

## Dismantling and Rebuilding of Bigte Filtration Building

(from Bigte Pump Station to NORWD Villarama Office)

Project Cost: 1,150,000 Pesos

### Program of Works:

1. Dismantling of Bigte Filtration Building (Refer to Attachment 1)
2. Construction and Erection of Bigte Filtration Building to NORWD Villarama Office (Attachment 2)
3. Construction of Building Foundation and Floor Slab (Attachment 3)
4. Hauling of Tanks and Equipment of Filtration Building (Attachment 4)
5. Supply and installation of 2 pcs. Roof Ventilator.



# NORZAGARAY WATER DISTRICT

1639 P. DELA MERCED ST., POBLACION, NORZAGARAY, BULACAN  
VILLARAMA HIGHWAY, POBLACION, NORZAGARAY, BULACAN



Management System  
ISO 9001:2015



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## ATTACHMENT-1 (Dismantling of Bigte Filtration Building )

### FILTRATION BUILDING



FRONT VIEW



SIDE VIEW



RIGHT SIDE VIEW

*"Yamang tubig ay tipizin, kinabukasan ay kamtin."*

0917-5599-260

✉ norzagaray\_wd@yahoo.com;  
norwd\_commercial@yahoo.com;  
norzagaray\_wd\_engineering@yahoo.com  
🌐 www.norwd.gov.ph



# NORZAGARAY WATER DISTRICT

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VILLARAMA HIGHWAY, POBLACION, NORZAGARAY, BULACAN



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RIGHT SIDE VIEW



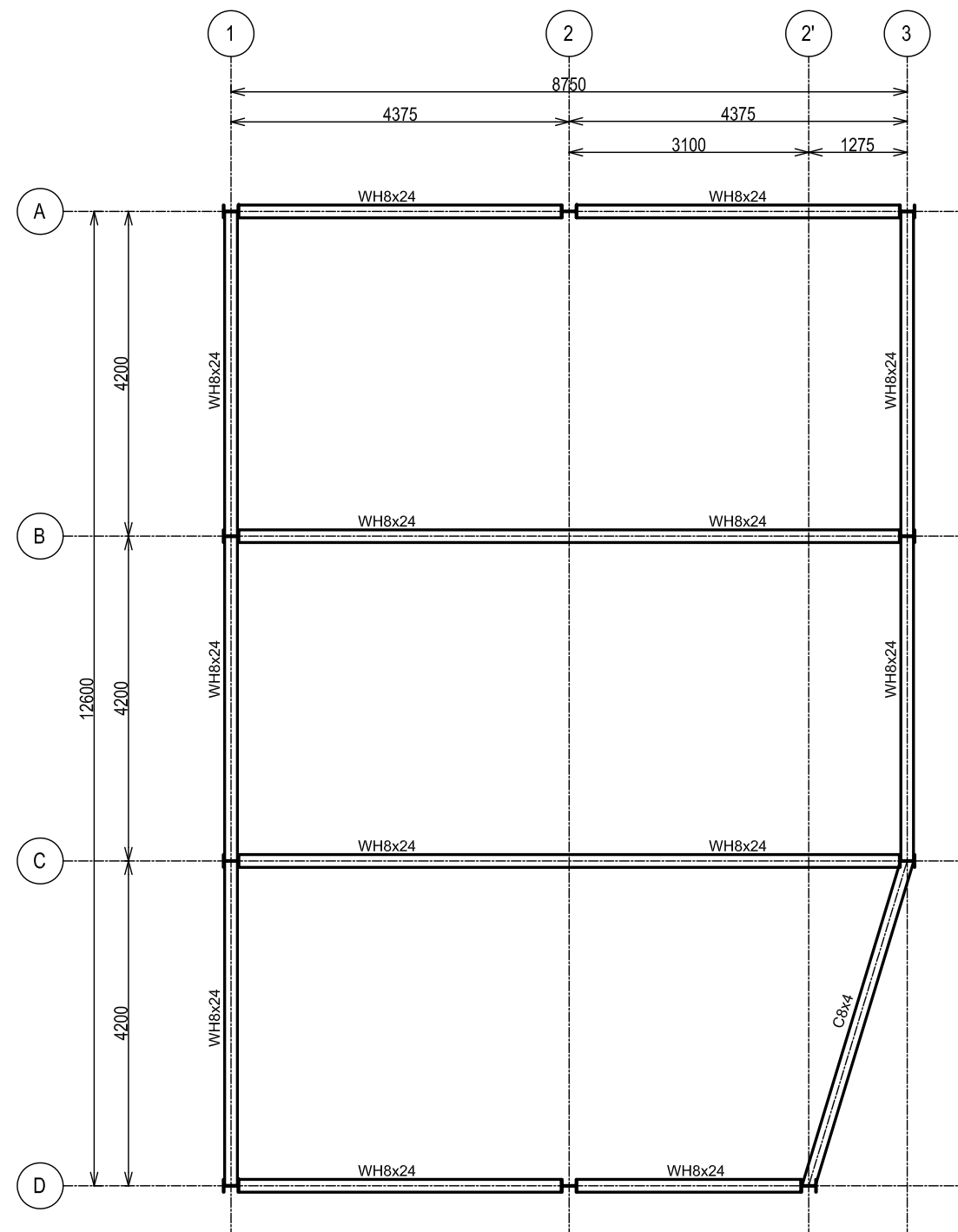
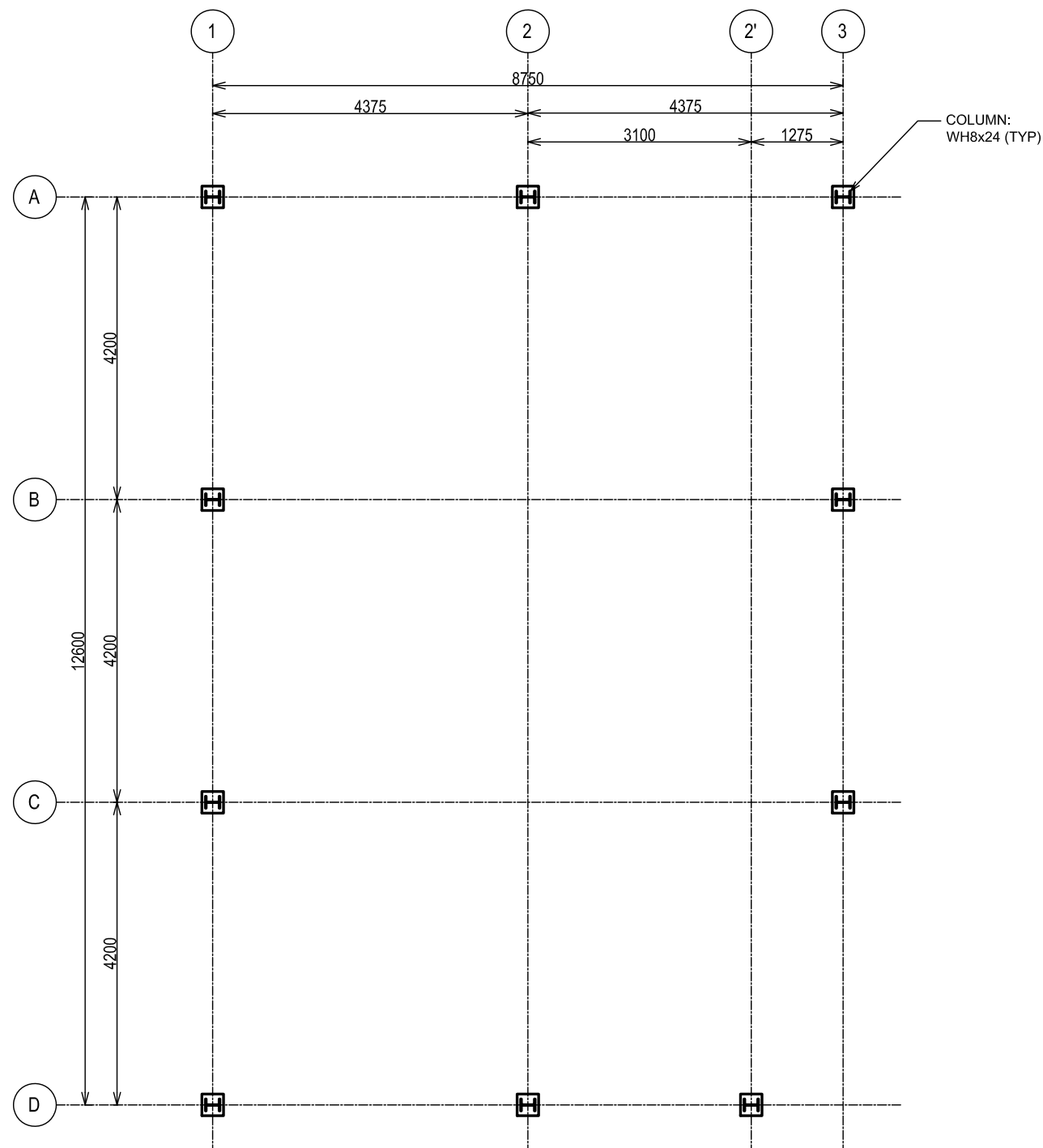
BACK VIEW

*"Yamang tubig ay tipirin, kinabukasan ay kamtin."*

0917-5599-260

✉ norzagaray\_wd@yahoo.com;  
norwd\_commercial@yahoo.com;  
norzagaray\_wd\_engineering@yahoo.com  
🌐 www.norwd.gov.ph

- GENERAL NOTES:
1. ALL DIMENSIONS ARE IN MMS.
  2. THIS DRAWING IS ONLY FOR REFERENCE. ACTUAL DIMENSION AND LAYOUT OF THE EXISTING BUILDING WILL BE CHECK BY CONTRACTOR.
  3. EXIST. STEEL MEMBERS ARE ONLY APPROX.



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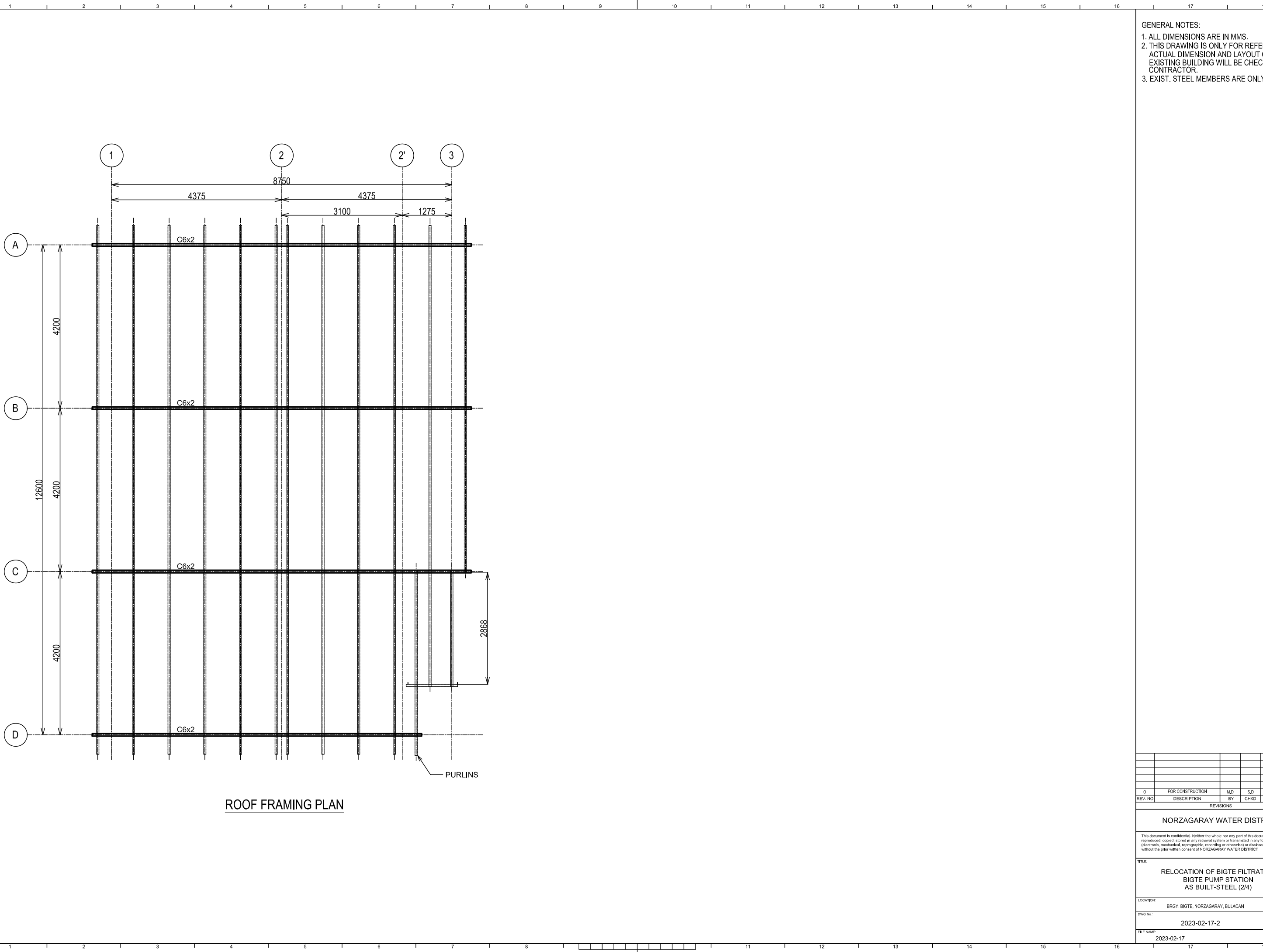
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**RELOCATION OF BIGTE FILTRATION  
 BIGTE PUMP STATION  
 AS BUILT-STEEL (1/4)**

LOCATION:  
 BRGY. BIGTE, NORZAGARAY, BULACAN

DWG. NO.: 2023-02-17-1  
 SIZE: A3  
 REV: 0

FILE NAME:  
 2023-02-17





ROOF FRAMING PLAN

- GENERAL NOTES:
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0	FOR CONSTRUCTION	M.D	S.D	A.C	21-FEB-23

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NORZAGARAY WATER DISTRICT

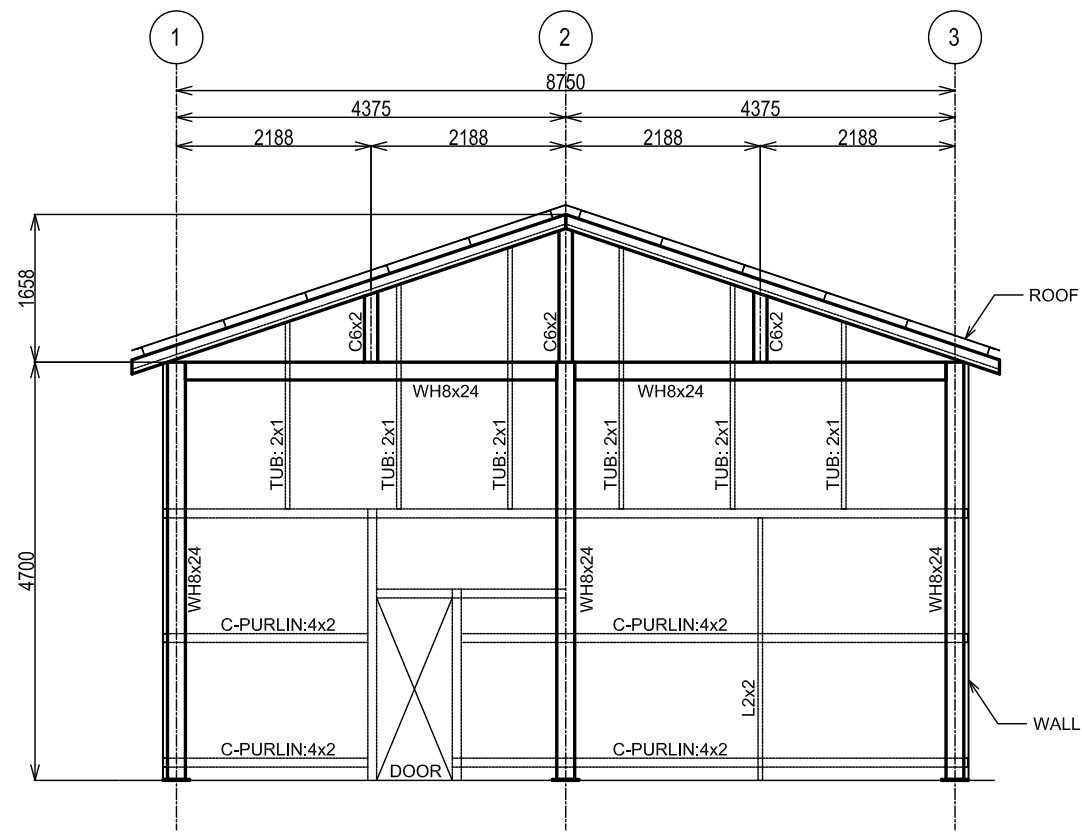
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TITLE:  
RELOCATION OF BIGTE FILTRATION  
BIGTE PUMP STATION  
AS BUILT-STEEL (2/4)

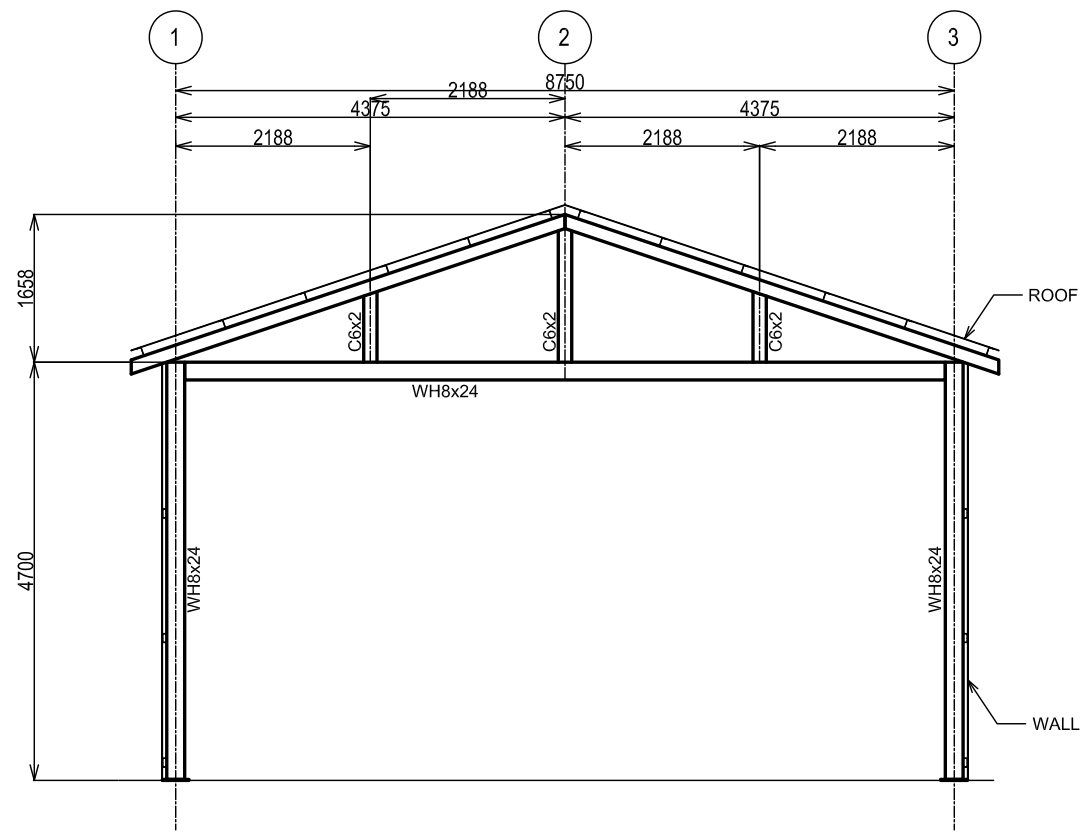
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BRGY, BIGTE, NORZAGARAY, BULACAN

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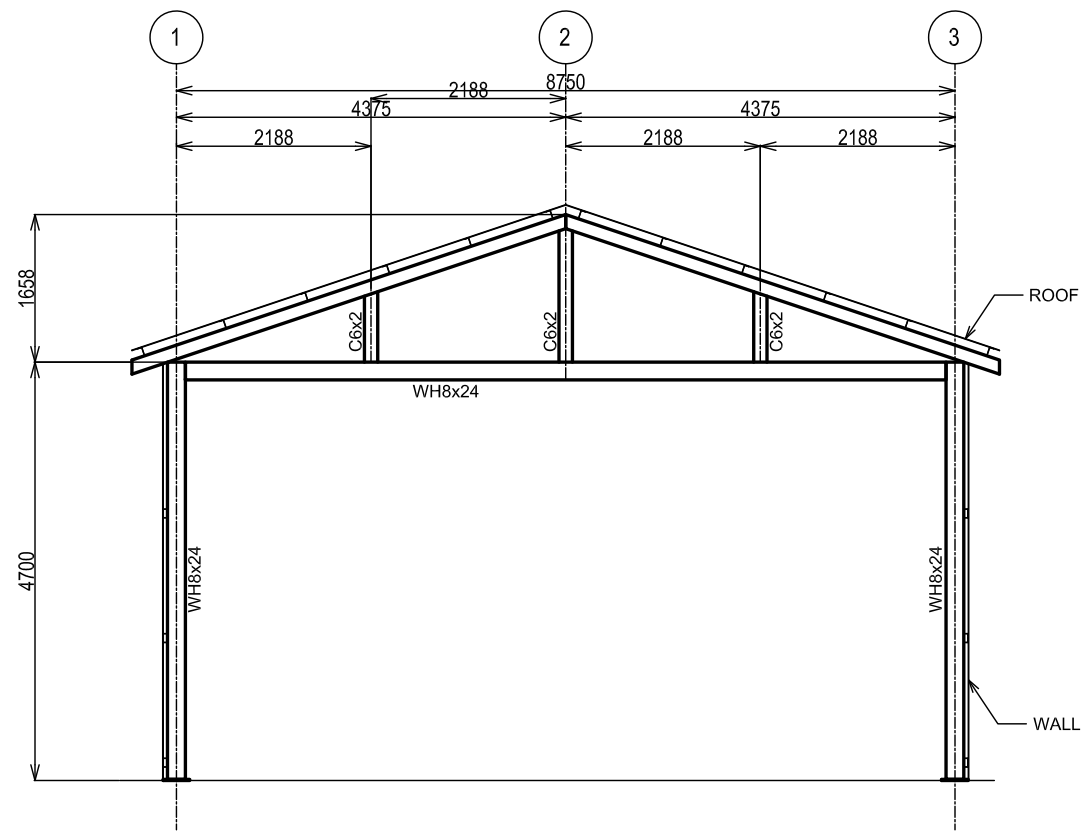
FILE NAME:  
2023-02-17



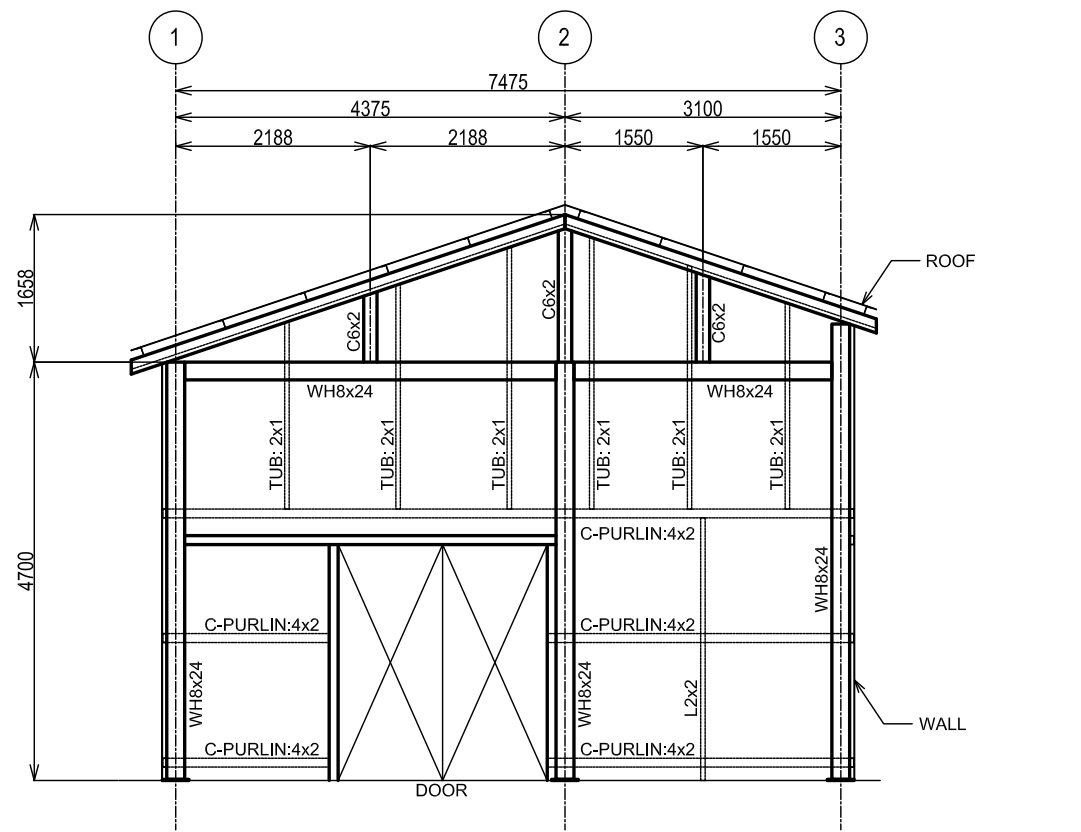
A ELEVATION



C ELEVATION



B ELEVATION



D ELEVATION

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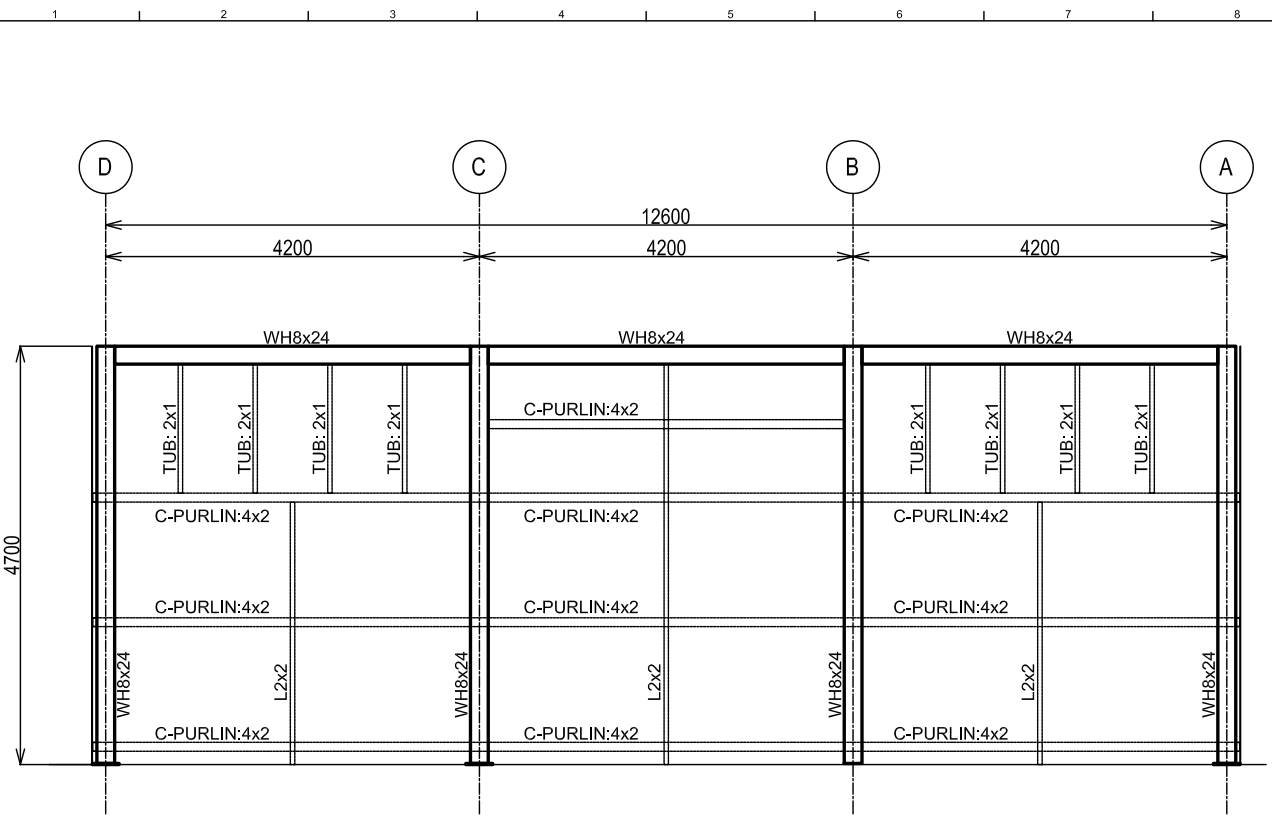
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TITLE:  
**RELOCATION OF BIGTE FILTRATION  
BIGTE PUMP STATION  
AS BUILT-STEEL (3/4)**

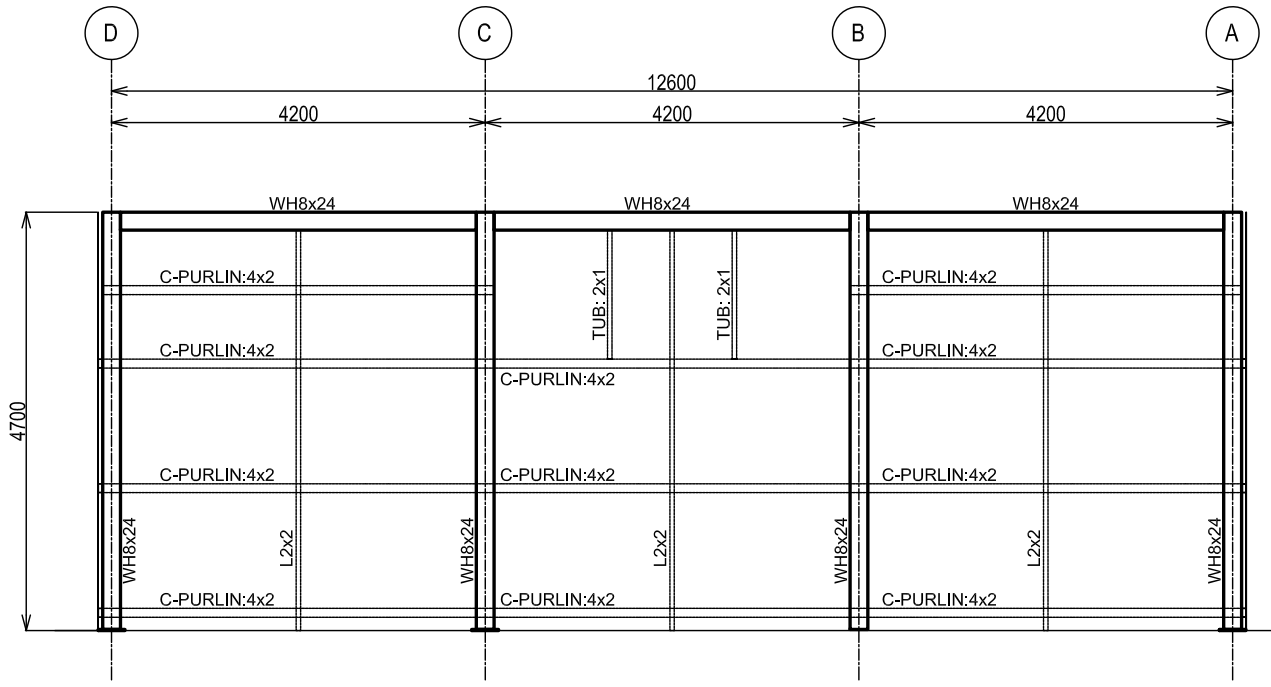
LOCATION:  
BRGY, BIGTE, NORZAGARAY, BULACAN

DWG No.: 2023-02-17-3      SIZE: A3      REV: 0

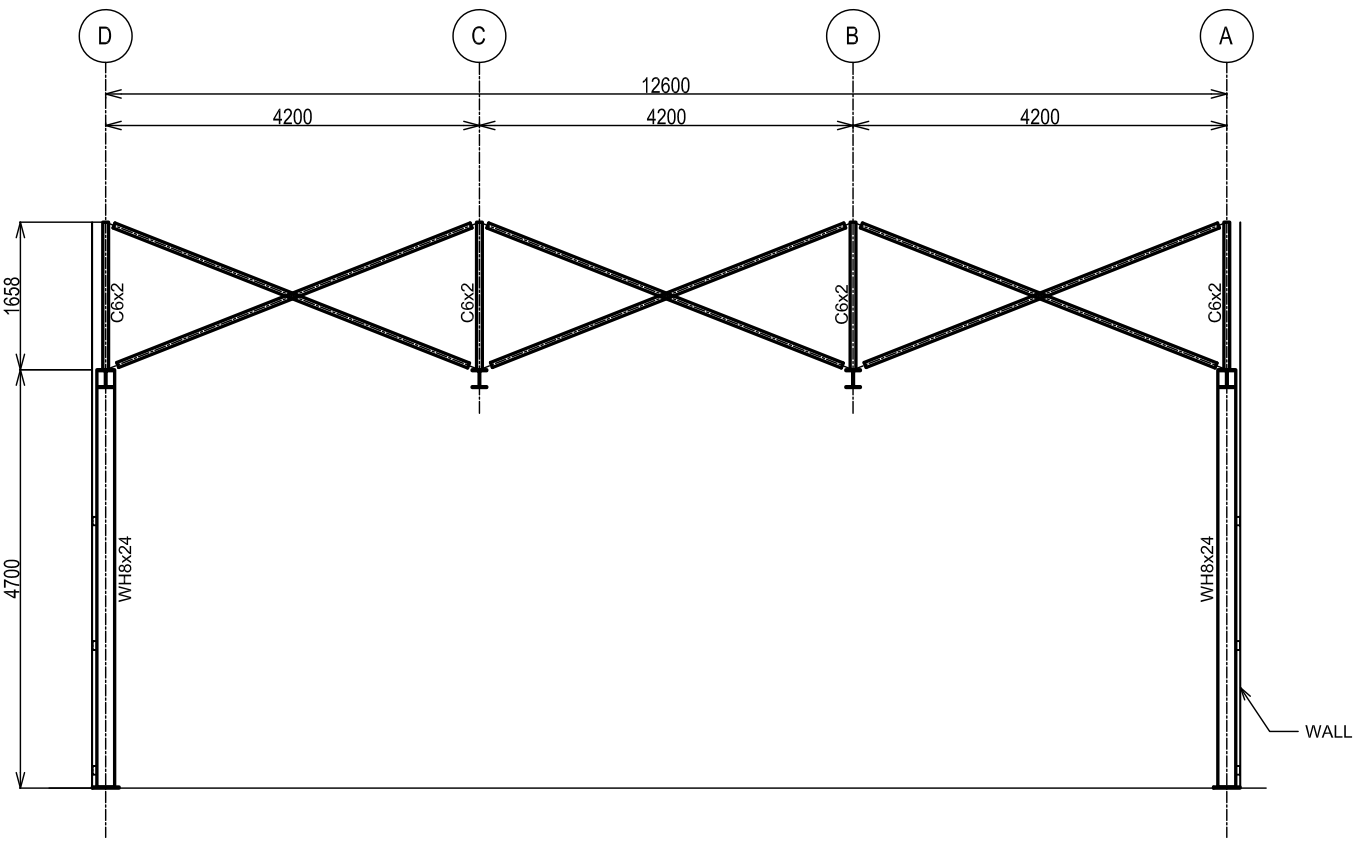
FILE NAME:  
2023-02-17



1 ELEVATION



3 ELEVATION



2 ELEVATION

GENERAL NOTES:  
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TITLE:  
**RELOCATION OF BIGTE FILTRATION  
 BIGTE PUMP STATION  
 AS BUILT-STEEL (4/4)**

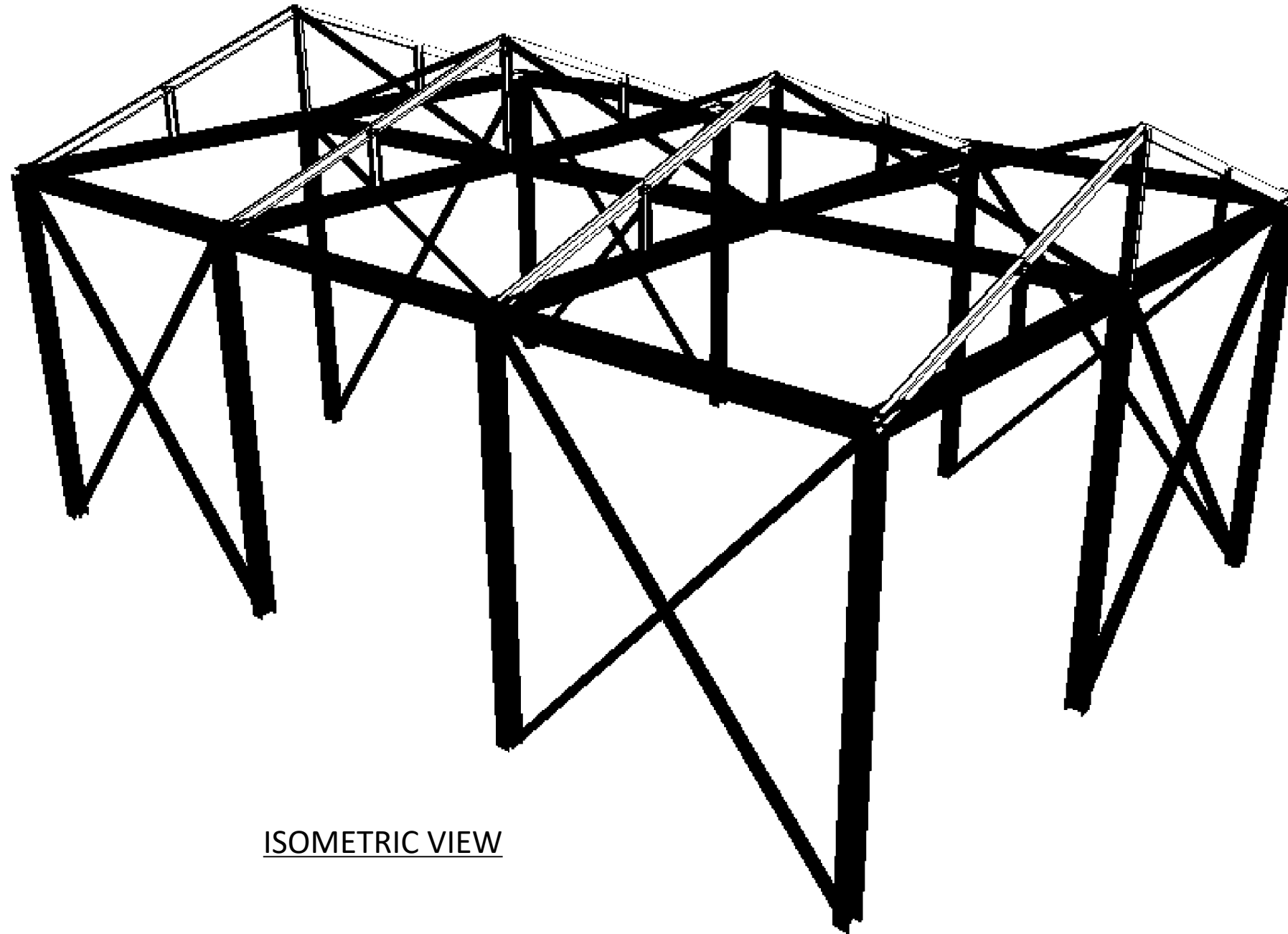
LOCATION:  
 BRGY. BIGTE, NORZAGARAY, BULACAN

DWG No.: 2023-02-17-4      SIZE: A3      REV: 0

FILE NAME:  
 2023-02-17

**ATTACHMENT-2 (Construction and Erection of Bigte Filtration Building to NORWD Villarama Office )**

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ISOMETRIC VIEW

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TITLE:  
**RELOCATION OF BIGTE FILTRATION  
BIGTE PUMP STATION  
ISOMETRIC VIEW**

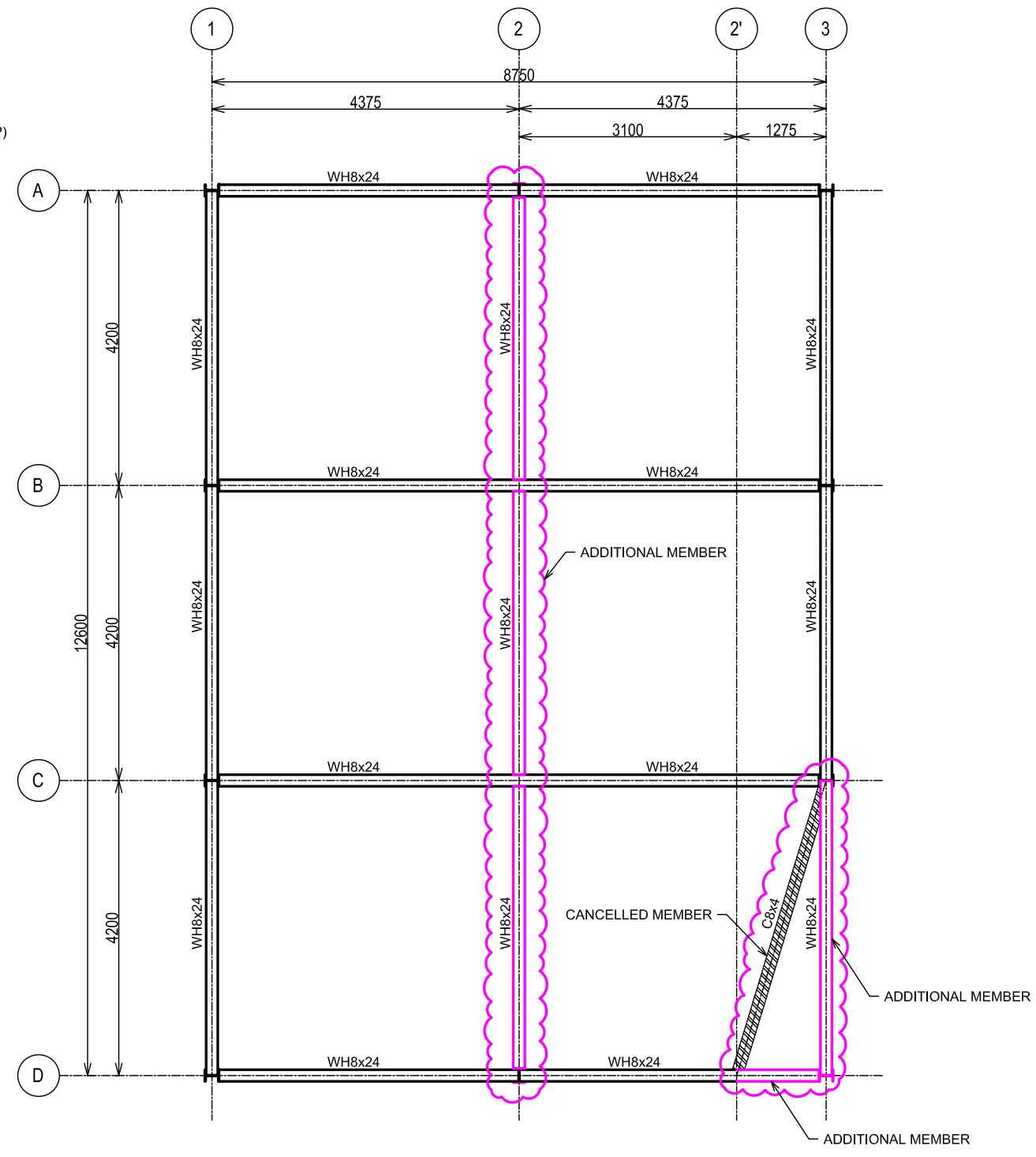
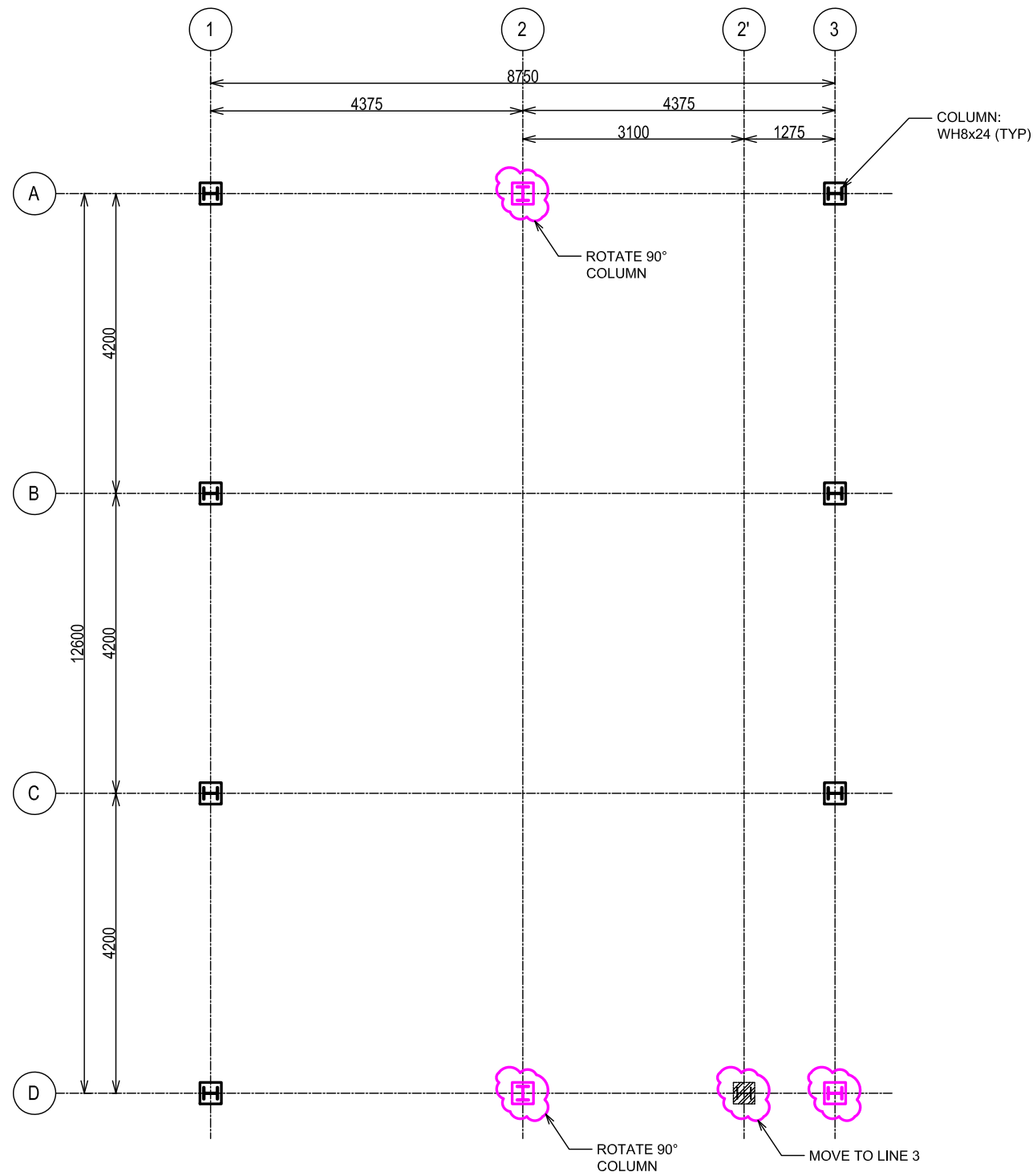
LOCATION:  
BRGY. BIGTE, NORZAGARAY, BULACAN

DWG No.: 2023-02-18-0      SIZE: A3      REV: 0

FILE NAME:  
2023-02-18



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NORZAGARAY WATER DISTRICT

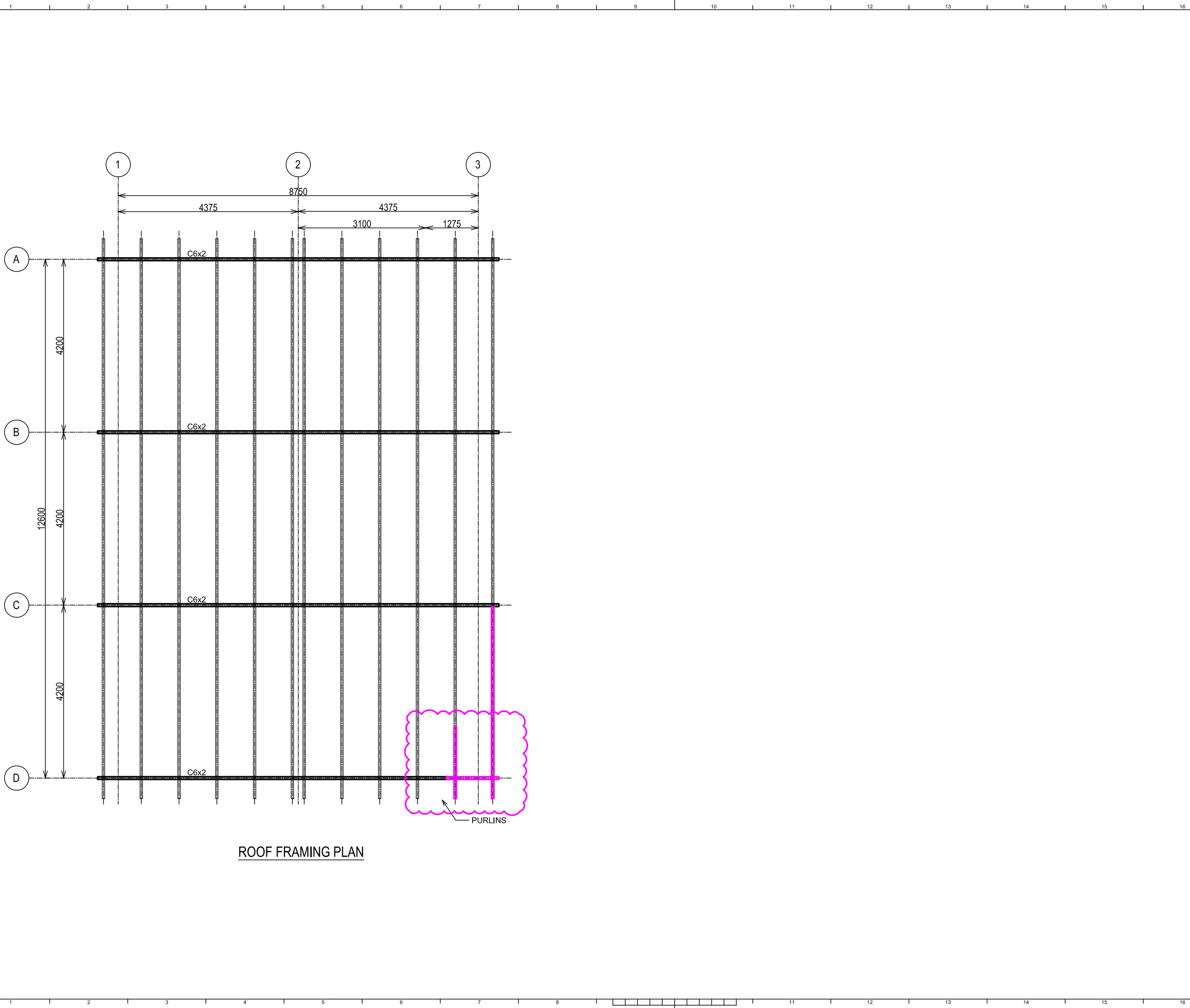
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TITLE:  
RELOCATION OF BIGTE FILTRATION  
BIGTE PUMP STATION  
RE-BUILT-STEEL (1/4)

LOCATION:  
BRGY, BIGTE, NORZAGARAY, BULACAN

DWG NO.: 2023-02-18-1  
SIZE: A3  
REV: 0

FILE NAME:  
2023-02-18



ROOF FRAMING PLAN

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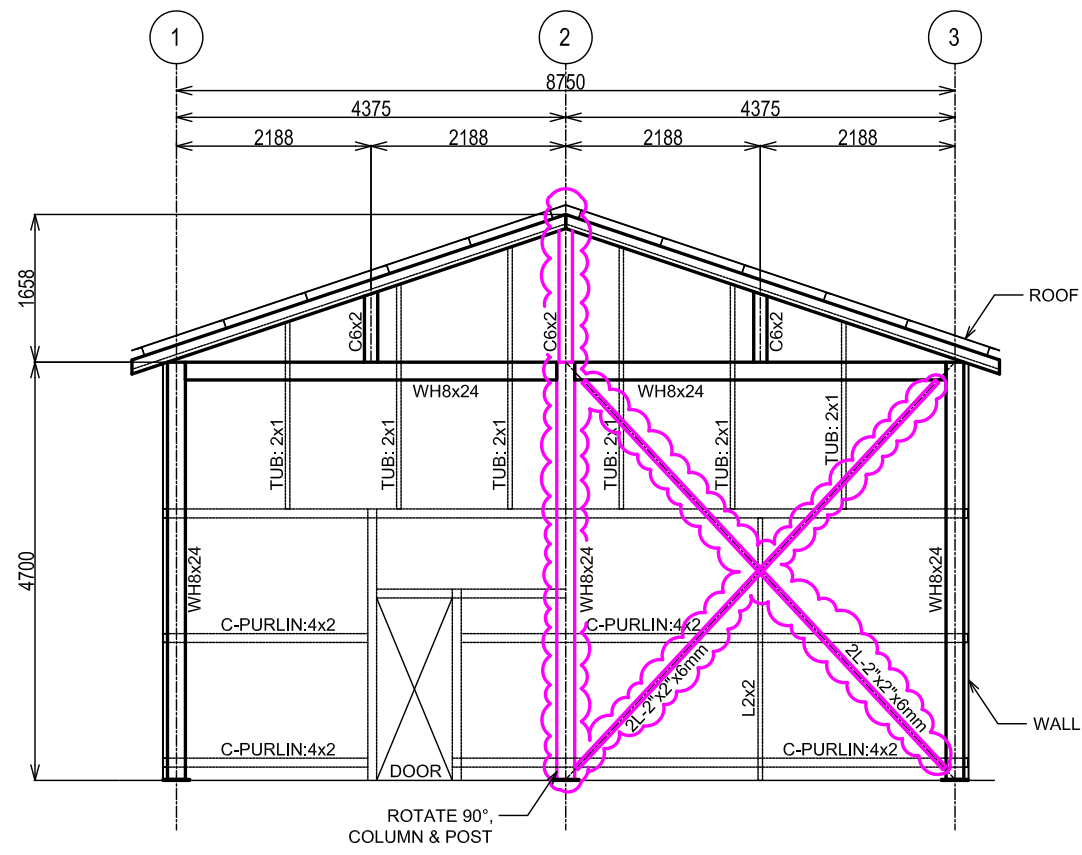
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TITLE:  
RELOCATION OF BIGTE FILTRATION  
BIGTE PUMP STATION  
RE-BUILT-STEEL (2/4)

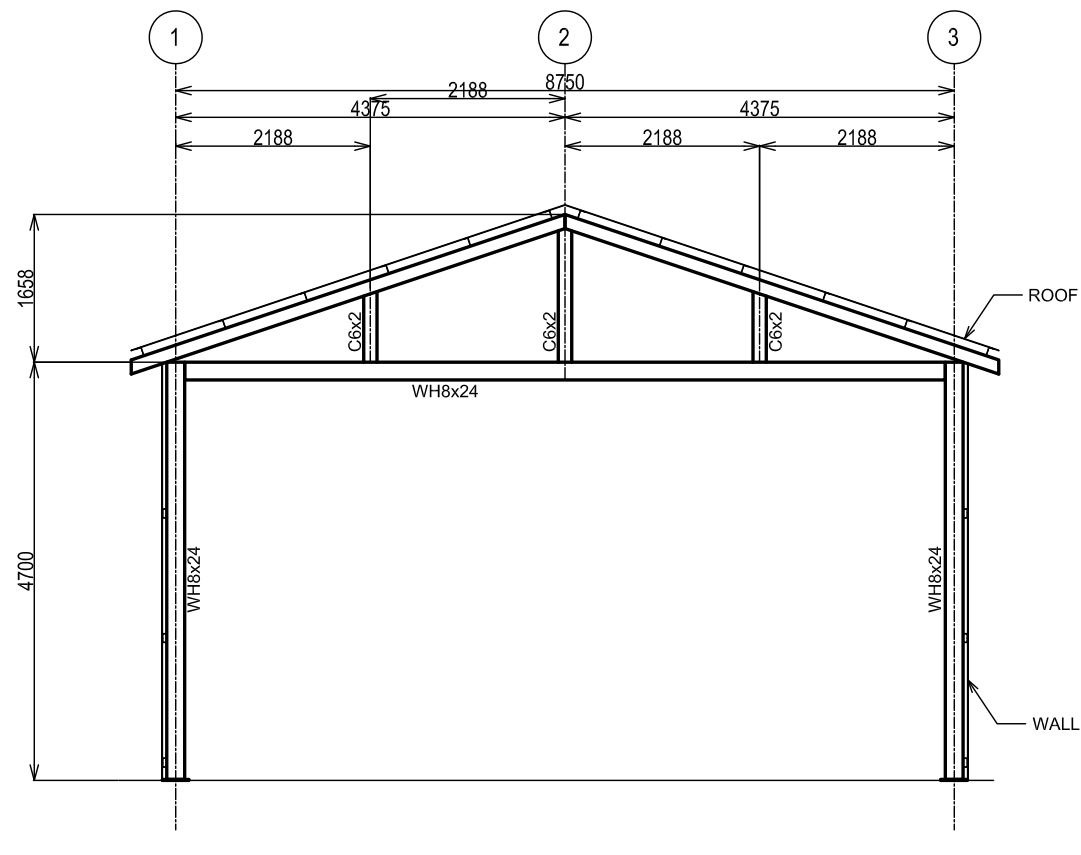
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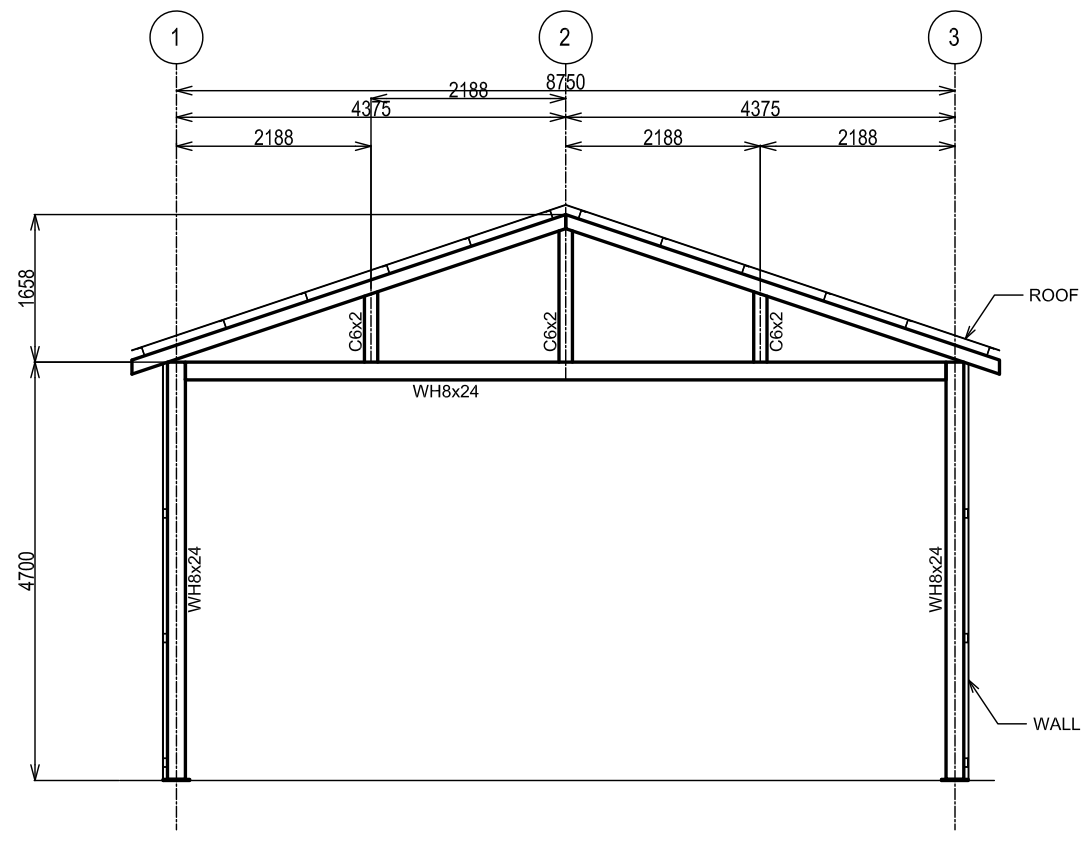
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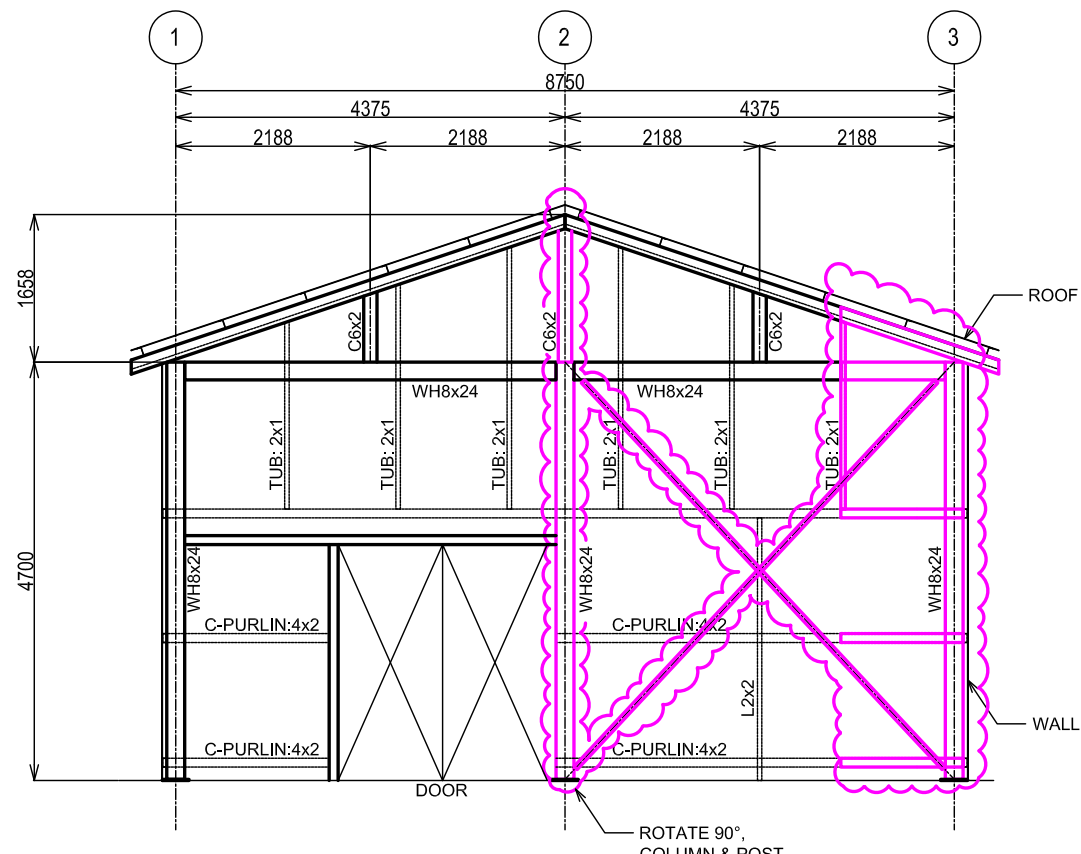
**A** ELEVATION



**C** ELEVATION



**B** ELEVATION



**D** ELEVATION

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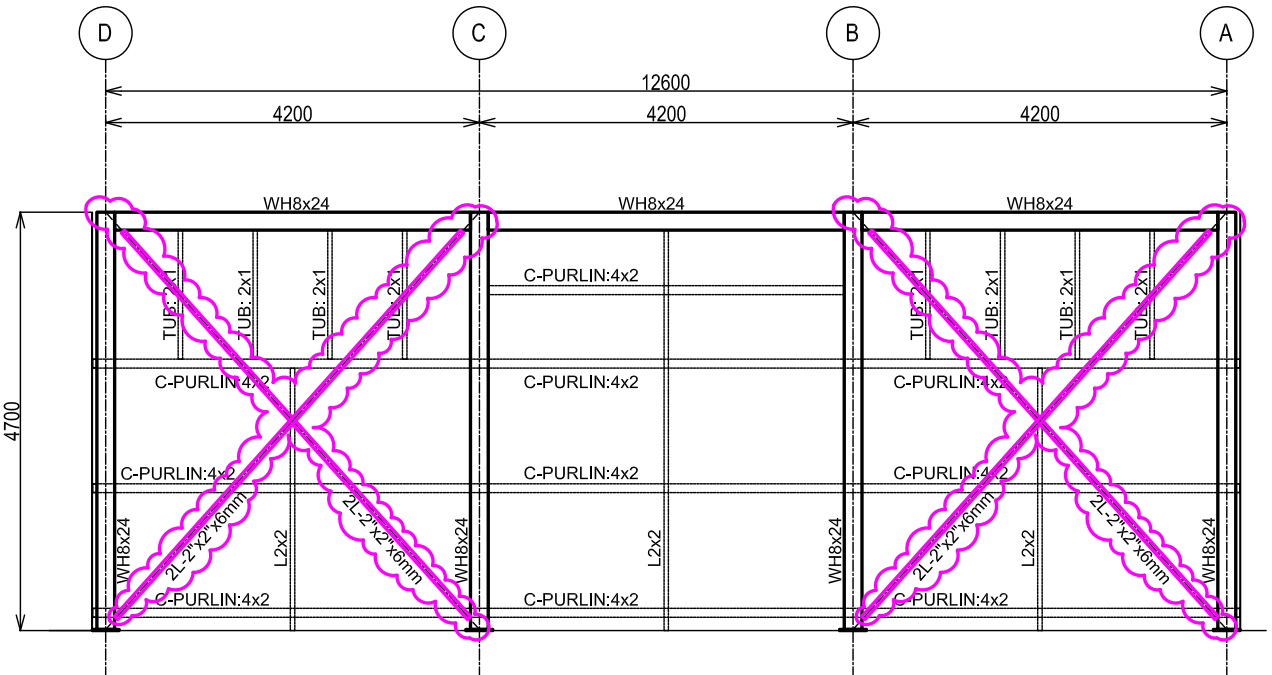
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**RELOCATION OF BIGTE FILTRATION  
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 RE-BUILT-STEEL (3/4)**

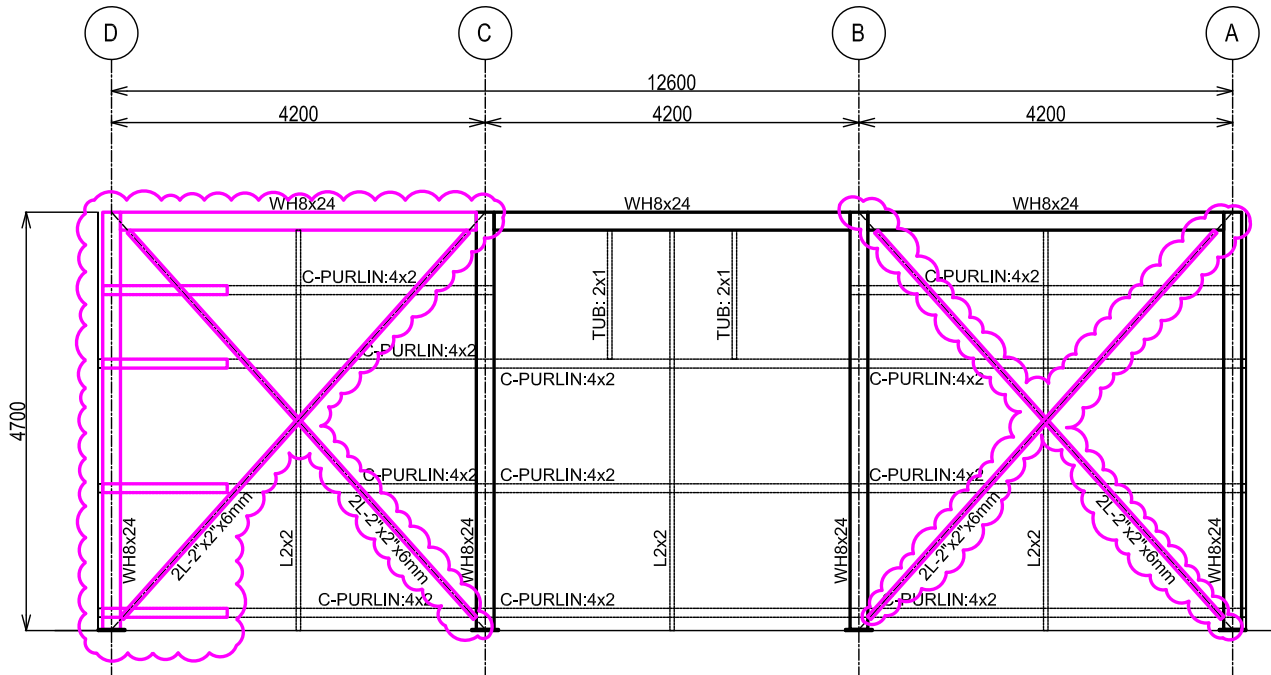
LOCATION:  
 BRGY, BIGTE, NORZAGARAY, BULACAN

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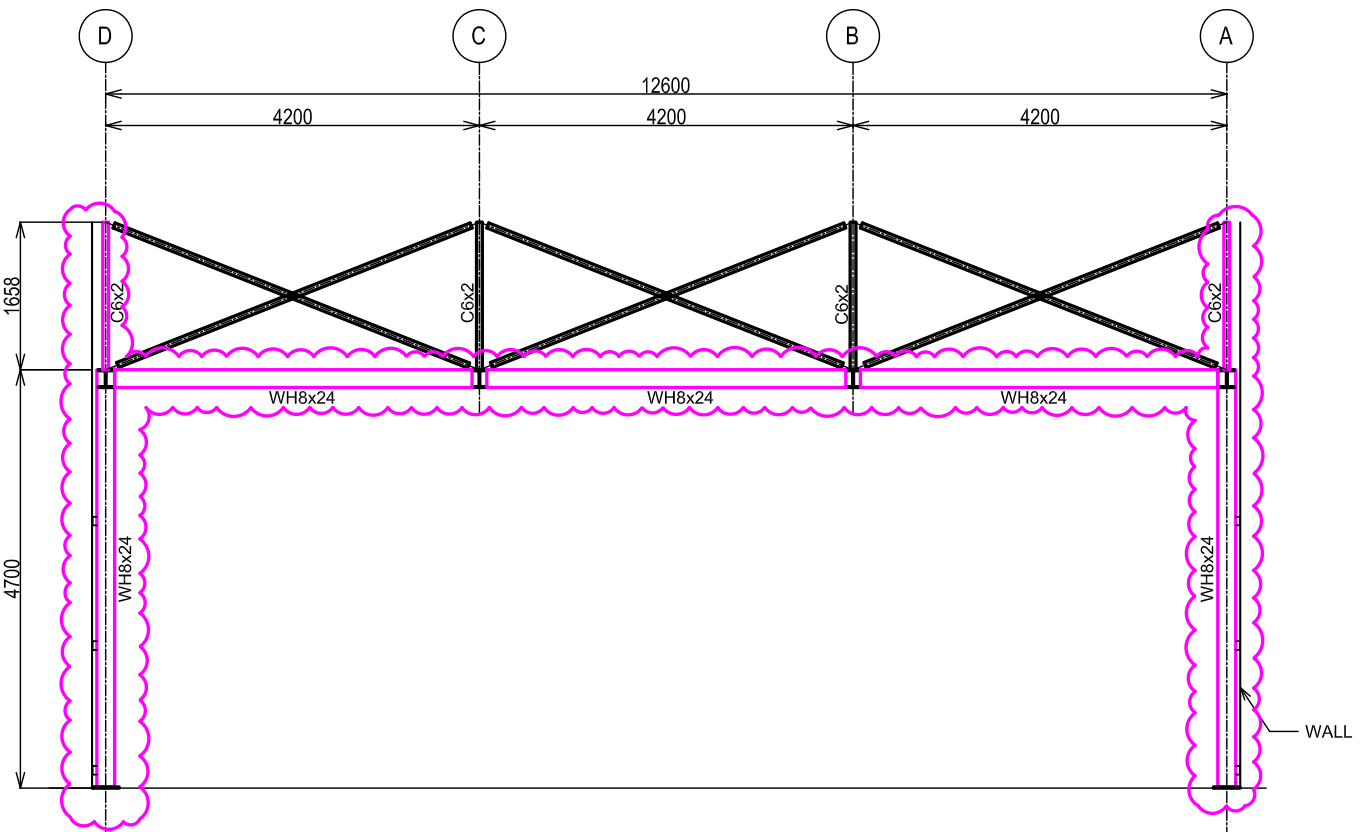
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 2023-02-18



1 ELEVATION



3 ELEVATION

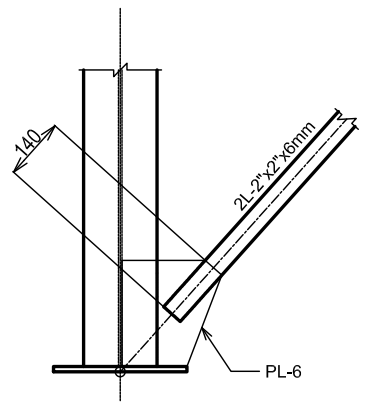


2 ELEVATION

**TABLE J2.4**  
**Minimum Size of Fillet Welds**

Material Thickness of Thinner Part Joined, in. (mm)	Minimum Size of Fillet Weld, <sup>1)</sup> in. (mm)
To 1/4 (6) Inclusive	1/4 (3)
Over 1/4 (6) to 1/2 (13)	3/8 (5)
Over 1/2 (13) to 3/4 (19)	1/2 (6)
Over 3/4 (19)	5/8 (6)

<sup>1)</sup> Leg dimension of fillet welds. Single pass welds must be used.  
Note: See Section J2.2b for maximum size of fillet welds.  
The dimensions/weights of AISC Construction specifies minimum fillet weld size based on the thickness of the material being welded.



DETAIL FOR ADDITIONAL BRACES

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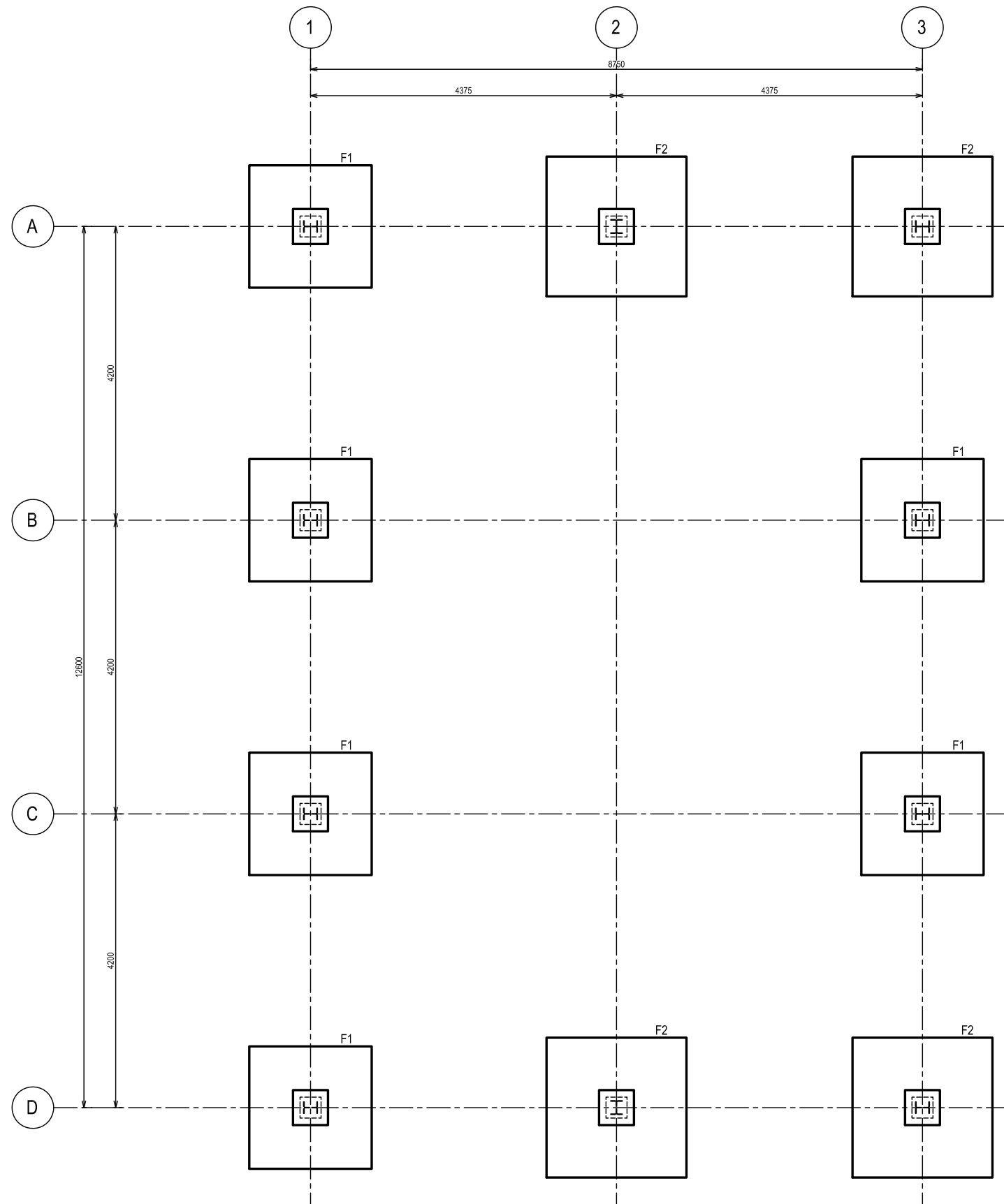
**TITLE:**  
RELOCATION OF BIGTE FILTRATION BIGTE PUMP STATION RE-BUILT-STEEL (4/4)

**LOCATION:**  
BRGY. BIGTE, NORZAGARAY, BULACAN

**DWG. NO.:** 2023-02-18-4 **DATE:** 2023-02-18 **REV.:** A3 0

**FILE NAME:** 2023-02-18

**ATTACHMENT-3 (Construction of Building Foundation and Floor Slab)**



**FOUNDATION PLAN**

- GENERAL NOTES:**
- ALL DIMENSIONS ARE IN MMS.
  - MATERIALS:**
    - DEFORMED BARS: 60 ksi
    - CONCRETE  $f_c'$ : 28 MPA

REV. NO.	DESCRIPTION	BY	CHKD	APVD	DATE
0	FOR CONSTRUCTION	M.D	S.D	A.C	21-FEB-23

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TITLE:  
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FOUNDATION (1/3)**

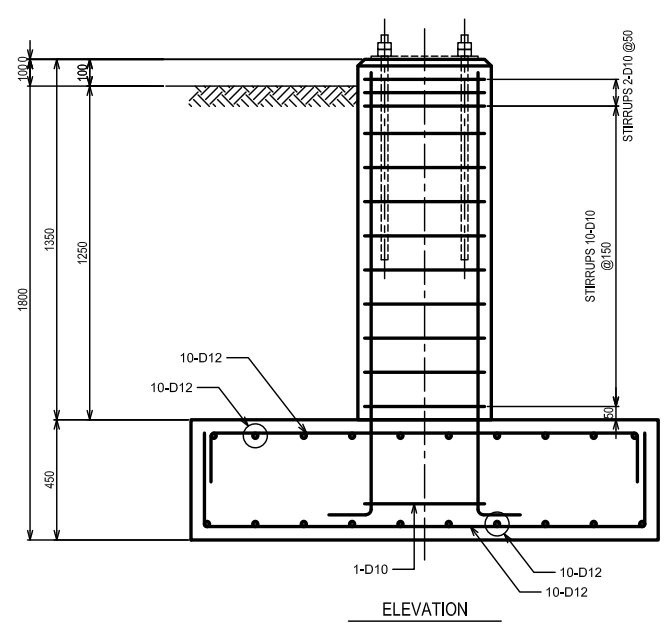
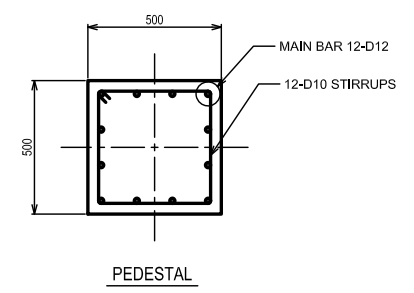
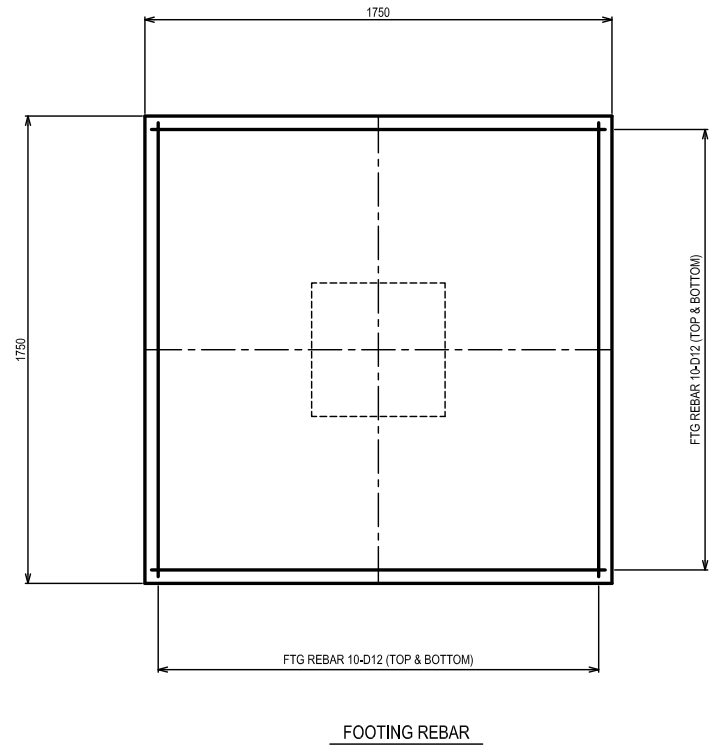
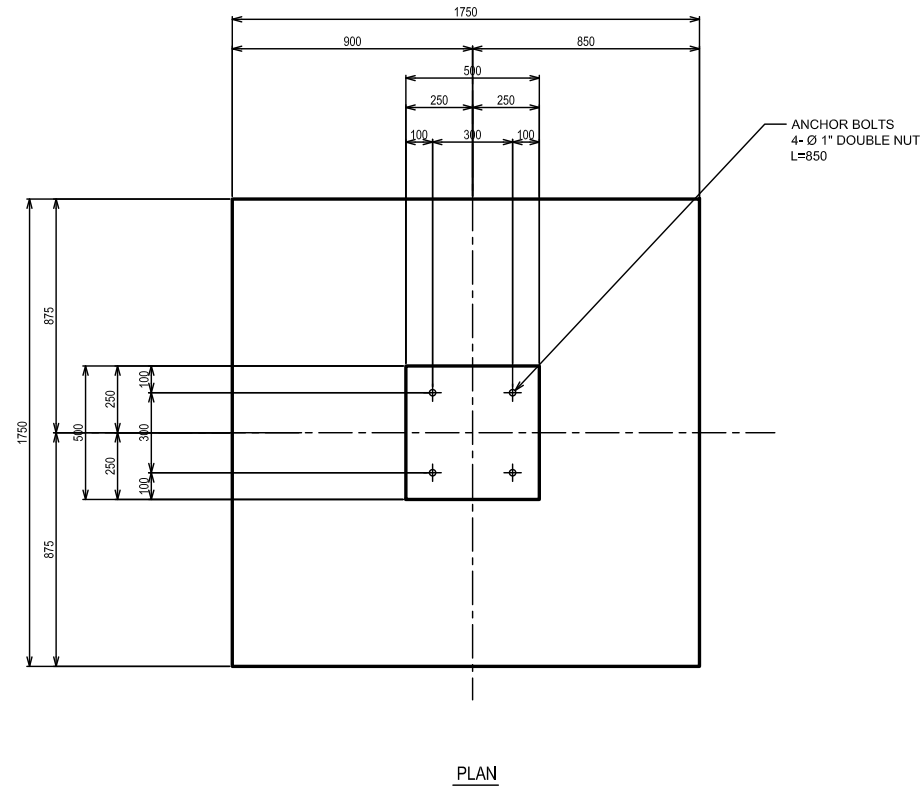
LOCATION:  
BRGY. BIGTE, NORZAGARAY, BULACAN

DWG No.: 2023-02-19-1      SIZE: A3      REV: 0

FILE NAME:  
2023-02-19

# F1 (REQ'D=6)

- GENERAL NOTES:**
- ALL DIMENSIONS ARE IN MMS.
  - MATERIALS:**
    - DEFORMED BARS: 60 ksi
    - CONCRETE  $f_c'$ : 28 MPA



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**TITLE:**  
RELOCATION OF BIGTE FILTRATION  
BIGTE PUMP STATION  
FOUNDATION (2/3)

**LOCATION:**  
BRGY. BIGTE, NORZAGARAY, BULACAN

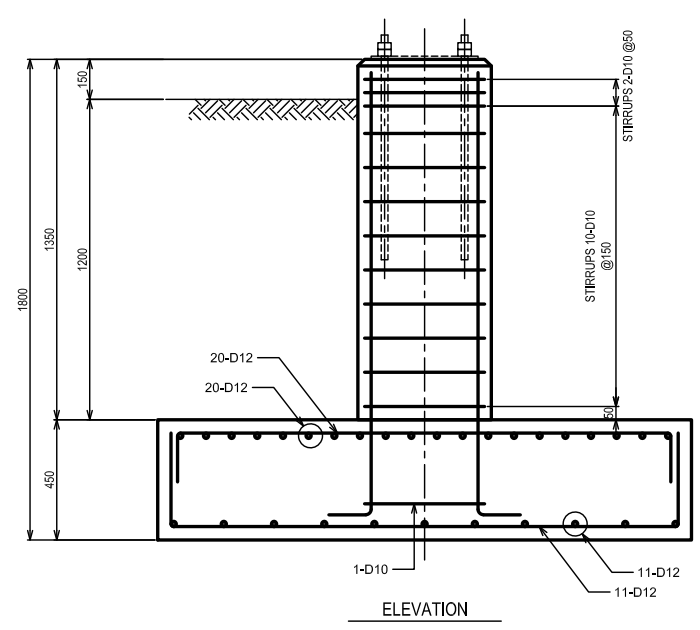
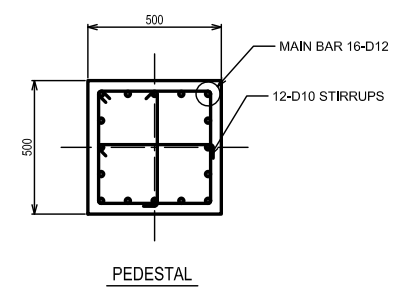
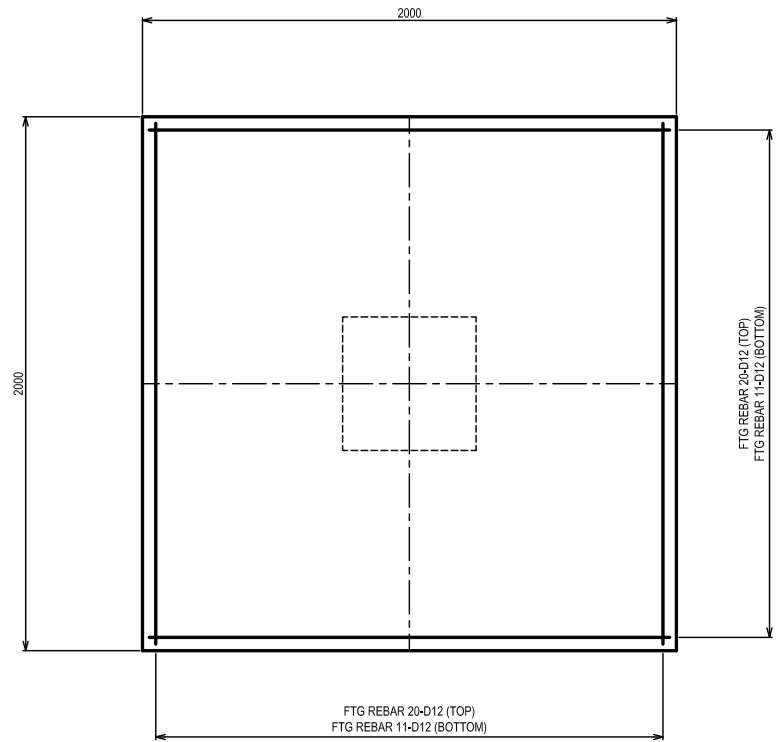
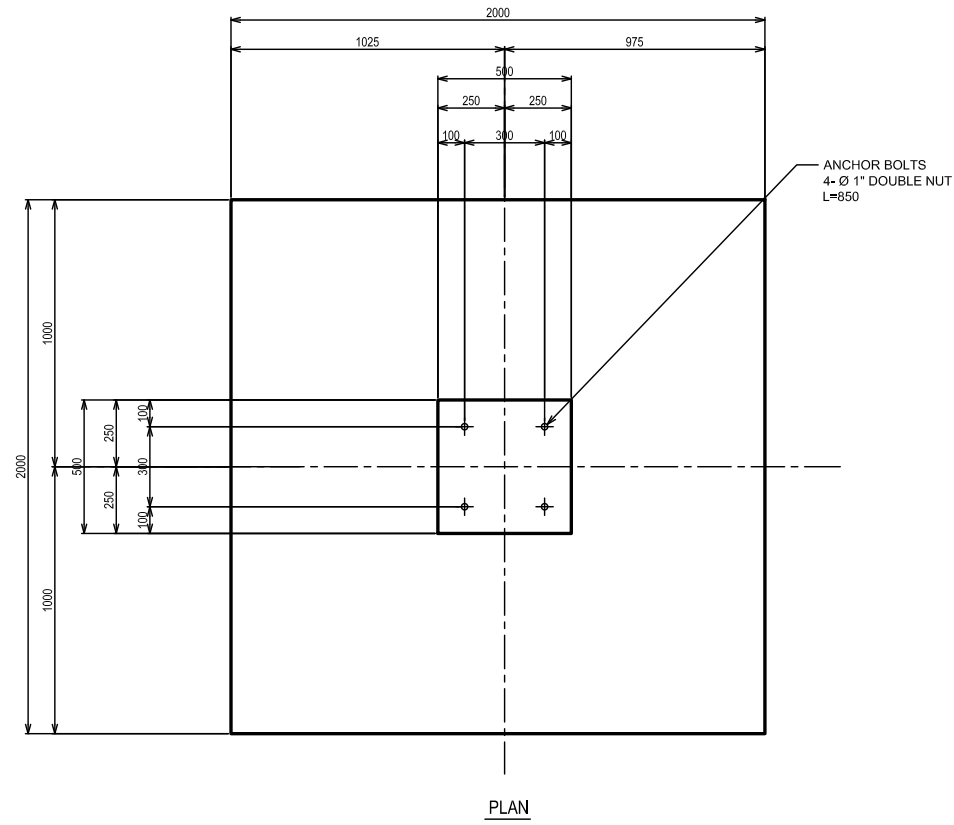
**DWG. No.:** 2023-02-19-2 **SIZE:** A3 **REV.:** 0

**FILE NAME:** 2023-02-19



# F2 (REQ'D=4)

- GENERAL NOTES:**  
 1. ALL DIMENSIONS ARE IN MMS.  
 2. MATERIALS:  
 a. DEFORMED BARS: 60 ksi  
 b. CONCRETE  $f_c'$ : 28 MPA



REV. NO.	DESCRIPTION	BY	CHKD	APVD	DATE
0	FOR CONSTRUCTION				21-FEB-23

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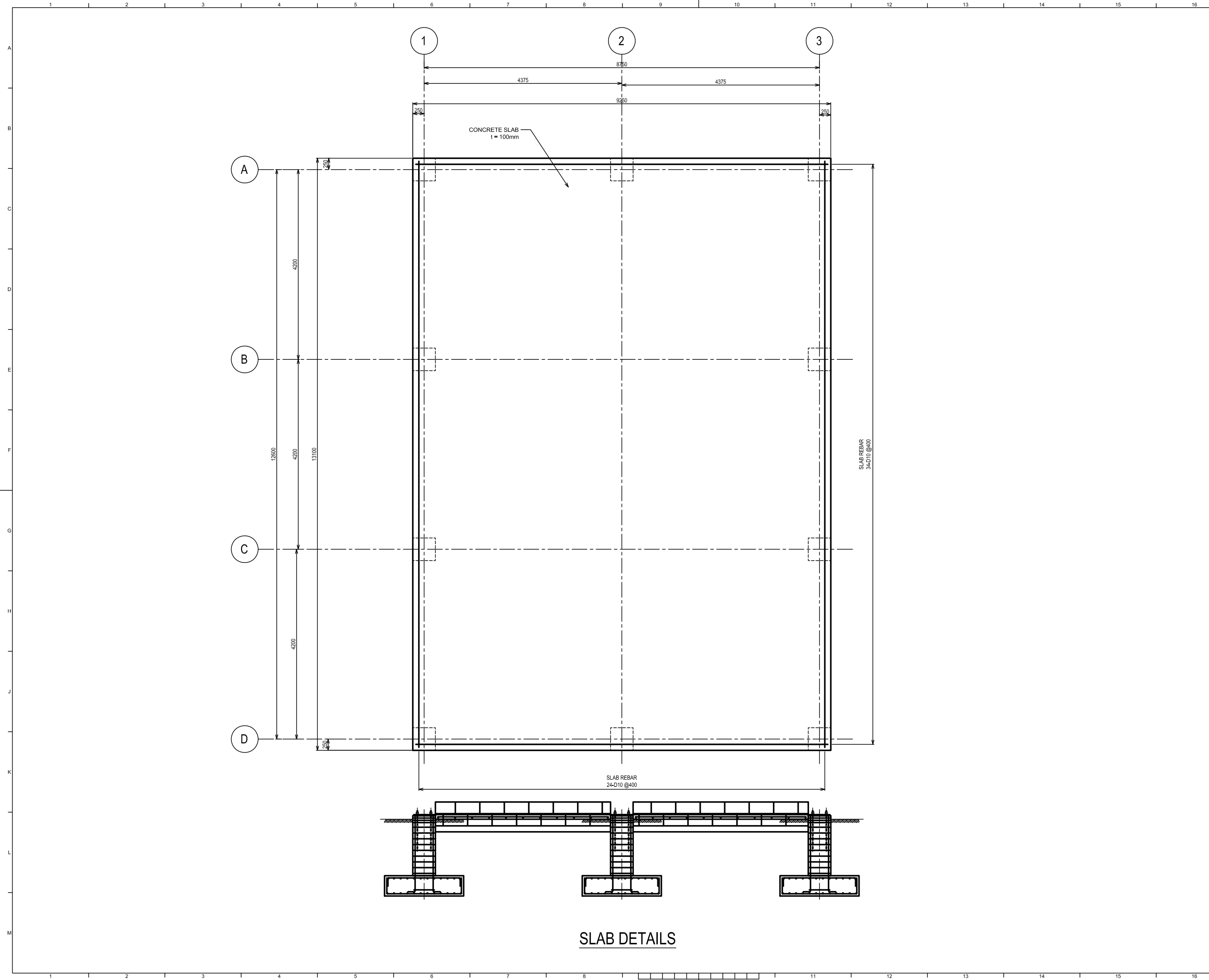
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TITLE:  
**RELOCATION OF BIGTE FILTRATION  
 BIGTE PUMP STATION  
 FOUNDATION (3/3)**

LOCATION:  
 BRGY. BIGTE, NORZAGARAY, BULACAN

DWG No.: 2023-02-19-3      SIZE: A3      REV: 0

FILE NAME:  
 2023-02-19



GENERAL NOTES:  
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 2. MATERIALS:  
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 b. CONCRETE  $f_c'$ : 28 MPA

REV. NO.	DESCRIPTION	BY	CHKD	APVD	DATE
0	FOR CONSTRUCTION	M.D	S.D	A.C	21-FEB-23

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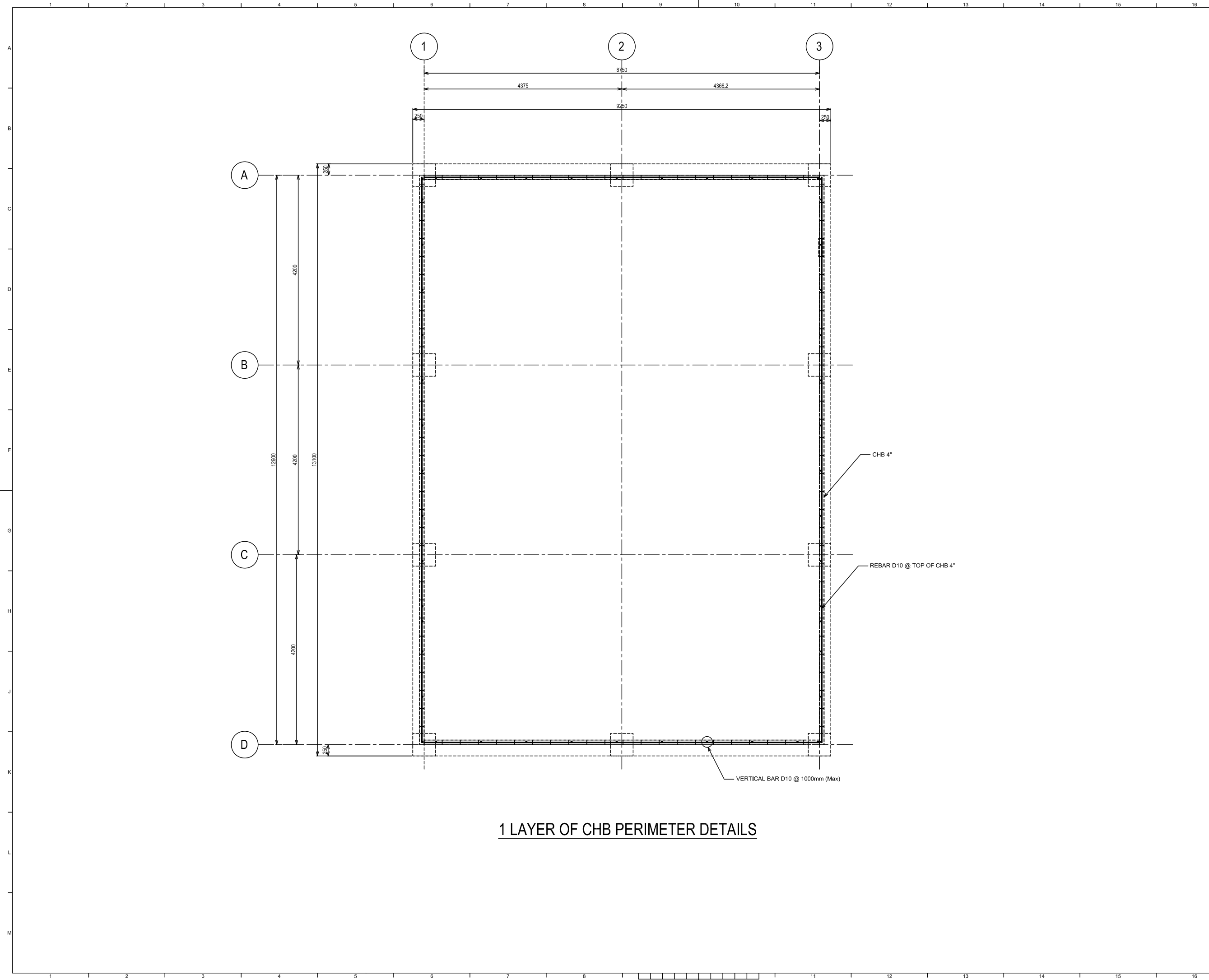
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TITLE:  
 RELOCATION OF BIGTE FILTRATION  
 BIGTE PUMP STATION  
 FLOOR SLAB

LOCATION:  
 BRGY, BIGTE, NORZAGARAY, BULACAN

DWG No.: 2023-02-20  
 SIZE: A3  
 REV: 0

FILE NAME:  
 2023-02-20



**1 LAYER OF CHB PERIMETER DETAILS**

**GENERAL NOTES:**  
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 b. CONCRETE  $f_c$ : 28 MPA

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TITLE:  
**RELOCATION OF BIGTE FILTRATION  
 BIGTE PUMP STATION  
 CHB PERIMETER**

LOCATION:  
 BRGY. BIGTE, NORZAGARAY, BULACAN

DWG No.: 2023-02-21      SIZE: A3      REV: 0

FILE NAME:  
 2023-02-21



# NORZAGARAY WATER DISTRICT

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VILLARAMA HIGHWAY, POBLACION, NORZAGARAY, BULACAN



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## ATTACHMENT-4 (Hauling of Tanks and Equipment of Filtration Building)

### EQUIPMENTS AND FACILITIES



*"Yamang tubig ay tipizin, kinabukasan ay kamtin."*

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# NORZAGARAY WATER DISTRICT

1639 P. DELA MERCED ST., POBLACION, NORZAGARAY, BULACAN  
VILLARAMA HIGHWAY, POBLACION, NORZAGARAY, BULACAN



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STORAGE TANK 1



FLOCCULATOR UNIT



STORAGE TANK 2



SECURITY FILTER



STORAGE TANK 3

*"Yamang tubig ay tipirin, kinabukasan ay kamtin."*

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STORAGE TANK 4



FILTER TANK

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