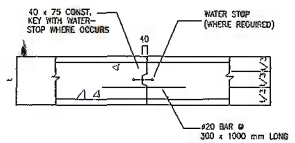
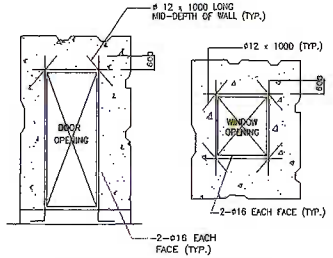
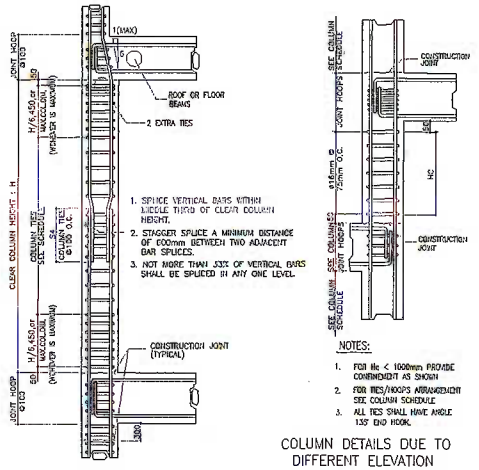
STRUCTURAL NOTES



1 S-04 R. C. WALL CONSTRUCTION JOINT



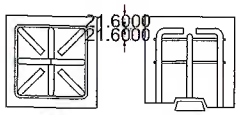
2 S-04 NON-BEARING WALL EXTERIOR WINDOW & DOOR OPENINGS



REINFORCED CONCRETE COLUMN DETAIL

COLUMN DETAILS DUE TO DIFFERENT ELEVATION

3 S-04 MISCELLANEOUS COLUMN DETAILS



REINFORCING BAR TERMINATION @ END OF COLUMN WHERE NO BEAMS FRAME AT THE END OF COLUMN

NOTE:
1. ALL CORNER BARS SHALL BE BEND.
2. FOR NO. OF BARS < 8PCS. ALL BARS ARE TO BE BEND
3. FOR NO. OF BARS > 8PCS. 50% OF THE BARS OTHER THAN THE CORNER BARS SHALL BE BEND.

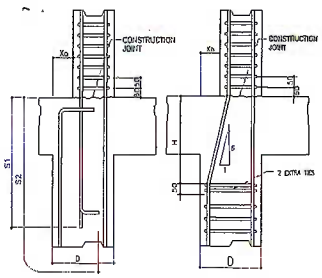
NOTES ON LAP SPLICE:

1. CENTER LINE OF SPLICE SHALL BE WITHIN CENTER HALF OF CLEAR COLUMN HEIGHT EXCEPT OTHERWISE PERMITTED BY THE ENGINEER.
2. MAXIMUM SPACING OF TIES IN LAP LENGTH (Sx) SHALL BE:
   a) 0/4 OF SMALLEST COLUMN DIMENSION
   b) BUT NOT LESSER THAN 100mm AND NOT GREATER THAN 150mm.
3. NOT MORE THAN 33% OF THE BARS SHALL BE SPLICED WITHIN THE REQUIRED LAP LENGTH

NOTES ON MECHANICAL AND WELDED SPLICE:

1. MECHANICAL AND WELDED SPLICE SHALL BE DEVELOP IN TENSION OR COMPRESSION AS REQUIRED, AT LEAST 125 PERCENT OF THE SPECIFIED YIELD STRENGTH OF THE BAR.
2. MECHANICAL SPLICE SHALL BE USED WITHIN A DISTANCE FARCE THE MAXIMUM DIMENSION OF COLUMN FROM BEAM FACE UNLESS AS STATED IN ITEM (3).
3. MECHANICAL SPLICE SHALL BE PERMITTED TO BE USED AT ANY LOCATION IF IT CONFORMS TO ITEM (1), AND SHALL BE DEVELOP THE SPECIFIED TENSILE STRENGTH OF THE SPLICED BAR.

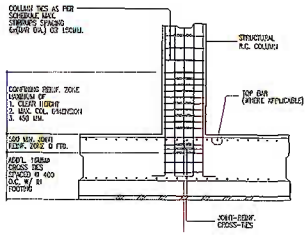
SEISMIC RESISTANT COLUMN SPLICING DETAIL



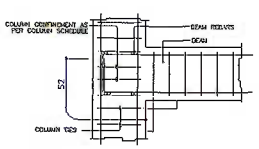
NOTES:

1. THE 90-DEGREE HOOK SHALL BE LOCATED WITHIN THE CONFINED CORE OF A COLUMN OR OF A BOUNDARY MEMBER.
   Xo = OFFSET DISTANCE

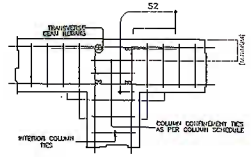
DETAILS DUE TO COLUMN OFFSETS



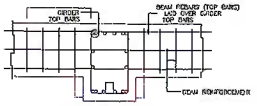
COLUMN VERTICAL BARS EMBEDMENT TO FOOTING DETAIL



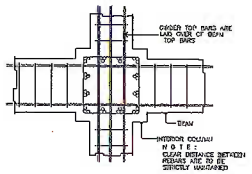
BEAM REBAR TERMINATION BEND



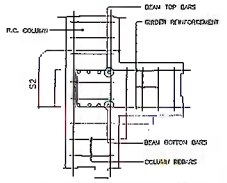
INTERIOR COLUMN TERMINATION BEND



A) AT GIRDER SPAN

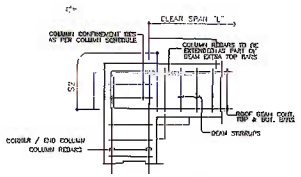


TYPICAL PLAN OF BEAM / GIRDER COLUMN JOINT



B) AT COLUMN INTERSECTION

TYP. BEAM AND GIRDER REBAR LAYOUT

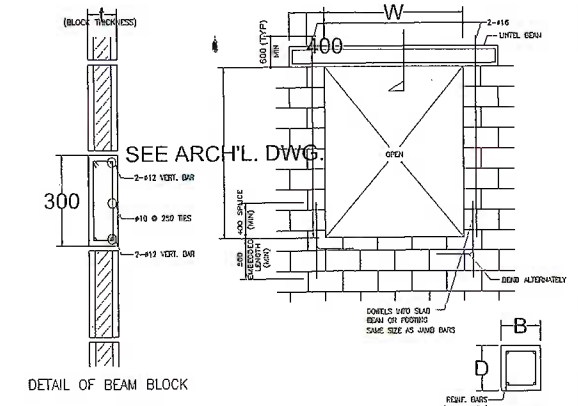


CORNER / EXTERIOR COLUMN TERMINATION BEND

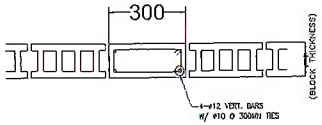
PREPARED BY :	CIVIL ENGINEER	CHECKED BY :	PROJECT TITLE :	SHEET CONTENT:	PREPARED BY:
ROMBLON STATE UNIVERSITY OFFICE OF AUXILIARY, PLANT SERVICES AND POLLUTION CONTROL UNIT	ISIDRO R. SALMINGO PRC REG. No. : 0126922 Validity : PTR No. : 1795904 Date : 1-27-17 Place : SAN JOSE, ROMBLON TIN : 446-312-742-000	JEROME ADOLFO P. PAJARITO APECS, Director APPROVED BY : ARNULFO M. DE LUNA RSU President	CONSTRUCTION OF 2 - STOREY ACADEMIC BUILDING FOR THE COLLEGE OF ENGINEERING AND TECHNOLOGY (CET) LOCATION : ROMBLON STATE UNIVERSITY - Main Campus, Liwanag, Odiongan, Romblon	AS SHOWN	CAD OPERATOR: Nenwel M. Rotoni JOB NO. : DATE :JUNE 2017

S-4

STRUCTURAL NOTES



DETAIL OF BEAM BLOCK

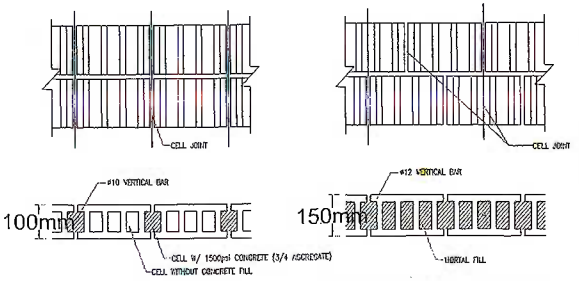


DETAIL OF POST

LINTEL BEAM SCHEDULE

W	D	D	REINF. BARS
2000 OR LESS	"t"	250	4-#12 W/ #10 @ 200 STIRRUPS
3000	"t"	300	4-#16 W/ #10 @ 200 STIRRUPS

NOTE:
a) OMIT BARS FOR OPENING LESS THAN 200 VERT. & HOR.
b) "t" THICKNESS OF WALL



INTERIOR CHB WALL TYP. DETAIL
(FOR 4" CHB)

INTERIOR CHB WALL TYP. DETAIL
(FOR 6" CHB)

NOTE:
THIS PARALLEL LAYOUT IS AN OPTION.
FOR CONVENTIONAL LAYOUT (STAGGERED)
REFER TO S-2: MASONRY BLOCK WALL

(1) S-05 CONCRETE MASONRY UNIT

GENERAL NOTES ON STRUCTURAL STEEL

1. ALL MATERIALS SHALL BE CONFORM TO THE FOLLOWING UNLESS OTHERWISE NOTED:

STRUCTURAL STEEL	:	ASTM A36 OR APPROVED EQ
STRUCTURAL STEEL PIPE	:	ASTM A53 Gr.B,A501 OR APPROVED EQ
HIGH STRENGTH BOLT	:	ASTM A325M GRADE A OR APPROVED EQ
ORDINARY STRUCTURAL BOLT	:	ASTM A307 TYPE A OR APPROVED EQ
CHECKERED PLATE	:	ASTM A36 OR APPROVED EQ
GRATING	:	ASTM A36 OR APPROVED EQ
ELECTRODES	:	ASTM D1.1 E70XX OR APPROVED EQ

2. HIGH STRENGTH BOLTS
   (a) HIGH STRENGTH BOLTS SHALL BE USED IN BEARING TYPE CONNECTIONS. BOLTS SHALL BE SNUG-TIGHT.
   (b) FOLLOWING DIMENSIONS SHALL BE APPLIED UNLESS OTHERWISE NOTED.

	M16	M20	M22	M24
BOLT HOLE DIAMETER(MM)	18	22	24	26
STANDARD BOLT PITCH(MM)	50	60	70	80
STANDARD EDGE DISTANCE(MM)	30	35	40	45

3. ORDINARY STRUCTURAL BOLTS
   (a) BOLT THREAD AND NUT SHALL BE CONFORM TO ANSI B1.1(1982) AND ANSI B18.2.2 (1983) OR ISO 262.
   (b) DIMENSIONS OF BOLT HOLE DIAMETER, STANDARD BOLT PITCH AND STANDARD EDGE DISTANCE SHALL BE SAME TO THAT OF HIGH STRENGTH BOLTS.

4. LEG LENGTH OF FILLET WELD FOR GUSSET PLATE, RIB PLATE, BUTT PLATE AND STIFFENER PLATE, UNLESS OTHERWISE NOTED:

PLATE THICKNESS(MM)	LEG LENGTH(MM)
6	5
7	5
8	6
9	7
10	7
11	8
12	9
14	10
16	12

5. FABRICATION AND ERECTION TOLERANCE SHALL BE CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC).

6. PAINTING
   STRUCTURAL STEEL HAD BEEN SURFACE PREPARED AND PAINTED IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATION.

REFERENCE GUIDE SYMBOLS

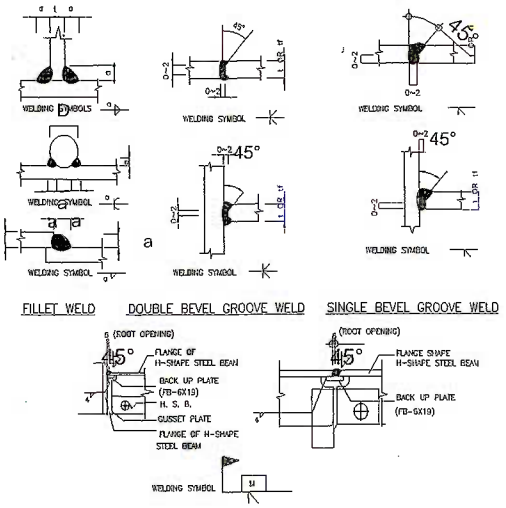
FOR THE PURPOSE OF GUIDING FURTHER DETAILS, SECTIONAL VIEWS AND STANDARDIZED TYPES TO BE REFERRED "REFERENCE GUIDE SYMBOLS" AS DESCRIBED BELOW ARE USED IN THE RELEVANT ENGINEERING DRAWINGS TO MAKE THE REFERENCE RELATION SIMPLE AND CLEAR.

SYMBOL — COLUMN EXPLANATION

1.) SYMBOL TO GUIDE STANDARD DETAIL
   STANDARD DETAIL NO.
   NOTES, IF NEEDED
   STANDARD DWG. NO. TO BE REFERRED

2.) SYMBOL TO GUIDE INDIVIDUAL DETAIL OR SECTIONAL VIEW WHICH ARE NOT STANDARDIZED
   DETAIL NO. OR SECTIONAL NOTATION
   NOTES, IF NEEDED
   ENGINEERING DWG. NO. TO BE REFERRED

(2) S-05 GENERAL NOTES ON STRUCTURAL STEEL



FIELD SINGLE BEVEL GROOVE WELD

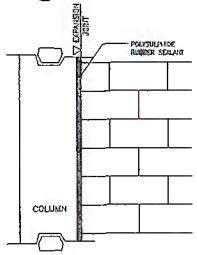
WELDING TYPE OF H-SHAPE FLANGE

THK. OF PLATE (t)	WELDING TYPE	WELDING SYMBOLS
tf ≤ 16	SINGLE BEVEL GROOVE WELD	2 45°
tf > 16	DOUBLE WELD GROOVE WELD	2 45°

WELDING TYPE OF RIB PLATE, H-SHAPE WEB OR GUSSET PLATE

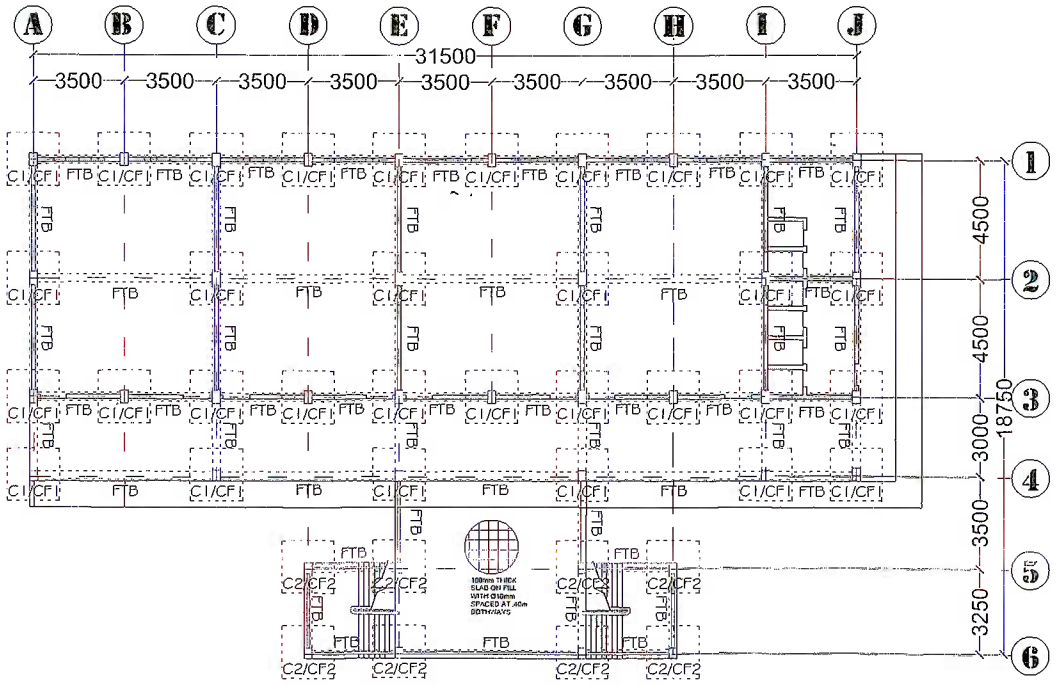
THK. OF PLATE (t)	WELDING TYPE	WELDING SYMBOLS
t ≤ 12	FILLET WELD	
12 < t ≤ 16	SINGLE BEVEL GROOVE WELD	2 45°
t > 16	DOUBLE WELD GROOVE WELD	2 45°

(3) S-05 STANDARDIZED WELDS



(4) S-05 MISCELLANEOUS DETAIL
(WALL EXPANSION JOINT)

PREPARED BY :	CIVIL ENGINEER	CHECKED BY :	PROJECT TITLE :	SHEET CONTENT:	PREPARED BY:	
ROMBLON STATE UNIVERSITY OFFICE OF AUXILIARY, PLANT SERVICES AND POLLUTION CONTROL UNIT	ISIDRO R. SALMINGO PRC REG. No. : 0036982 Validity : PTR No.: 1795904 Date : 1-27-17 Place : SAN JOSE, ROMBLON TIN : 446-312-742-000	JEROME ADOLFO F. FAJARITO, ASPECO - Director APPROVED BY : ARNULFO M. DE LUNA, RSU President	CONSTRUCTION OF 2 - STOREY ACADEMIC BUILDING FOR THE COLLEGE OF ENGINEERING AND TECHNOLOGY (CET) LOCATION : ROMBLON STATE UNIVERSITY - Main Campus, Liwanag, Odiongan, Romblon	AS SHOWN	CAD OPERATOR: Nenwel M. Rotoni JOB NO. : DATE :JUNE 2017	S-5



1 FOUNDATION PLAN

S-6 S-6

SCALE 1: 200

PREPARED BY :	CIVIL ENGINEER	CHECKED BY :	PROJECT TITLE :	SHEET CONTENT:	PREPARED BY:
ROMBLON STATE UNIVERSITY OFFICE OF AUXILIARY, PLANT SERVICES AND POLLUTION CONTROL UNIT	ISIDRO R. SALMINGO PRC REG. No. : 0035892 Validity : PTR No. : 1795904 Date : 1-27-17 Place : SAN JOSE, ROMBLON TIN : 446-312-742-000	JEROME ADOLFO F. FAJARITO CAMENCO- Director APPROVED BY: ARNULFO DE LUNA RSU President	CONSTRUCTION OF 2 - STOREY ACADEMIC BUILDING FOR THE COLLEGE OF ENGINEERING AND TECHNOLOGY (CET) LOCATION : ROMBLON STATE UNIVERSITY - Main Campus, Liwanag, Odiongan, Romblon	AS SHOWN	CAD OPERATOR: Nenwel M. Rotoni JOB NO. : DATE :JUNE 2017

S-6