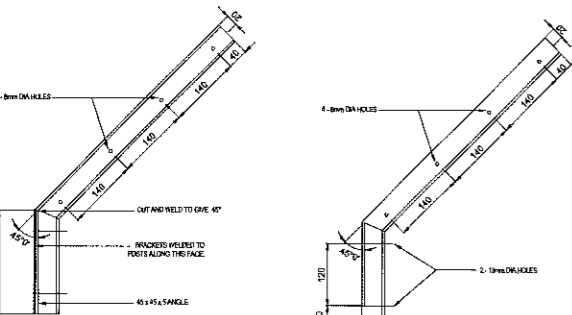
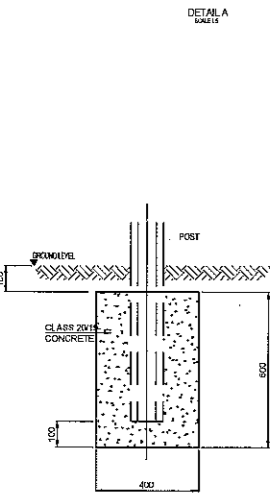


PUMP STATION FENCING LAYOUT
SCALE 1:50

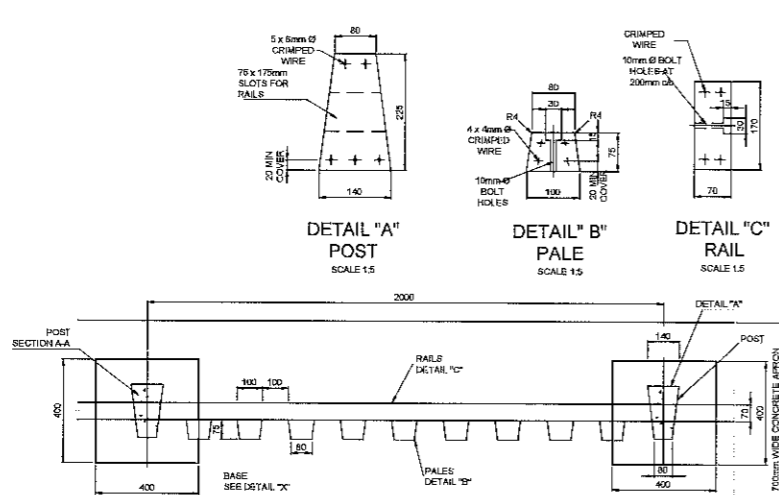


STANDARD CANTILEVER BRACKET

SPECIAL CANTILEVER BRACKET



DETAIL "X"
POST FOUNDATION
SCALE 1:10

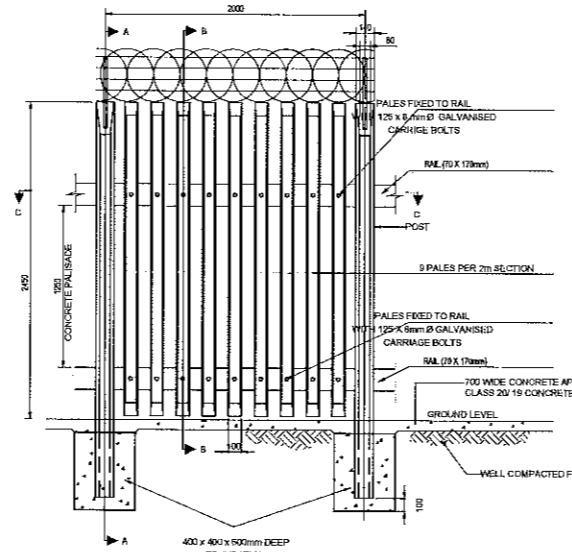


DETAIL "A"
POST
SCALE 1:5

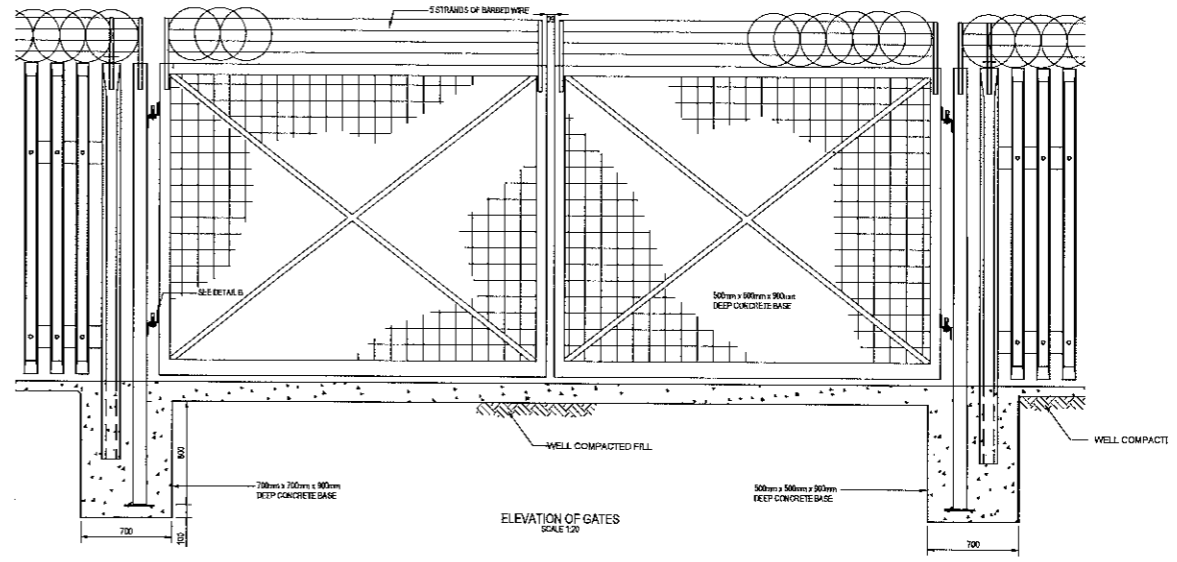
DETAIL "B"
PALE
SCALE 1:5

DETAIL "C"
RAIL
SCALE 1:5

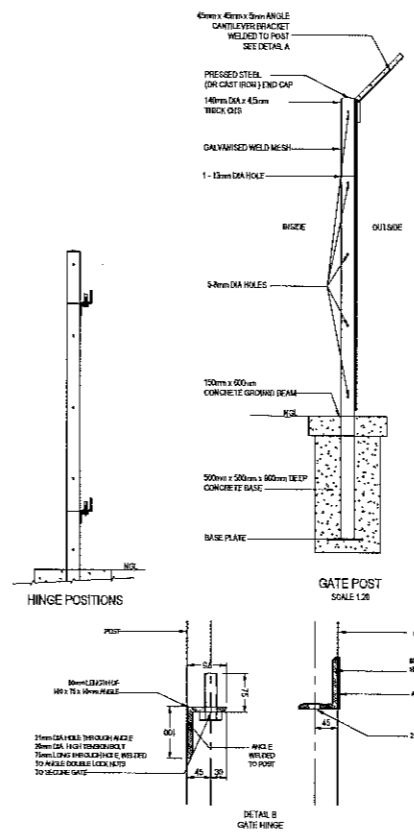
SECTION C - C
TYPICAL MODULE OF FENCING
SCALE 1:10



ELEVATION
SCALE 1:20

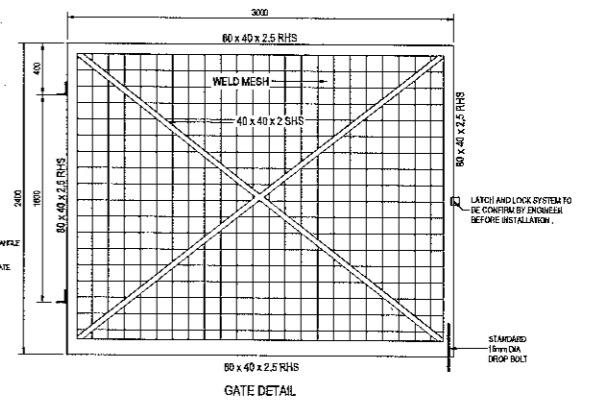


ELEVATION OF GATES
SCALE 1:20

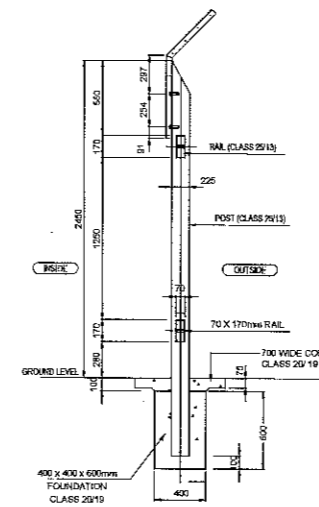


HINGE POSITIONS
SCALE 1:20

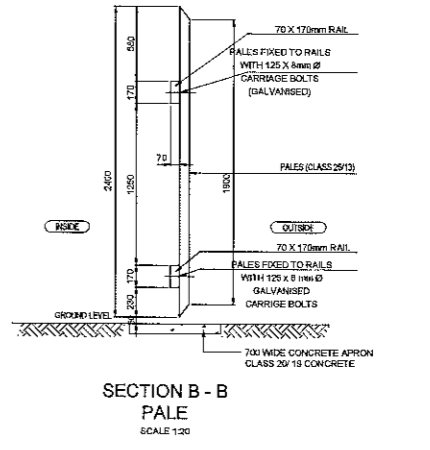
GATE POST
SCALE 1:20



GATE DETAIL



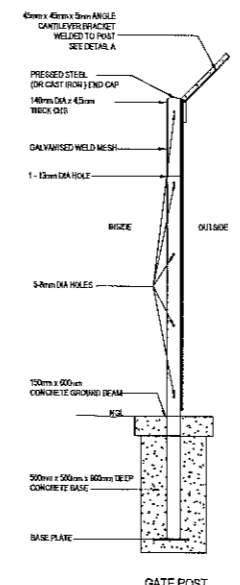
SECTION A - A
POST
SCALE 1:20



SECTION B - B
PALE
SCALE 1:20

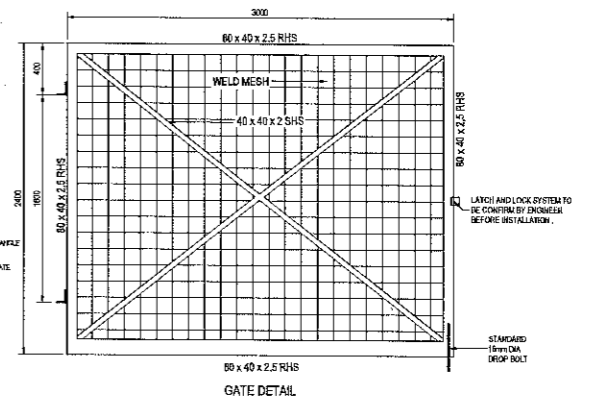
FENCE
DETAILS

ISSUED FOR TENDER

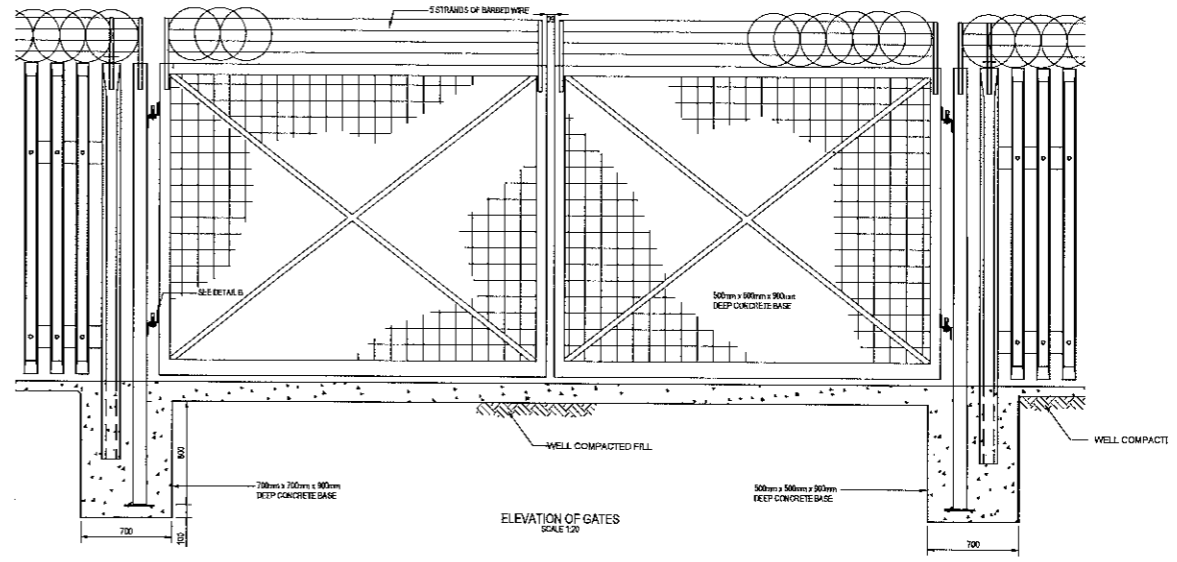


HINGE POSITIONS
SCALE 1:20

GATE POST
SCALE 1:20



GATE DETAIL



ELEVATION OF GATES
SCALE 1:20

ALL DIMENSIONS AND LEVELS TO BE REFERRED TO BY THE CONTRACTOR BEFORE COMMENCING ANY WORK.

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ON ORIGINAL

GENERAL NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS.
- DIMENSIONS ARE TO BE CHECKED ON SITE.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.
- 50mm REINFORCING LAYER TO BE PLACED BELOW ALL WORKING LEVELS UNLESS OTHERWISE INDICATED.
- ALL EXCAVATIONS TO BE INSPECTED BY ENGINEER PRIOR TO ANY CONCRETE BEING PLACED.
- COMPARISON OF EXISTING MATERIAL UNDER STRUCTURES TO BE UNDERTAKEN AS INSTRUCTED BY THE ENGINEER AFTER INSPECTION OF THE FOUNDING PLATFORM.
- CONTRACTOR TO CHECK LEVELS WITH ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- BEFORE COMMENCEMENT OF THE MANUFACTURE OF ALL STEELWORK, DIMENSIONS MUST BE CHECKED ON SITE.
- ALL STEELWORK TO BE HOT DIP GALVANIZED.
- STEEL FITTINGS AND HPS WORK TO BE HOT DIP GALVANIZED AND PAINTED WITH AN APPROVED QUALITY DECORATIVE PAINT SYSTEM AS SPECIFIED IN THE DOCUMENT AND THE ENGINEER. ALL STEELWORK WHICH IS TO BE PAINTED AND THEN PAINTED SHALL NOT BE PASSED UNTIL DURING THE REPAIRS.
- ALL REINFORCING BARS, SUPPORT BRACKETS, ETC. ARE TO BE SUPPLIED UNDER A SEPARATE CONTRACT BY THE MECHANICAL AND ELECTRICAL PLANT CONTRACTOR.
- POSITIONS AND SIZES OF ALL HOLES, POCKETS, CUTS, ETC. MUST BE DEFINED ON SITE BETWEEN THE OWNER AND PLANT CONTRACTORS.
- THE ENGINEER TO INSPECT PIPE SPECIALS AT EACH PHASE OF PREPARATION AND APPLICATION OF PAINT SYSTEM.
- ALL BOLTS, WASHERS, NUTS, ETC. SHALL BE STAINLESS STEEL UNLESS OTHERWISE STATED. THE CONTRACTOR SHALL VERIFY THAT THE MATERIAL OF THE BOLTS, WASHERS AND NUTS USED WILL NOT CAUSE ANY GALVANIC ACTION BETWEEN THEM AND THE SURROUNDING MATERIAL. SHOULD GALVANIC ACTION BE POSSIBLE, THE CONTRACTOR SHALL PROVIDE SUFFICIENT ANODIC SACRIFICE AND WASHERS FOR SUCH ACTION.
- ALL CONCRETE SHALL BE OF THE FOLLOWING GRADES AND MIN. 28 DAY WORKING COMPRESSIVE STRENGTH:
 - FOUNDATIONS - 30 MPa / f_{ck}
 - WALLS - 30 MPa / f_{ck}
 - WALKING SLABS - 30 MPa / f_{ck}
 - FLOORS - 30 MPa / f_{ck}
- CLEAR CONCRETE COVER TO REINFORCEMENT SHALL BE AS FOLLOWS:
 - FOUNDATIONS - 50mm
 - WALLS - 50mm
 - FLOORS - 50mm
- NOTE THAT CLEAR CONCRETE COVER BE MAINTAINED BY THE USE OF CONCRETE COVER BLOCKS AND NOT UNITS FROM CONCRETE WITH THE SAME STRENGTH AS THE UNITS IN WHICH IT IS INCORPORATED ON THE BASIS OF A MINIMUM OF ONE (1) COVER BLOCK PER 90° SQUARE MITRE.
- ALL REINFORCEMENT SHALL COMPLY WITH SANS 601, TYPE 1, CLASS 2 CONCRETE.
- WHERE IT IS NECESSARY TO JUDGE CONSTRUCTION JOINTS, SUCH JOINTS SHALL BE INSPECTED BY THE ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- UNLESS OTHERWISE STATED, THE CORNERS OF ALL FORMED CONCRETE SHALL BE FINISHED WITH A 20mm x 20mm CHAMFER.
- THE DEGREE OF ACCURACY SHALL BE IN ACCORDANCE WITH SANS 10400-1.
- ALL FORMED SURFACES SHALL BE AS FOLLOWS:
 - EDGES OF FOUNDATION - ROUGH
 - ALL WALLS ON BOTH SURFACES - SMOOTH
 - HANDLING MARKS NOT BE FINISHED.
- ALL FENCE RELATED STEEL MANUFACTURING WORK TO BE HOT DIP GALVANIZED.

Rev	By	Date	Checked	Date
1	AS SHOWN	JULY 2013		

DEPARTMENT OF HUMAN SETTLEMENTS

human settlements

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Project No: J28267C / T0080 / 0

Project Name: ENGCOBO EXT 11 PUMP STATION

Project Location: PUMP STATION FENCING LAYOUT DETAILS

Scale: AS SHOWN

Date: JULY 2013

Project No: J28267C / T0080 / 0