REFERENCE ONLY. THE CONTRACTOR SHOULD CHECK AND VERIFY ALL DIMENSIONS, SIZES AND QUANTITIES OF REINFORCEMENT.

| SCHEDULE OF PRESTRESSING STRANDS | | | | | | | | |
|----------------------------------|----------------------|-------------------------------|-------------------------|-----------------------|--------------------------------|-----------------------------|---------------------|---------------|
| PANEL TYPE | STRAND DIAMETER (mm) | JACKING FORCE PER STRAND (kN) | STRANDS PER PANEL (pcs) | LENGTH OF STRANDS (m) | UNIT WEIGHT PER STRANDS (kg/m) | WEIGHT PER PANEL (kg/panel) | NO. OF PANELS (pcs) | WEIGHT (kg) |
| A | 15.20 | 182 | 18 | 9.650 | 1.10 | 191.07 | 63 | 15.859 |
| A-1 | 15.20 | 182 | 18 | 9.650 | 1.10 | 191.07 | 12 | 2.293 |
| A-2 | 15.20 | 182 | 18 | 9.650 | 1.10 | 191.07 | 49 | 9.363 |
| B | 15.20 | 182 | 18 | 9.650 | 1.10 | 191.07 | 89 | 17.006 |
| B-1 | 15.20 | 182 | 18 | 9.650 | 1.10 | 191.07 | 7 | 1.338 |
| B-2 | 15.20 | 182 | 18 | 9.650 | 1.10 | 191.07 | 46 | 8.790 |
| TOTAL | | | | | | | | = 54,848 kgs. |

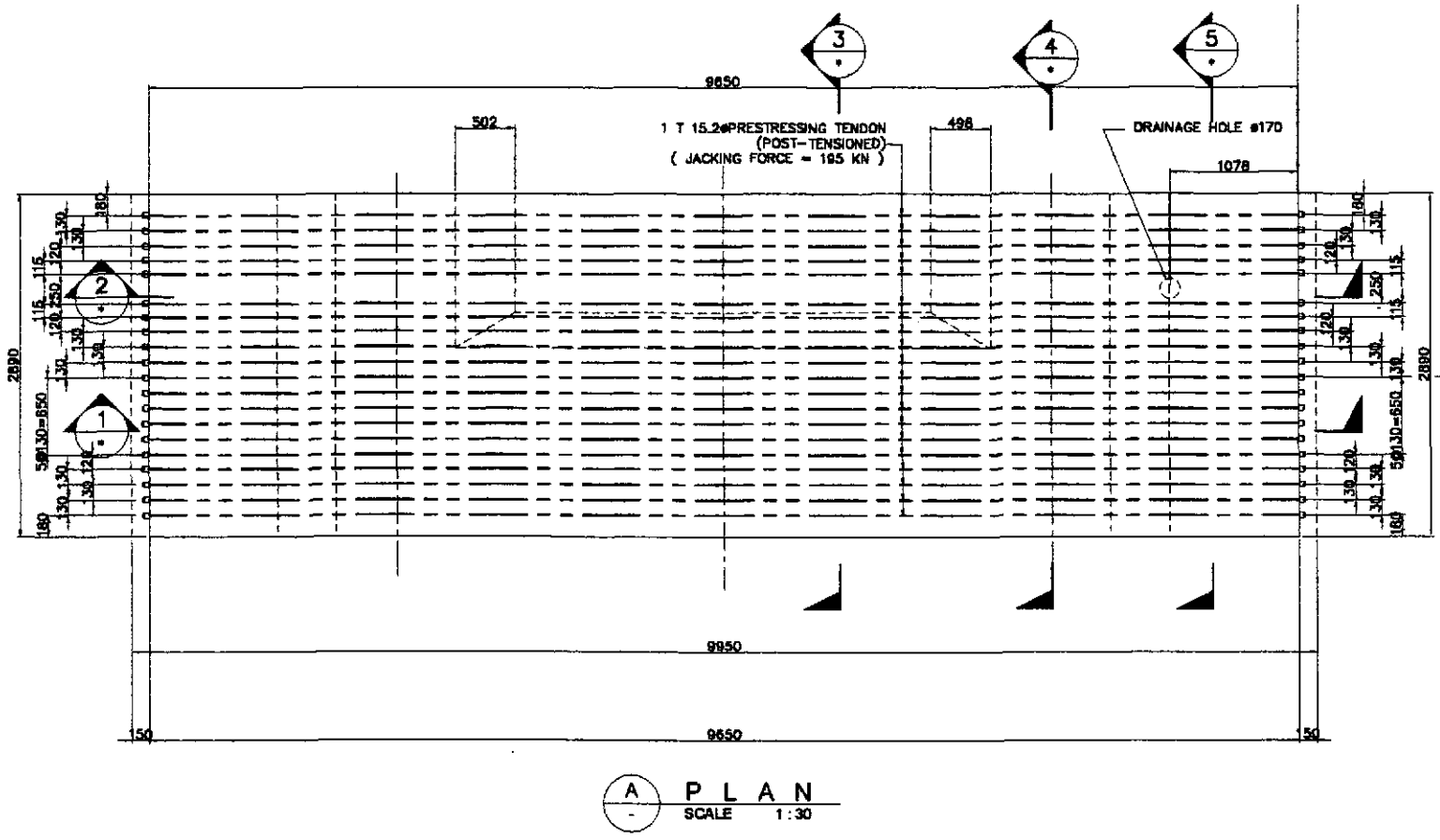
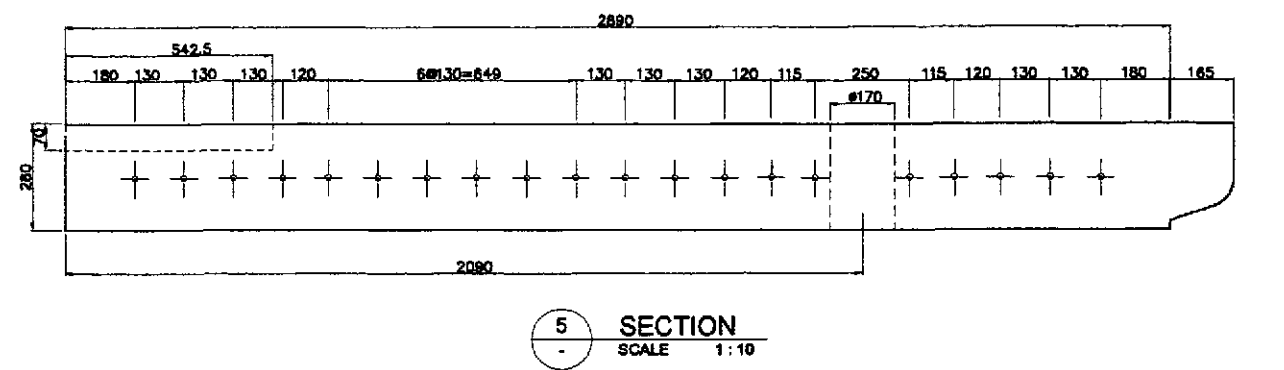
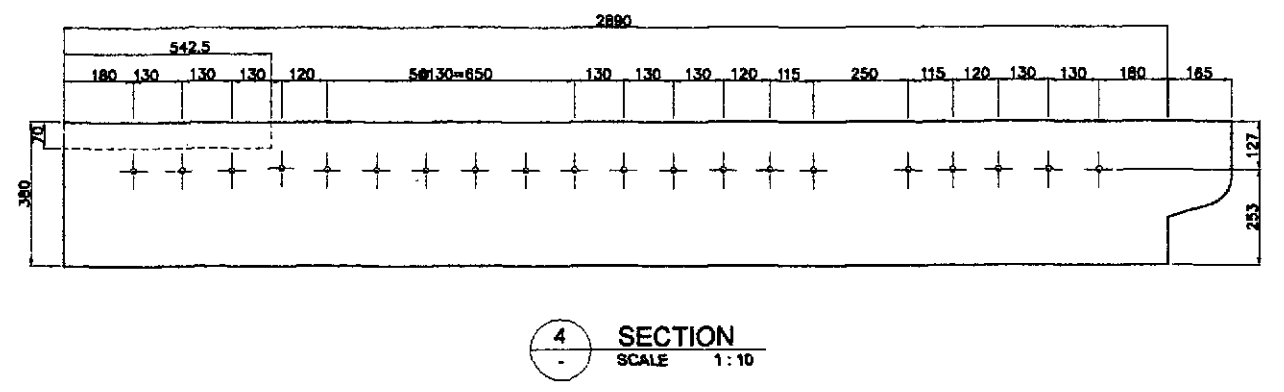
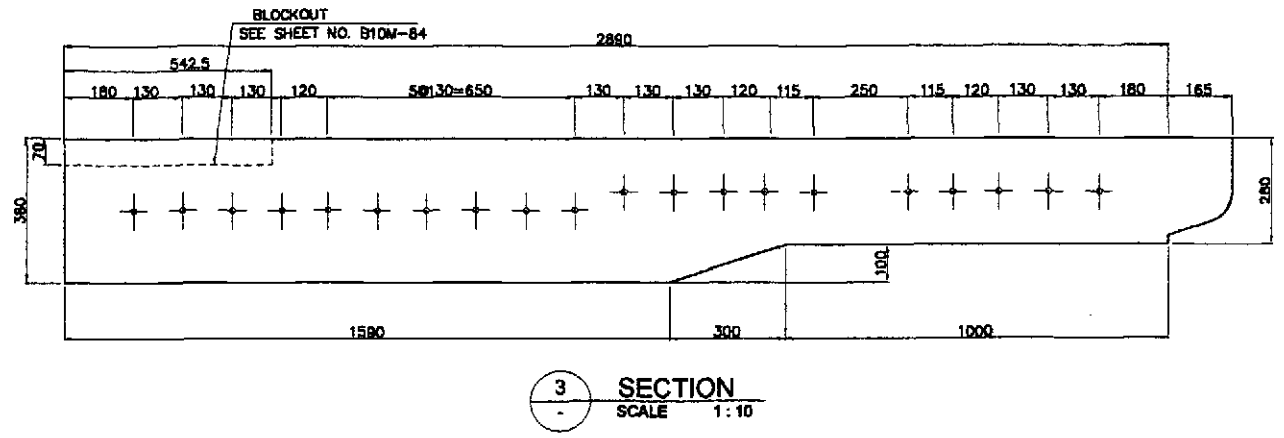
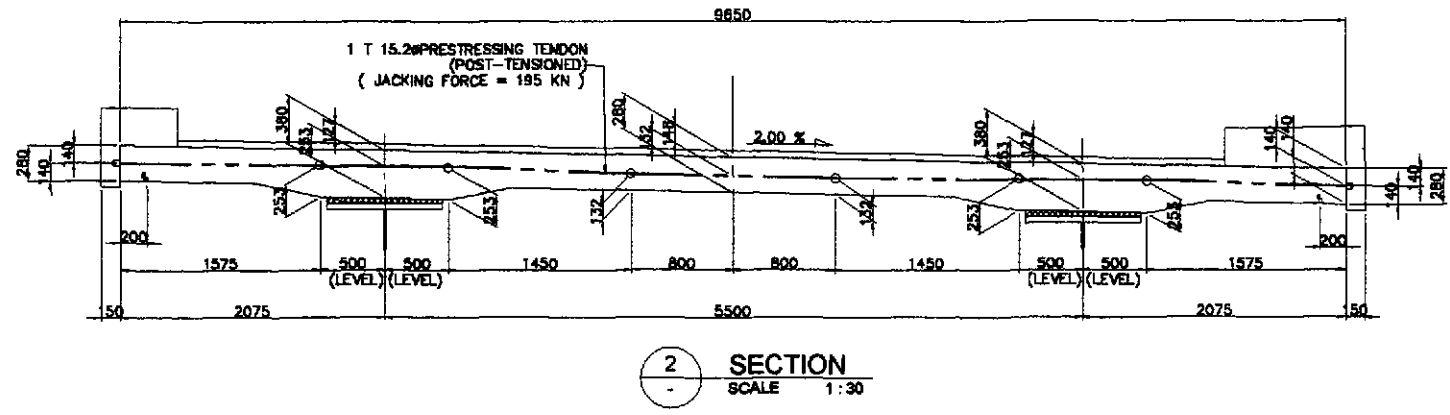
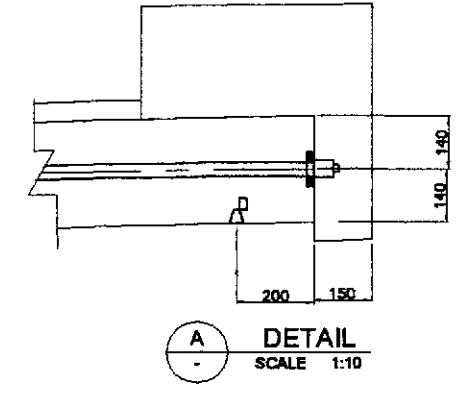
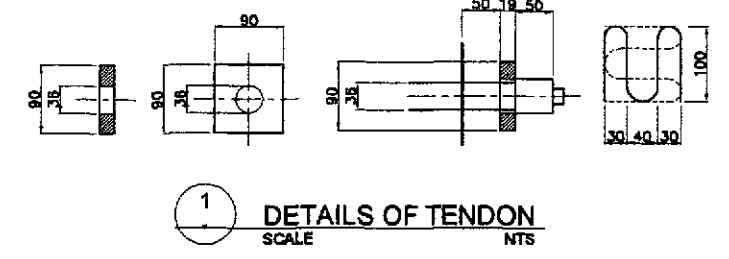
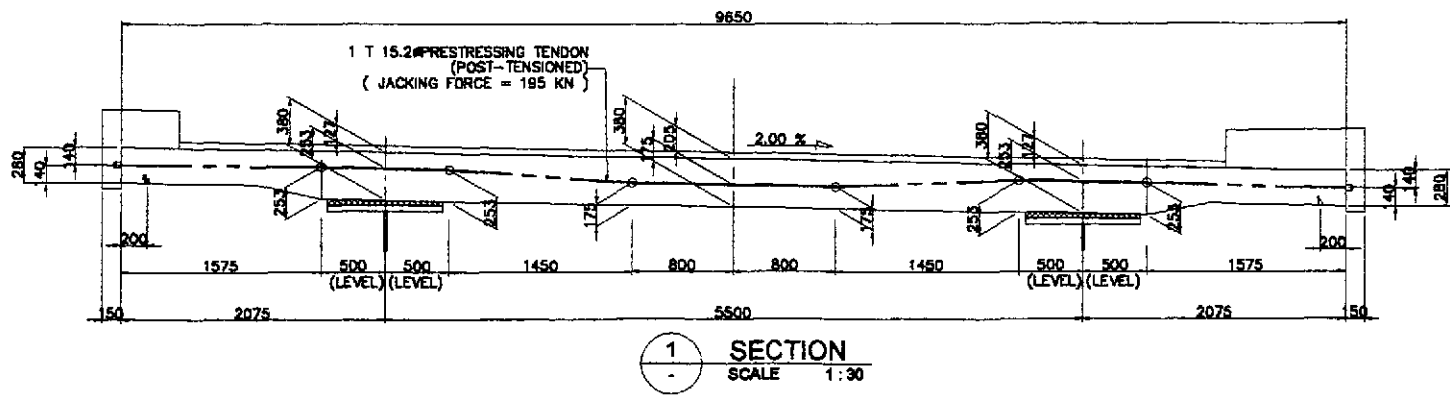
THE PRESTRESSING STRANDS SHOWN ON THIS TABLE IS FOR REFERENCE ONLY. THE CONTRACTOR SHOULD CHECK AND VERIFY ALL DIMENSIONS, SIZES AND QUANTITIES OF PRESTRESSING STRANDS.

NOTE :
PRESTRESSING STEEL SHALL BE SEVEN-WIRE UNCOATED STRESS-RELIEVED STRANDS AND SHALL CONFORM TO AASHTO M203 (ASTM A 146) WITH MINIMUM ULTIMATE STRENGTH OF $F_y = 1860 \text{ MPa}$ (270 ksi).

| BAR BENDING DIAGRAM | | | | | | | | | | | | | | |
|---------------------------|----------|-----------|-----------|--------------------------|------|------|------|---|---|-------------|------------|--------------------|--------------|----------|
| (A) | (B) | (C) | (D) | (E) | | | | | | | | | | |
| (F) | (G) | (H) | (I) | (J) | | | | | | | | | | |
| SCHEDULE OF REINFORCEMENT | | | | | | | | | | | | | | |
| LOCATION | BAR MARK | SIZE (mm) | BEND TYPE | DIMENSION(mm) OUT TO OUT | | | | | | LENGTH (mm) | NO. REQ'D. | UNIT WEIGHT (kg/m) | WEIGHT (kg.) | |
| | | | | a | b | c | d | e | f | | | | GRADE 40 | GRADE 80 |
| TYPE A-2 & TYPE B-2 | S1 | 20 | A | 1630 | | | | | | 1630 | 57 | 2.466 | | 238 |
| | S2 | 20 | B | 708 | 262 | 2084 | | | | 4030 | 57 | 2.466 | | 587 |
| | S3 | 20 | A | 793 | | | | | | 1600 | 10 | 2.466 | | 40 |
| | S4 | 20 | A | 429 | 262 | | | | | 2240 | 10 | 2.466 | | 56 |
| | S5 | 12 | A | 1890 | | | | | | 1890 | 20 | 0.888 | 34 | |
| | S6 | 12 | A | 793 | | | | | | 800 | 6 | 0.888 | 5 | |
| | S7 | 12 | A | 342 | | | | | | 350 | 12 | 0.888 | 4 | |
| | S8 | 12 | A | 9550 | | | | | | 9550 | 12 | 0.888 | 111 | |
| | S9 | 12 | D | 185 | 9550 | | | | | 9880 | 10 | 0.888 | 88 | |
| | S10 | 12 | E | 1581 | 993 | | | | | 4160 | 25 | 0.888 | 93 | |
| | S11 | 10 | A | 310 | | | | | | 310 | 192 | 0.617 | 37 | |
| | S12 | 25 | A | 9550 | | | | | | 9550 | 6 | 3.854 | | 221 |
| | S13 | 12 | A | 9550 | | | | | | 9550 | 4 | 0.888 | 34 | |
| | S14 | 20 | A | 590 | | | | | | 590 | 4 | 2.466 | 8 | |
| | S15 | 20 | A | 790 | | | | | | 790 | 4 | 2.466 | 8 | |
| | S16 | 20 | F | 708 | 262 | 1042 | | | | 2020 | 2 | 2.466 | | 10 |
| | S17 | 20 | G | 708 | 262 | 842 | | | | 1820 | 2 | 2.466 | | 9 |
| | S18 | 12 | A | 8475 | | | | | | 8480 | 1 | 0.888 | 8 | |
| | S19 | 12 | A | 875 | | | | | | 880 | 1 | 0.888 | 1 | |
| | S20 | 12 | A | 8475 | | | | | | 8480 | 1 | 0.888 | 8 | |
| | S21 | 12 | A | 875 | | | | | | 880 | 1 | 0.888 | 1 | |
| | S22 | 12 | H | 1071 | 357 | 983 | 1581 | | | 4010 | 1 | 0.888 | 4 | |
| | S23 | 16 | A | 600 | | | | | | 600 | 16 | 1.578 | 16 | |
| | S24 | 12 | I | 130 | 230 | 110 | | | | 470 | 18 | 0.888 | 8 | |
| | S25 | 12 | I | 130 | 230 | 110 | | | | 480 | 8 | 0.888 | 5 | |
| TOTAL | | | | | | | | | | | = | 457 kgs. | 1,175 kgs. | |

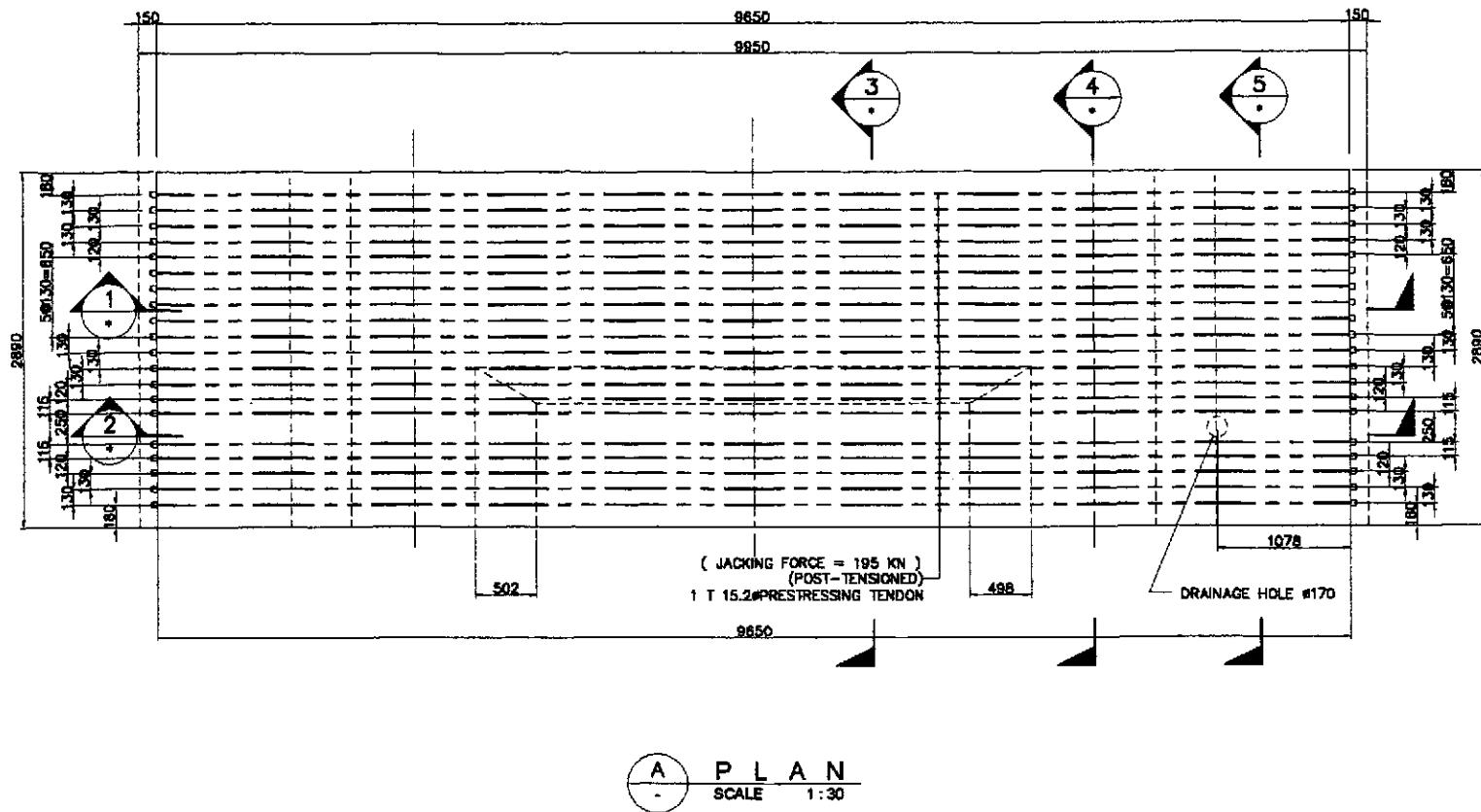
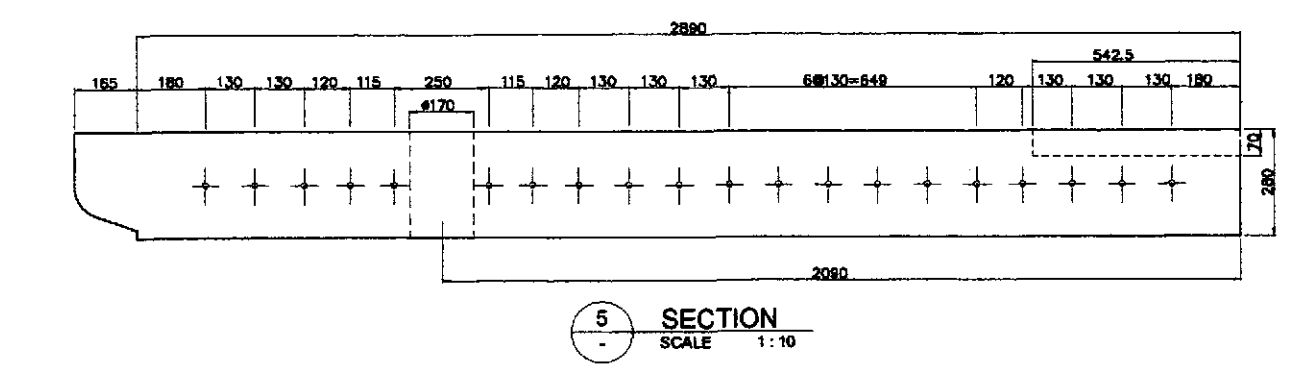
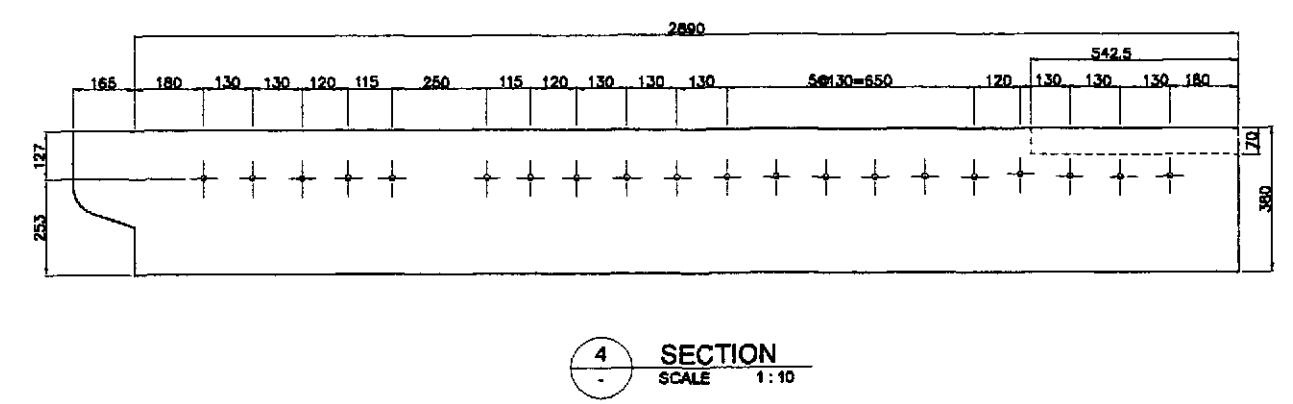
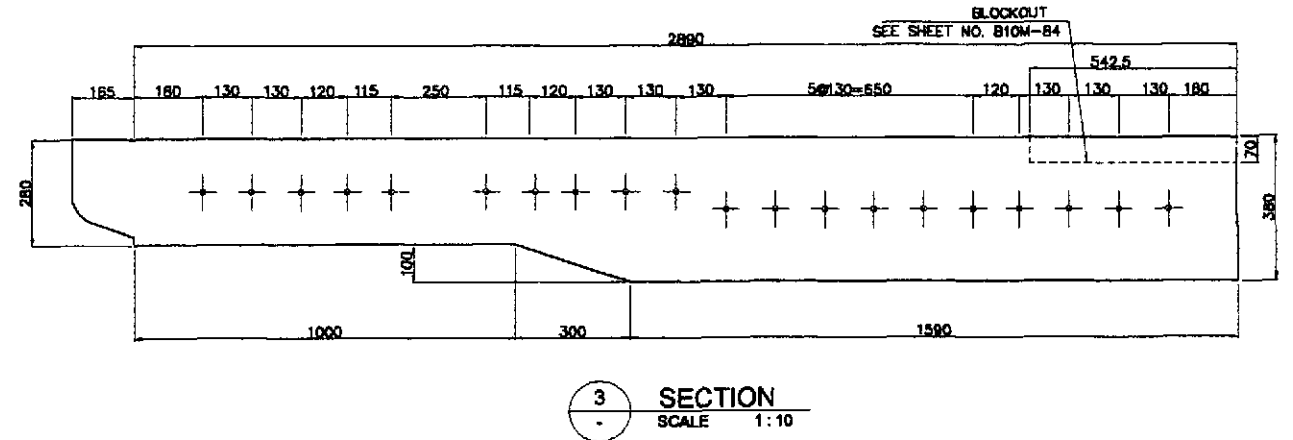
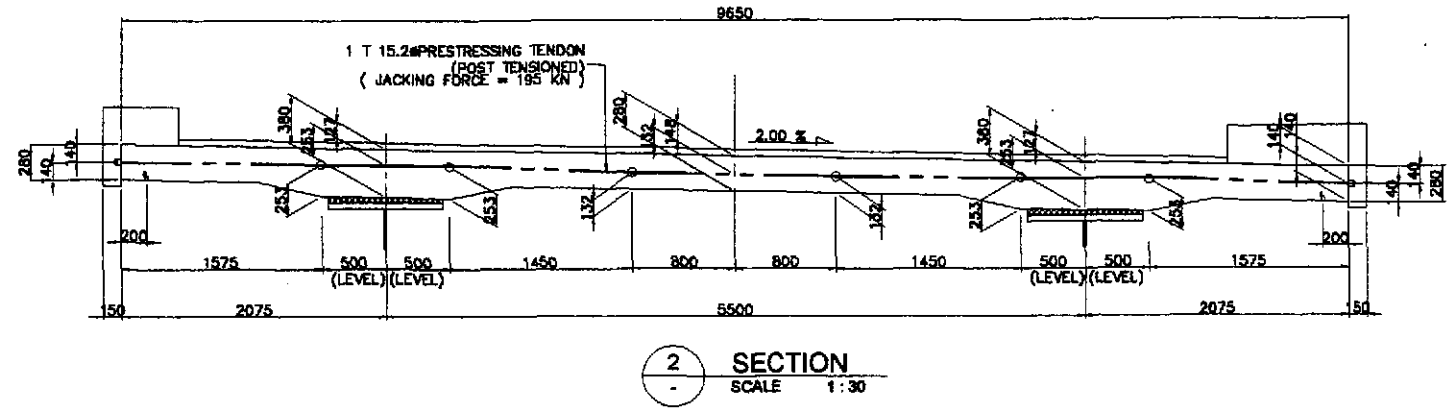
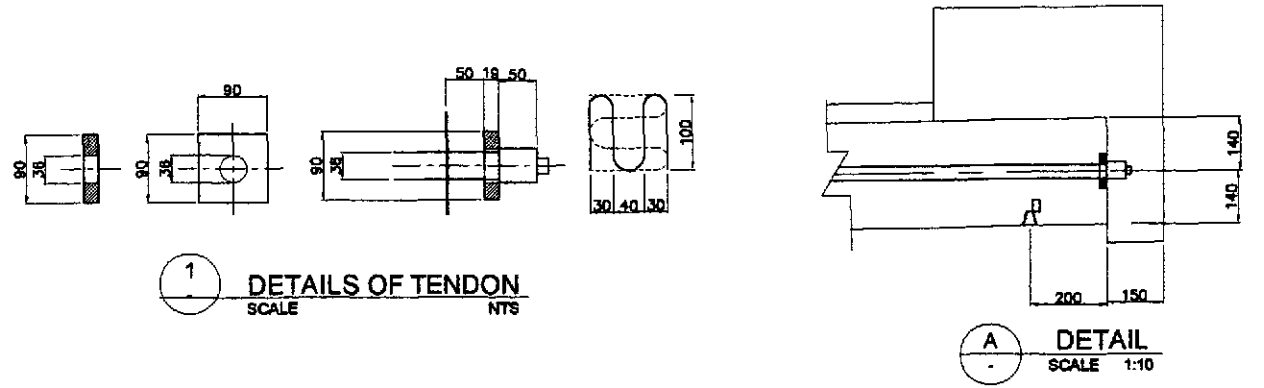
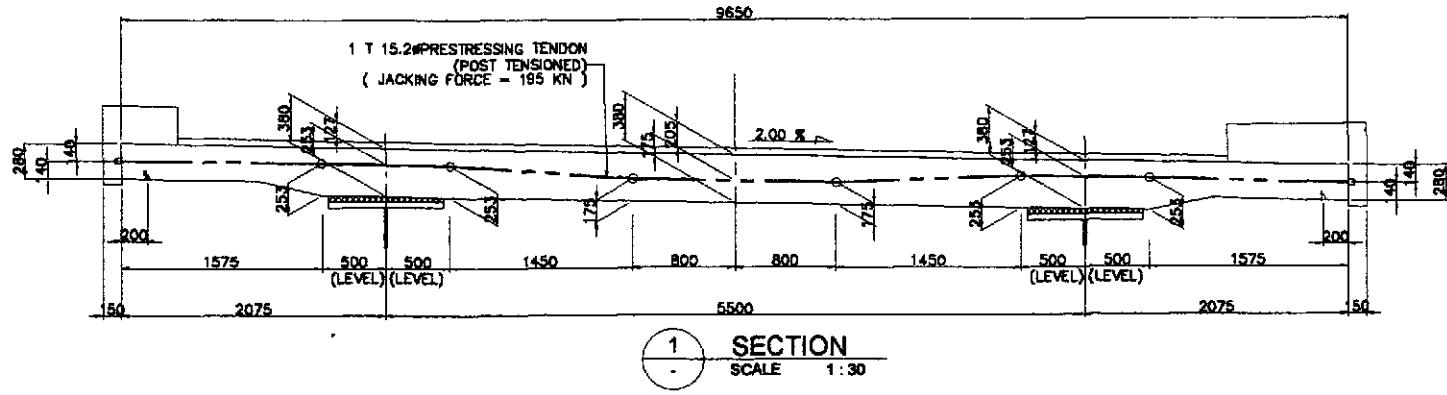
THE REINFORCEMENT SHOWN ON THIS TABLE IS FOR REFERENCE ONLY. THE CONTRACTOR SHOULD CHECK AND VERIFY ALL DIMENSIONS, SIZES AND QUANTITIES OF REINFORCEMENT.

| | | | | | | | | | | | | |
|--|-----------|----------|--|--|--|---|---------------------------------------|------------------------------------|---|-------------------------------------|---|------------------------|
| | DESIGNED | 10/3/02 | | | REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS | | | | PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Paridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III | SCALE : AS SHOWN FULL SIZE A1 | SHEET CONTENTS : BRIDGE NO. 10 PAMPANGA RIVER BRIDGE SCHEDULE OF REINFORCEMENT (TYPE A & B, A-1 & B-1, A-2 & B-2) (INITIAL STAGE) | SHEET NO. : B10M-36 |
| | CHECKED | 10/17/02 | | | Submitted By: | Reviewed By: | Recommended By: | Approved By: | | | | |
| | SUBMITTED | 10/19/02 | | | DANILO C. TRAJANO Project Director | ADRIANO M. DORCOY Chief, Bridge Division | GILBERTO S. REYES Director IV (OC) | MANUEL M. BONGON Undersecretary | | | | |



1 CAST-IN-SITU DECK SLAB AT PIER 6-R & PIER 11-R (TENDON LAYOUT)
SCALE 1:200

| | | | | | | | | | | |
|--|----------|----------|--|--|--|---|---|-------------------------------------|---|-------------------------------|
| | DESIGNED | 10/8/02 | | | REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS | | PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Pinaridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III | SCALE : AS SHOWN FULL SIZE A1 | SHEET CONTENTS : BRIDGE NO. 10 PAMPANGA RIVER BRIDGE CAST-IN-SITU DECK SLAB AT PIER 6-R & PIER 11-R (TENDON LAYOUT) (INITIAL STAGE) | SHEET NO. : B10M-37 |
| | CHECKED | 10/17/02 | | | SUBMITTED BY: DANILLO C. TRAJANO Project Director | REVIEWED BY: ADRIANO M. DOROY Chief, Bridges Division | | | | |



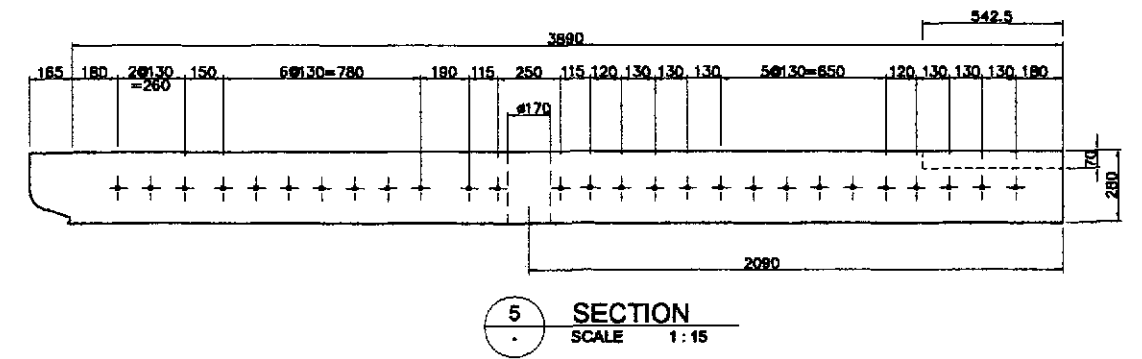
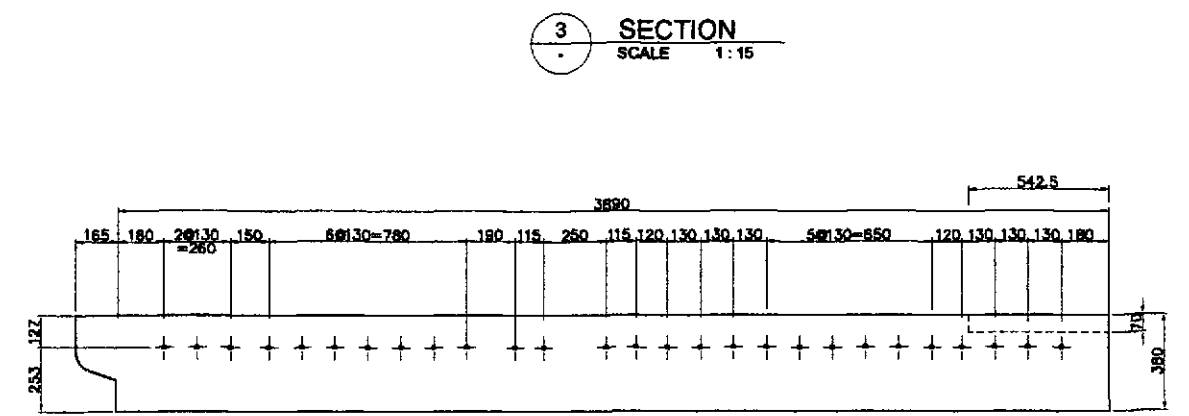
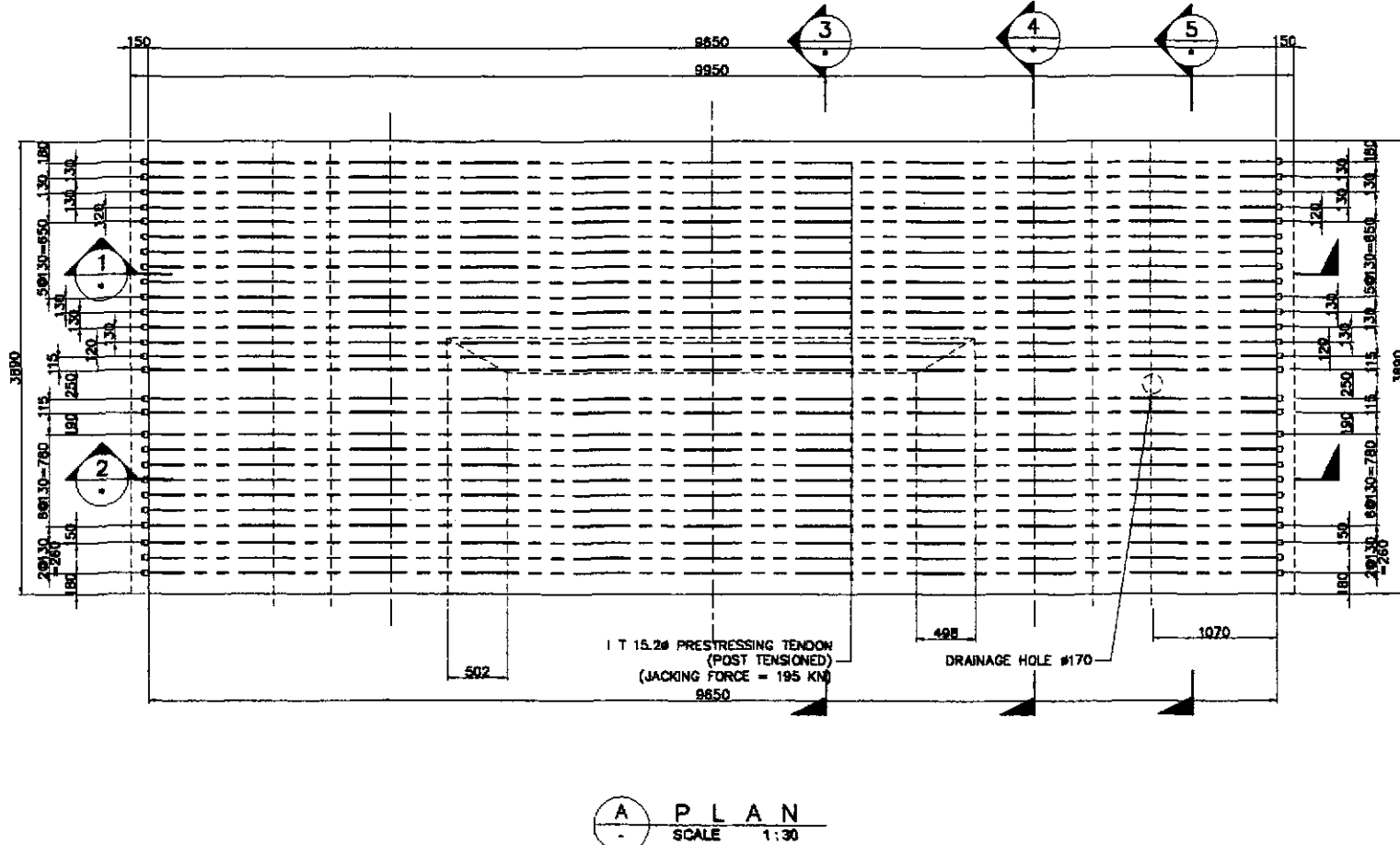
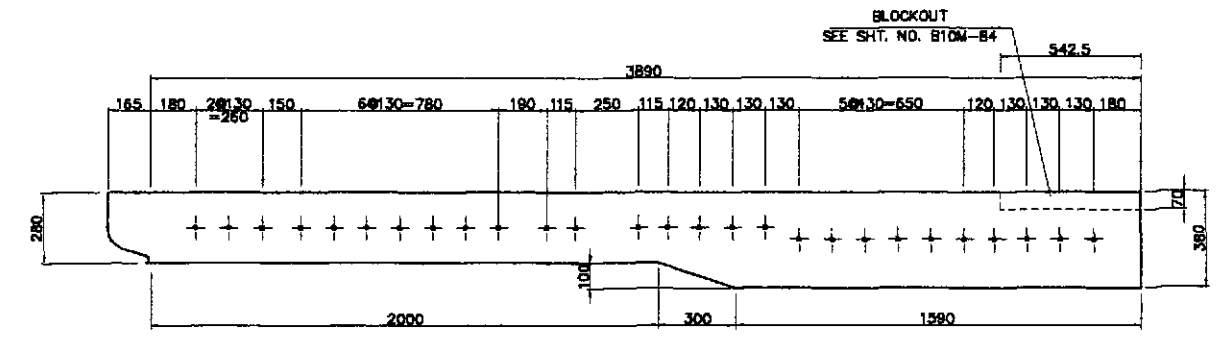
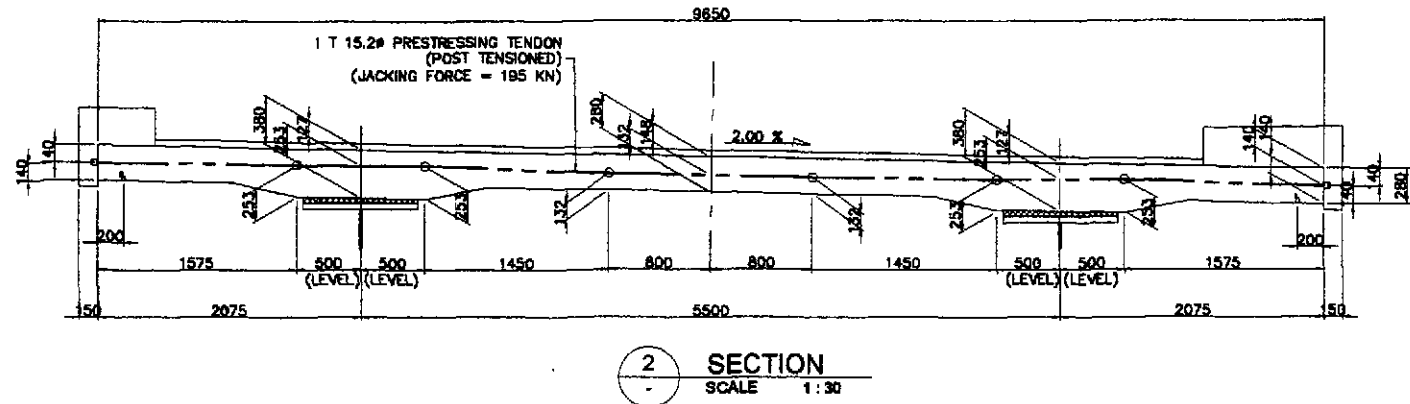
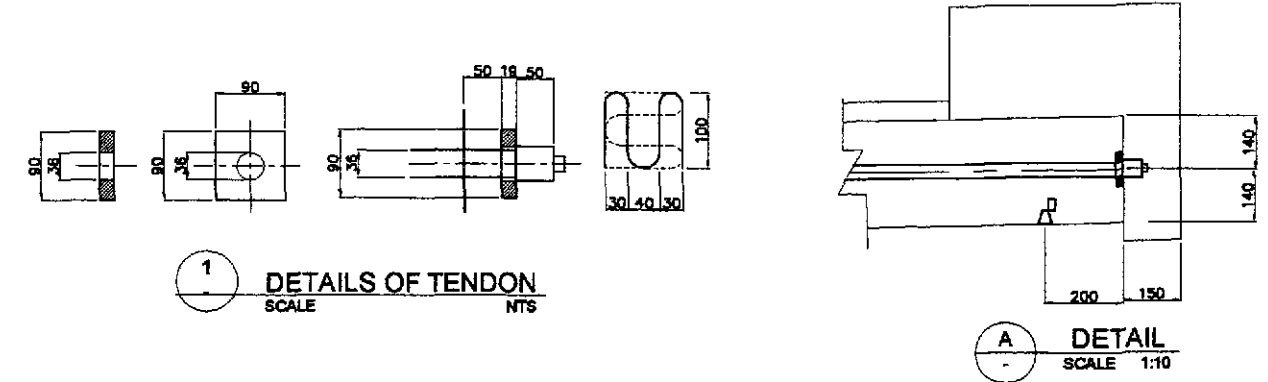
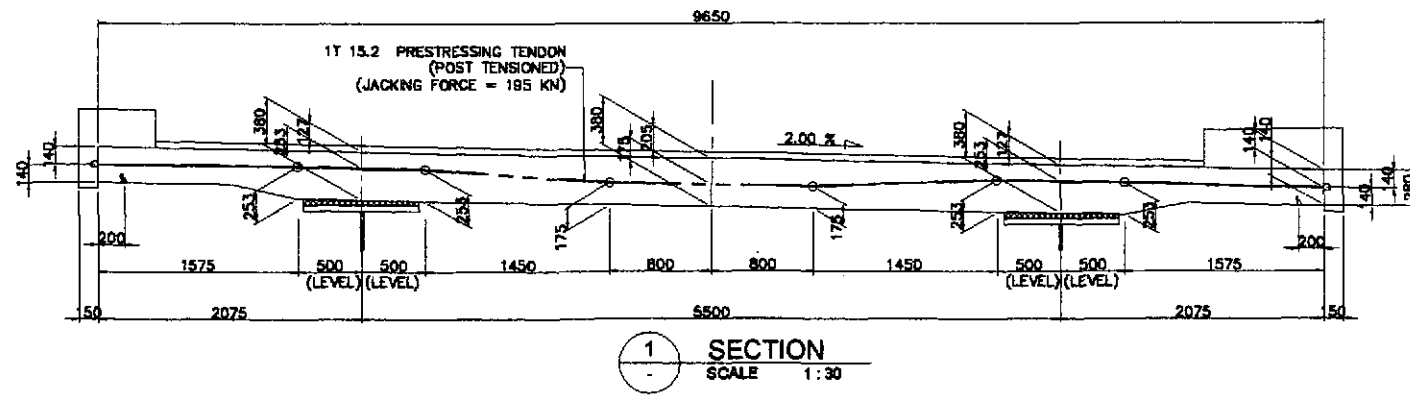
1 CAST-IN-SITU DECK SLAB AT PIER 15-L (TENDON LAYOUT) SCALE 1:200

JICA
JAPAN INTERNATIONAL COOPERATION AGENCY

KEI KATAHIRA & ENGINEERS INTERNATIONAL
YEO YACHYO ENGINEERING CO., LTD.

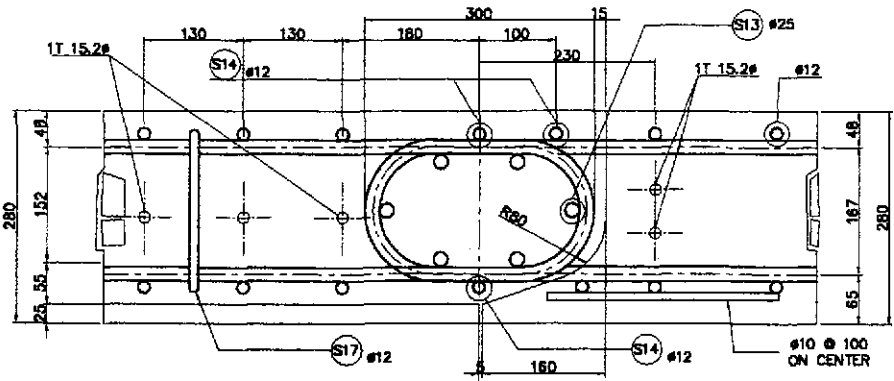
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|-----------|----------|---------------------------------------|---|--|
| DESIGNED | 10/18/02 | <i>[Signature]</i> F. M. SALAS | R.H.L. - P.M.O. | |
| CHECKED | 11/17/02 | <i>[Signature]</i> J. E. SANTOS | BUREAU OF DESIGN | |
| SUBMITTED | 10/19/02 | <i>[Signature]</i> M. M. NARAYAN | OFFICE OF THE SECRETARY | |
| | | DANALO C. TRAJANO Project Director | ADRIANO M. DORAY Chief, Bridges Division | GILBERTO S. REYES Director IV (OIC) |
| | | | MANUEL M. BONGAN Undersecretary | SIMEON A. DATUMANONG Secretary |

| | | | |
|---|--------------------------|--|----------------|
| PROJECT AND LOCATION : | SCALE : | SHEET CONTENTS : | SHEET NO. : |
| THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Pinarid, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III | AS SHOWN FULL SIZE A1 | BRIDGE NO. 10 PAMPANGA RIVER BRIDGE CAST-IN-SITU DECK SLAB AT PIER 15-L (TENDON LAYOUT) (INITIAL STAGE) | B10M-38 |

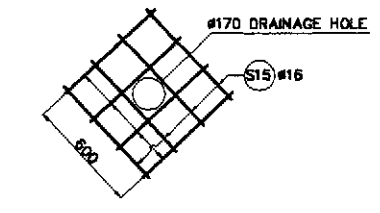


1 CAST-IN-SITU DECK SLAB AT PIER 11-L (TENDON LAYOUT) SCALE 1:200

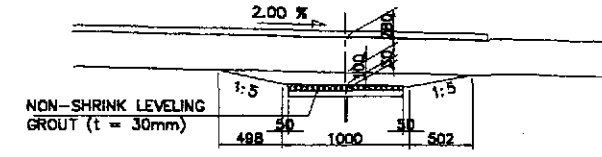
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|--|-----------|----------|-------------|---------------------------------------|--|---------------------------------------|------------------------------------|-----------------------------------|--|--------------|--|-------------|
| | DESIGNED | DATE | SIGNATURE | | REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS | | | | PROJECT AND LOCATION : | SCALE : | SHEET CONTENTS : | SHEET NO. : |
| | CHECKED | 10/17/02 | F. M. SALAS | | BUREAU OF DESIGN | | | | THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) | AS SHOWN | BRIDGE NO. 10 PAMPANGA RIVER BRIDGE CAST-IN-SITU DECK SLAB AT PIER 11-L (TENDON LAYOUT) (INITIAL STAGE) | B10M-39 |
| | SUBMITTED | 10/19/02 | M. MOGANA | | Submitted By: | Reviewed By: | Recommended By: | Approved By: | CABANATUAN BYPASS - CONTRACT PACKAGE II | FULL SIZE A1 | | |
| | | | TEAM LEADER | DANILO C. TRAJANO Project Director | ADRIANO M. DOROY Chief, Bridges Division | GILBERTO S. REYES Director IV (OC) | MANUEL M. BOWDAN Undersecretary | SIMEON A. DATUMANONG Secretary | | | | |



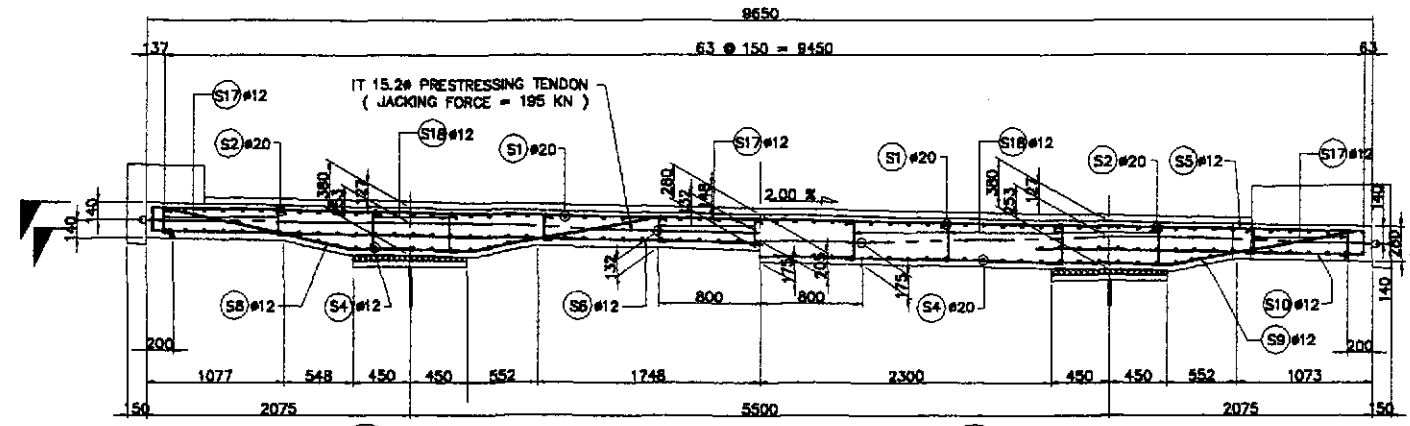
1 DETAIL OF CONNECTION BET. SLAB PANELS
SCALE 1:5



2 DETAIL OF HOLE
SCALE 1:20

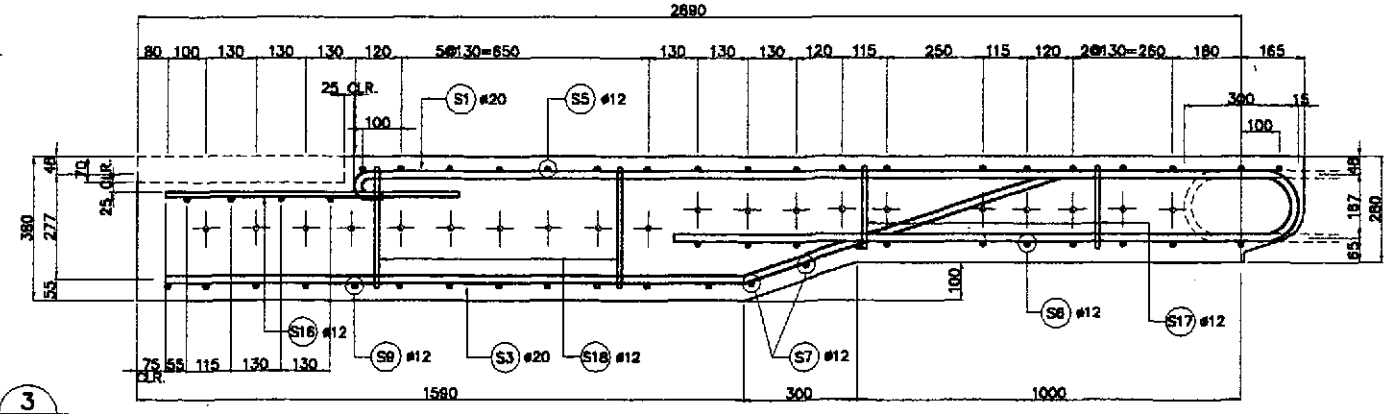


1 DETAIL OF HAUNCH
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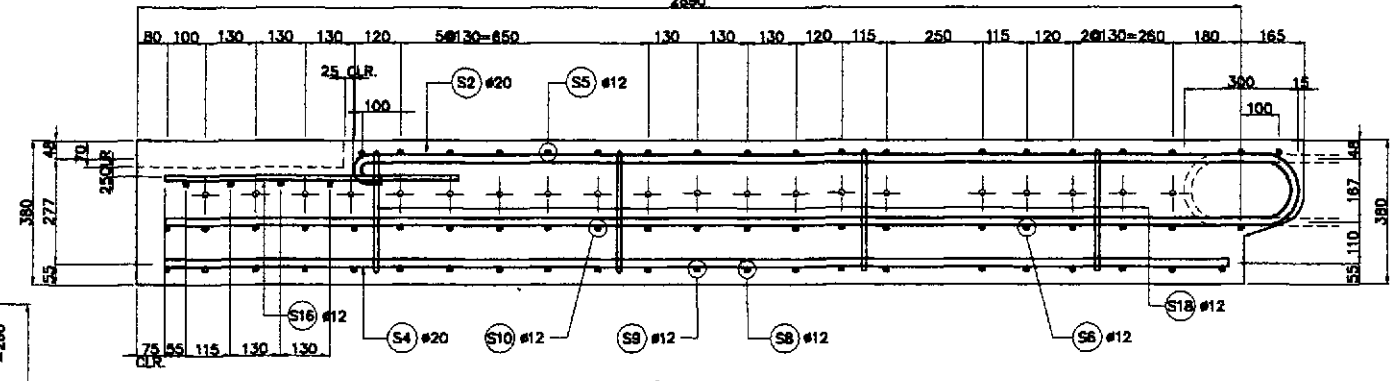


1 SECTION
SCALE 1:30

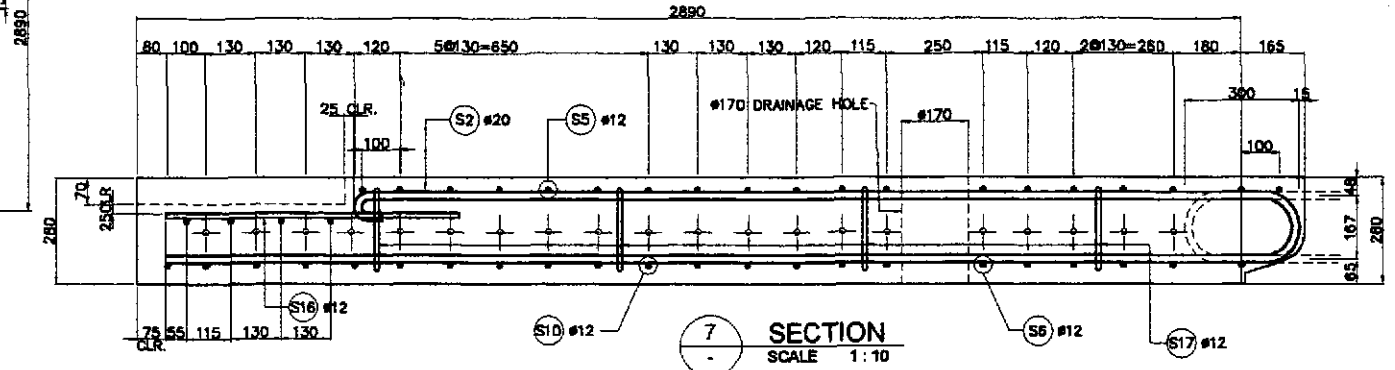
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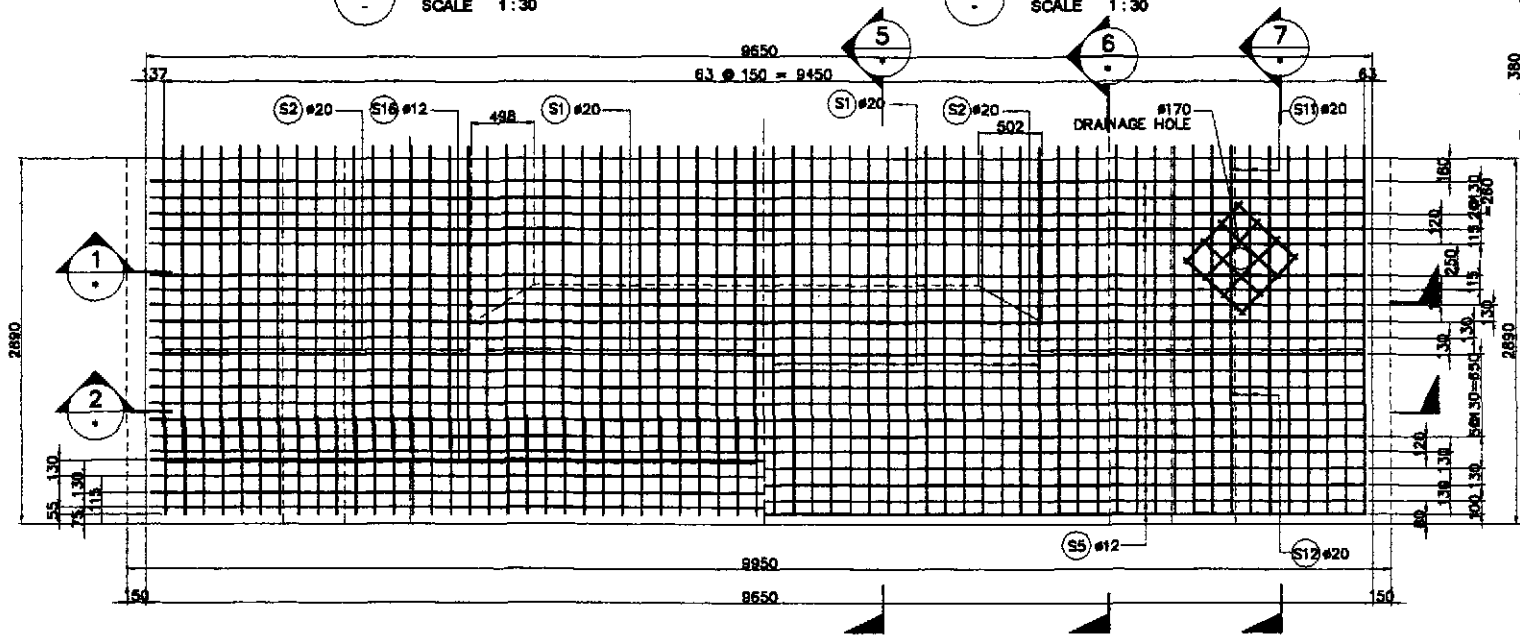
5 SECTION
SCALE 1:10



6 SECTION
SCALE 1:10



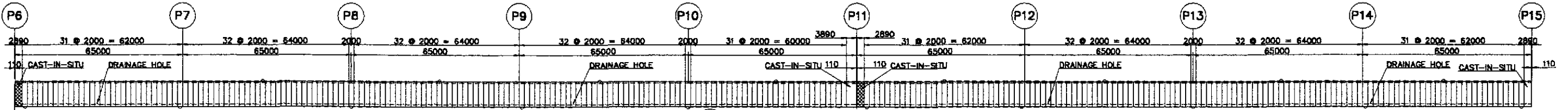
7 SECTION
SCALE 1:10



3 SECTION
SCALE 1:30

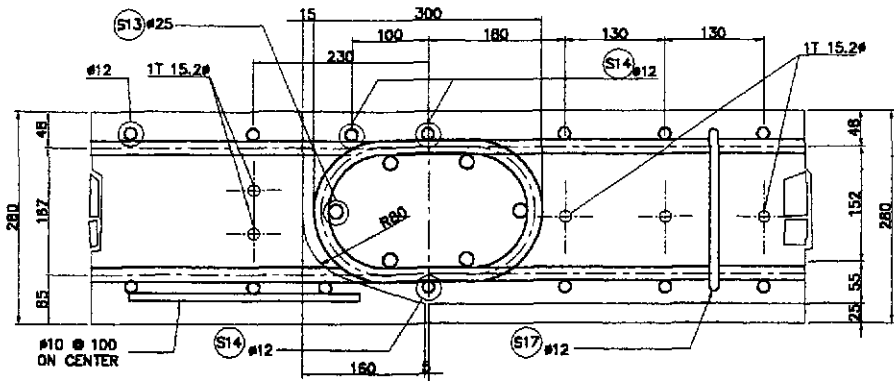
4 SECTION
SCALE 1:30

1 CAST-IN-SITU DECK SLAB REINFORCEMENT (PIER 6-R & PIER 11-R)
SCALE 1:200

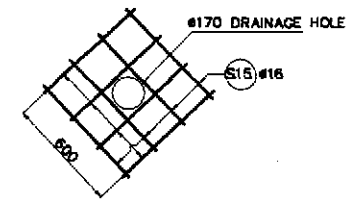


KEY PLAN
SCALE NTS

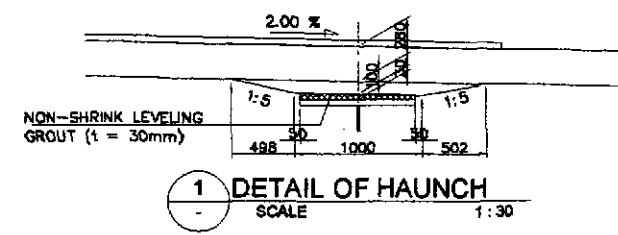
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|--|-----------|------|-----------|--------------------------------------|--|---------------------------------------|------------------------------------|-----------------------------------|--------------|--|-------------------------------------|---|-------------------------------|
| | DESIGNED | DATE | SIGNATURE | | REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS | | | | | PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Piaridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III | SCALE : AS SHOWN FULL SIZE A1 | SHEET CONTENTS : BRIDGE NO. 10 PAMPANGA RIVER BRIDGE CAST-IN-SITU DECK SLAB REINF. (PIER 6-R & PIER 11-R) (INITIAL STAGE) | SHEET NO. : B10M-40 |
| | CHECKED | | | | BUREAU OF DESIGN | | | | | | | | |
| | SUBMITTED | | | | Submitted By: | Reviewed By: | Recommended By: | Approved By: | Approved By: | | | | |
| | | | | DANLO C. TRAJANO Project Director | ADRIANO M. DOROY Chief, Bridges Division | GILBERTO S. REYES Director IV (DC) | MANUEL M. BONDAN Undersecretary | SIMEON A. DATUMANONG Secretary | | | | | |



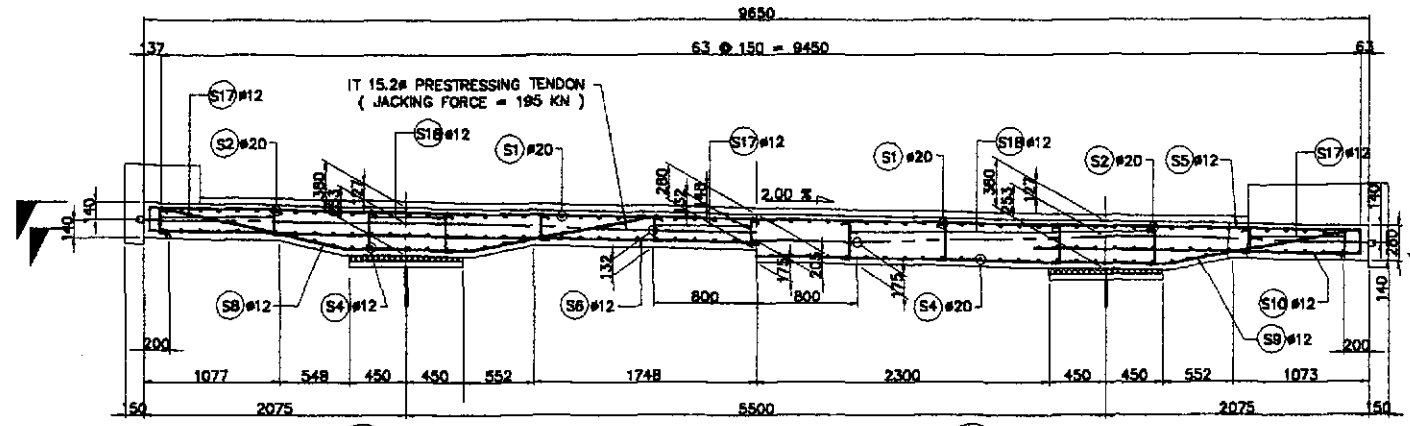
1 DETAIL OF CONNECTION BET. SLAB PANELS
SCALE 1:6



2 DETAIL OF HOLE
SCALE 1:20

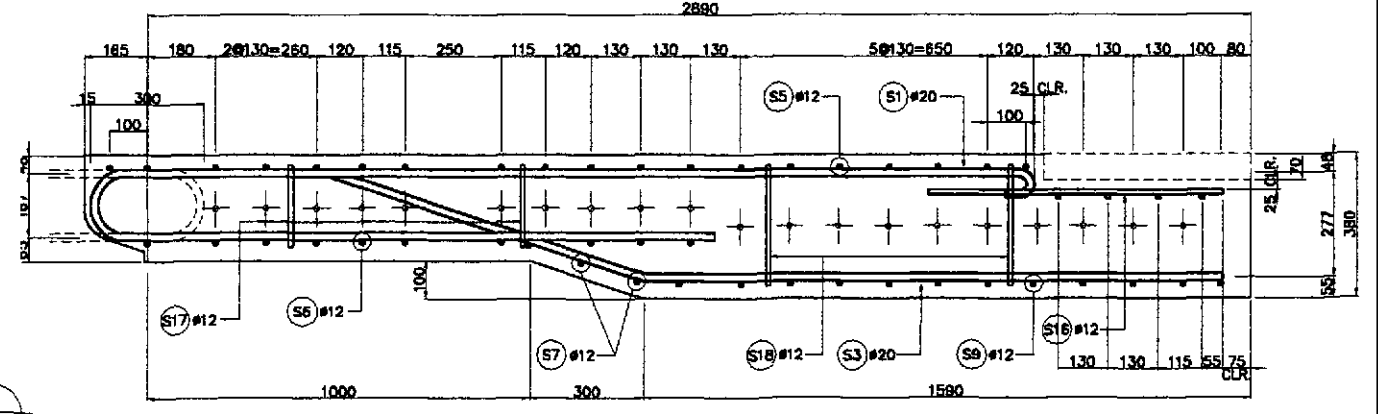


1 DETAIL OF HAUNCH
SCALE 1:30

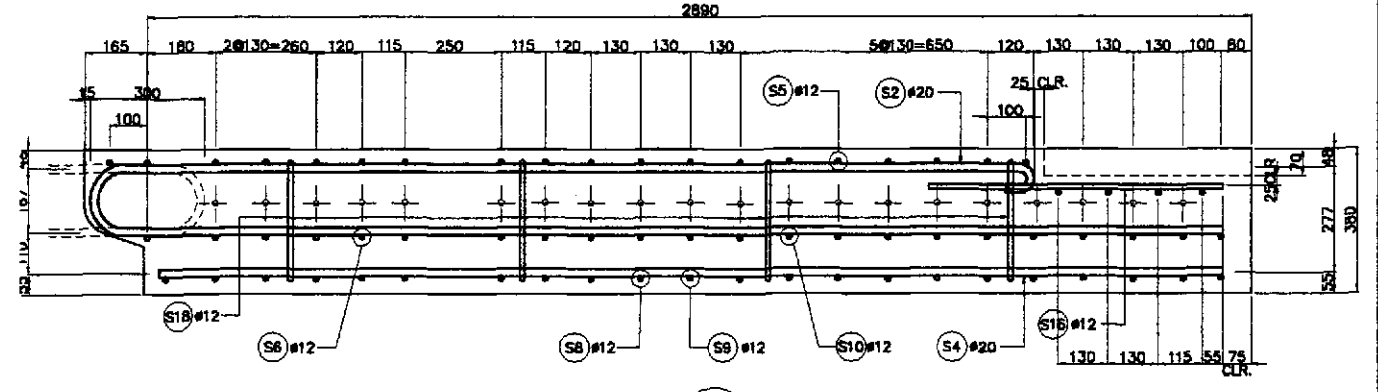


1 SECTION
SCALE 1:30

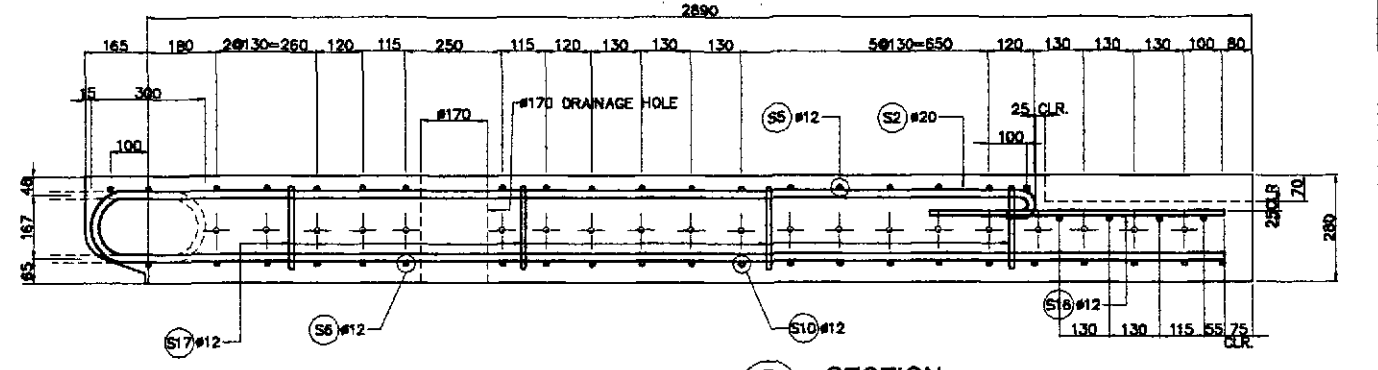
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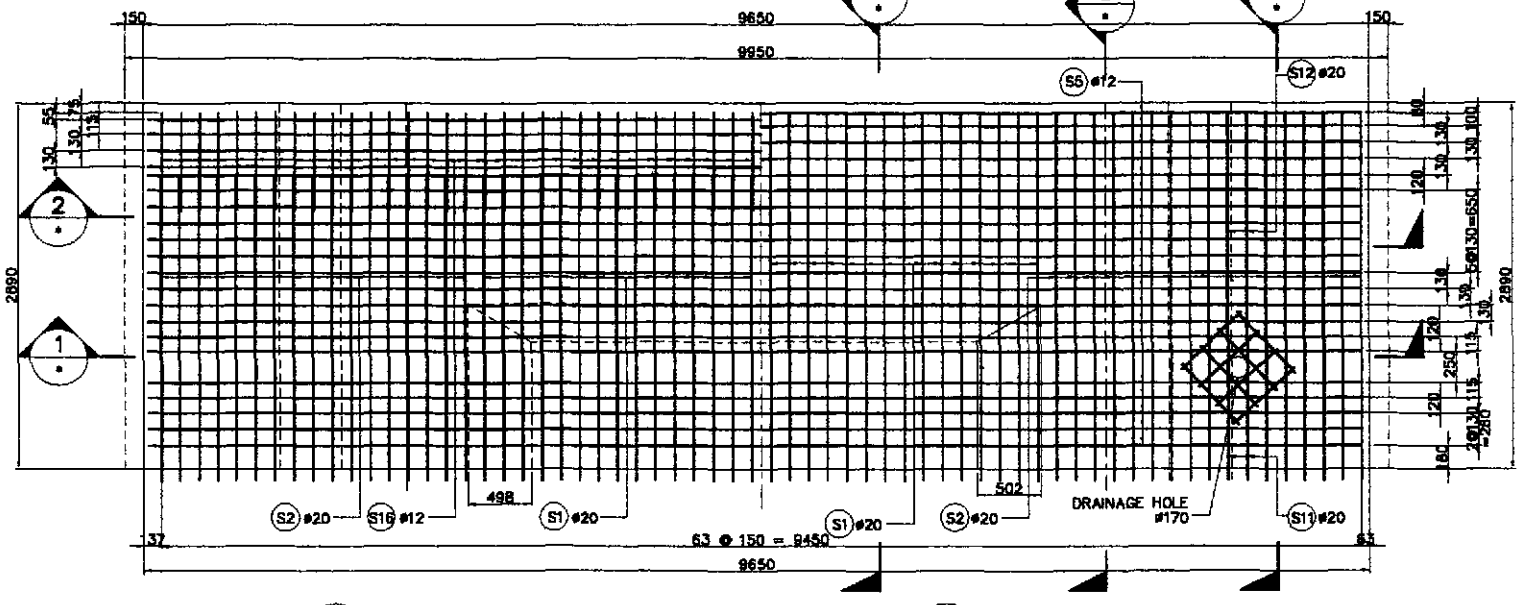
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SCALE 1:10



6 SECTION
SCALE 1:10



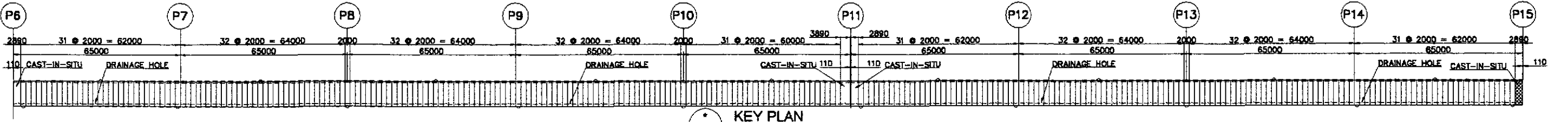
7 SECTION
SCALE 1:10



3 SECTION
SCALE 1:30

4 SECTION
SCALE 1:30

1 CAST-IN-SITU DECK SLAB REINFORCEMENT (PIER 15-L)
SCALE 1:200

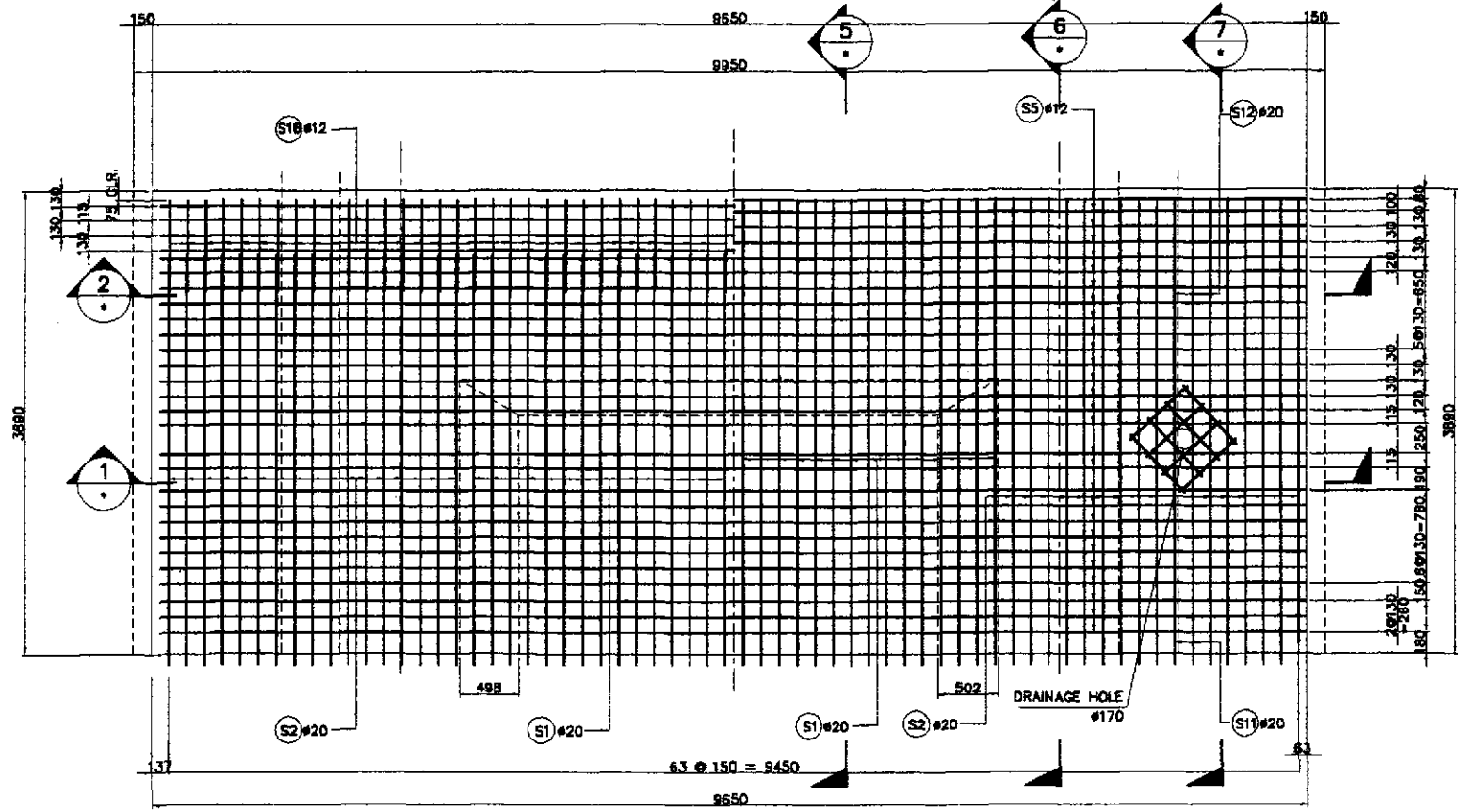
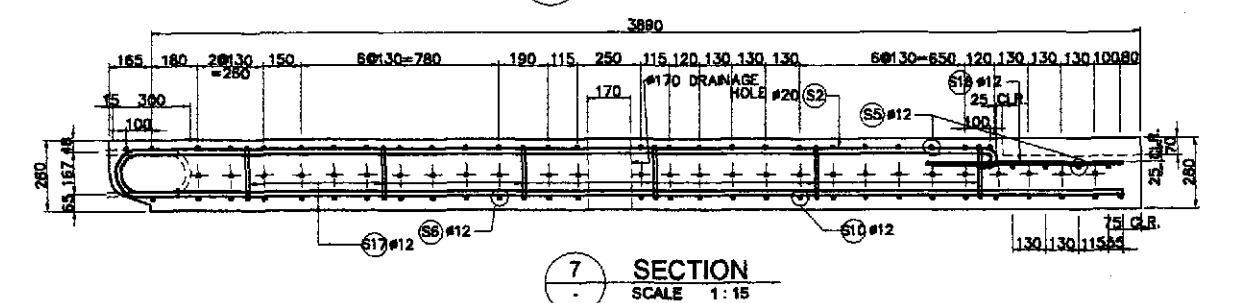
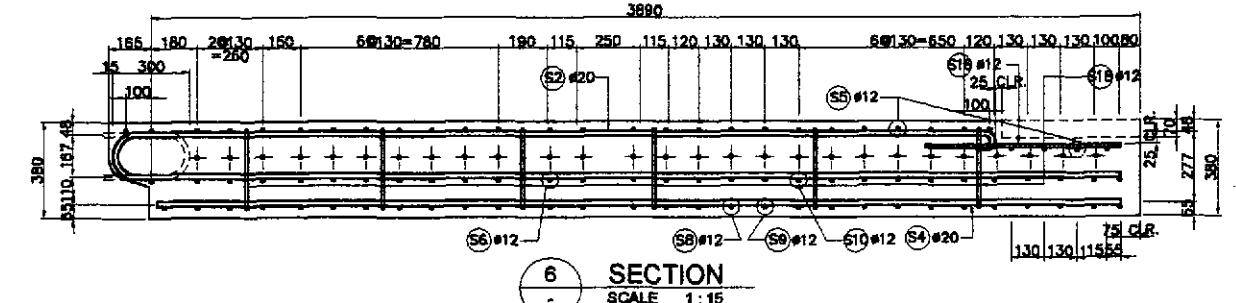
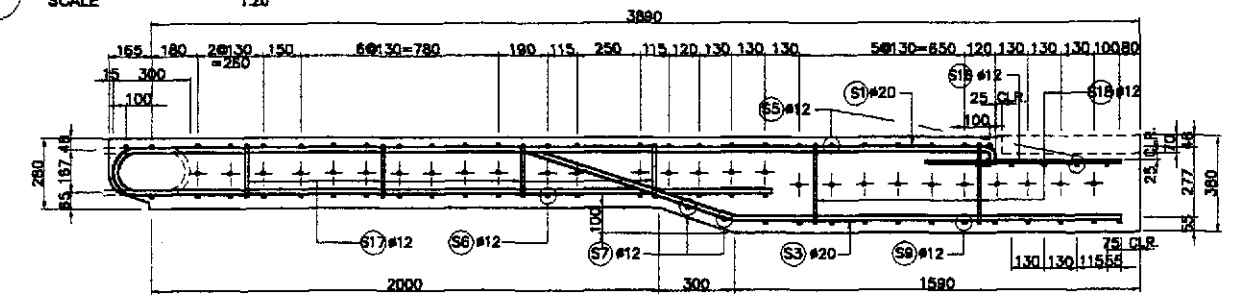
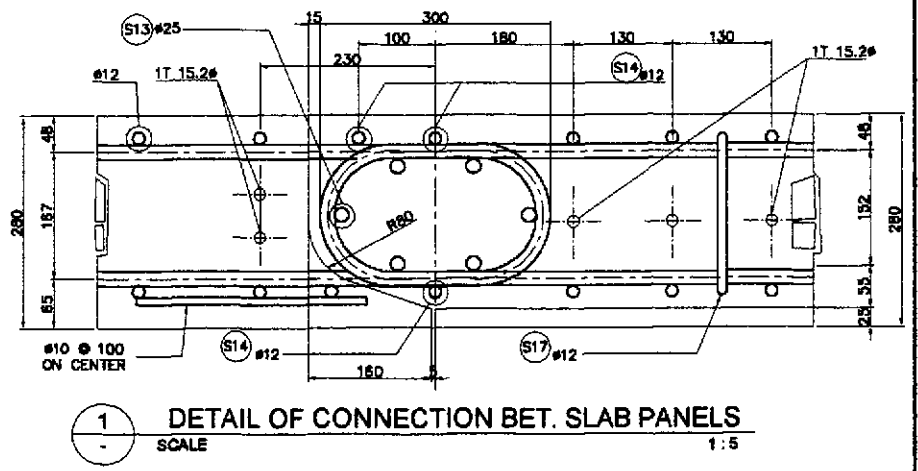
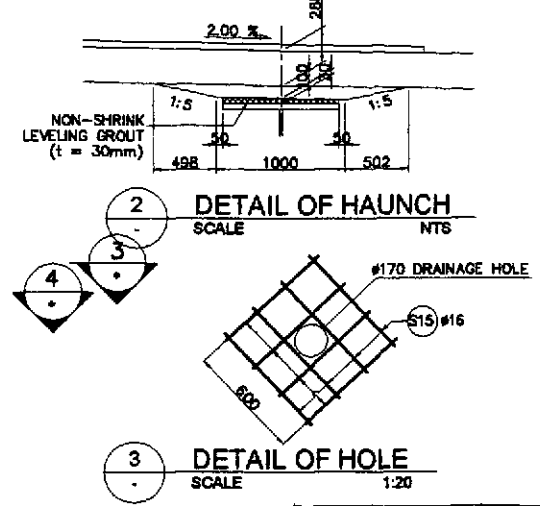
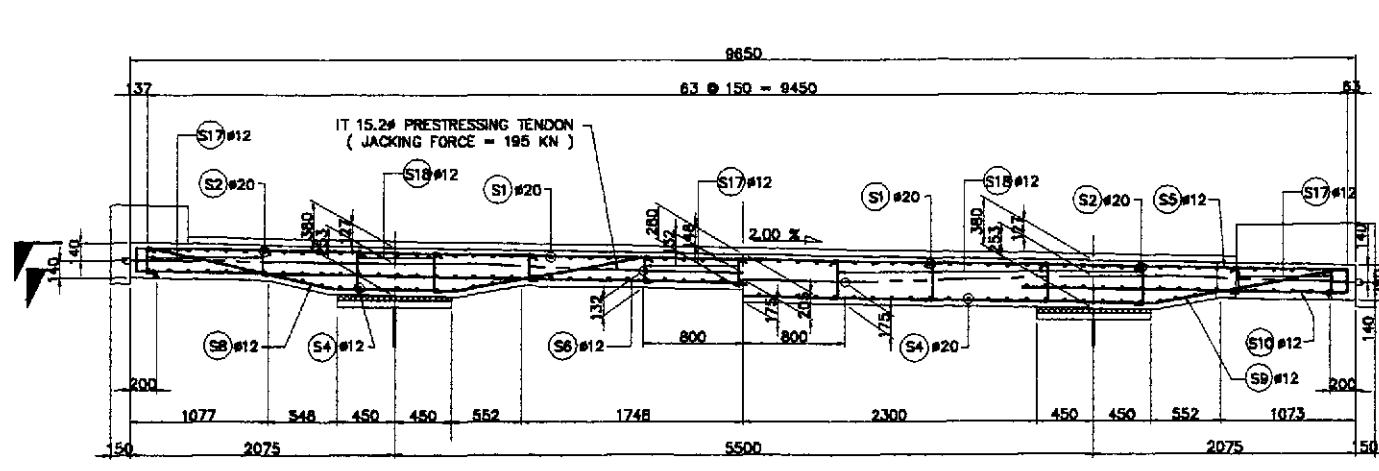


KEY PLAN
SCALE NTS

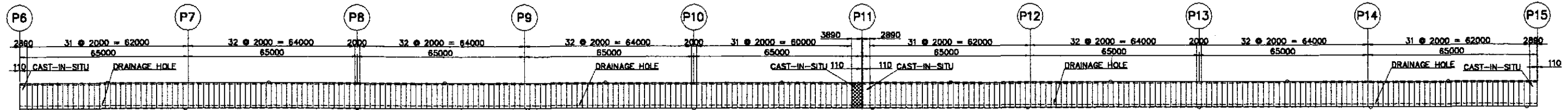
JICA
JAPAN INTERNATIONAL COOPERATION AGENCY
KATAHIRA & ENGINEERS
YEO YACHIO ENGINEERING CO., LTD.

| DESIGNED | DATE | SIGNATURE | REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS | |
|----------|------|-------------|--|---|
| 10/8/02 | | F. M. SANAS | BUREAU OF DESIGN | |
| 10/17/02 | | E. SANTOS | Submitted By: | Reviewed By: |
| 10/19/02 | | R. ROSE | DANILO C. TRAJANO Project Director | ADRIANO M. DOROS Chief, Bridges Division |
| | | | Recommended By: | Recommended By: |
| | | | GILBERTO S. REYES Director IV (OIC) | MANUEL M. BONGMAN Undersecretary |
| | | | Approved By: | Approved By: |
| | | | SIMEON A. DATUMANONG Secretary | |

| PROJECT AND LOCATION : | SCALE : | SHEET CONTENTS : | SHEET NO. : |
|---|--------------------------|--|-------------|
| THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Paridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III | AS SHOWN FULL SIZE A1 | BRIDGE NO. 10 PAMPANGA RIVER BRIDGE CAST-IN-SITU DECK SLAB REINF. (PIER 15-L) (INITIAL STAGE) | B10M-41 |



1 CAST-IN-SITU DECK SLAB REINFORCEMENT (PIER 11 - L)
SCALE AS SHOWN



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REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

BUREAU OF DESIGN
Submitted By: DANILO C. TRAJANO, Project Director

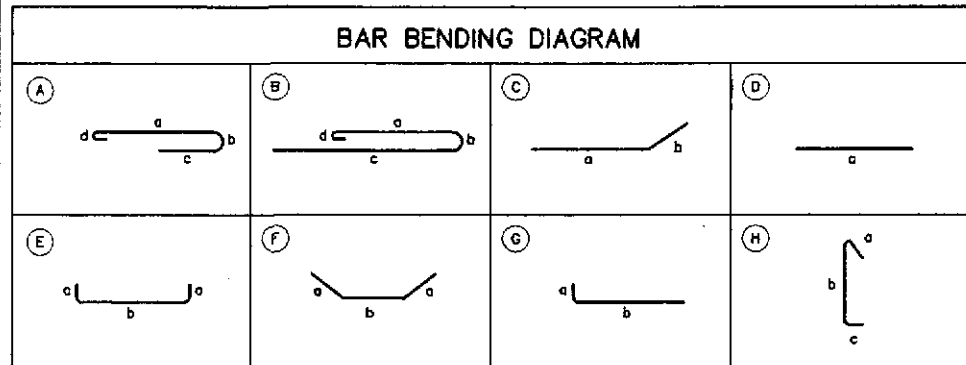
OFFICE OF THE SECRETARY
Reviewed By: ADRIANO M. DOROY, Chief, Bridge Division
Recommended By: GILBERTO S. REYES, Director IV (OC)
Manuel M. BONGAON, Undersecretary
Simeon A. DATUMANONG, Secretary

PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III

SCALE : AS SHOWN FULL SIZE A1

SHEET CONTENTS : BRIDGE NO. 10 PAMPANGA RIVER BRIDGE CAST-IN-SITU DECK SLAB REINF. (PIER 11-L) (INITIAL STAGE)

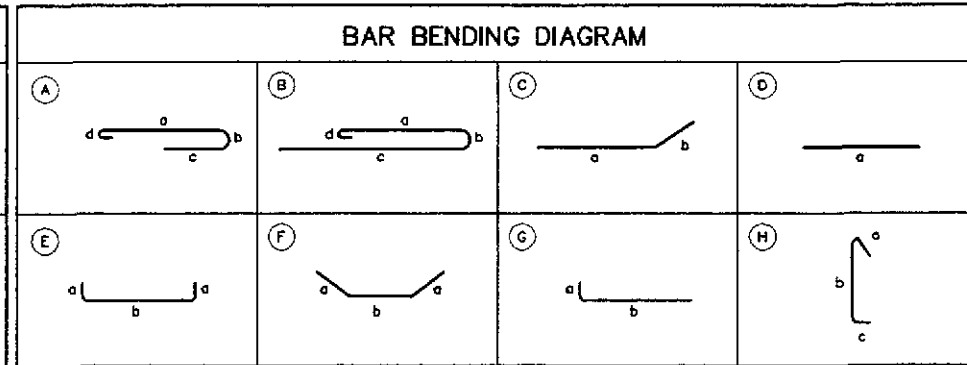
SHEET NO. : B10M-42



SCHEDULE OF REINFORCEMENT

| LOCATION | BAR MARK | SIZE (mm) | BEND TYPE | DIMENSION(mm) OUT TO OUT | | | | | LENGTH (mm) | NO. REQ'D. | UNIT WEIGHT (kg/m) | WEIGHT (kg) | |
|--|----------|-----------|-----------|--------------------------|------|------|-----|---|-------------|------------|--------------------|-------------|----------|
| | | | | a | b | c | d | e | | | | GRADE 40 | GRADE 60 |
| CAST-IN-SITU DECK SLAB (L = 2890) PIER 8-R & PIER 11-R | S1 | 20 | A | 2298 | 262 | 1557 | 270 | | 4390 | 30 | 2.466 | | 325 |
| | S2 | 20 | B | 2298 | 262 | 2872 | 270 | | 5710 | 32 | 2.466 | | 451 |
| | S3 | 20 | C | 1515 | 980 | | | | 2500 | 30 | 2.466 | | 185 |
| | S4 | 12 | D | 2850 | | | | | 2850 | 48 | 0.888 | 122 | |
| | S5 | 12 | D | 9550 | | | | | 9550 | 21 | 0.888 | 179 | |
| | S6 | 12 | E | 165 | 9550 | | | | 9880 | 10 | 0.888 | 88 | |
| | S7 | 12 | D | 9550 | | | | | 9550 | 2 | 0.888 | 17 | |
| | S8 | 12 | F | 1581 | 993 | | | | 4160 | 20 | 0.888 | 74 | |
| | S9 | 12 | F | 1581 | 6500 | | | | 9670 | 12 | 0.888 | 104 | |
| | S10 | 12 | G | 165 | 2525 | | | | 2690 | 22 | 0.888 | 53 | |
| | S11 | 20 | B | 757 | 262 | | | | 1780 | 2 | 2.466 | | 9 |
| | S12 | 20 | D | 2000 | | | | | 2000 | 4 | 2.466 | | 20 |
| | S13 | 25 | D | 9550 | | | | | 9550 | 6 | 3.854 | | 221 |
| | S14 | 12 | D | 9550 | | | | | 9550 | 3 | 0.888 | 26 | |
| | S15 | 16 | D | 600 | | | | | 600 | 16 | 1.579 | 16 | |
| | S16 | 12 | D | 770 | | | | | 770 | 30 | 0.888 | 21 | |
| | S17 | 12 | H | 130 | 230 | 110 | | | 470 | 26 | 0.888 | 11 | |
| | S18 | 12 | H | 130 | 330 | 110 | | | 570 | 26 | 0.888 | 14 | |
| TOTAL = | | | | | | | | | | | 725 kgs. | 1,211 kgs. | |

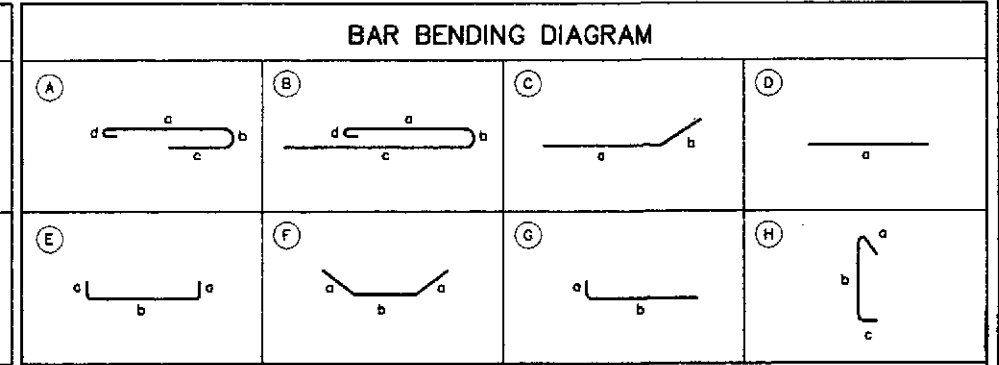
THE REINFORCEMENT SHOWN ON THIS TABLE IS FOR REFERENCE ONLY. THE CONTRACTOR SHOULD CHECK AND VERIFY ALL DIMENSIONS, SIZES AND QUANTITIES OF REINFORCEMENT.



SCHEDULE OF REINFORCEMENT

| LOCATION | BAR MARK | SIZE (mm) | BEND TYPE | DIMENSION(mm) OUT TO OUT | | | | | LENGTH (mm) | NO. REQ'D. | UNIT WEIGHT (kg/m) | WEIGHT (kg) | |
|---|----------|-----------|-----------|--------------------------|------|------|-----|---|-------------|------------|--------------------|-------------|----------|
| | | | | a | b | c | d | e | | | | GRADE 40 | GRADE 60 |
| CAST-IN-SITU DECK SLAB (L = 2890) PIER 13-L | S1 | 20 | A | 2298 | 262 | 1557 | 270 | | 4390 | 30 | 2.466 | | 325 |
| | S2 | 20 | B | 2298 | 262 | 2872 | 270 | | 5710 | 32 | 2.466 | | 451 |
| | S3 | 20 | C | 1515 | 980 | | | | 2500 | 30 | 2.466 | | 185 |
| | S4 | 12 | D | 2850 | | | | | 2850 | 48 | 0.888 | 122 | |
| | S5 | 12 | D | 9550 | | | | | 9550 | 21 | 0.888 | 179 | |
| | S6 | 12 | E | 165 | 9550 | | | | 9880 | 10 | 0.888 | 88 | |
| | S7 | 12 | D | 9550 | | | | | 9550 | 2 | 0.888 | 17 | |
| | S8 | 12 | F | 1581 | 993 | | | | 4160 | 20 | 0.888 | 74 | |
| | S9 | 12 | F | 1581 | 6500 | | | | 9670 | 12 | 0.888 | 104 | |
| | S10 | 12 | G | 165 | 2525 | | | | 2690 | 22 | 0.888 | 53 | |
| | S11 | 20 | B | 757 | 262 | | | | 1780 | 2 | 2.466 | | 9 |
| | S12 | 20 | D | 2000 | | | | | 2000 | 4 | 2.466 | | 20 |
| | S13 | 25 | D | 9550 | | | | | 9550 | 6 | 3.854 | | 221 |
| | S14 | 12 | D | 9550 | | | | | 9550 | 3 | 0.888 | 26 | |
| | S15 | 16 | D | 600 | | | | | 600 | 16 | 1.579 | 16 | |
| | S16 | 12 | D | 770 | | | | | 770 | 30 | 0.888 | 21 | |
| | S17 | 12 | H | 130 | 230 | 110 | | | 470 | 26 | 0.888 | 11 | |
| | S18 | 12 | H | 130 | 330 | 110 | | | 570 | 26 | 0.888 | 14 | |
| TOTAL = | | | | | | | | | | | 725 kgs. | 1,211 kgs. | |

THE REINFORCEMENT SHOWN ON THIS TABLE IS FOR REFERENCE ONLY. THE CONTRACTOR SHOULD CHECK AND VERIFY ALL DIMENSIONS, SIZES AND QUANTITIES OF REINFORCEMENT.



SCHEDULE OF REINFORCEMENT

| LOCATION | BAR MARK | SIZE (mm) | BEND TYPE | DIMENSION(mm) OUT TO OUT | | | | | LENGTH (mm) | NO. REQ'D. | UNIT WEIGHT (kg/m) | WEIGHT (kg) | |
|---|----------|-----------|-----------|--------------------------|------|------|-----|---|-------------|------------|--------------------|-------------|----------|
| | | | | a | b | c | d | e | | | | GRADE 40 | GRADE 60 |
| CAST-IN-SITU DECK SLAB (L = 3890) PIER 11-L | S1 | 20 | A | 3298 | 262 | 2507 | 270 | | 6340 | 30 | 2.466 | | 470 |
| | S2 | 20 | B | 3298 | 262 | 3872 | 270 | | 7710 | 32 | 2.466 | | 409 |
| | S3 | 20 | C | 1515 | 980 | | | | 2500 | 30 | 2.466 | | 185 |
| | S4 | 12 | D | 3850 | | | | | 3850 | 48 | 0.888 | 165 | |
| | S5 | 12 | D | 9550 | | | | | 9550 | 28 | 0.888 | 238 | |
| | S6 | 12 | E | 165 | 9550 | | | | 9880 | 17 | 0.888 | 150 | |
| | S7 | 12 | D | 9550 | | | | | 9550 | 2 | 0.888 | 17 | |
| | S8 | 12 | F | 1581 | 993 | | | | 4160 | 34 | 0.888 | 126 | |
| | S9 | 12 | F | 1581 | 6500 | | | | 9670 | 12 | 0.888 | 104 | |
| | S10 | 12 | G | 165 | 2525 | | | | 2690 | 22 | 0.888 | 53 | |
| | S11 | 20 | B | 1757 | 262 | | | | 3780 | 2 | 2.466 | | 19 |
| | S12 | 20 | D | 2000 | | | | | 2000 | 4 | 2.466 | | 20 |
| | S13 | 25 | D | 9550 | | | | | 9550 | 6 | 3.854 | | 221 |
| | S14 | 12 | D | 9550 | | | | | 9550 | 3 | 0.888 | 26 | |
| | S15 | 16 | D | 600 | | | | | 600 | 16 | 1.579 | 16 | |
| | S16 | 12 | D | 770 | | | | | 770 | 30 | 0.888 | 21 | |
| | S17 | 12 | H | 130 | 230 | 110 | | | 470 | 44 | 0.888 | 19 | |
| | S18 | 12 | H | 130 | 330 | 110 | | | 570 | 34 | 0.888 | 18 | |
| TOTAL = | | | | | | | | | | | 953 kgs. | 1,524 kgs. | |

THE REINFORCEMENT SHOWN ON THIS TABLE IS FOR REFERENCE ONLY. THE CONTRACTOR SHOULD CHECK AND VERIFY ALL DIMENSIONS, SIZES AND QUANTITIES OF REINFORCEMENT.

SCHEDULE OF PRESTRESSING TENDONS

| CAST-IN-SITU DECK SLAB | TYPE-SIZE | JACKING FORCE PER TENDON (kN) | ELONGATION OF TENDON | | NO. OF TENDONS (nos.) | LENGTH OF TENDON (m) | UNIT WEIGHT PER TENDON (kg/m) | WEIGHT (kg) |
|------------------------|-----------|-------------------------------|----------------------|------------|-----------------------|----------------------|-------------------------------|-------------|
| | | | LEFT (mm) | RIGHT (mm) | | | | |
| 6-R (2890) | 1-15.2# | 195 | 35 | 35 | 20 | 12.362 | 1.10 | 272 |
| 11-L (3890) | 1-15.2# | 195 | 35 | 35 | 27 | 12.362 | 1.10 | 368 |
| 11-R (2890) | 1-15.2# | 195 | 35 | 35 | 20 | 12.362 | 1.10 | 272 |
| 15-L (2890) | 1-15.2# | 195 | 35 | 35 | 20 | 12.362 | 1.10 | 272 |
| TOTAL = | | | | | | | | 1,184 kgs. |

THE PRESTRESSING TENDONS SHOWN ON THIS TABLE IS FOR REFERENCE ONLY. THE CONTRACTOR SHOULD CHECK AND VERIFY ALL DIMENSIONS, SIZES AND QUANTITIES OF PRESTRESSING TENDONS.

- NOTE :
- PRESTRESSING STEEL SHALL BE SEVEN-WIRE UNCOATED STRESS-RELIEVED STRANDS AND SHALL CONFORM TO AASTHO M203 (ASTM A 146) WITH MINIMUM ULTIMATE STRENGTH OF $F_y = 1860 \text{ MPa}$ (270 ksi).
 - FORCES IN TENDONS AND ELONGATIONS OF TENDONS SHALL BE CALCULATED ASSUMING THE FOLLOWING CHARACTERISTICS :
 - ANCHORAGE SLIP = 6 MM (AFTER LOCK-OFF)
 - WOBBLE COEFFICIENT = 0.002/METER GALVANIZED STEEL SHEATHING
 - CURVATURE COEFFICIENT = 0.30 PER RADIAN
 - AN ADDITIONAL 1.35 M IS ADDED AT BOTH ENDS OF JACKING FOR TENDON LENGTH.
 - THE ELONGATION SHOWN IN THE TABLE IS FOR REFERENCE ONLY. THE CONTRACTOR SHOULD SUBMIT CALCULATION OF ELONGATIONS BASED ON THE PARAMETERS GIVEN.

| | | | | | | | | | | | |
|--|------------------------------|---------------------|-------------------------------|--|--|-------------------------|--|--|---------------------|---|-------------------------------|
| | DESIGNED: <i>[Signature]</i> | DATE: <i>[Date]</i> | SIGNATURE: <i>[Signature]</i> | | REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS | | | PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) | SCALE : AS SHOWN | SHEET CONTENTS : BRIDGE NO. 10 PAMPANGA RIVER BRIDGE SCHEDULE OF REINFORCEMENT (CAST-IN-SITU DECK SLAB) (INITIAL STAGE) | SHEET NO. : B10M-43 |
| | CHECKED: <i>[Signature]</i> | DATE: <i>[Date]</i> | SIGNATURE: <i>[Signature]</i> | | BUREAU OF DESIGN | OFFICE OF THE SECRETARY | CABANATUAN BYPASS - CONTRACT PACKAGE III | | | | |