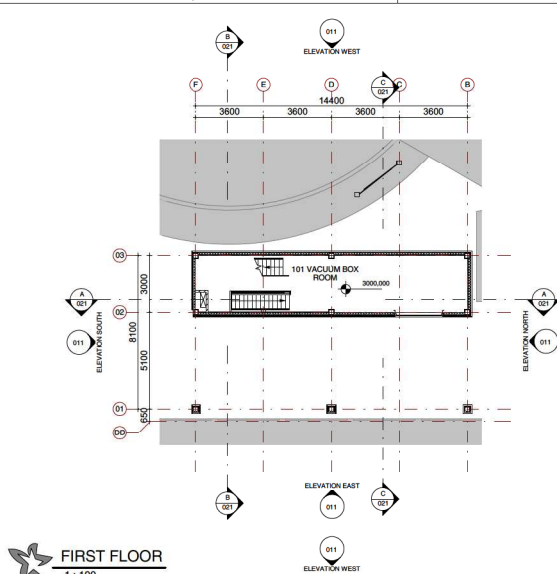
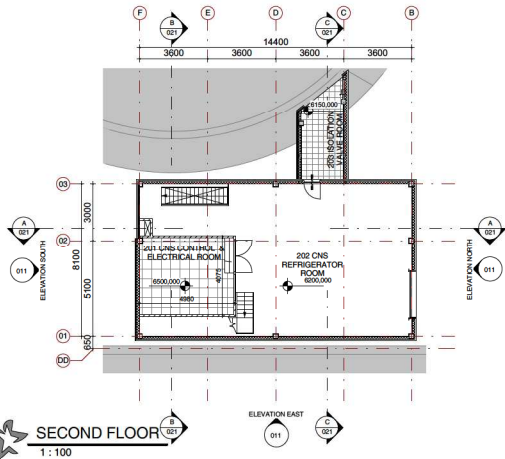


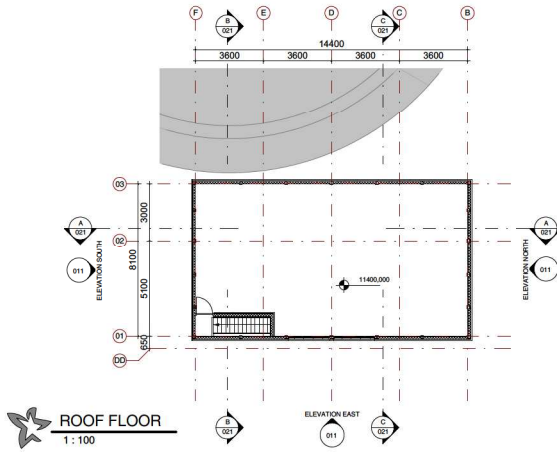
**GROUND FLOOR**  
1 : 100



**FIRST FLOOR**  
1 : 100



**SECOND FLOOR**  
1 : 100



**ROOF FLOOR**  
1 : 100

- LEGEND**
- Exterior Wall, Fire protection 60 min. (made to isolate)
    - Glass curtain panel 55mm
    - wooden frame and mineral wool insulation 140mm
    - horizontal coverpanel HD 15mm
    - air barrier 50mm incl. Horizontal Bracing for Facade Panel
    - facade Panel
  - Interior Fire protection 60 min. (made to isolate)
    - wooden frame and mineral wool insulation 40mm
    - horizontal coverpanel HD 15mm
    - air barrier 50mm incl. Horizontal Bracing for Facade Panel
    - facade Panel
    - facade Panel as facade coverage of columns and beams
  - Interior partition wall
  - poured concrete floor slab
  - screed floor, epoxy

- Dimensions and Levels to be checked on site!
- All dimensions and levels are in millimeters (mm)!
- Drawings are not to be scaled, written dimensions should be followed and verified with the details.
- All equipment and equipment related building services are indicative.
- Exact dimensions and positions shall to be determined.

RID will release this document with purpose AFC (Approved for Construction) after the detailed engineering in Phase 2 is finalised and approved.

REV.	DATE	DESCRIPTION	DESIGNED	CHECKED	APPROVED
0	2015-07-10	Basic Design Final	DSJ	RH-DHY	MW
01	2015-05-22	Revision B1	DSJ	SH-DH	MW
02	2015-05-22	Final Issue	DSJ	RH-DHY	MW

**OYSTER PROJECT**

REACTOR TECHNOLOGY Delft

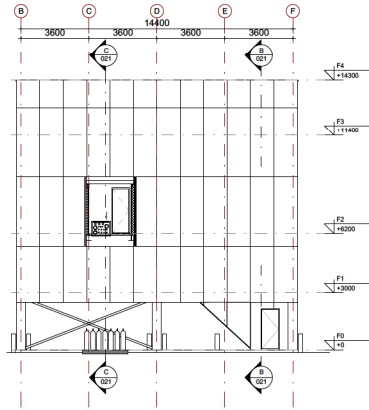
**TU Delft**

**CONTRACTOR:** KAERI Korea Atomic Energy Research Institute

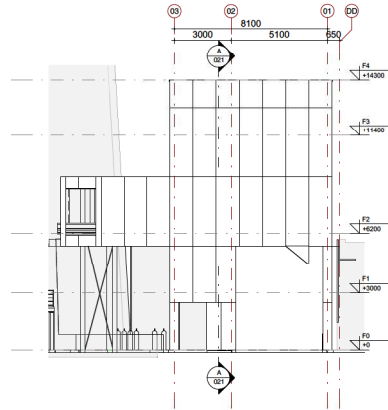
**SUBCONTRACTOR:** HYUNDAI INDUSTRIES & CONSTRUCTION, HYUNDAI ENGINEERING CO., LTD., Royal HaskoningDHV

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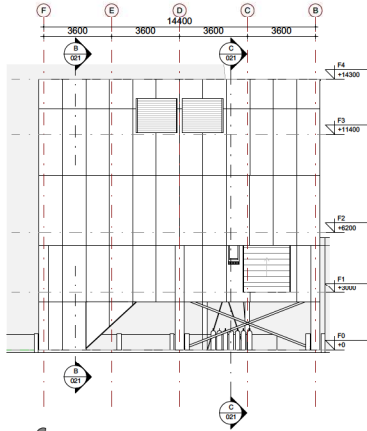
SAFETY CLASS	QUALITY CLASS	ASSEMBLY DRAWING NO.	TITLE	REV.	DATE	DESCRIPTION
			CNS UTILITY BLDG ARCHITECTURAL - FLOORPLANS	0	A1	1/1/100
			OYSTER-EA-CBU-DW-001			



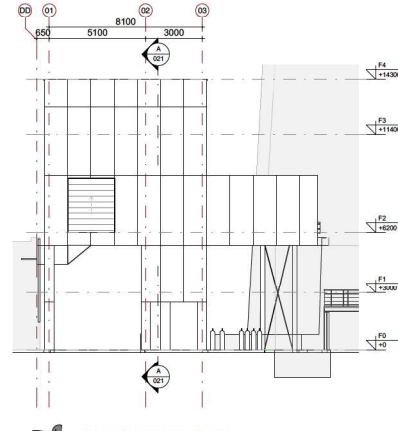
**ELEVATION WEST**  
1 : 100



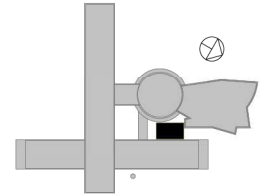
**ELEVATION SOUTH**  
1 : 100



**ELEVATION EAST**  
1 : 100



**ELEVATION NORTH**  
1 : 100



- Dimensions and Levels to be checked on site!
- All dimensions and levels are in millimeters (mm).
- Clearings are not to be scaled, unless dimensions should be followed and verified with the details.
- All equipment and equipment related building services are indicative.
- Exact dimensions and positions will be determined.

RID will release this document with purpose AFC (Approved for Construction) after the detailed engineering in Phase 2 is finalised and approved.

REV.	DATE	DESCRIPTION	Drawn by	Checked by	Issued by	Approved by
B	2015-07-10	Basic Design Final	DGJ	RH-03-V	MW	MW
PT	2015-08-22	Revision 01	DGJ	RH-03-V	MW	MW
PR	2015-09-27	Final Issue	DGJ	RH-03-V	MW	MW

**OYSTER PROJECT**

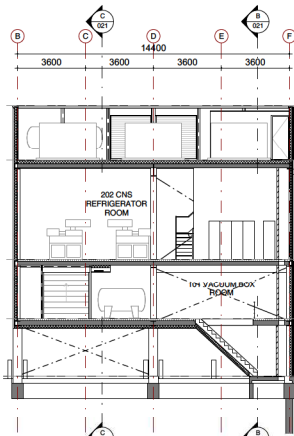
EMPLOYER:

CONTRACTOR:

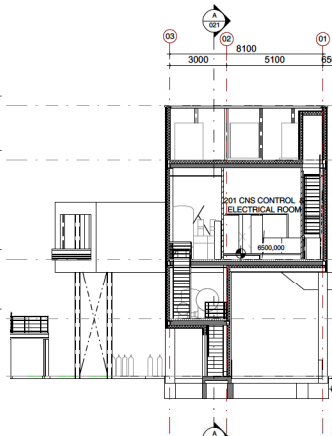
SUBCONTRACTOR:

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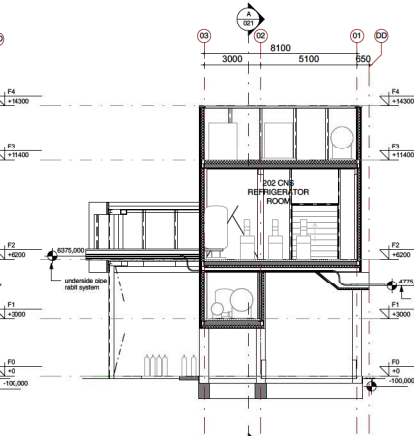
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			<b>CNS UTILITY BLDG</b> <b>ARCHITECTURAL - ELEVATIONS</b>				
			OYSTER-EA-CBU-DW-011	0	A1	1/1	100



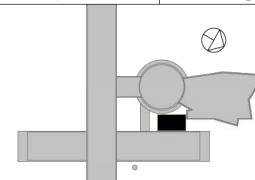
SECTION A-A  
1:100



SECTION B-B  
1:100

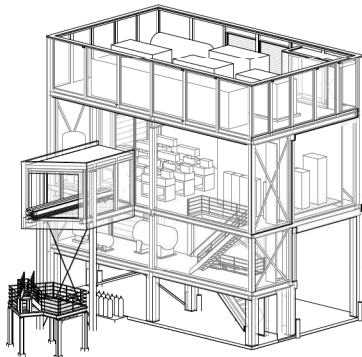


SECTION C-C  
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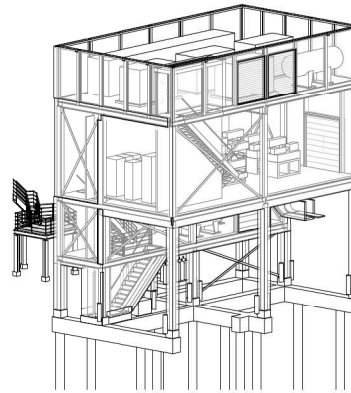


**LEGEND**

- Exterior Wall, Fire protection 60 min.: (inside to outside)
  - Stone cement panel 25mm
  - window frame and external wood insulation 140mm
  - horizontal powercoat HD 15mm
  - all layer 50mm ext. Horizontal Bracing for Facade Panel
  - facade Panel
- Exterior Wall, Fire protection 60 min.: (inside to outside)
  - window frame and external wood insulation 40mm
  - horizontal powercoat HD 15mm
  - all layer 50mm ext. Horizontal Bracing for Facade Panel
  - facade Panel
  - all facade coverage of columns and beams
- Interior Fire protection 60 min. panel
- Interior partition wall
- pour concrete floor slab
- screwed floor, epoxy



ISOMETRIC VIEW 1



ISOMETRIC VIEW 2

- Dimensions and Levels to be checked on site!
- All dimensions and levels are in millimeters (mm).
- Coverings are not to be located, unless dimensions should be followed and verified with the details.
- All equipment and equipment related building services are indicative.
- Exact dimensions and positions will to be determined.

RID will release this document with purpose AFG (Approved for Construction) after the detailed engineering in Phase 2 is finalised and approved.

REV.	DATE	DESCRIPTION	DESIGNED	CHECKED	APPROVED
01	2015-07-10	Initial Design - Final	[Signature]	[Signature]	MW
02	2015-05-22	Revision 'B'	[Signature]	[Signature]	MW
03	2015-05-27	Final Issue	[Signature]	[Signature]	MW

**OYSTER PROJECT**

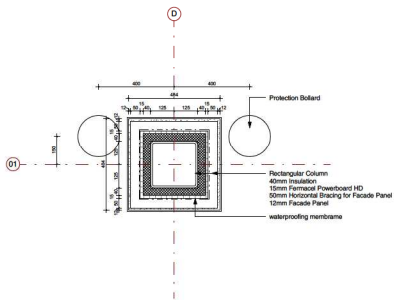
EMPLOYER: KAERI TU Delft

CONTRACTOR: KAERI HYUNDAI HYUNDAI

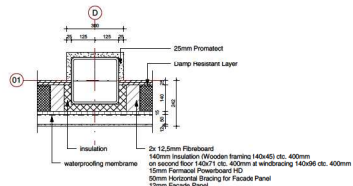
SUBCONTRACTOR: Royal HaskoningDHV

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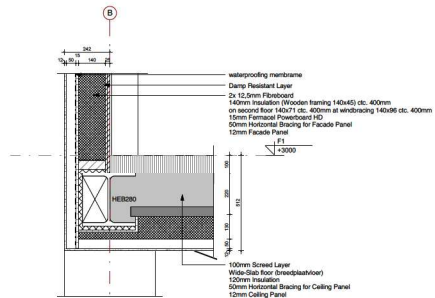
SAFETY CLASS	QUALITY CLASS	ASSEMBLY DRAWING NO.	TITLE	REV.	DATE
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			PRODUCTION DRAWING NO.		
			OYSTER-EA-CBU-DW-021		



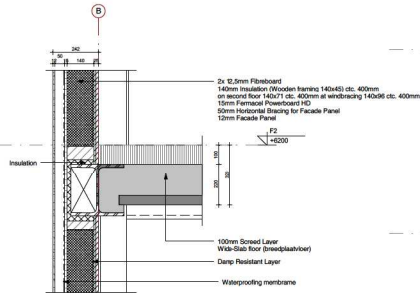
Detail H1  
1 : 10



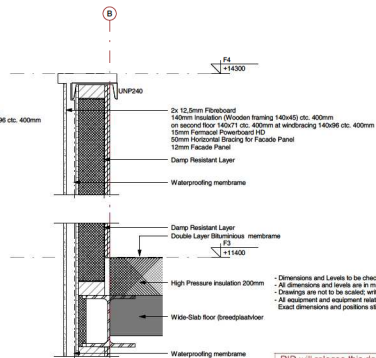
Detail H2  
1 : 10



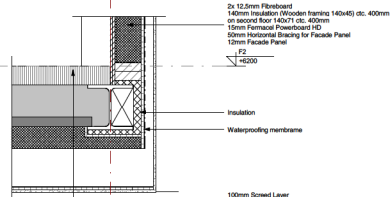
Detail V1  
1 : 10



Detail V2  
1 : 10



Detail V3  
1 : 10



Detail V4  
1 : 10

- Dimensions and Levels to be checked on site!  
- All dimensions and levels are in millimeters (mm).  
- Drawings are not to be scaled, written dimensions should be followed and verified with the details.  
- All equipment and equipment related building services are indicative.  
- Exact dimensions and positions will to be determined.

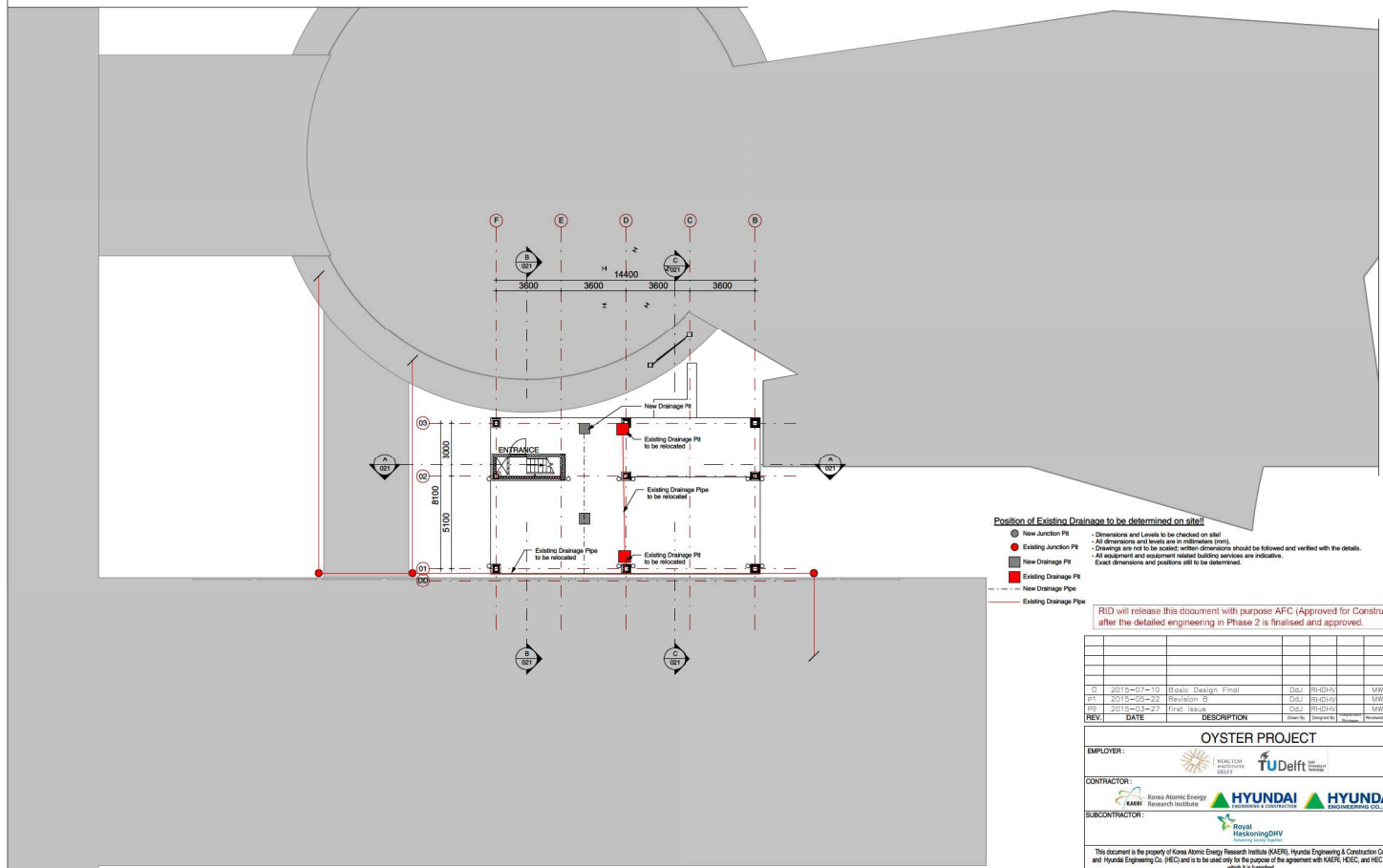
RID will release this document with purpose AFC (Approved for Construction) after the detailed engineering in Phase 2 is finalised and approved.

REV	DATE	DESCRIPTION	Drawn by	Checked by	Approved by	Authorised by
D	2015-07-10	Basic Design Final	DGJ	RH-DH-V	MW	MW
P1	2015-03-22	Revision B	DGJ	RH-DH-V	MW	MW
P2	2015-03-27	Final Takeup	DGJ	RH-DH-V	MW	MW

EMPLOYER:		CONTRACTOR:		SUBCONTRACTOR:	
KAERI TU Delft		KAERI HYUNDAI Research Institute HYUNDAI Engineering & Construction Co., Ltd.		Royal Hackingtech DRV	

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SAFETY CLASS	QUALITY CLASS	ASSIGNED DRAWING NO.	TITLE	SCALE	SHEET NO.	TOTAL SHEETS
			CNS UTILITY BLDG ARCHITECTURAL - DETAILS		0	10
PRODUCTION	DRAWING NO.	REV	SCALE	SHEET NO.	SCALE	
					OYSTER-EA-CBU-DW 031	



- Position of Existing Drainage to be determined on site!**
- New Junction Pit
  - Existing Junction Pit
  - New Drainage Pit
  - Existing Drainage Pit
  - New Drainage Pipe
  - Existing Drainage Pipe
- Dimensions and Levels to be checked on site!
  - All dimensions and levels are in millimeters (mm).
  - Drawings are not to be scaled, written dimensions should be followed and verified with the details.
  - All equipment and equipment related building services are indicative.
  - Exact dimensions and positions will be determined.

RID will release this document with purpose AFC (Approved for Construction) after the detailed engineering in Phase 2 is finalised and approved.

REV.	DATE	DESCRIPTION	Drawn by	Checked by	Approved by	Discipline
01	2018-07-10	Block Design Final	GSJ	RHCH+H	MW	MW
02	2018-08-22	Revision 01	GSJ	RHCH+H	MW	MW
03	2018-08-27	Final Issue	GSJ	RHCH+H	MW	MW

**OYSTER PROJECT**

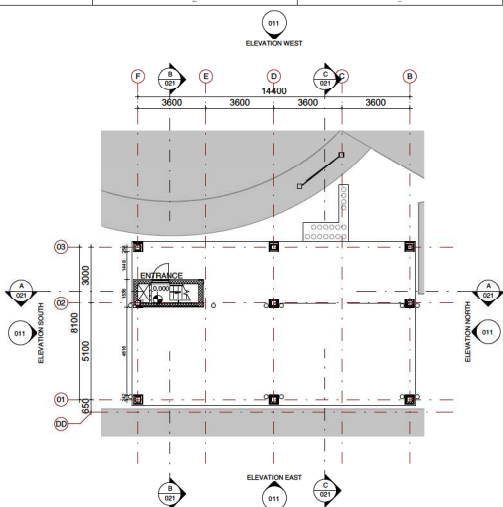
**EMPLOYER:** KAERI TU Delft

**CONTRACTOR:** Korea Atomic Energy Research Institute HYUNDAI

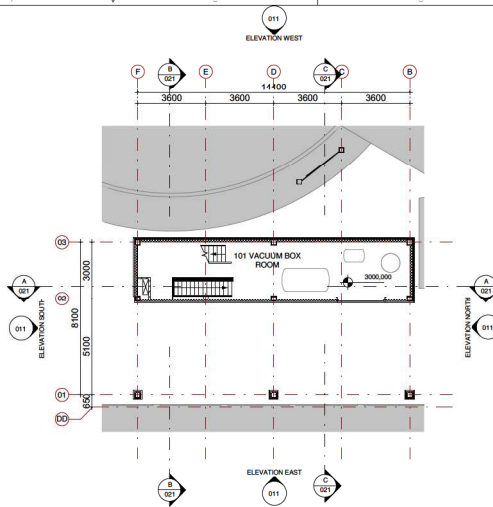
**SUBCONTRACTOR:** Regal RiskcontingDHV

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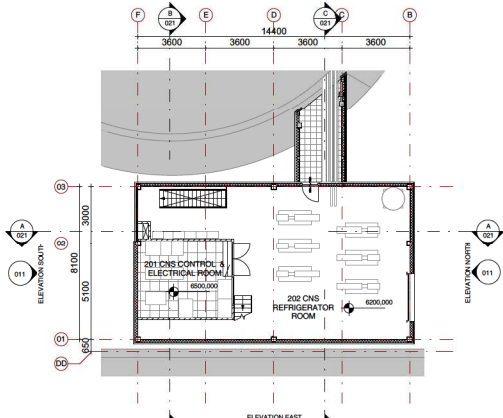
SHEET NO.	QUALITY CHECK	ASSEMBLY DRAWING NO.	TITLE	PROJ.	REV.	SHEET	SCALE
			<b>CNS UTILITY BLDG ARCHITECTURAL - DRAINAGE</b>				
			OYSTER-EA-CBU-DW 041		01	111	100



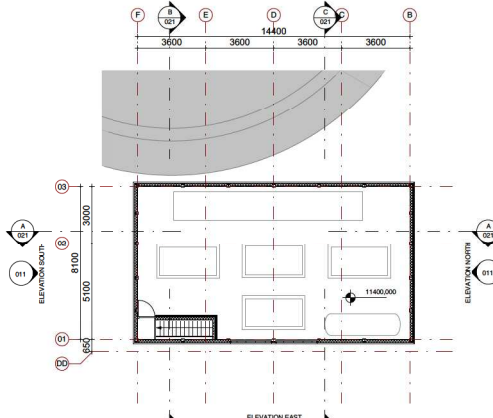
**GROUND FLOOR**  
1 : 100



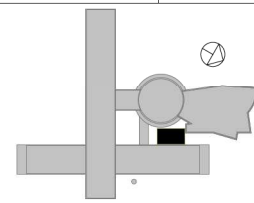
**FIRST FLOOR**  
1 : 100



**SECOND FLOOR**  
1 : 100



**ROOF FLOOR**  
1 : 100



**LEGEND**

- Exterior Wall, Fire protection 60 min.; (inside to outside)
  - Base cement panel 25mm
  - Insulation frame and mineral wool insulation 140mm
  - Ferrimetal powderpanel HD 15mm
  - Air barrier 50mm incl. Horizontal Bracing for Facade Panel
  - facade Panel
- Exterior Wall, Fire protection 60 min.; (outside to inside)
  - Insulation frame and mineral wool insulation 140mm
  - Ferrimetal powderpanel HD 15mm
  - Air barrier 50mm incl. Horizontal Bracing for Facade Panel
  - facade Panel
- Interior Fire protection (60 min. panel)
- Interior partition wall
- poured concrete floor slab
- screed floor, epoxy

- Dimensions and Levels to be checked on site!
- All dimensions and levels are in millimeters (mm).
- Changes are not to be made without written dimensions should be followed and verified with the details.
- All equipment and equipment related building services are indicated.
- Exact dimensions and positions still to be determined.

RID will release this document with purpose AFC (Approved for Construction) after the detailed engineering in Phase 2 is finalised and approved.

REV.	DATE	DESCRIPTION	Drawn By	Checked By	Approved By	Approved Date
0	2015-07-10	Basic Design - Final	DdL	RH-DH	MW	MW
01	2015-08-22	Revision 'E'	DdL	RH-DH	MW	MW
02	2015-03-27	Final Issue	DdL	RH-DH	MW	MW

**OYSTER PROJECT**

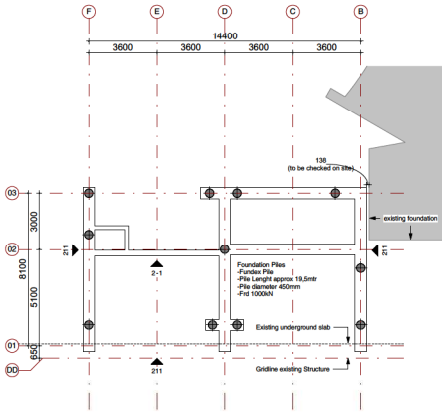
EMPLOYER: KAERI, REACTOR RESEARCH DEPT., TU Delft

CONTRACTOR: KAERI, Korea Atomic Energy Research Institute, HYUNDAI ENGINEERING & CONSTRUCTION CO., LTD., HYUNDAI CONSTRUCTION CO., LTD.

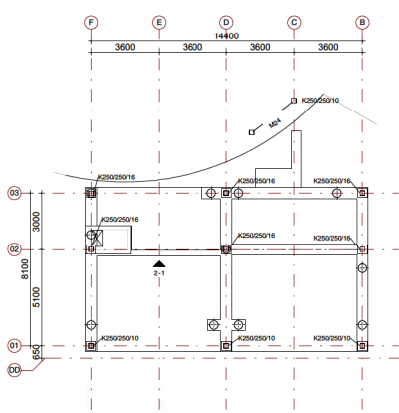
SUBCONTRACTOR: Royal HaskoningDHV

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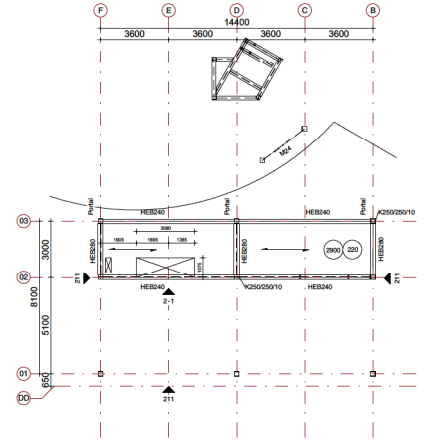
SHEET NO.	QUANTITY	ASSEMBLY DRAWING NO.	TITLE
01	1		CNS UTILITY BLDG ARCHITECTURAL - EQUIPMENT LAYOUT
PRODUCTION DRAWING NO.			OYSTER-EA-CBU-DW 051
REV. DATE			01/1/1 100



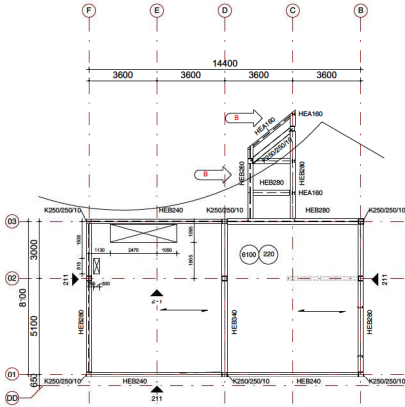
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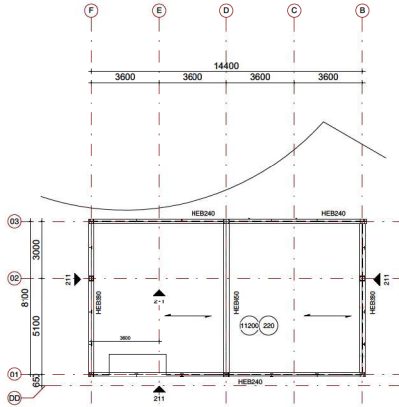
**GROUND FLOOR**  
1 : 100



**FIRST FLOOR**  
1 : 100



**SECOND FLOOR**  
1 : 100



**THIRD FLOOR**  
1 : 100

- Dimensions and Levels to be checked on site!
- All dimensions and levels are in millimeters (mm).
- Coverings are not to be scaled, written dimensions should be followed and verified with the details.
- All equipment and equipment related building services are indicated.
- Exact dimensions and positions will be determined.
- All Columns to be filled with unreinforced concrete C35/45
- All Concrete C35/45

RID will release this document with purpose AFC (Approved for Construction) after the detailed engineering in Phase 2 is finalised and approved.

REV	DATE	DESCRIPTION	Prepared	Checked	Reviewed	Approved
0	2010-07-10	Basic Design Final	DSJ	RHDH	MW	MW
1	2010-09-22	Revision B	DSJ	RHDH	MW	MW
2	2010-03-27	Final Issue	DSJ	RHDH	MW	MW

**OYSTER PROJECT**

EMPLOYER: KAERI KOREAN ATOMIC ENERGY RESEARCH INSTITUTE TU Delft

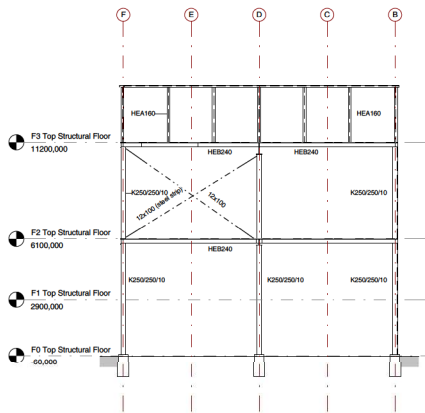
CONTRACTOR: KAERI Korea Atomic Energy Research Institute HYUNDAI Engineering & Construction Co., Ltd. HYUNDAI Engineering & Construction Co., Ltd.

SUBCONTRACTOR: Sigal HaskoningDHV

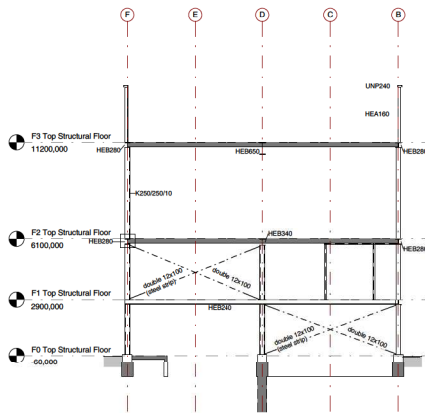
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SHEET NO.	QUALITY CHECK	ASSEMBLY DRAWING NO.	TITLE	REV.	DATE	SHEET	SCALE
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PROJECTION	DRAWINGS NO.	OYSTER-EA-CBU-DW 201					

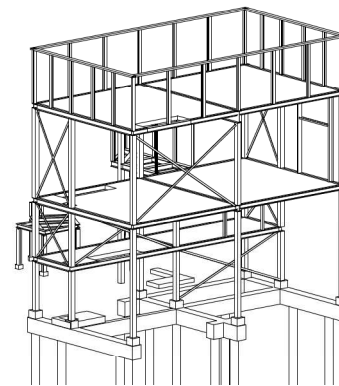




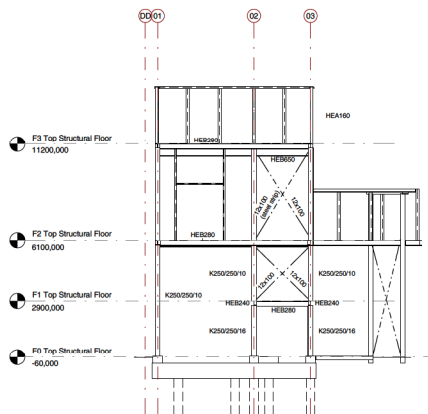
**AXIS 01**  
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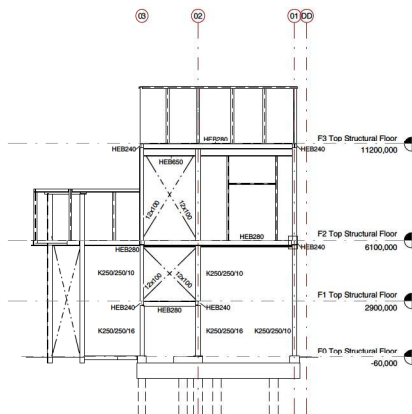
**AXIS 02**  
1: 100



**ISOMETRIC VIEW**



**AXIS a**  
1: 100



**AXIS e**  
1: 100

- Dimensions and Levels to be checked on site!
- All dimensions and levels are in millimeters (mm).
- Coverings are not to be added, unless dimensions should be followed and verified with the details.
- All equipment and equipment related building services are indicative.
- Exact dimensions and positions will to be determined.
- All Columns to be filled with unreinforced concrete C25/30
- All Concrete C25/30

R/D will release this document with purpose AFC (Approved for Construction) after the detailed engineering in Phase 2 is finalised and approved.

REV.	DATE	DESCRIPTION	By	Checked	Approved	Reviewed
B	2015-07-10	Basic Design Final	DSJ	PH-DV	MW	MW
PT	2015-08-22	Revision 01	DSJ	PH-DV	MW	MW
PR	2015-03-27	Final Issue	DSJ	PH-DV	MW	MW

**OYSTER PROJECT**

EMPLOYER:

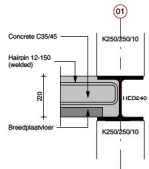
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SUBCONTRACTOR:

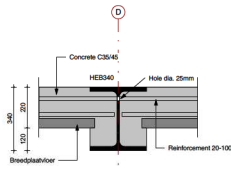
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SAFETY CLASS	QUALITY CLASS	ASSEMBLY DRAWING NO.	TITLE
			<b>CNS UTILITY BLDG STRUCTURAL - SECTIONS AND ISO VIEW</b>
PRODUCTION	DESIGNED BY	PROJECT NO.	REV. / DATE / SPECIFICATION
		OYSTER-EA-CBU-DW 211	0 / A1 / 1/1 / 100

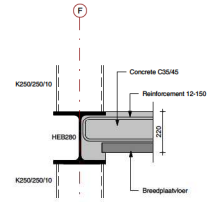




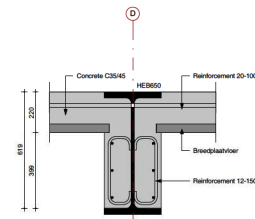
**Detail S-V1**  
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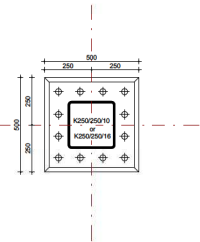
**Detail S-V2**  
1:10



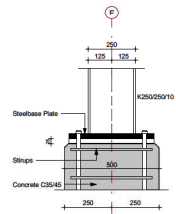
**Detail S-V3**  
1:10



**Detail S-V4**  
1:10



**Detail S-H1**  
1:10



**Detail S-V5**  
1:10

- Dimensions and Levels to be checked on site!
- All dimensions and levels are in millimeters (mm).
- Coverings are not to be scaled, written dimensions should be followed and verified with the details.
- All equipment and equipment related building services are indicative.
- Exact dimensions and positions will to be determined.
- All Columns to be filled with unreinforced concrete C35/45
- All Concrete C35/45

[RID will release this document with purpose AFC (Approved for Construction) after the detailed engineering in Phase 2 is finalised and approved.]

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**OYSTER PROJECT**

**EMPLOYER:** KAERI, TU Delft

**CONTRACTOR:** KAERI, HYUNDAI ENGINEERING & CONSTRUCTION CO., LTD.

**SUBCONTRACTOR:** Regal Riskcontrolling/DHV

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<b>SAFETY CLASS</b>	<b>QUALITY CLASS</b>	<b>ASSEMBLY DRAWING NO.</b>	<b>TITLE</b>
			<b>CNS UTILITY BLDG STRUCTURAL - DETAILS</b>
<b>PROJECTION</b>	<b>DEPARTING NO.</b>	<b>OYSTER-EA-CBU-DW 221</b>	<b>REV. NO. SHEET SCALE</b>
			<b>0   A1   1/1   10</b>