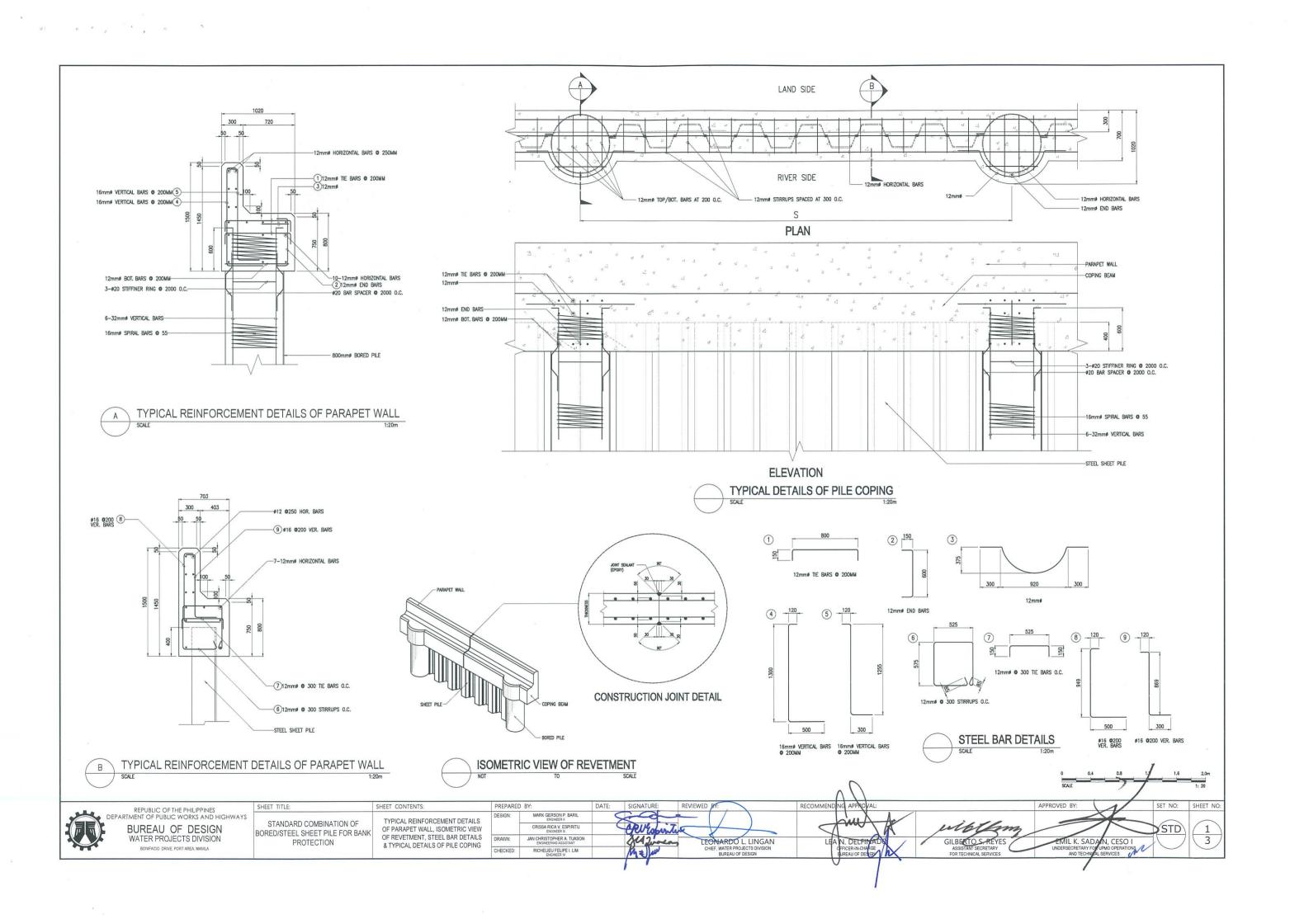
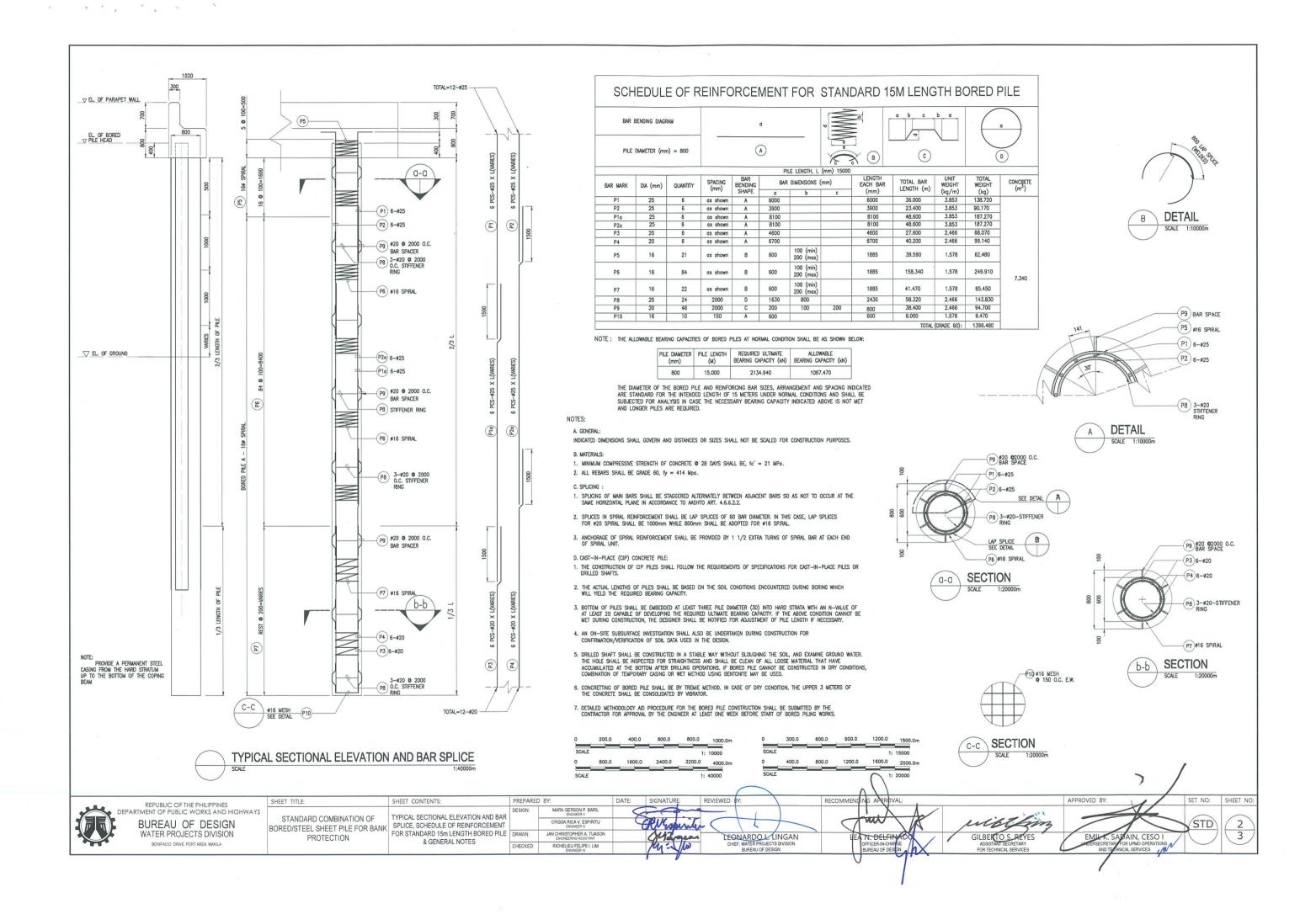
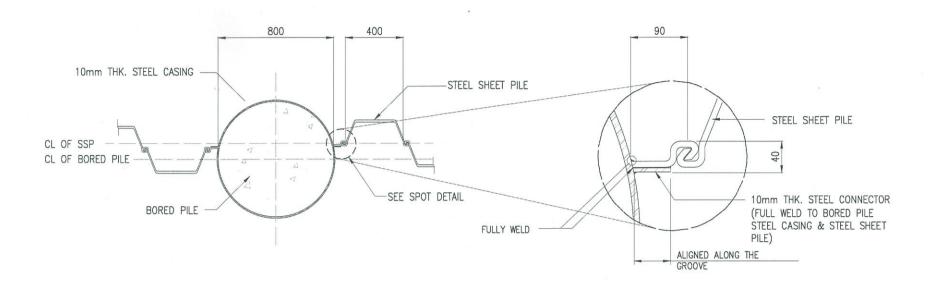


STANDARD COMBINATION OF BORED/STEEL SHEET PILE FOR BANK PROTECTION





PLAN

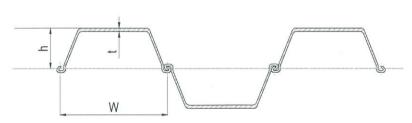


TYPICAL BORED PILE TO SSP CONNECTION DETAIL
NOT TO SCALE

GENERAL NOTES:

Since the second second

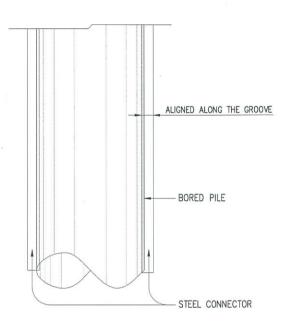
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL PROVISIONS IN ITEM 1716—PILING AND ITEM 1717—SHEET PILES OF DPWH STANDARD SPECIFICATIONS.
- BEFORE ANY WORK BEGINS IN ENVIRONMENTALLY SENSITIVE AREAS, TEMPORARY EROSION CONTROL MEASURES AND PROPER MANAGEMENT PRACTICES SHALL BE IN PLACE.
- 3. ALL TEMPORARY FENCING FOR PROTECTED AREAS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF WORK.
- LOW GROUND DISTURBING EQUIPMENT SHALL BE UTILIZED IN ENVIRONMENTALLY SENSITIVE AREAS AS APPROVED BY THE CIVIL ENGINEER—IN—CHARGE.
- STEEL SHEET PILES SHALL MEET THE REQUIREMENTS OF AASHTO M 202 (ASTM A328), OR AASHTO M 223. THE JOINTS SHALL BE PRACTICALLY WATER-TIGHT WHEN THE PILES ARE IN PLACE.
- 6. SHEET PILES SHALL BE DRIVEN TO ELEVATION SHOWN IN THE PLAN OR AS DIRECTED BY ENGINEER—IN—CHARGE.
- 7. THE REQUIREMENTS GOVERNING THE INSTALLATION OF SHEET PILING SHALL CONFORM IN GENERAL TO THOSE GOVERNING BEARING PILES AS SET FORTH UNDER ITEM 400 PILING OF DPWH STANDARD SPECIFICATION.
- 8. THE LENGTH AND SECTION MODULUS OF STEEL SHEET PILE SHALL BE BASED ON THE RESULT OF THE GEOTECHNICAL INVESTIGATION AND STABILITY ANALYSES.



W = WIDTH, h = HEIGHT, t = THICKNESS



ELEVATION



NOTE:

- THE STEEL CONNECTOR TO BE WELDED ALONGSIDE OF THE STEEL CASING OF THE BORED PILE SHALL HAVE A LENGTH EQUAL TO THE LENGTH OF THE ADJACENT STEEL SHEET PILE.
- ALL SURFACES TO BE WELDED SHOULD BE FREE OF PAINT, SLAG, LOOSE SCALE, RUST AND OTHER FOREIGN MATERIALS.
- GROOVE WELD SHALL EXTEND THE FULL LENGTH DIAMETER OF THE BORED PILE CASING DESIGN CRITERIA:

WELDING (SMAW PROCESS)
CAPACITY OF WELDING = 0.707T + 0.3FU
ALLOWABLE SHEARING STRESS = 0.30FU
MILD STEEL ELECTRODE, LOW HYDROGEN AWS/ASME: 5.1: E7016
TENSILE STRENGTH = 595 MPA
YIELDING STRENGTH = 450 MPA
FU = 483 MPA

4. THE CENTERLINE OF SSP SHALL HAVE PARALLEL DISTANCE FROM THE CENTERLINE OF THE BORED PILE OF AT LEAST HALF THE HEIGHT OF THE SSP BUT NOT GREATER THAN 1/4 OF THE DIAMETER OF THE BORED PILE.



STANDARD COMBINATION OF BORED/STEEL SHEET PILE FOR BANK PROTECTION

SHEET CONTENTS:

TYPICAL BORED PILE TO SSP
CONNECTION DETAIL,
SHEET PILE DETAIL
AND GENERAL NOTES

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DIORIGER I
CRISSA RICA V. SEPIRITU
DIORIGER I
CRISSA RICA V. SEPIRITU
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BUREAU OF DESIGN

DELFINADO OFFICER-IN-CHARGE BUFEAU OF DESIGN GILBERTO S. REVES EMIL K. SADAIN, CESO I ONDERSECRETARY OF PRATICISES

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SHEET NO: