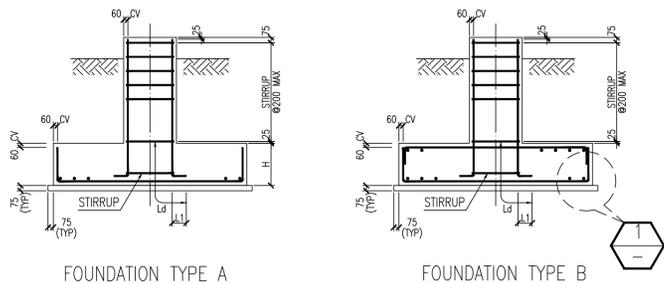
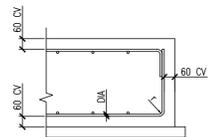


FOUNDATION DETAIL

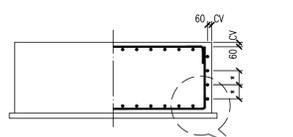


FOUNDATION TYPE A

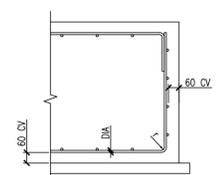
FOUNDATION TYPE B



DETAIL 1



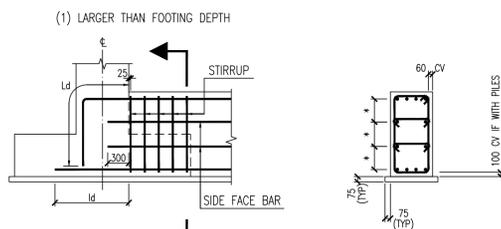
BLOCK FOUNDATION



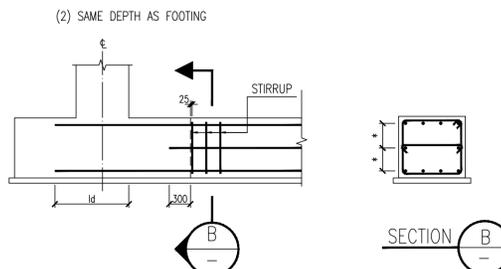
DETAIL 2

* SIDE FACE BAR REQUIRED @ 300mm MAX IF FOOTING DEPTH(H) > 600mm.

FOUNDATION BEAM(TIE BEAM)



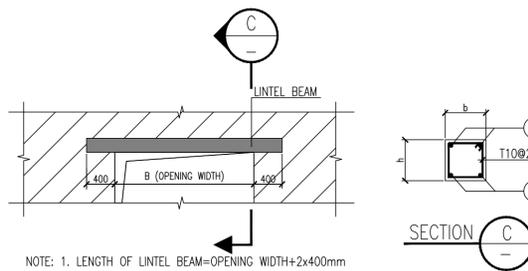
SECTION A



SECTION B

* REQUIRED @300 MAX IF BEAM DEPTH >700mm.

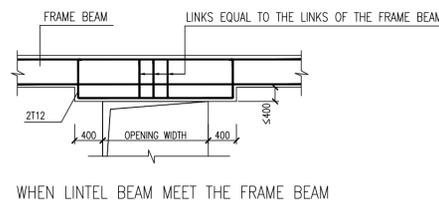
LINTEL BEAM



NOTE: 1. LENGTH OF LINTEL BEAM=OPENING WIDTH+2x400mm
2. b EQUAL TO THE WIDTH OF WALL

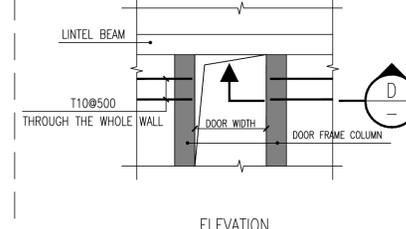
TABLE OF REINFORCE STEEL BAR FOR THE LINTEL BEAM

WALL THICKNESS REINFORCE STEEL BAR	b= 100,150			b= 200			b= 250		
	①	②	h	①	②	h	①	②	h
B ≤ 1200	2T10	2T12	150	2T12	2T12	150	2T12	2T16	150
1200 < B ≤ 1500	2T10	2T12	150	2T12	2T16	200	2T12	3T16	200
1500 < B ≤ 1800	2T10	2T12	200	2T12	2T16	200	2T12	3T16	200
1800 < B ≤ 2400	2T10	2T16	200	2T12	2T20	200	2T12	3T20	200

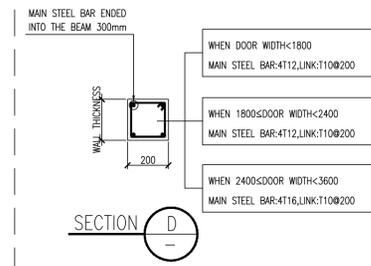


WHEN LINTEL BEAM MEET THE FRAME BEAM

DOOR FRAME COLUMN



ELEVATION

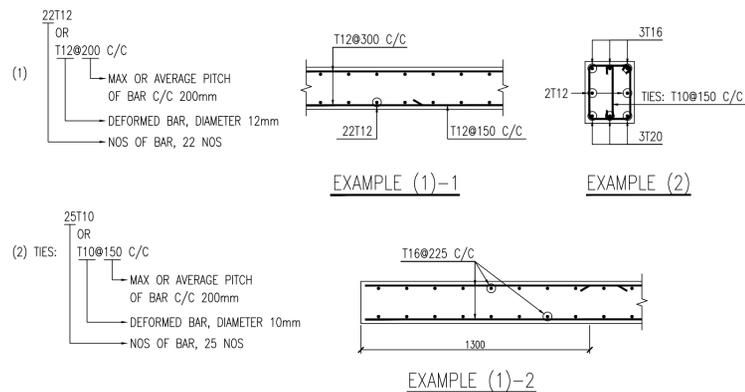


MAIN STEEL BAR ENDED INTO THE BEAM 300mm

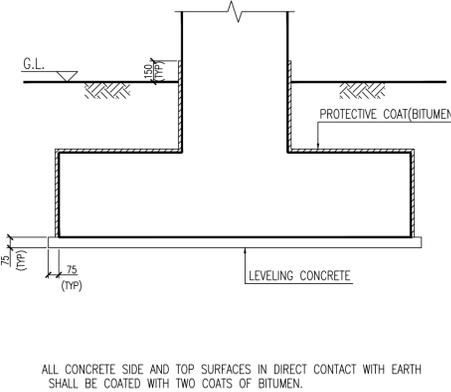
GENERAL NOTES

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DWG. NO. NGP-000-SCW-15.01-0001-00.
- ALL DIMENSIONS ARE IN MILLIMETERS AND ALL ELEVATIONS ARE IN METERS UNLESS NOTED OTHERWISE.
- LAPS IN BARS IN ANY MEMBER SHALL BE STAGGERED.(EXCEPT FOR COLUMNS)
- TIES SHALL BE ARRANGED SUCH THAT EVERY CORNER AND ALTERNATE LONGITUDINAL BAR SHALL HAVE LATERAL SUPPORT PROVIDED BY THE CORNER OF A TIE, STIRRUP OR THE STIRRUP OF TIES.
- ALL CONCRETE BLOCK MASONRY SHALL BE PLACED WITH HORIZONTAL FULL LENGTH STEEL BAR OF T10 EVERY HEIGHT OF 500mm.
- ALL CONCRETE BLOCK MASONRY MORE THAN 5.0 METER LENGTH SHALL BE PROVIDED WITH REINFORCED CONCRETE COLUMN OF MINIMUM 200mmx200mm DEPTH AND WIDTH.

METHOD OF EXPRESSION FOR BAR ARRANGEMENT

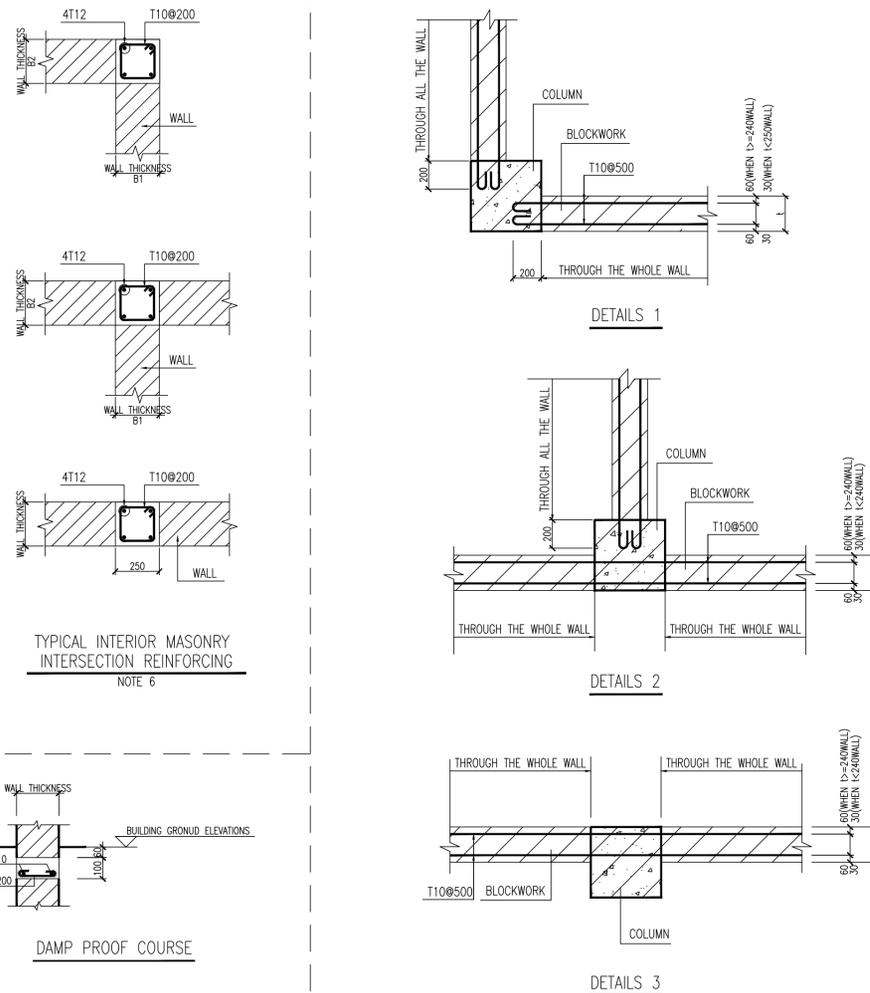


SURFACE PROTECTION FOR CONCRETE

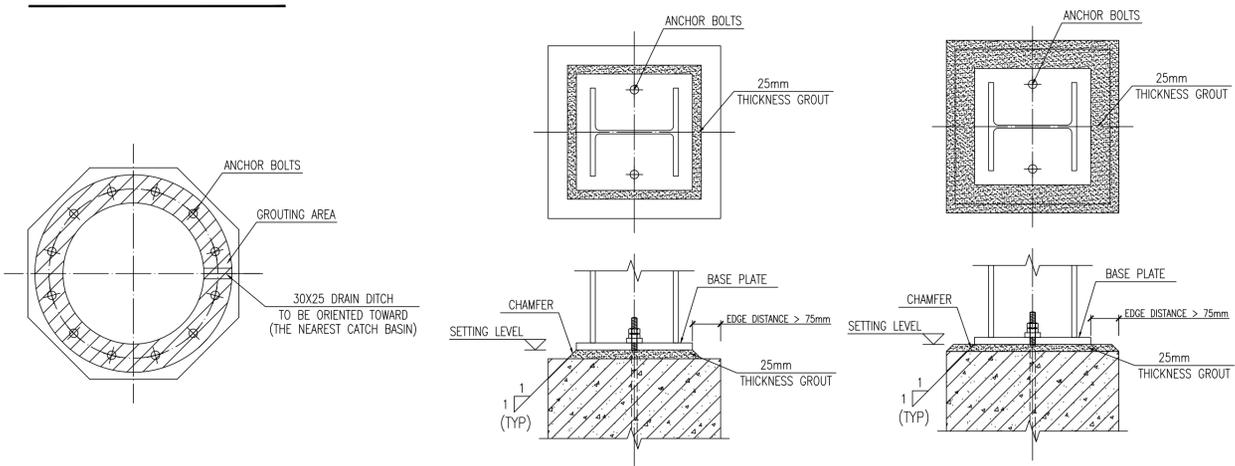


ALL CONCRETE SIDE AND TOP SURFACES IN DIRECT CONTACT WITH EARTH SHALL BE COATED WITH TWO COATS OF BITUMEN.

BLOCK WALL AND COLUMN CONNECTION DETAILS



GROUT AND DRAIN DITCH



REFERENCE DOCUMENTS

TITLE	DOC No.
GENERAL NOTES FOR REINFORCED CONCRETE WORKS	NGP-000-SCW-15.01-0001-00

CLIENT: **OIL&GAS DEVELOPMENT COMPANY LTD.**
 OGDCL HOUSE TOWER-B, FIRST FLOOR F-6/6, BLUE AREA, JINNAH AVENUE ISLAMABAD PAKISTAN
 FAX: +92-011-2623953, PH: +92-011-2623959

CONSULTANT: **Zishan Engineers (Pvt.) Ltd.**
 An ISO 9001-2008 certified company
 47/F Block 6, PECHS, Karachi-Pakistan
 Tel: (92-91) 34393045-48, & 34310151-54, Fax: (92-91) 34533430 & 34510156
 E-Mail: contact@zishanengineers.com Website: www.zishanengineers.com

CONTRACTOR: **HONG KONG HUIHUA GLOBAL TECHNOLOGY LIMITED**

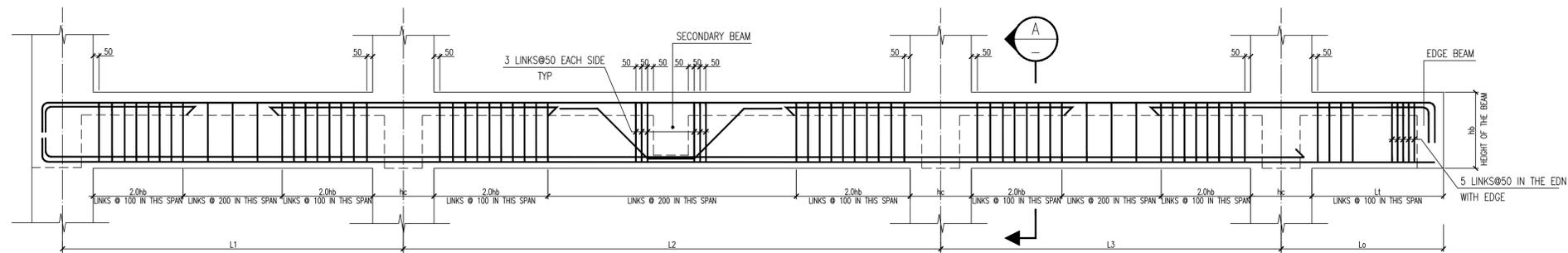
PROJECT TITLE: **NASHPA GAS PROCESSING AND LPG RECOVERY PLANT PROC-FC-CB/NASHPA/PROJ-1247/2015**

DRAWING TITLE: **STANDARD DRAWING FOR R.C.C. WORKS**

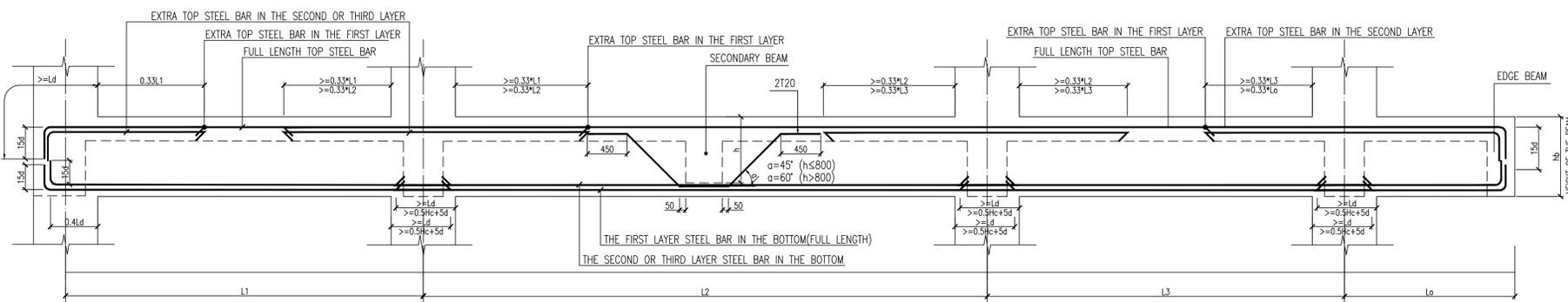
PROJECT NO.	NASHPA 1247
DRAWING NO.	NGP-000-SCW-15.01-0005-00
REV.	SCALE SHEET
00	NTS 1 OF 3

GENERAL NOTES

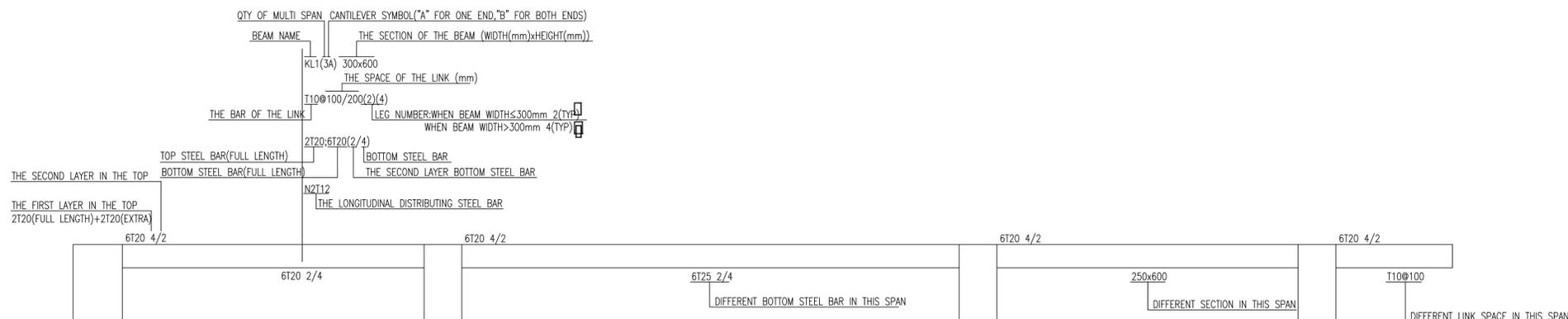
1. THE REINFORCEMENT OF STRUCTURE ELEMENTS WILL BE RESULTED OF STRUCTURE ANALYSIS.
2. THE SPECIFIC CONCRETE GRADE AND REINFORCEMENT DIMENSION FOR THE STRUCTURE WILL BE SHOWN IN THE DETAIL DRAWINGS.



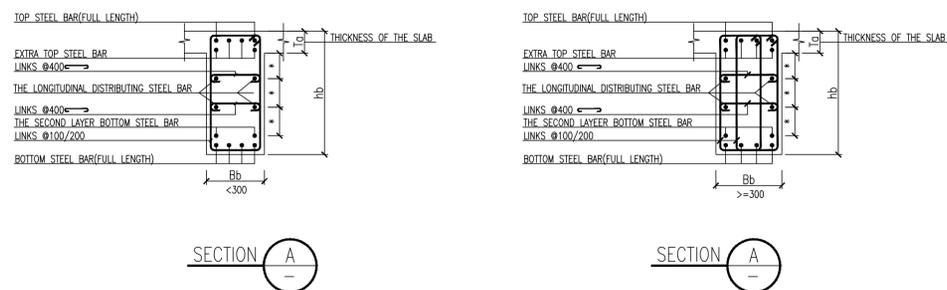
THE LINKS OF BEAM



THE LONGITUDINAL STEEL BAR OF BEAM



THE LEGEND OF BEAM PLAN



* SIDE FACE BAR REQUIRED @ 200mm MAX.

REFERENCE DOCUMENTS

TITLE	DOC No.
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C	Issued for Approval	Wen Anshun	Chen ChQ	Li Zhiguang	Zhang WH	12/06/2016
B	Issued for Review	Wen Anshun	Chen ChQ	Li Zhiguang	Zhang WH	05/04/2016
A	Internal Discipline Check	Wen Anshun	Chen ChQ	Li Zhiguang	Zhang WH	13/03/2016

CLIENT
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 FAX: +92 91 262353, PHONE: +92 91 4269859

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HONG KONG HUIHUA GLOBAL TECHNOLOGY LIMITED
HBP

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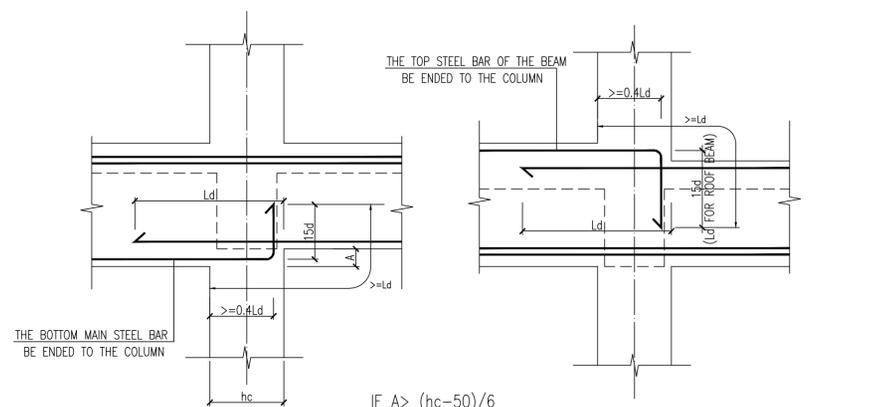
PROJECT NO.
NASHPA 1247

DRAWING NO.
NGP-000-SCW-15.01-0005-00

REV. SCALE SHEET
00 NTS 2 OF 3

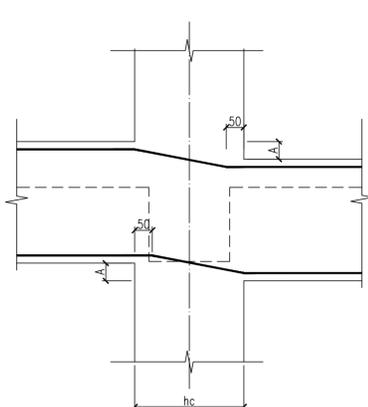
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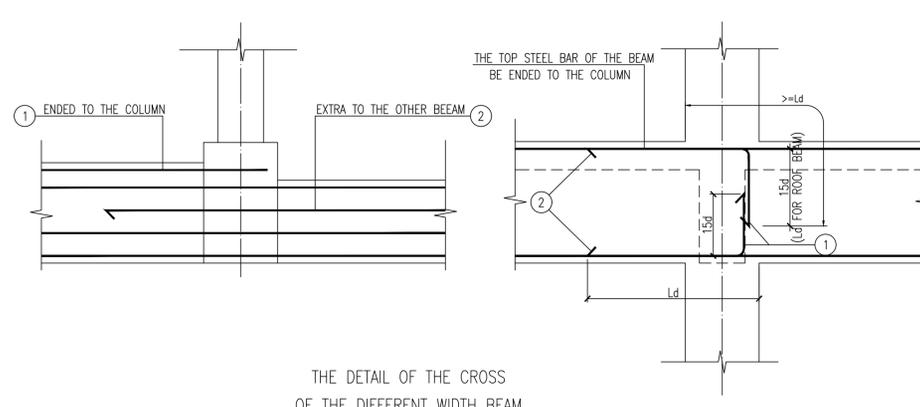


IF $A > (hc-50)/6$

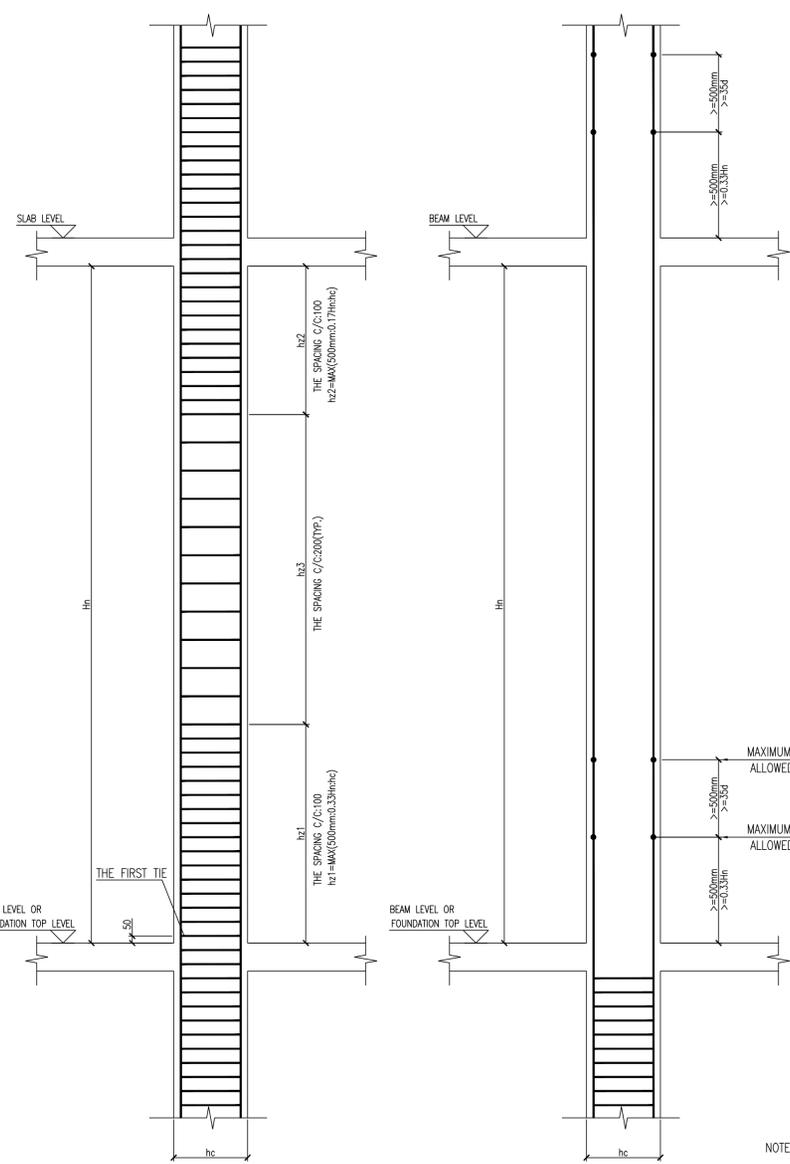
THE DETAIL OF THE STEEL BAR WHEN THE JOINTED BEAM LEVEL IS DIFFERENT



IF $A \leq (hc-50)/6$

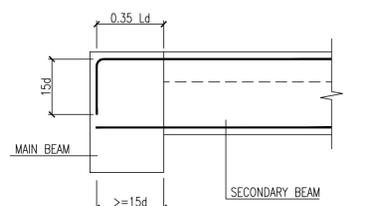


THE DETAIL OF THE CROSS OF THE DIFFERENT WIDTH BEAM

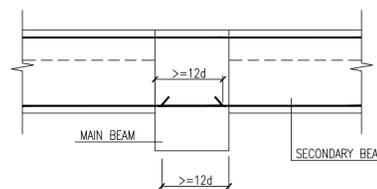


TYPICAL COLUMN TIE DISTRIBUTING

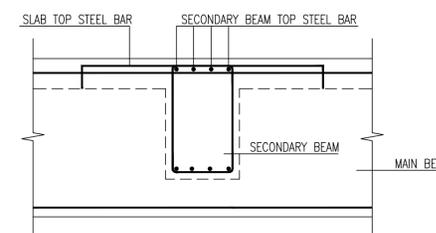
TYPICAL COLUMN MAIN BAR LAPPING



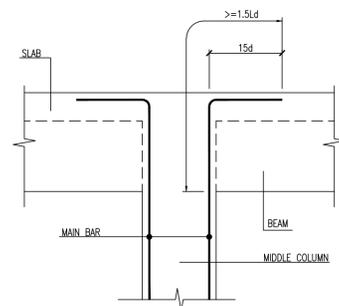
THE EDN SUPPORT OF THE SECONDARY BEAM



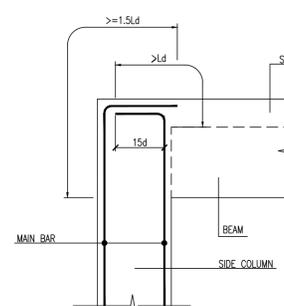
THE MIDDLE SUPPORT OF THE SECONDARY BEAM



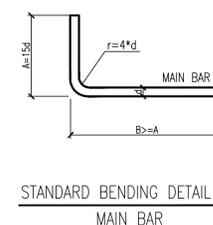
STEEL BAR PLACEMENT FOR THE MAIN BEAM AND SECONDARY BEAM CONNECTION



TYPICAL DETAIL-1 FOR COLUMN TOP END



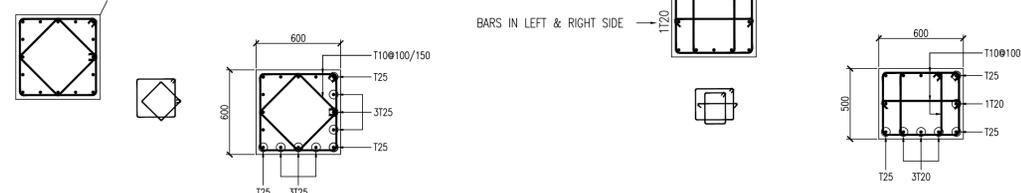
TYPICAL DETAIL-2 FOR COLUMN TOP END



STANDARD BENDING DETAIL OF MAIN BAR

- KZ-3
600x600
20T25
T10@100/150
- COLUMN NAME
 - SECTION SIZE(WIDTH(mm)xHEIGHT(mm))
 - ALL MAIN BARS, DIAMETER 25mm
 - 5 BARS IN EACH FACE
 - BAR OF THE LINK, DIAMETER 10mm
 - LINKS @ 100mm IN TOP & BOTTOM PART
 - LINKS @ 150mm IN MIDDLE PART
 - BOTTOM LEVEL & TOP LEVEL OF COLUMN

- KZ-7
600x500
4T25
T10@100
- COLUMN NAME
 - SECTION SIZE(WIDTH(mm)xHEIGHT(mm))
 - CORNER BARS
 - BAR OF THE LINK, DIAMETER 10mm
 - LINKS @ 100mm FOR TOTAL LENGTH
 - BOTTOM LEVEL & TOP LEVEL OF COLUMN



THE LEGEND OF COLUMN PLAN

REFERENCE DOCUMENTS

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PROJECT NO.
NASHPA 1247

DRAWING NO.
NGP-000-SCW-15.01-0005-00

PROJECT TITLE: NASHPA GAS PROCESSING AND LPG RECOVERY PLANT PROC-FC-CB/NASHPA/PROJ-1247/2015

DRAWING TITLE: STANDARD DRAWING FOR R.C.C. WORKS

REV.	SCALE	SHEET
00	NTS	3 OF 3