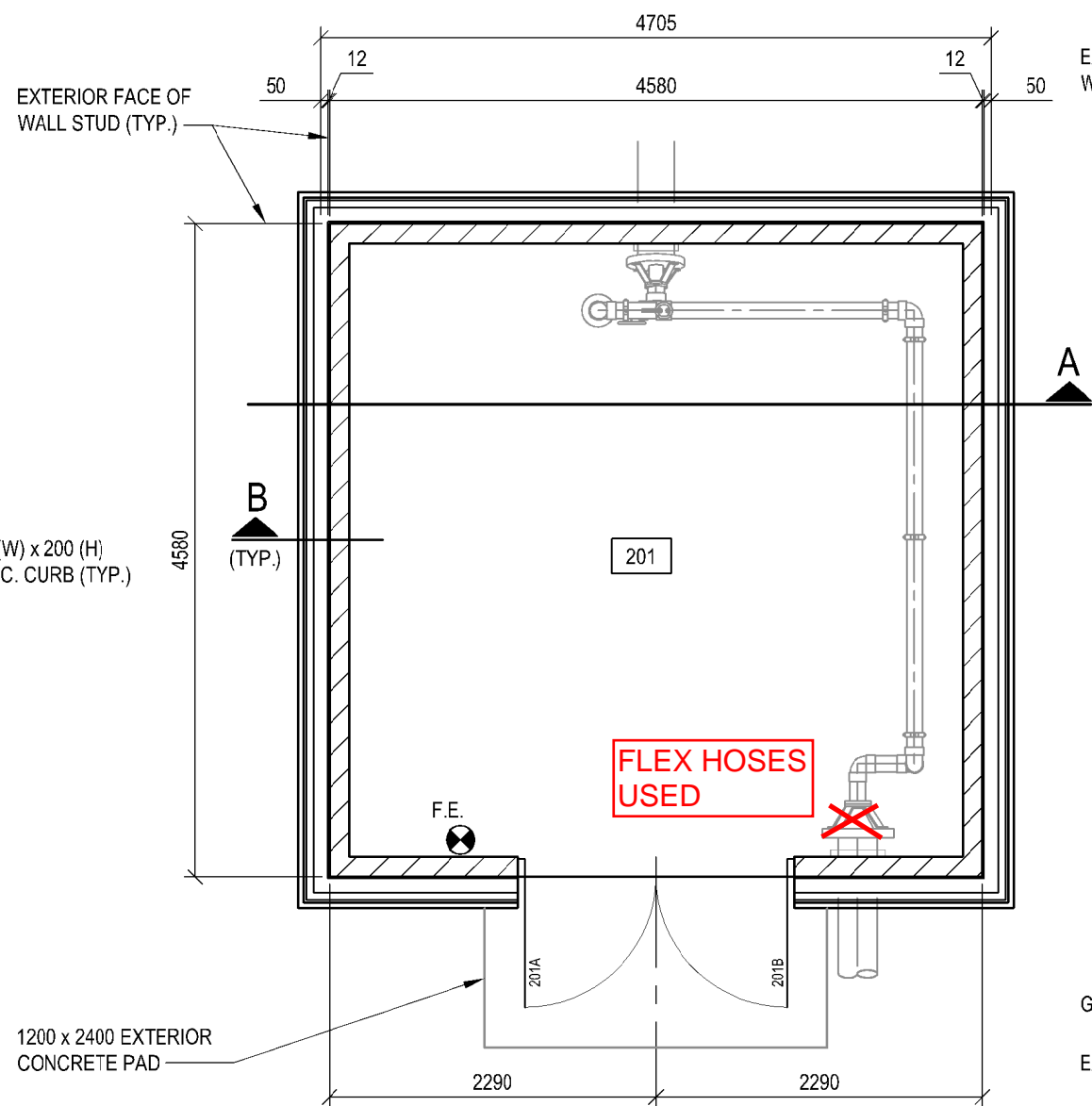
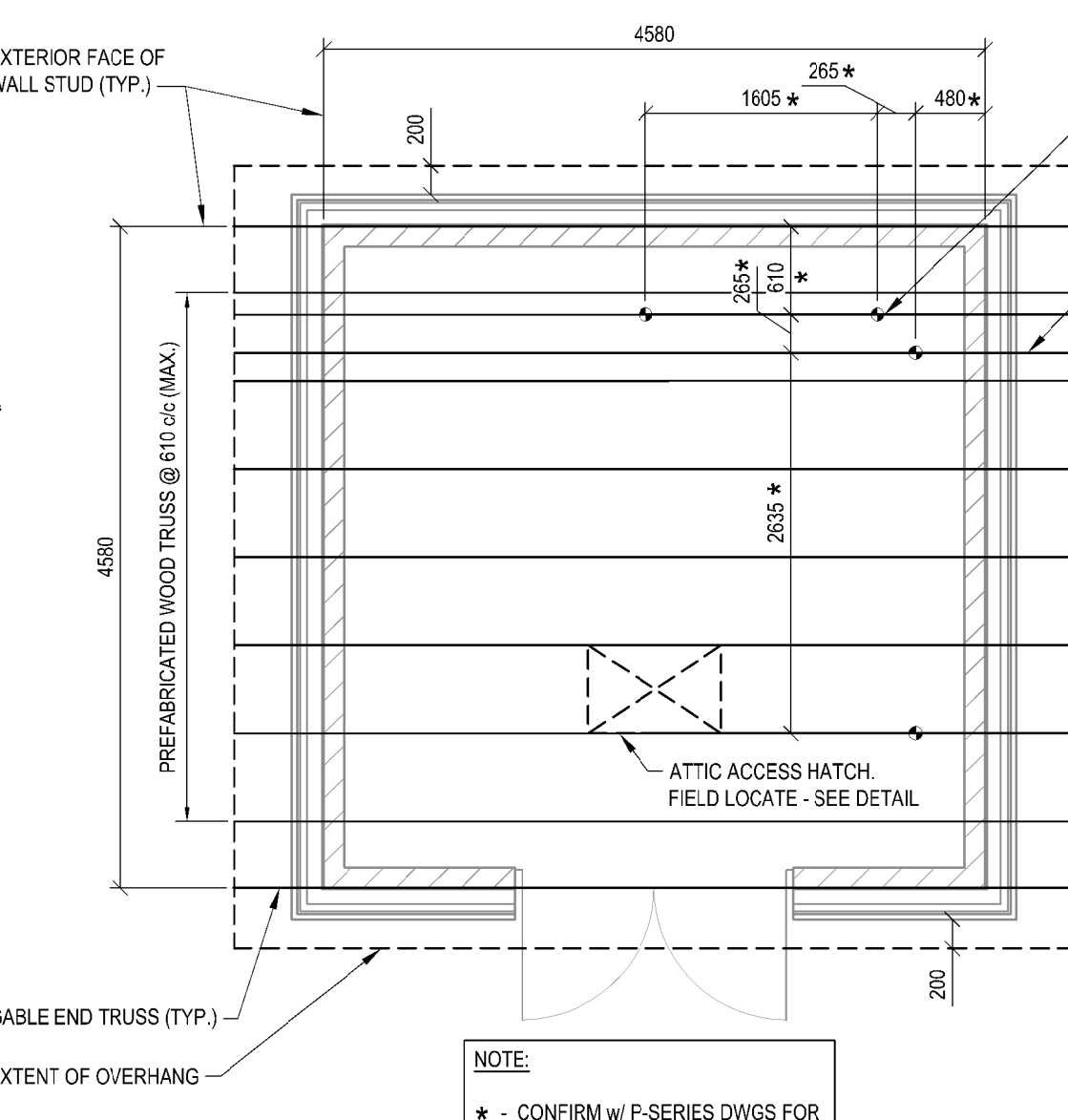


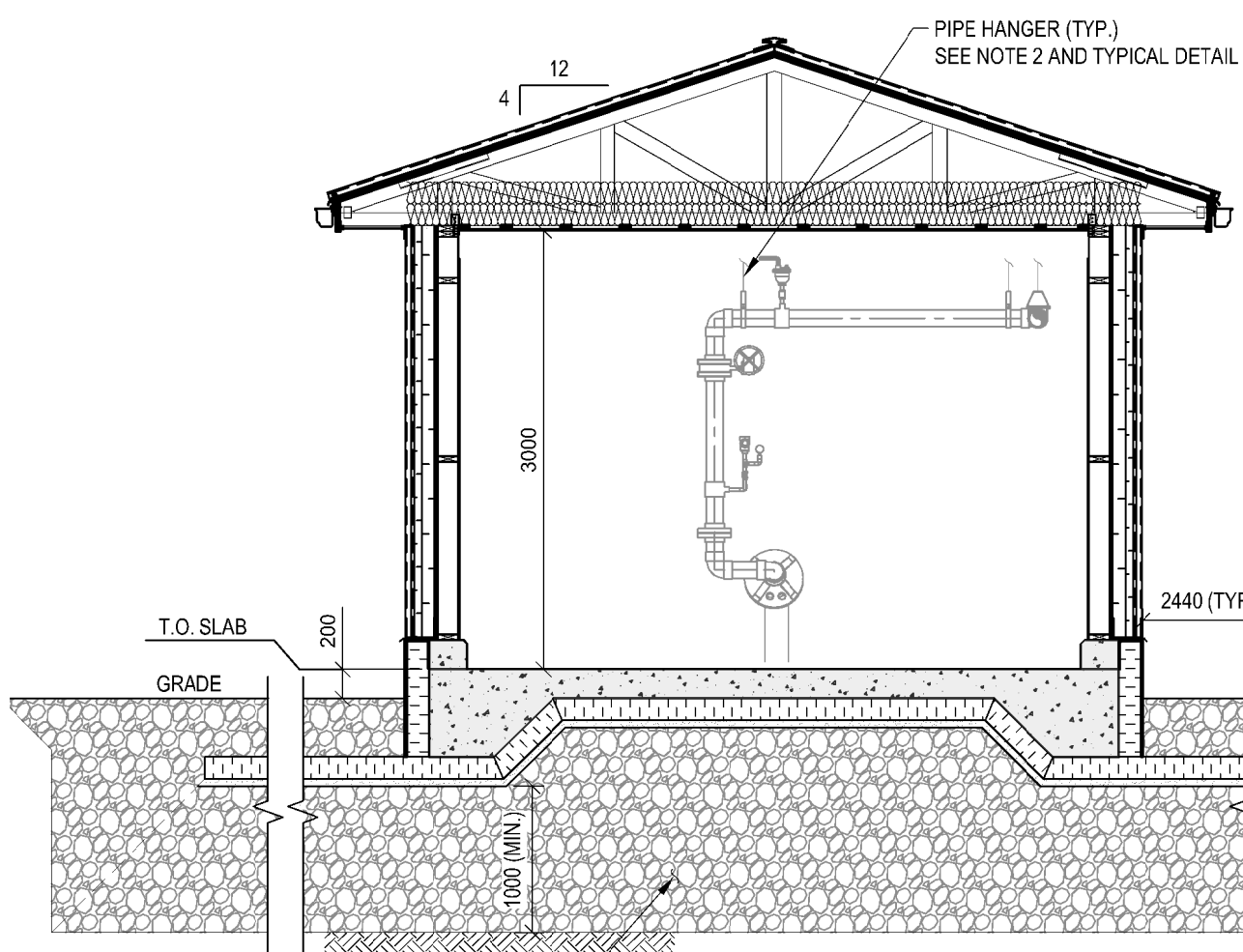
FOUNDATION PLAN
1:50



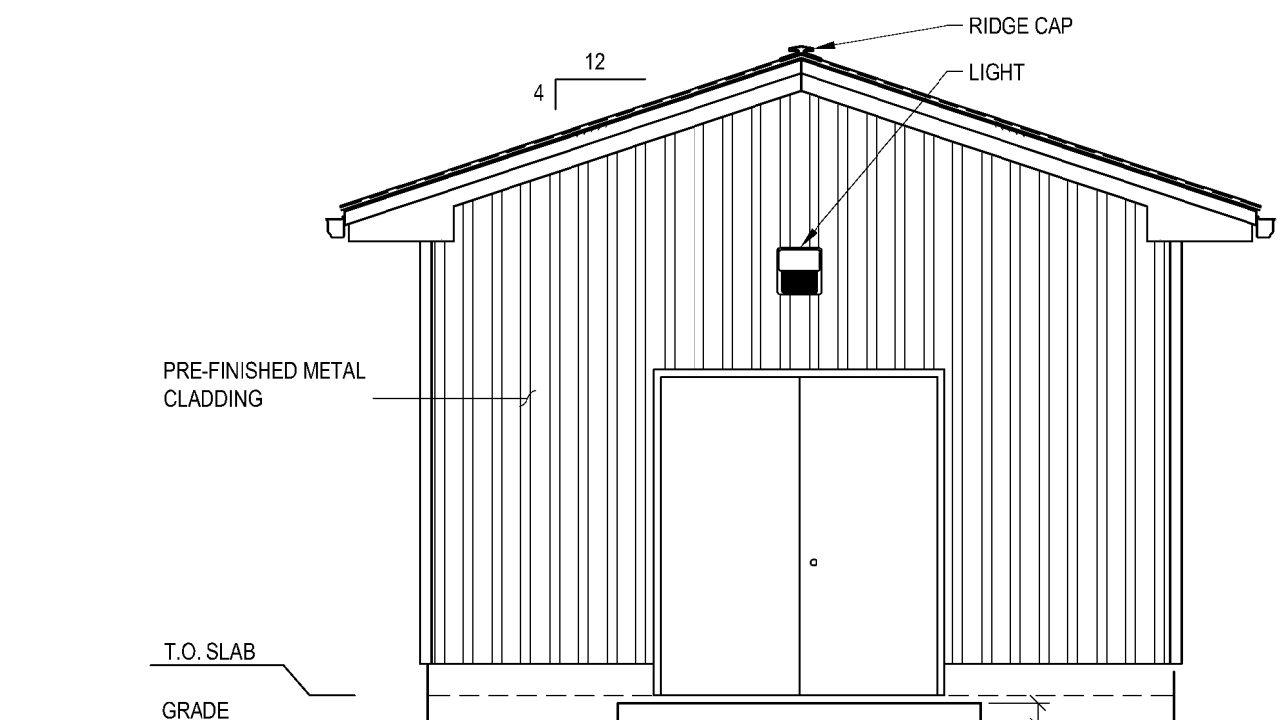
FLOOR PLAN
1:50



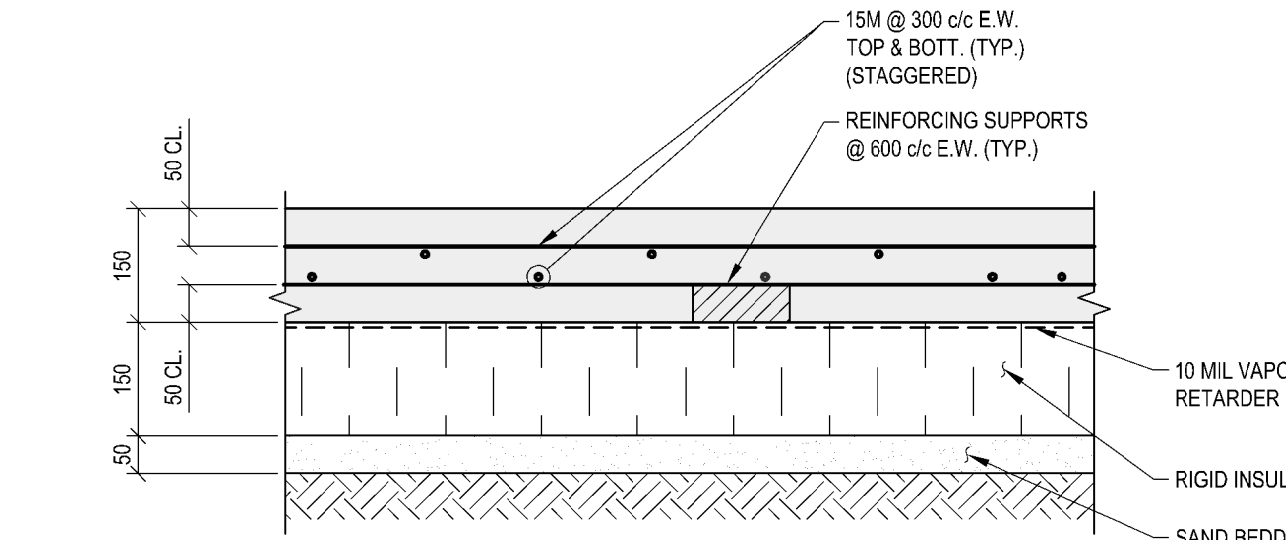
ROOF FRAMING PLAN
1:50



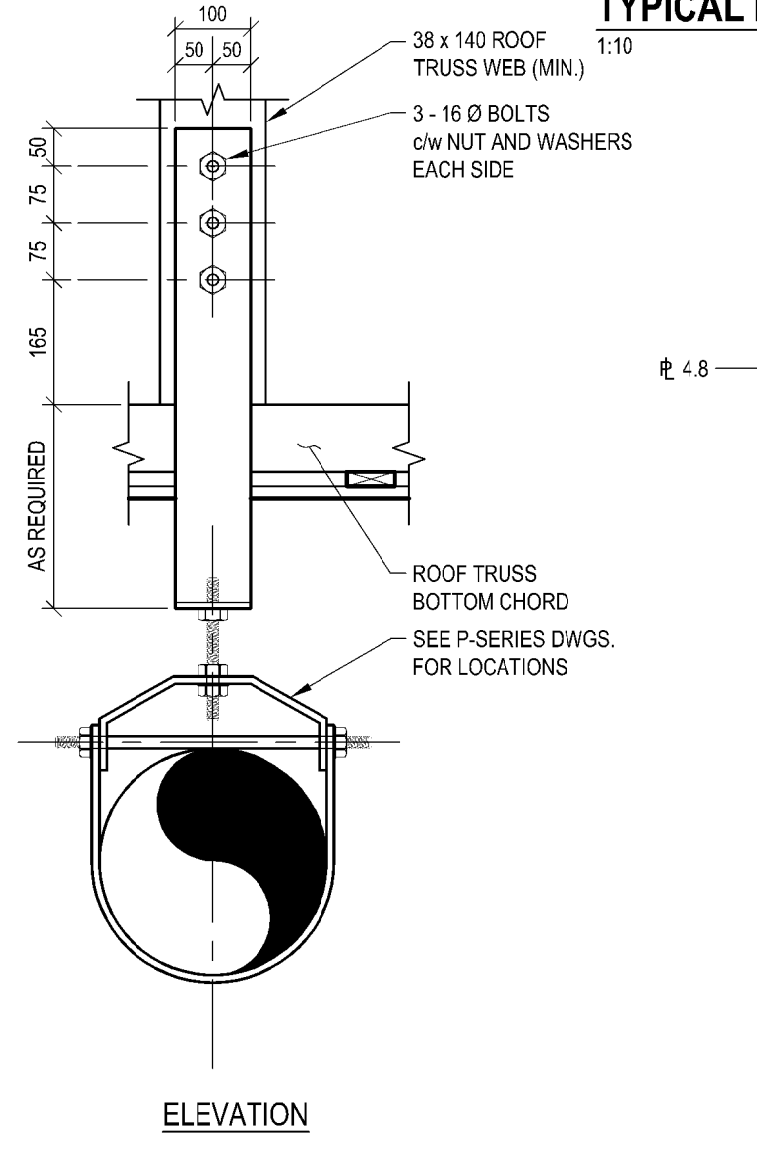
SECTION 'A'
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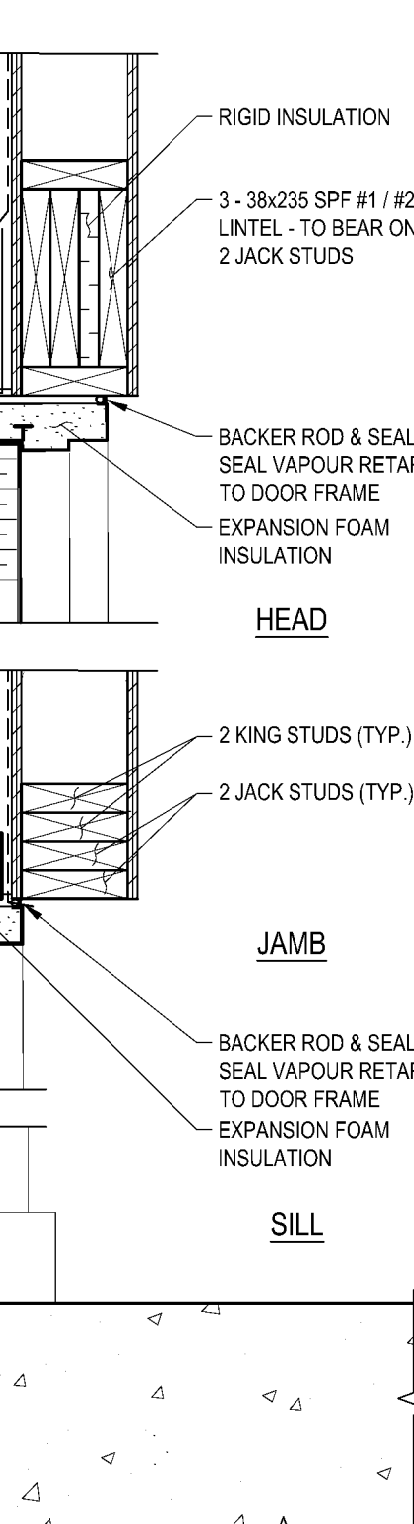
EAST ELEVATION
1:50



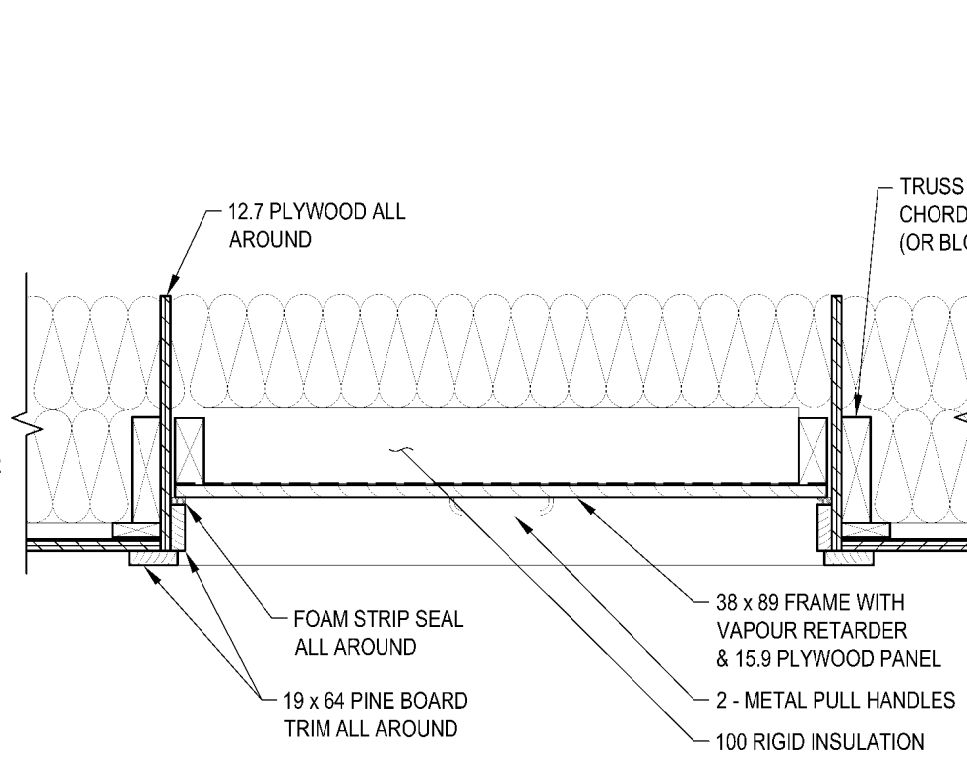
TYPICAL SLAB-ON-GRADE
1:10



TYPICAL PIPE HANGER SUPPORT
1:10



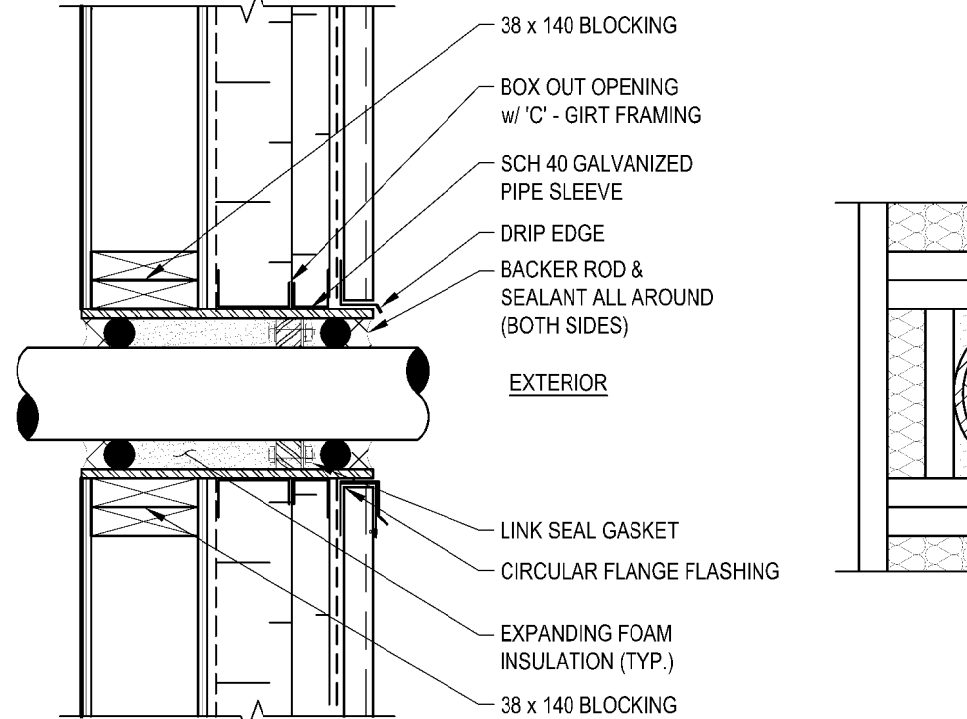
TYPICAL EXTERIOR DOOR DETAIL
1:10



ATTIC ACCESS HATCH DETAIL
1:10



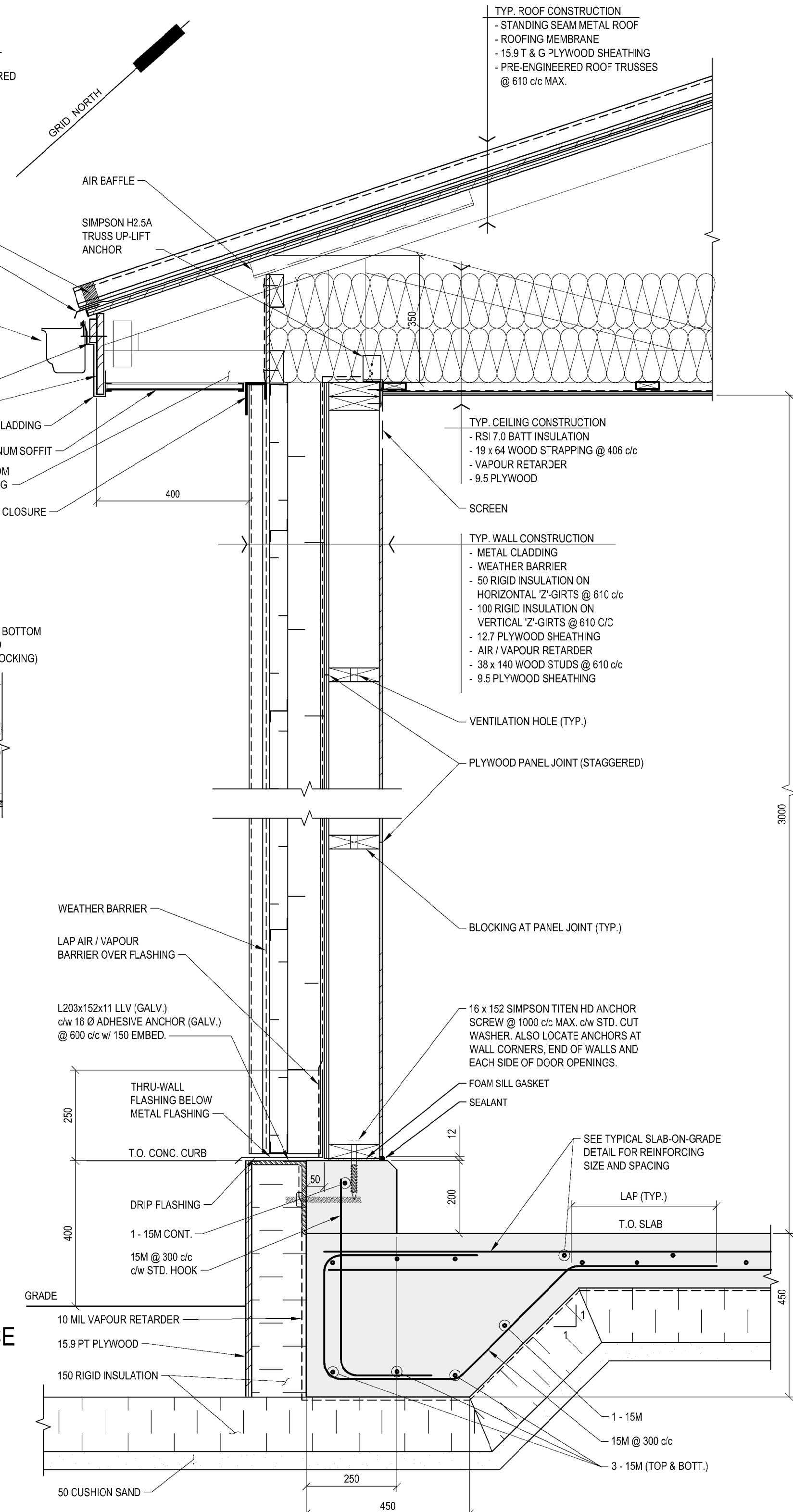
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TYPICAL PIPE PENETRATION DETAIL
1:10

NOTES:

1. SEE DRAWING A-201 FOR GENERAL NOTES AND LEGEND.
2. CONFIRM PIPE HANGER LOADS AND LOCATIONS.



SECTION 'B'
1:10

TYPICAL EXTERIOR STEP DETAIL
1:10

PERMIT OF PRACTICE
EXP SERVICES INC.
Signature *[Signature]*
Date 07/Oct/2020
PERMIT NUMBER: P483
NT/NU Association of Professional
Engineers and Geoscientists

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No.	Revision	Date

RECORD DRAWING



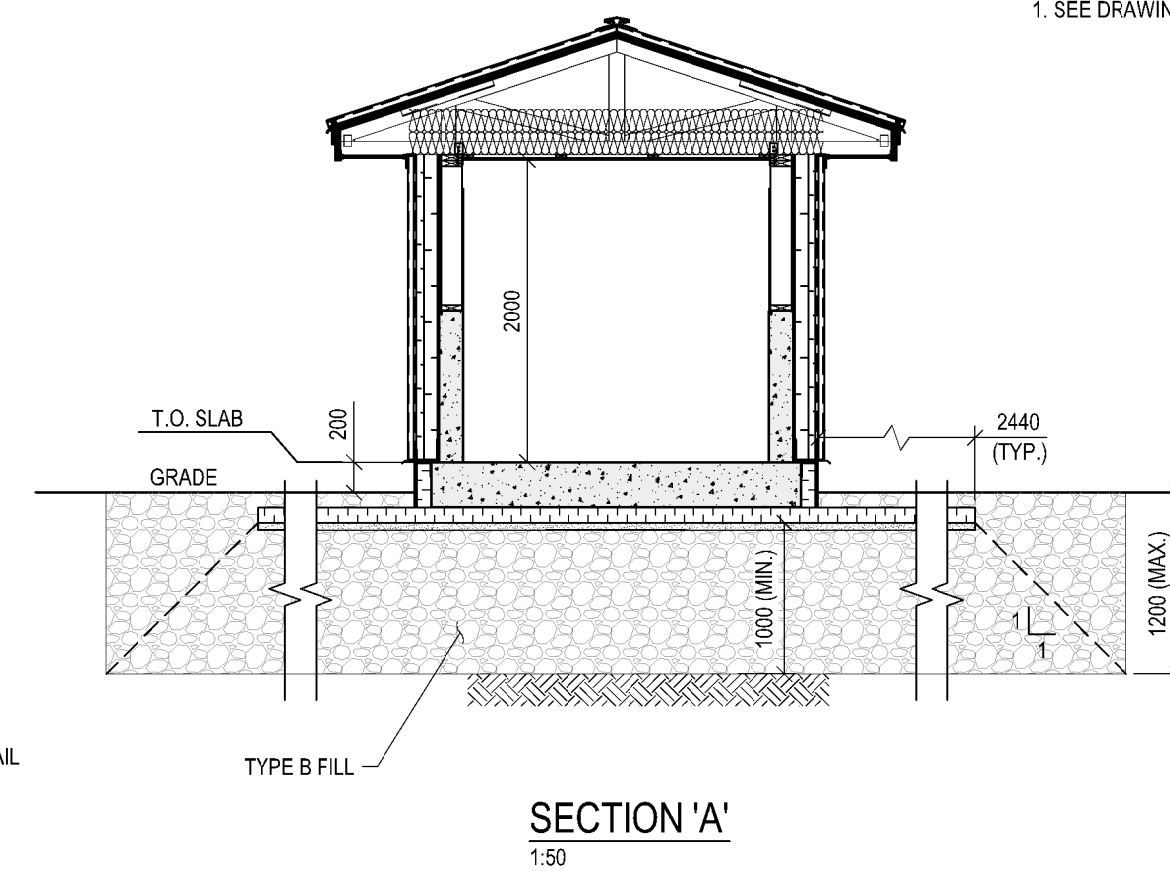
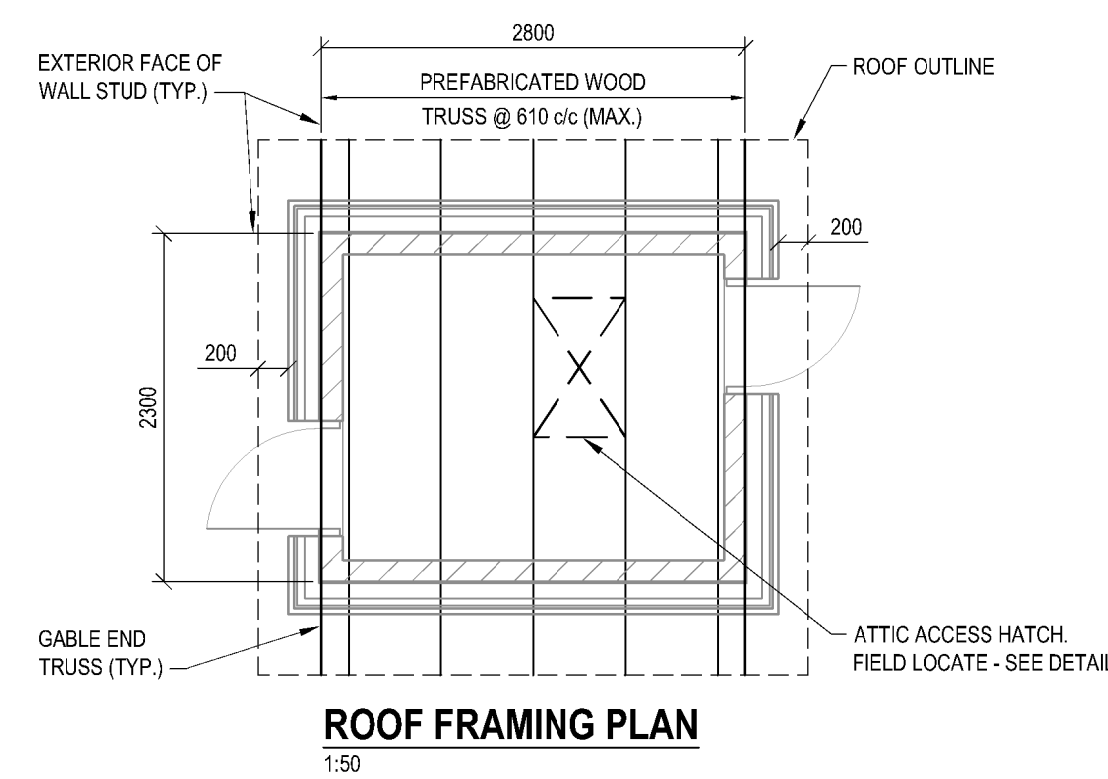
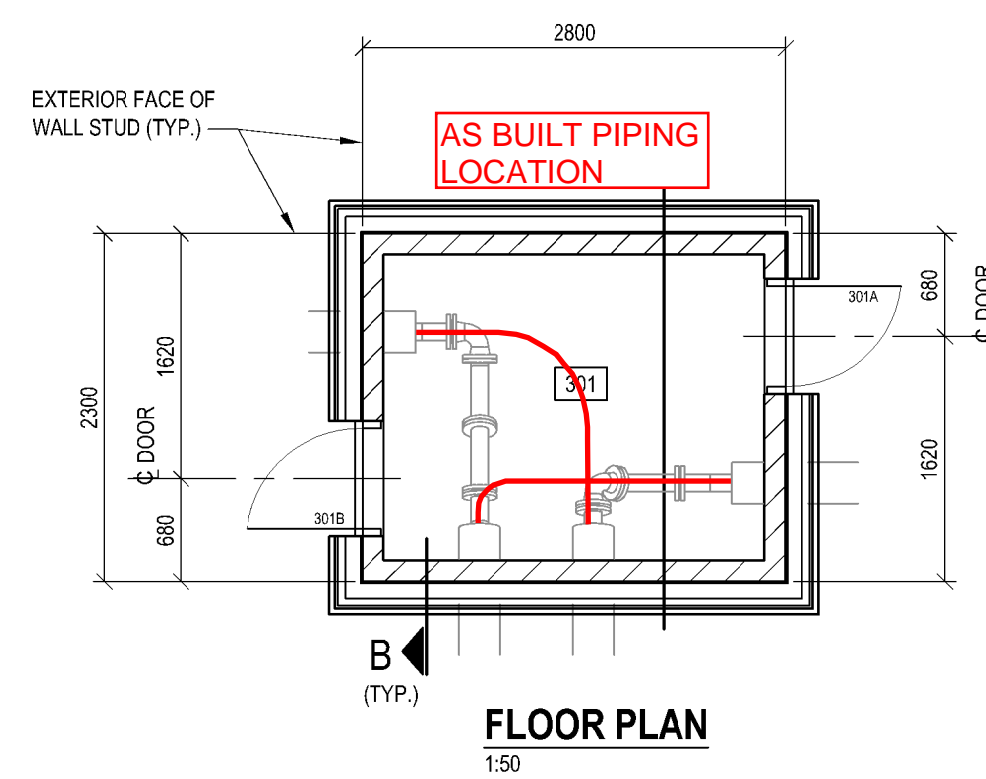
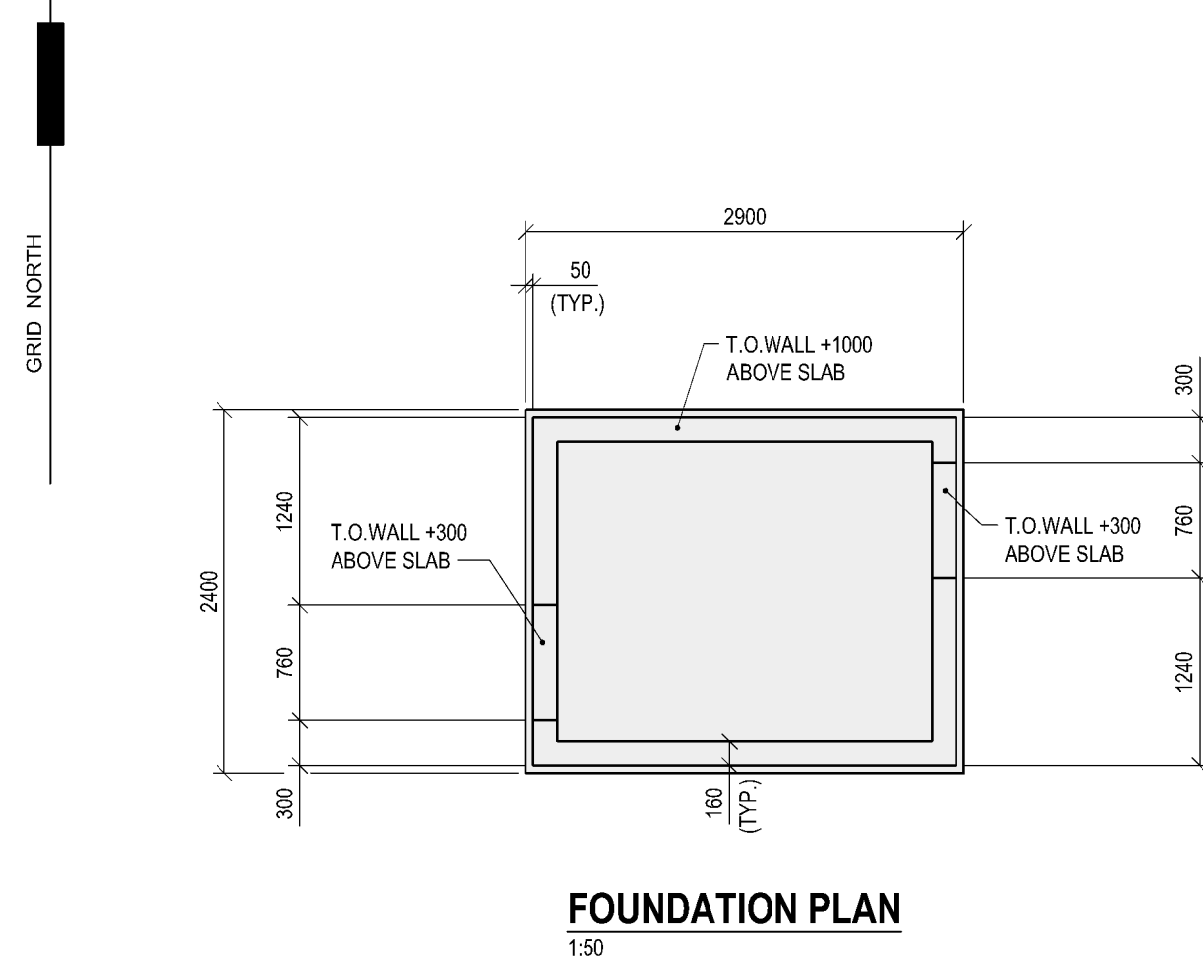
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Dwg Standards Ckd By:	<i>[Signature]</i>
Designed By:	MJM
Design Checked By:	<i>[Signature]</i>
Scale:	AS SHOWN

WATER TREATMENT
FACILITY AND
RAW WATER STORAGE
ARIAT, NU

Dwg. Title
AS BUILT DRAWINGS: THIS
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SHOW PUMPHOUSE 2 WORK AS
INSTALLED
Tower Arctic Ltd. - 5/12/2020

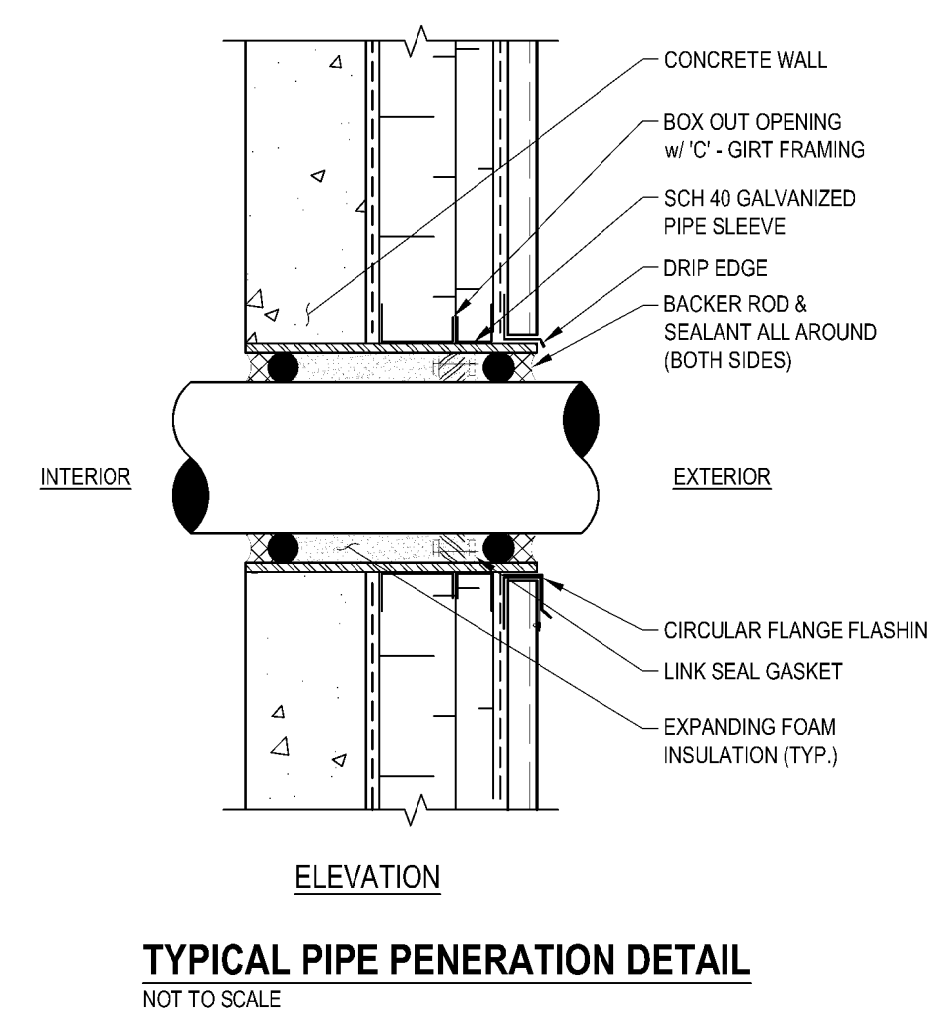
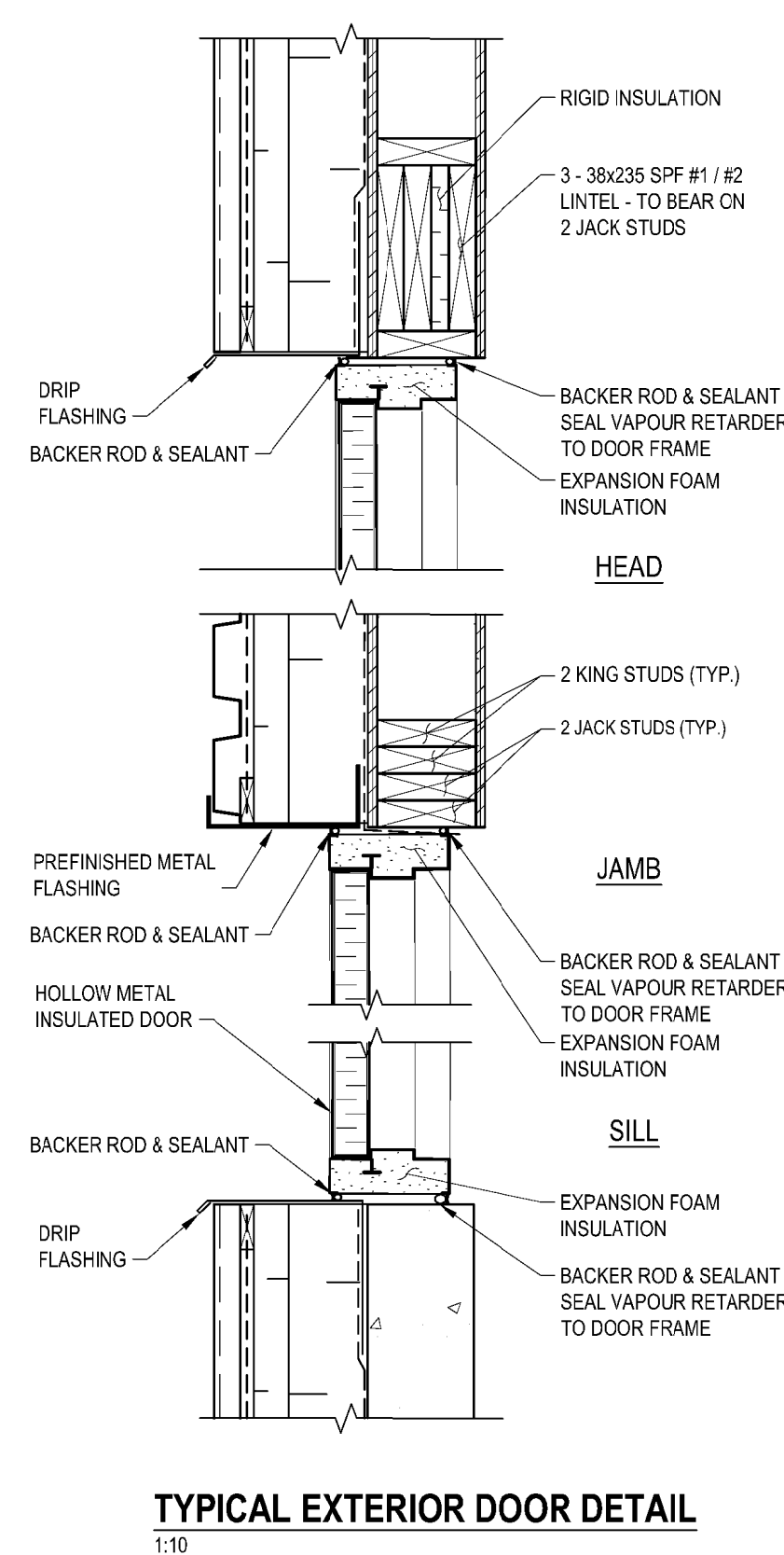
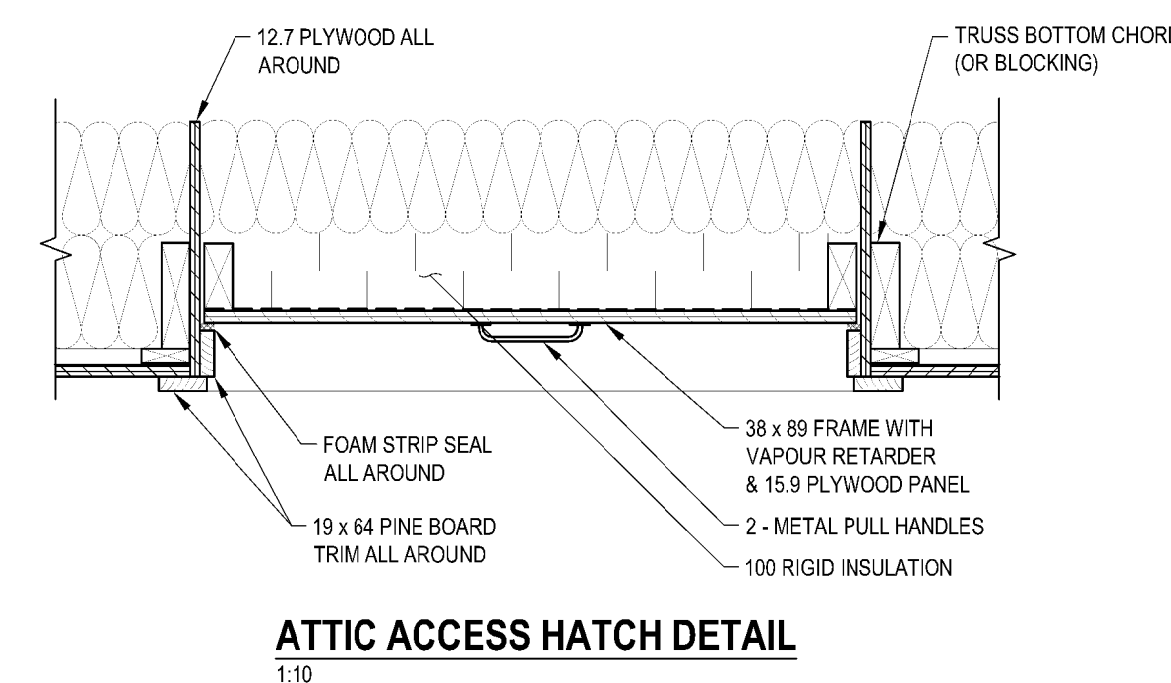
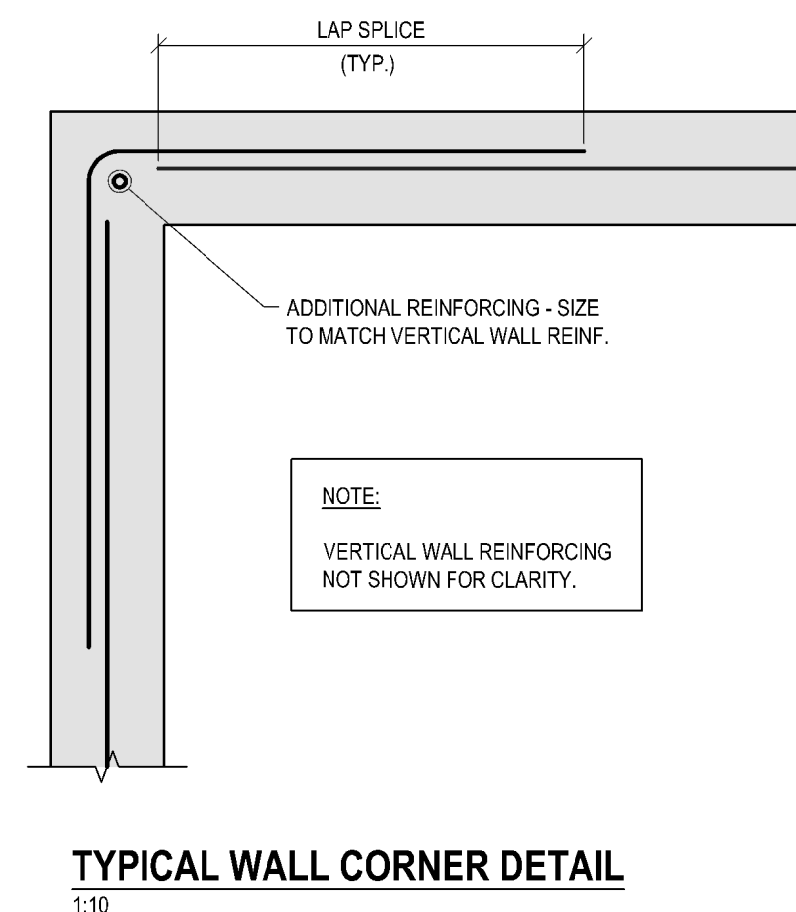
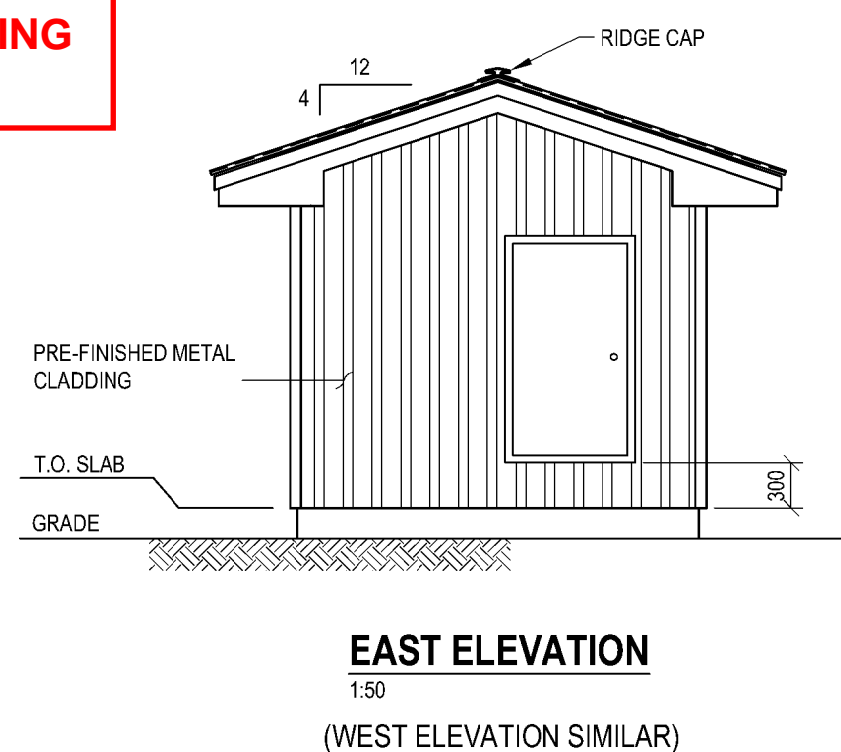
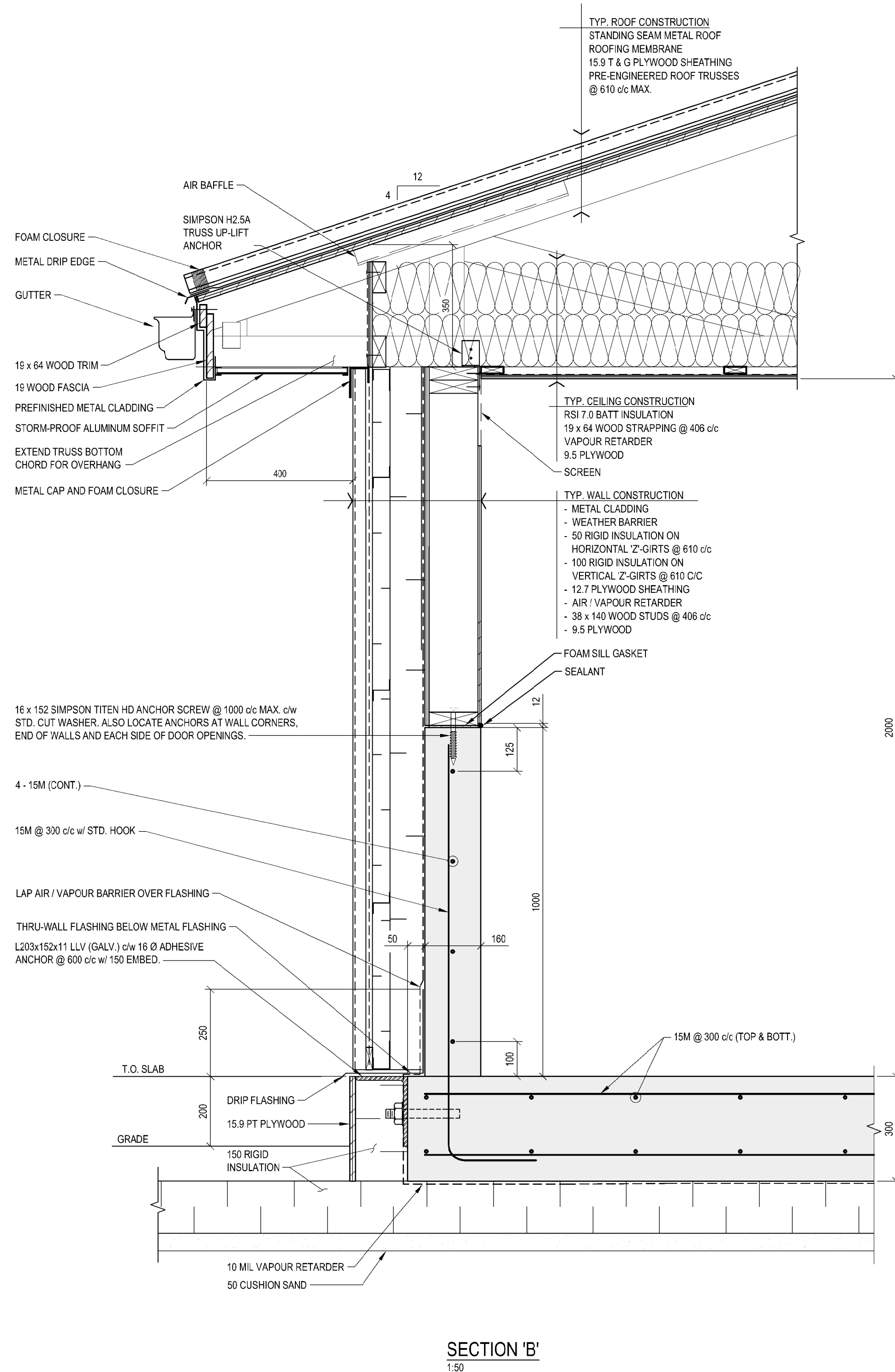
Project No. OTT-00236239-A0

Dwg. No. A-206
Rev. No. 1



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1. SEE DRAWING A-201 FOR GENERAL NOTES AND LEGEND.



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Date 07/Oct/2020
PERMIT NUMBER: P483
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	TOWER ARCTIC LTD., AS BUILTS	2020.MAY
1	RELEASED FOR CONSTRUCTION	2017.AUG.3
No.	Revision	Date

RECORD DRAWING

Professional Seal(s)



Drawn By:	ECM
Dwg Standards Ckd By:	
Designed By:	MJM
Design Checked By:	
Scale:	AS SHOWN

Project Title

WATER TREATMENT
FACILITY AND
RAW WATER STORAGE
ARVIAT, NU

Dwg. Title

AS BUILT DRAWINGS: THIS
DRAWING HAS BEEN REVISED TO
SHOW PIPING TRANSITION
STRUCTURE WORK AS INSTALLED
Tower Arctic Ltd. - 5/12/2020

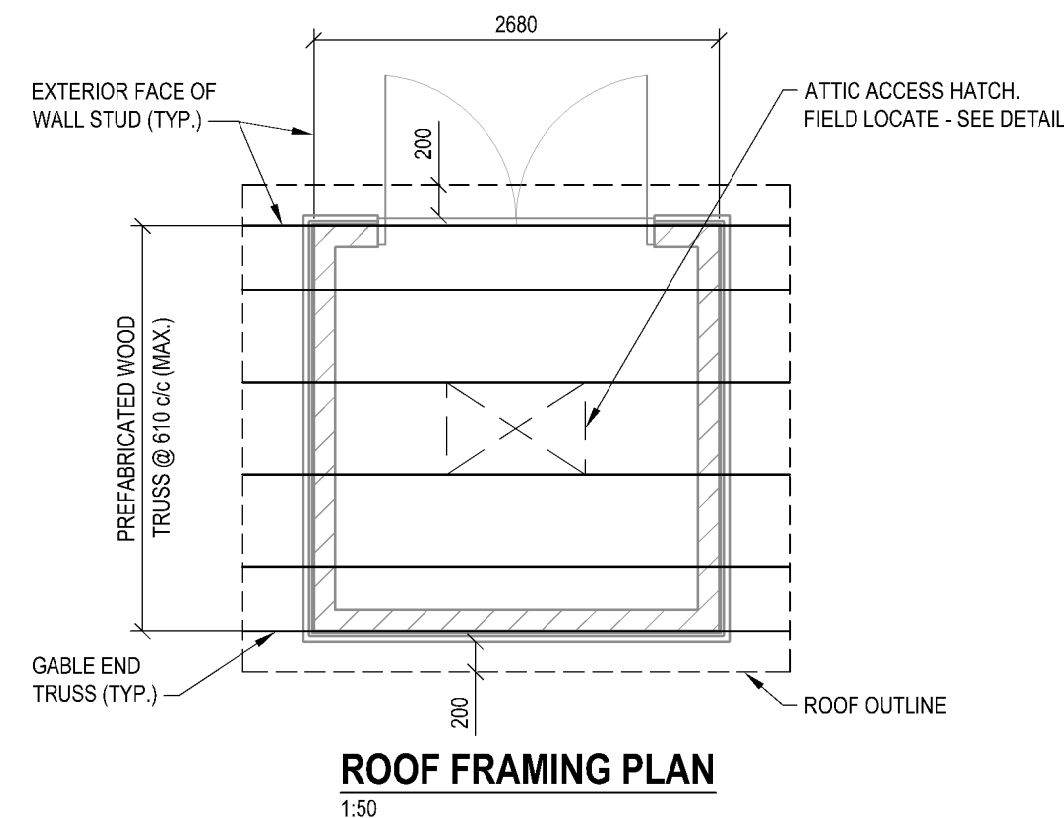
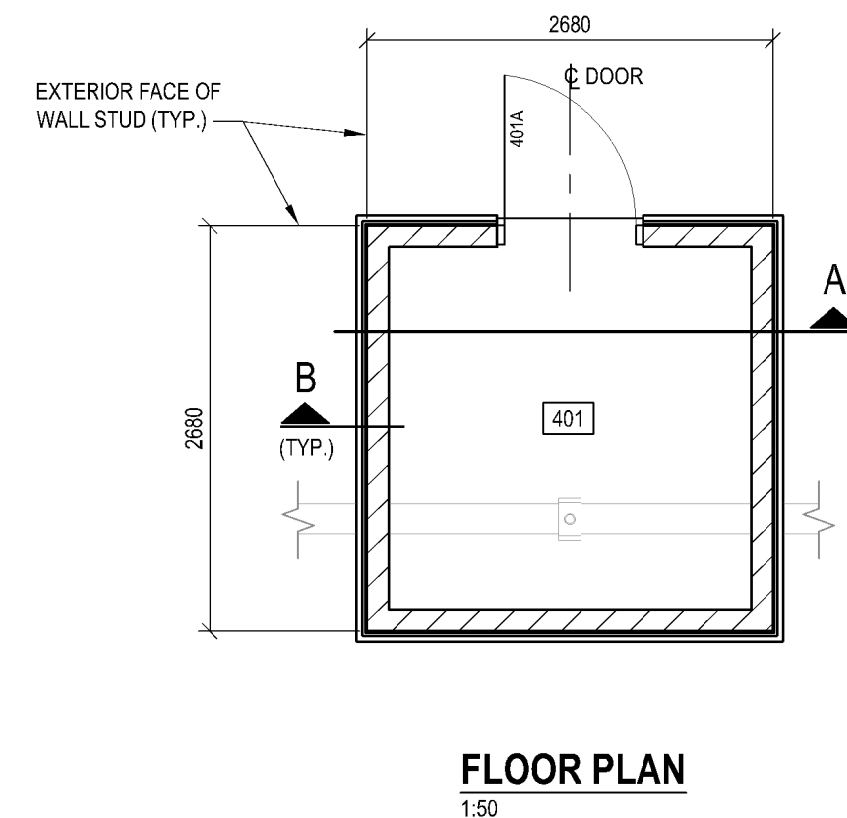
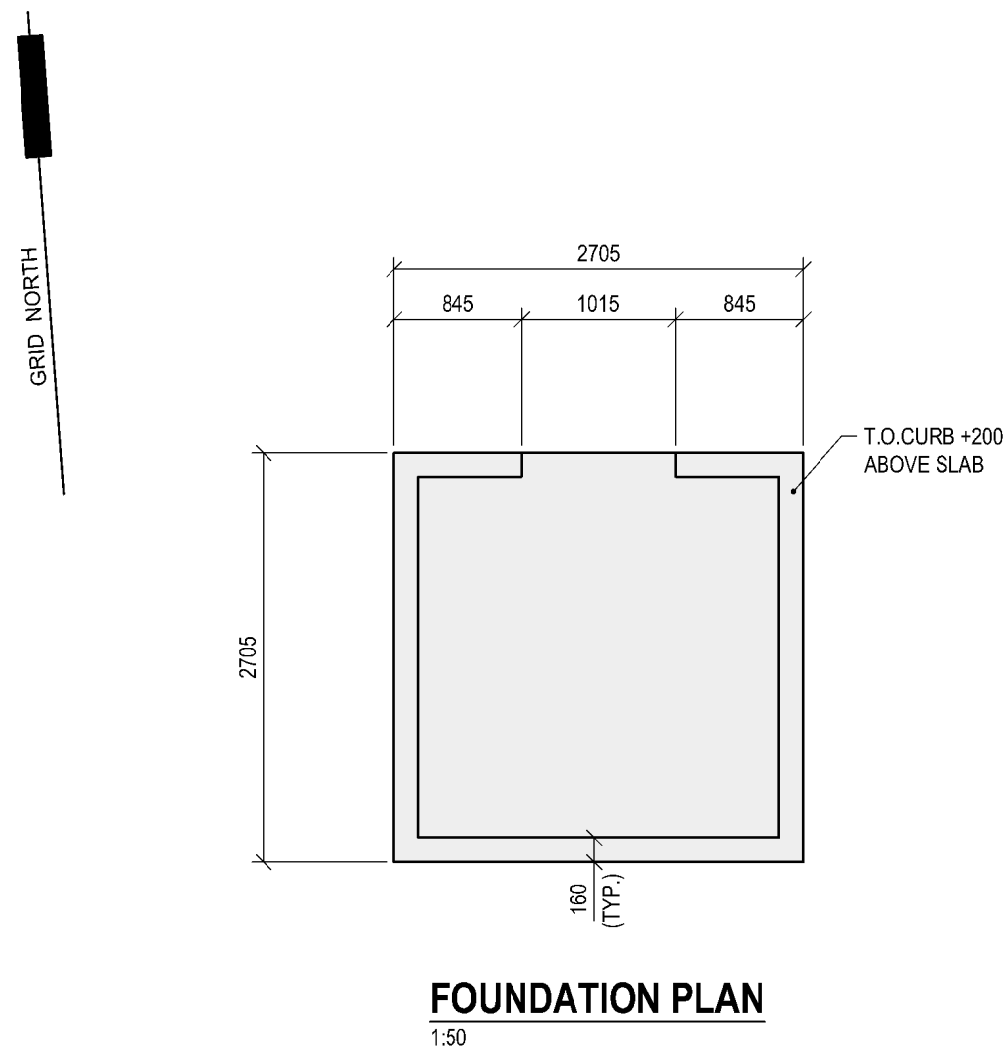
Project No.

OTT-00236239-A0

Dwg. No.

A-207

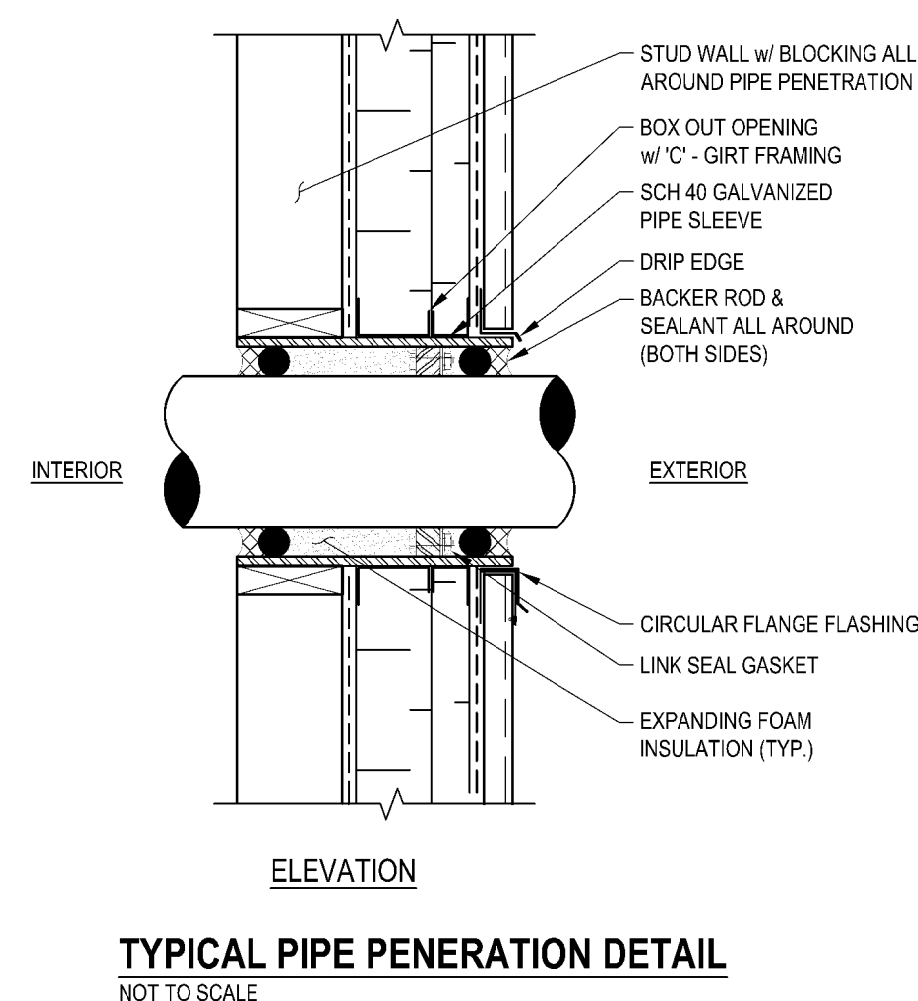
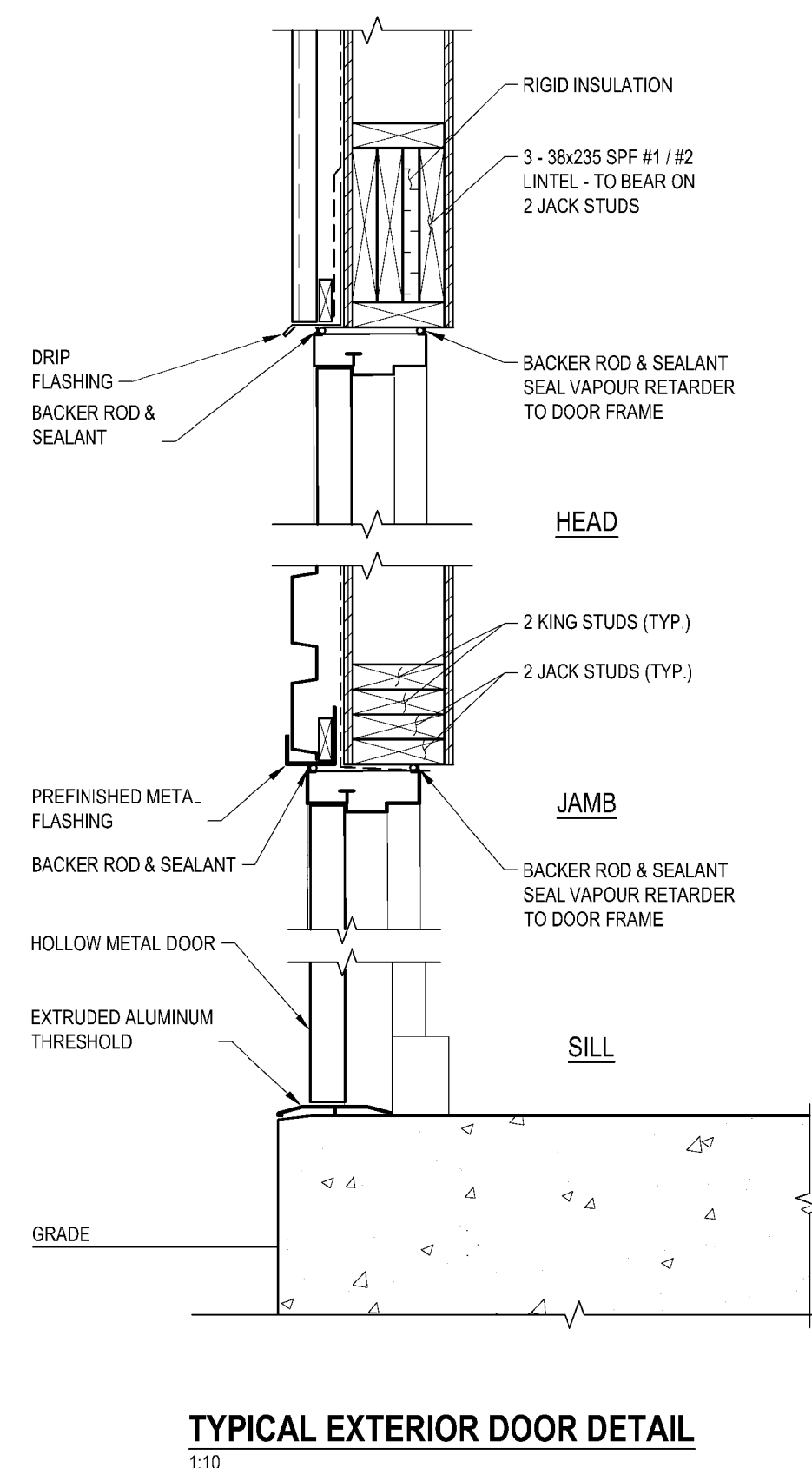
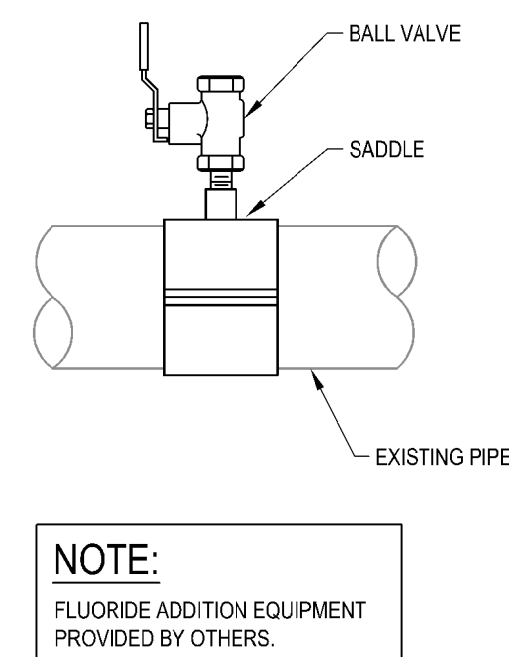
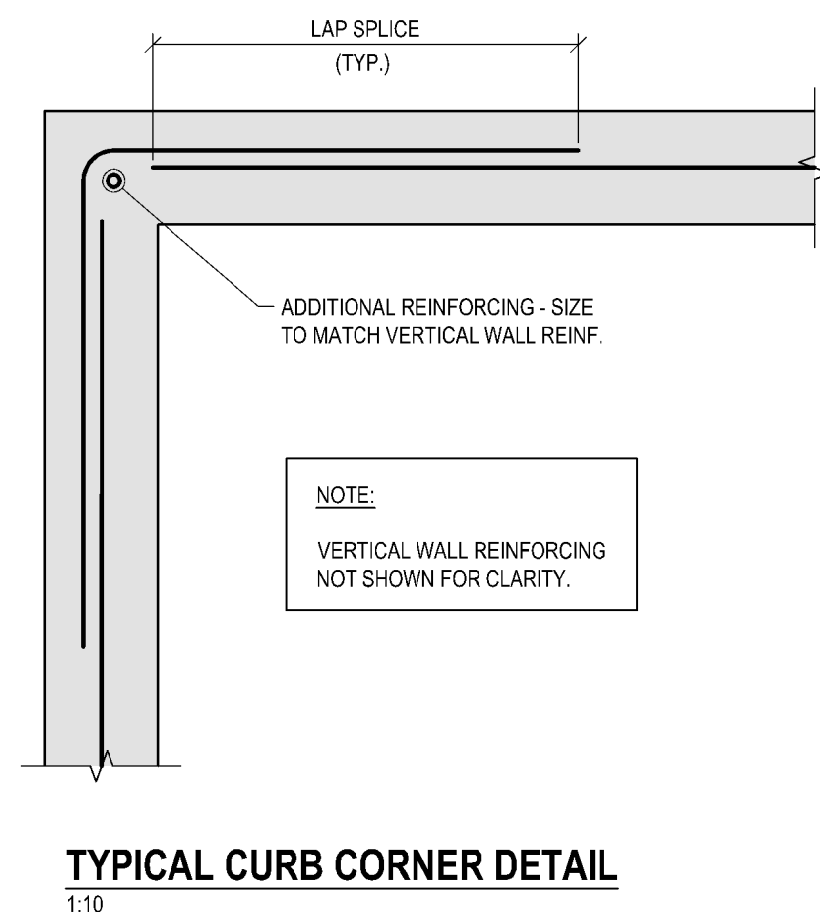
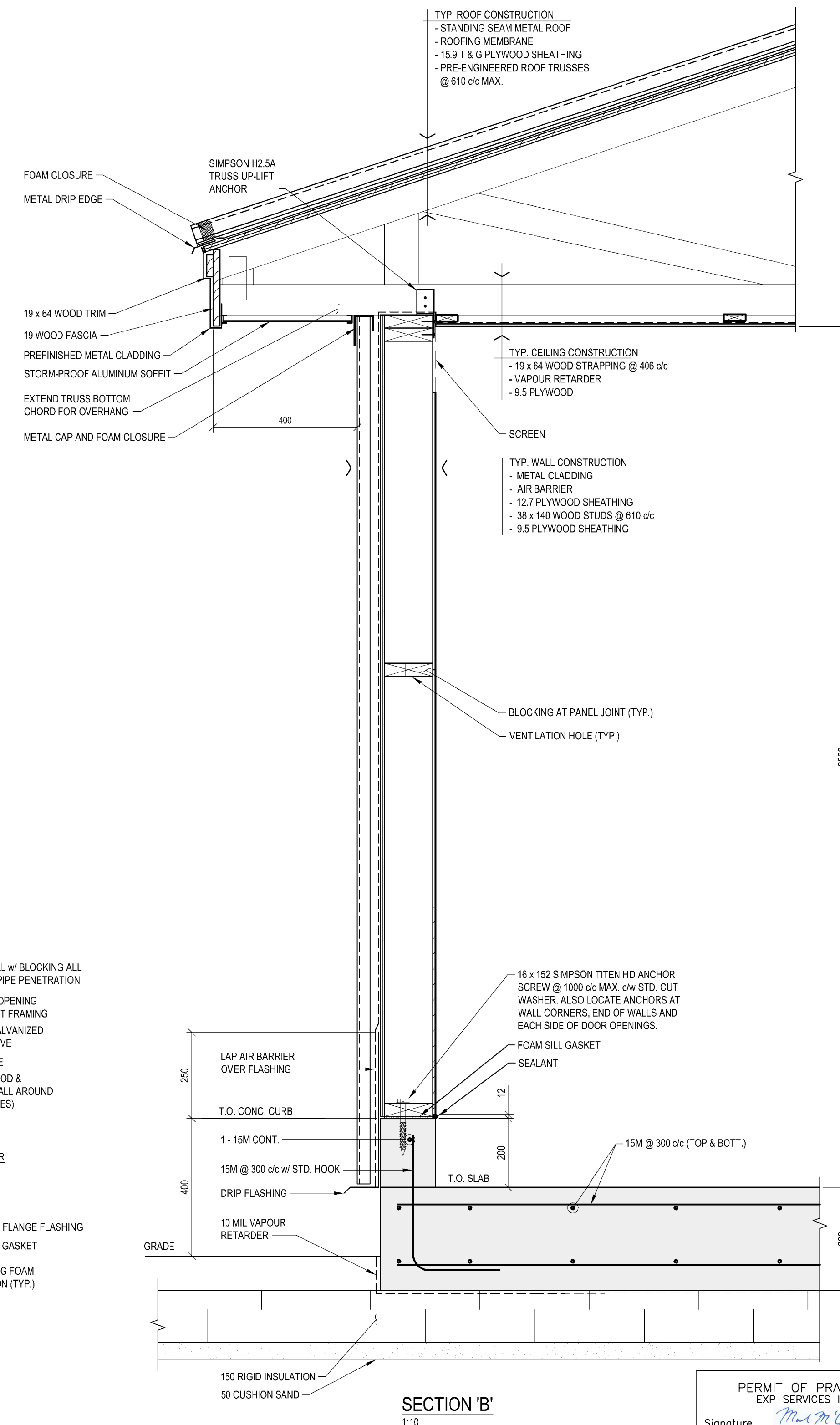
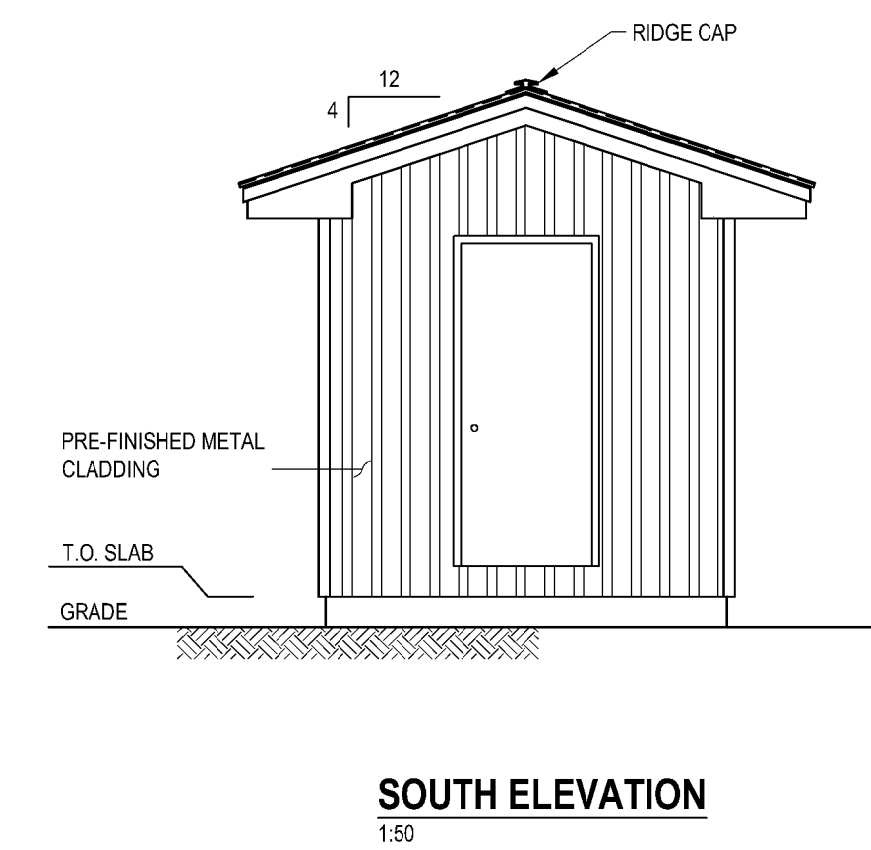
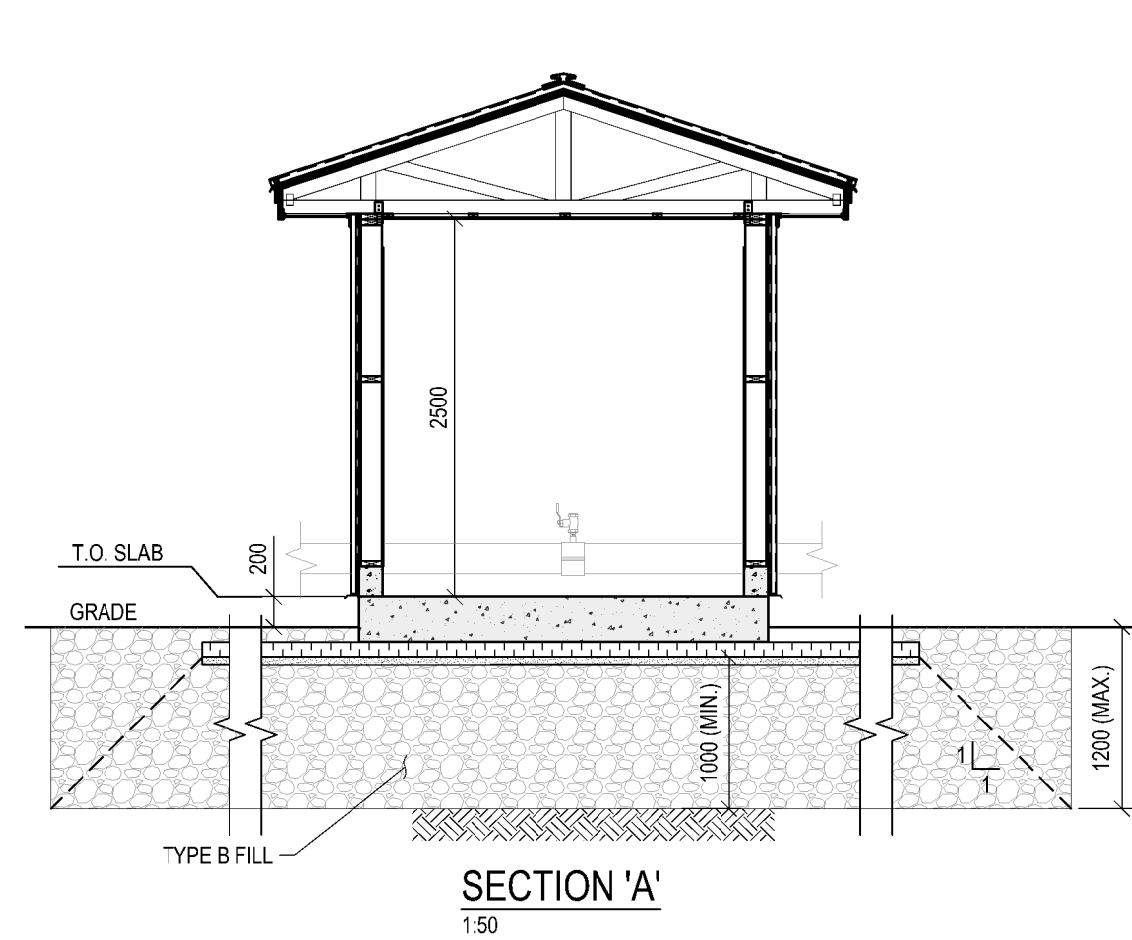
Rev. No.



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NOTE:

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1	TOWER ARCTIC LTD. AS BUILTS RELEASED FOR CONSTRUCTION	2020.MAY.12 2017.AUG.30
No.	Revision	Date

RECORD DRAWING

Professional Seal(s)



Drawn By:	ECM
Dwg Standards Ckd By:	
Designed By:	MJM
Design Checked By:	
Scale:	AS SHOWN

Project Title

WATER TREATMENT
FACILITY AND
RAW WATER STORAGE
ARVIAT, NU

Dwg. Title

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SHOW SEASONAL CONDITIONING
BUILDING WORK AS INSTALLED
Tower Arctic Ltd. 5/12/2020

Project No.

OTT-00236239-A0

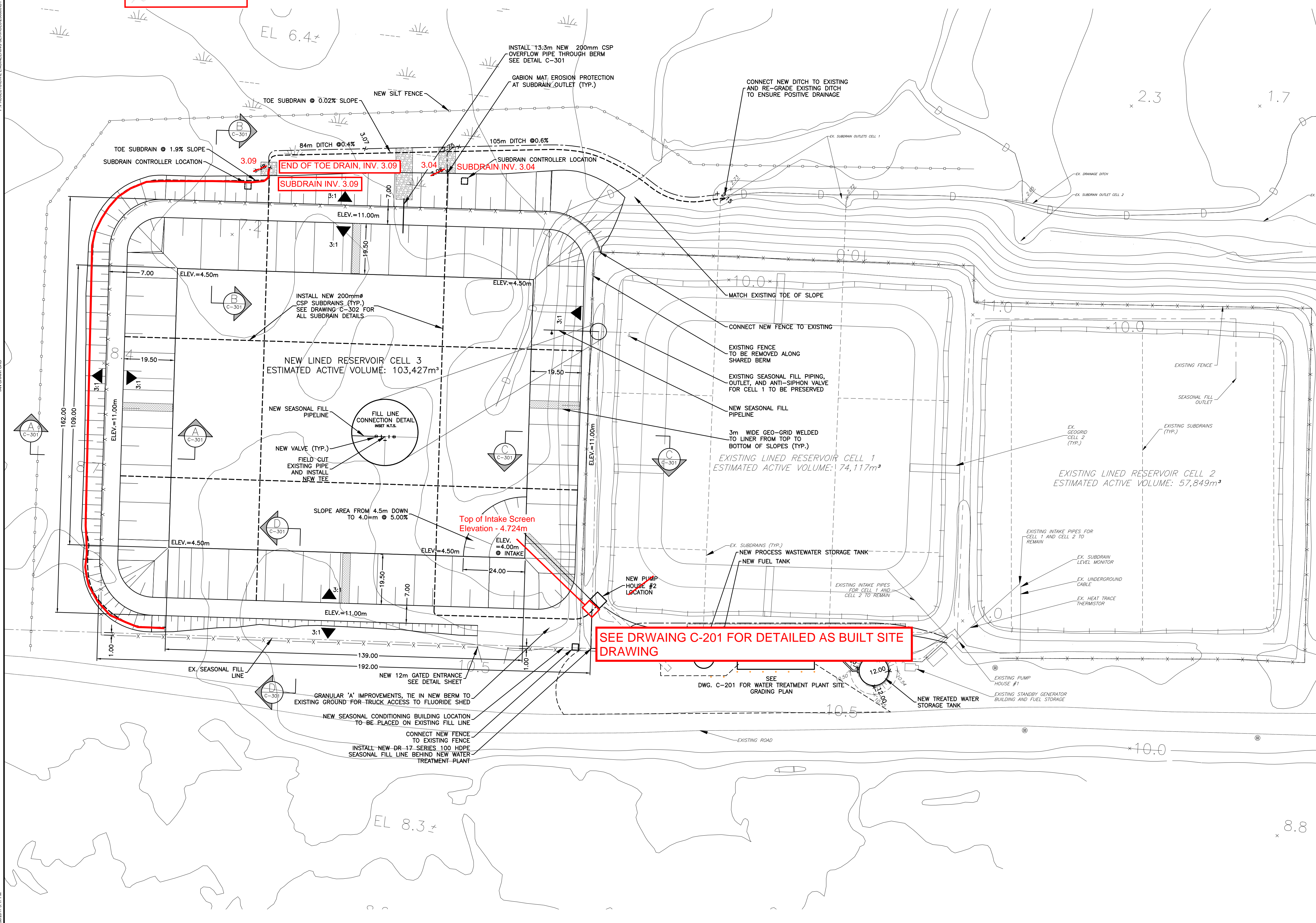
Dwg. No.

A-208

Rev. No.



RECORD DRAWING
2020-5-12



GENERAL NOTES

1. THE PREPARED FOOTPRINT OF THE NEW CELL NO. 3 TO EXTEND AT LEAST 2m BEYOND THE TOE OF THE NEW SLOPES.
2. THE EXPANDED FOOTPRINT SHOULD BE STRIPPED OF ANY EXISTING SURFICIAL ORGANIC/PEAT LAYER AND/OR ANY OTHER SOFT SATURATED MATERIALS ENCOUNTERED AS PER THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.

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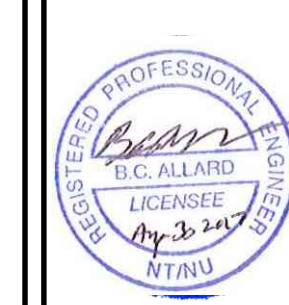
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1	RELEASED FOR CONSTRUCTION	2017.AUG.3.
No.	Revision	Date

RECORD DRAWING

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EXP SERVICES INC.

Signature *[Signature]*

Date Aug 30 2017

PERMIT NUMBER: P483
NT/NU Association of Professional
Engineers and Geoscientists

Drawn By: IPC

Dwg Standards Ckd By: STWD

Designed By:	SLB
--------------	-----

Design Checked By: EAC

Scale: 1:750

Project Title	
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Project Title

WATER TREATMENT
FACILITY AND
RAW WATER STORAGE
ARVIAT, NU

Dwg. Title

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SHOW SITE WORK AS INSTALLED
Tower Arctic Ltd. - 5/12/2020

Project No.	OTT-00236239-A0
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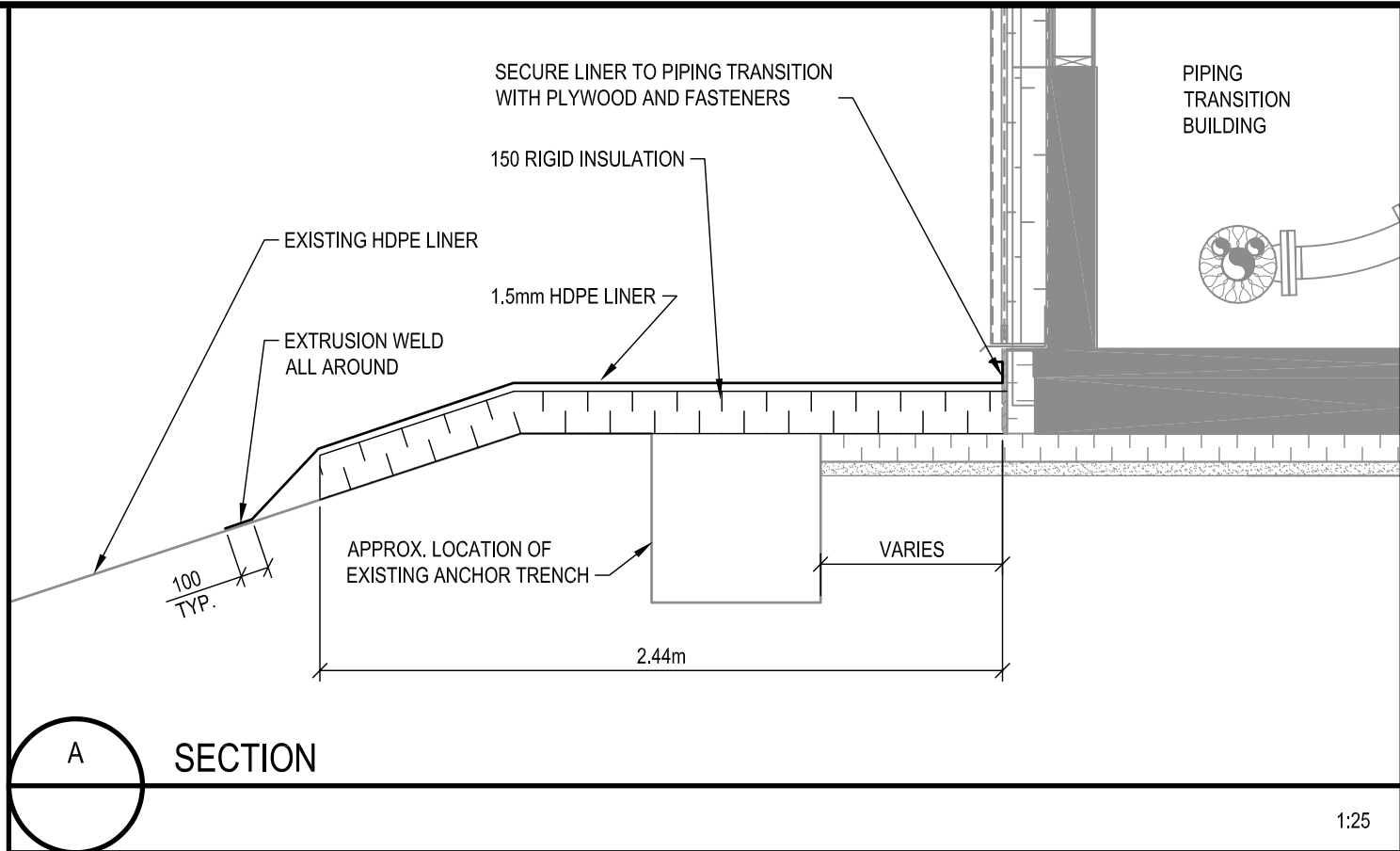
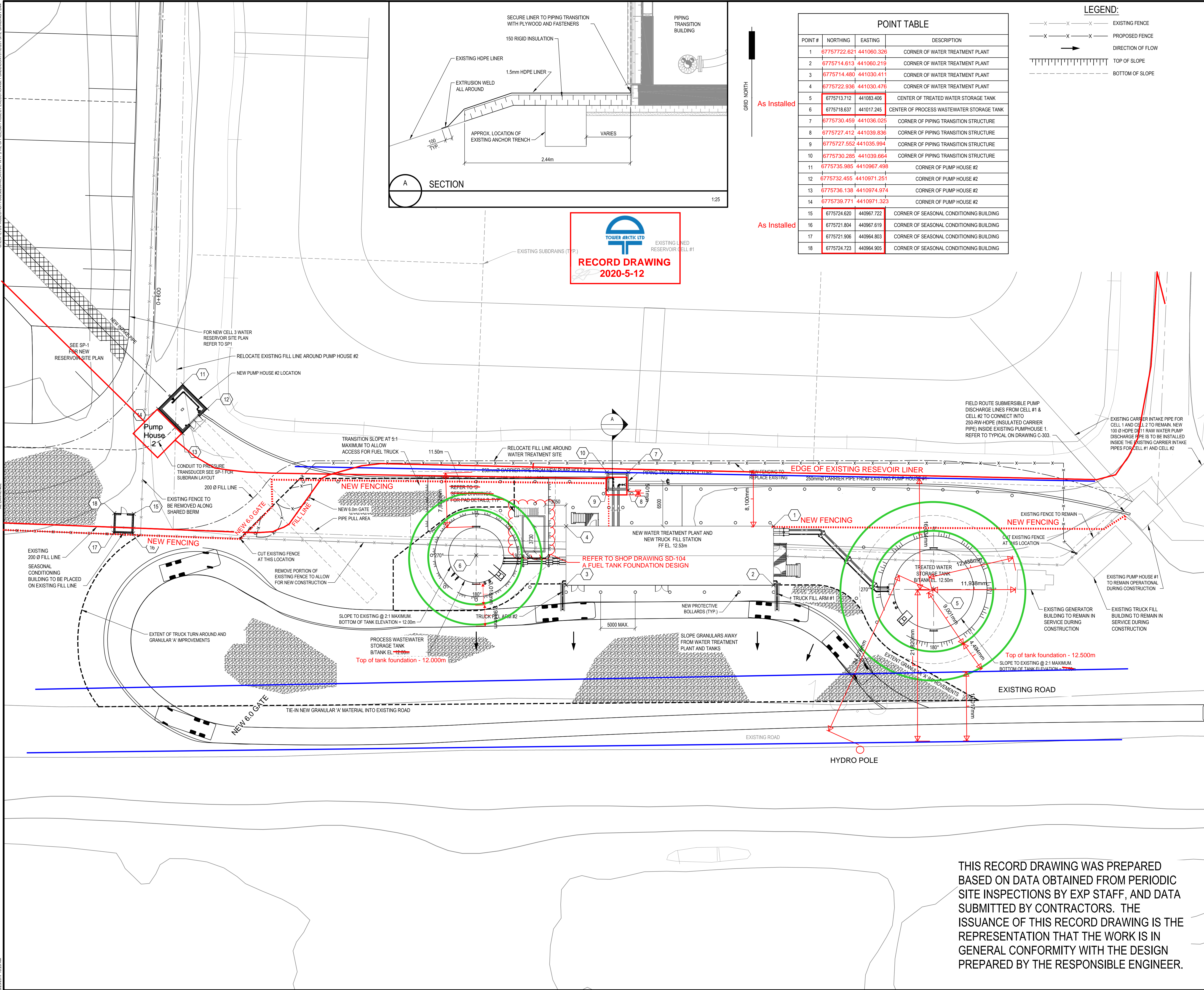
Dwg. No. **C-103**

Rev. No.	
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02/20/2017 10:28 AM

ALLIANCE

02/20/2017 10:28 AM



TOWER ARCTIC LTD.
RECORD DRAWING
2020-5-12

GRID NORTH
As Installed

POINT TABLE			
POINT #	NORTHING	EASTING	DESCRIPTION
1	67757722.621	441060.326	CORNER OF WATER TREATMENT PLANT
2	6775714.613	441060.219	CORNER OF WATER TREATMENT PLANT
3	6775714.480	441030.411	CORNER OF WATER TREATMENT PLANT
4	6775722.936	441030.476	CORNER OF WATER TREATMENT PLANT
5	6775713.712	441083.406	CENTER OF TREATED WATER STORAGE TANK
6	6775718.637	441017.245	CENTER OF PROCESS WASTEWATER STORAGE TANK
7	6775730.459	441036.025	CORNER OF PIPING TRANSITION STRUCTURE
8	6775727.412	441039.836	CORNER OF PIPING TRANSITION STRUCTURE
9	6775727.552	441035.994	CORNER OF PIPING TRANSITION STRUCTURE
10	6775730.285	441039.664	CORNER OF PIPING TRANSITION STRUCTURE
11	6775735.985	4410967.498	CORNER OF PUMP HOUSE #2
12	6775732.455	4410971.251	CORNER OF PUMP HOUSE #2
13	6775736.138	4410974.974	CORNER OF PUMP HOUSE #2
14	6775739.771	4410971.323	CORNER OF PUMP HOUSE #2
15	6775724.620	440967.722	CORNER OF SEASONAL CONDITIONING BUILDING
16	6775721.804	440967.619	CORNER OF SEASONAL CONDITIONING BUILDING
17	6775721.906	440964.803	CORNER OF SEASONAL CONDITIONING BUILDING
18	6775724.723	440964.905	CORNER OF SEASONAL CONDITIONING BUILDING

LEGEND:
-X-X-X- EXISTING FENCE
-X-X-X- PROPOSED FENCE
→ DIRECTION OF FLOW
| | | | | TOP OF SLOPE
- - - - - BOTTOM OF SLOPE

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	TOWER ARCTIC LTD. AS BUILT RELEASED FOR CONSTRUCTION	2020.MAY.12 2017.AUG.30
No.	Revision	Date

RECORD DRAWING

Professional Seal(s)

PERMIT OF PRACTICE
EXP SERVICES INC.

Signature: *[Signature]*

Date: *Aug 30 2017*

PERMIT NUMBER: P483
NT/NU Association of Professional
Engineers and Geoscientists

Drawn By: ARL
Dwg Standards Ckd By: PD
Designed By: BCA
Design Checked By: EAB
Scale: 1:250

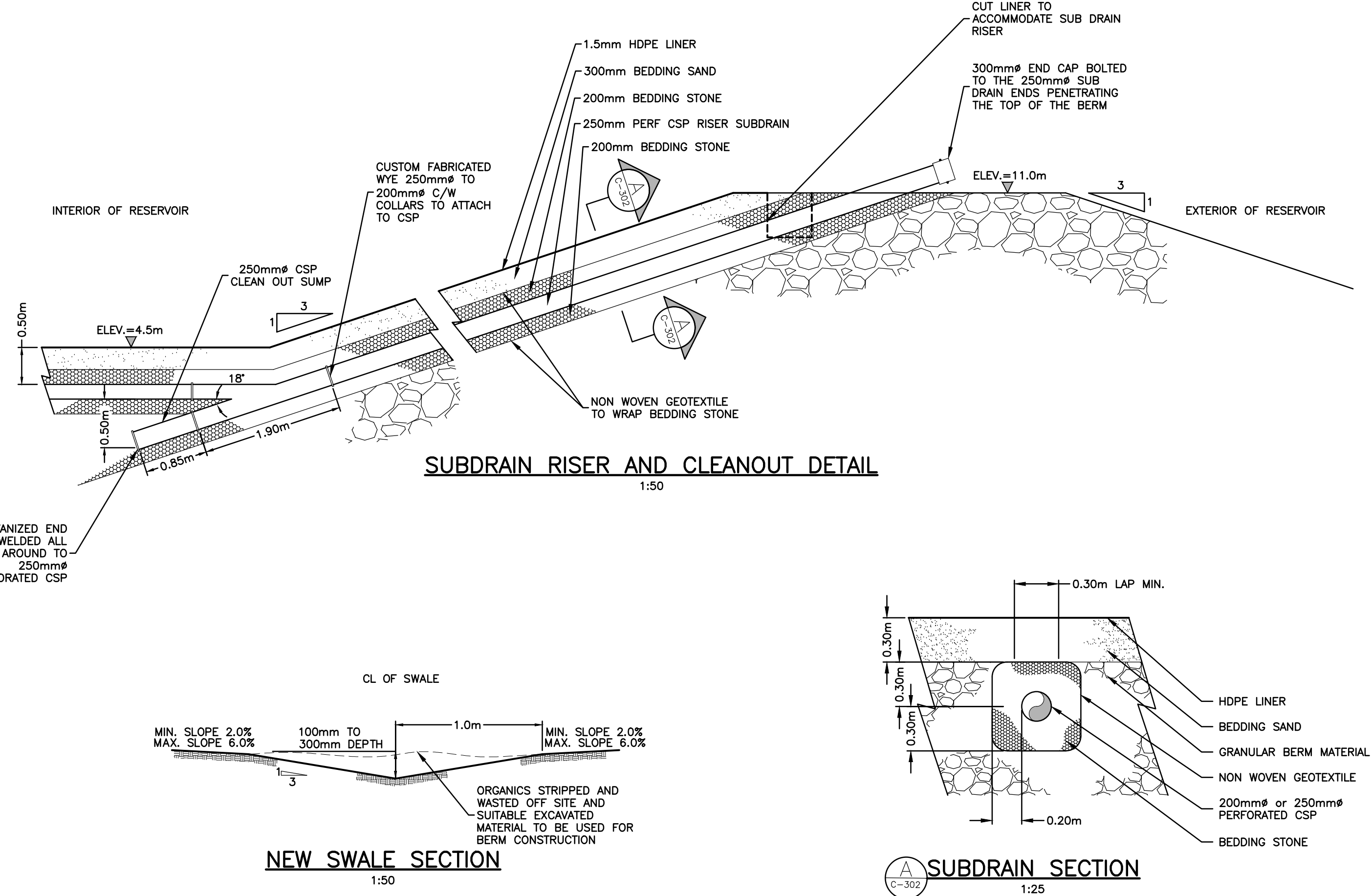
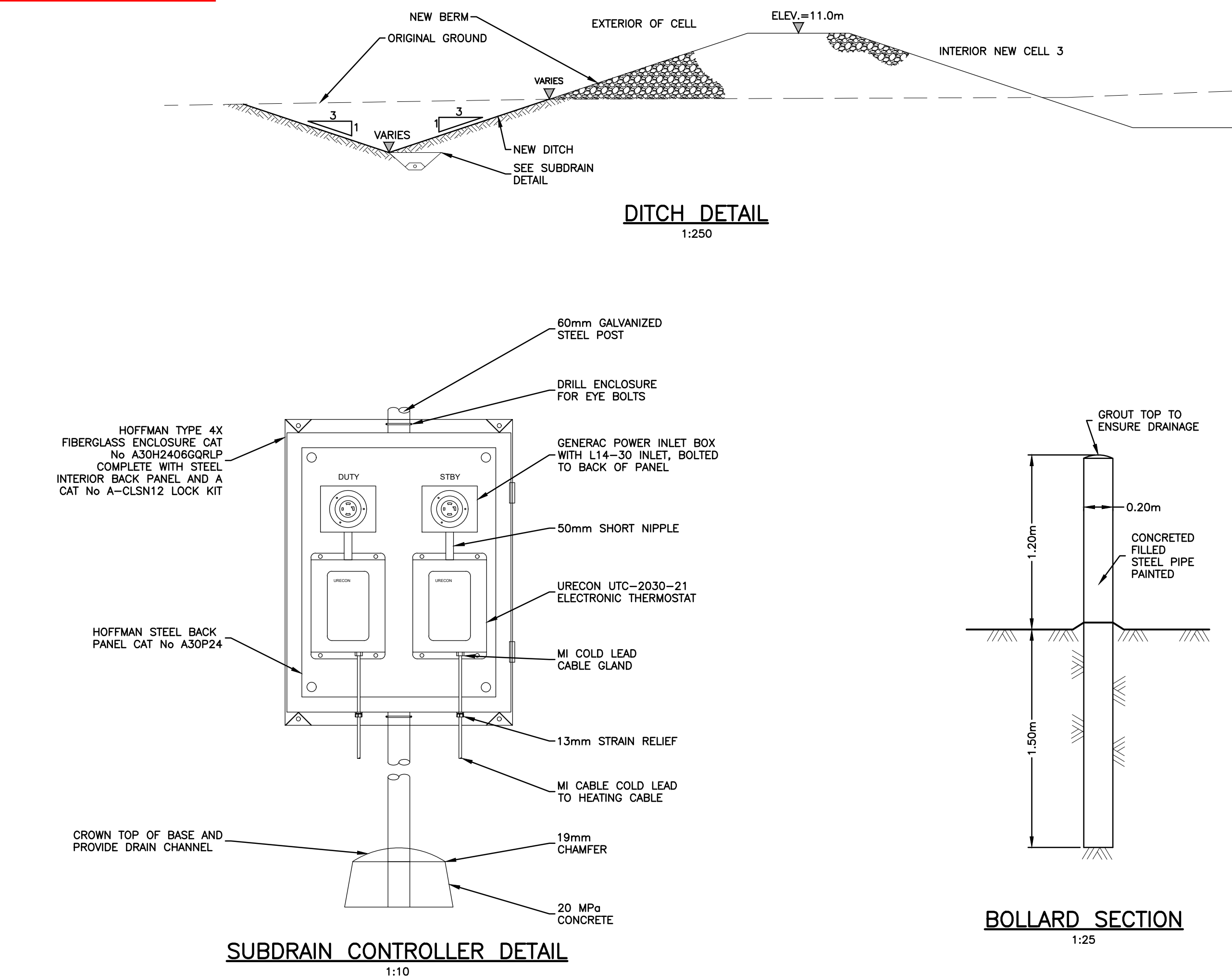
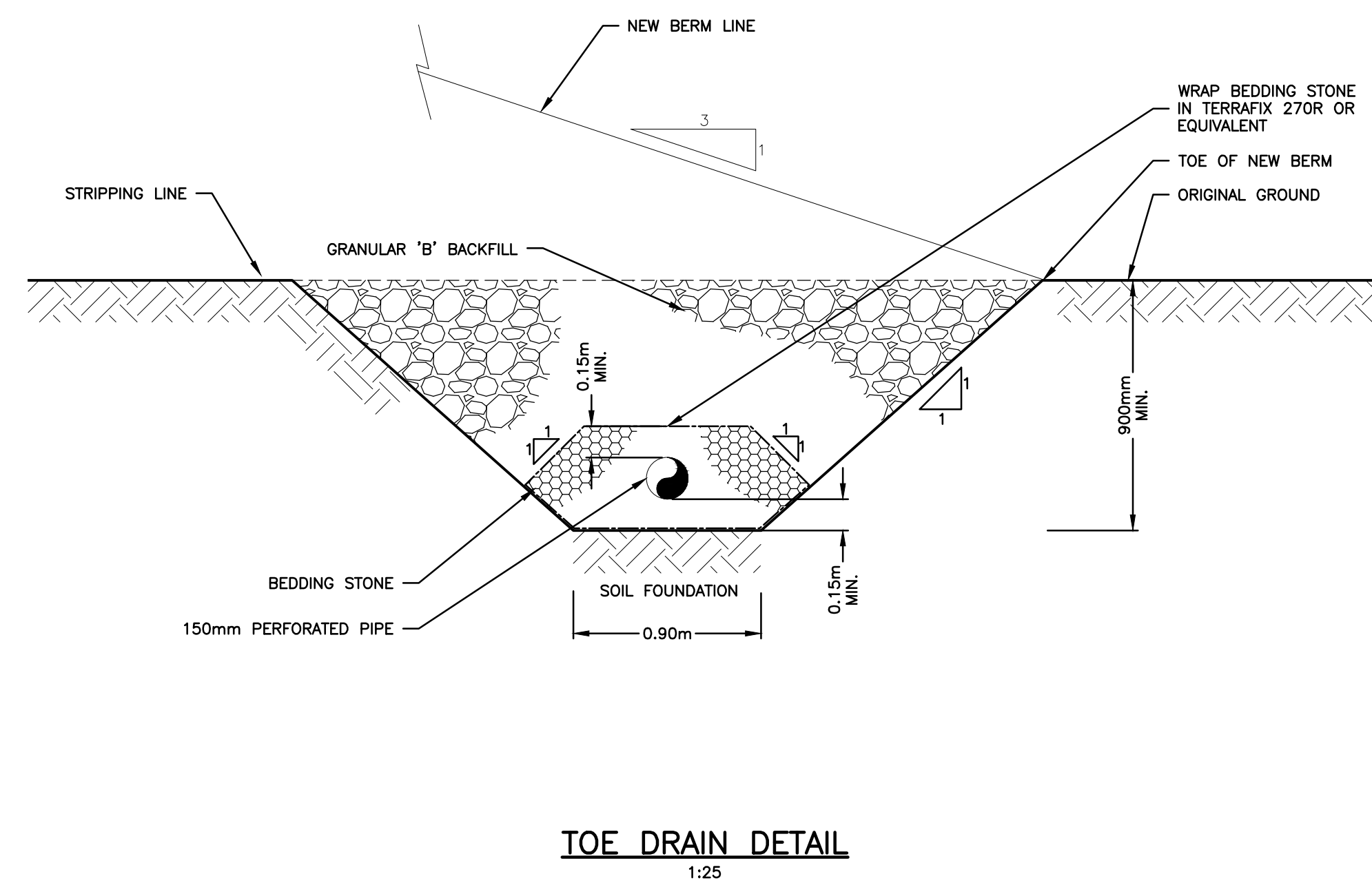
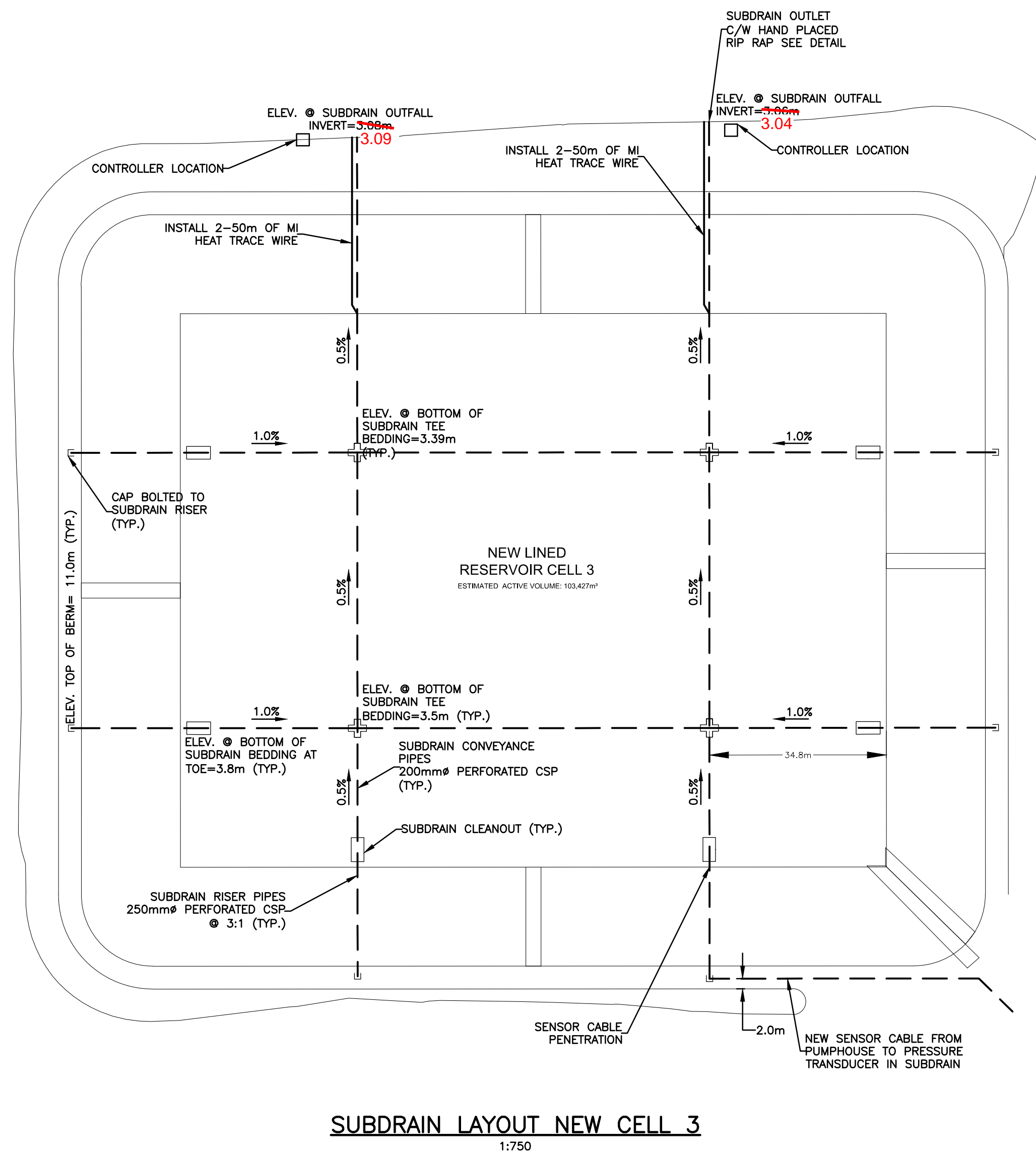
Project Title
**WATER TREATMENT
FACILITY AND
RAW WATER STORAGE
ARVIAT, NU**

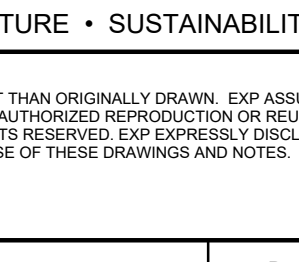



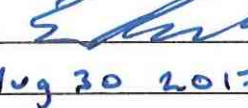
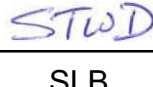
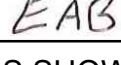
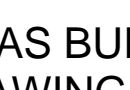
Dwg. Title
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SHOW SITE WORK AS INSTALLED
Tower Arctic Ltd. - 5/12/2020

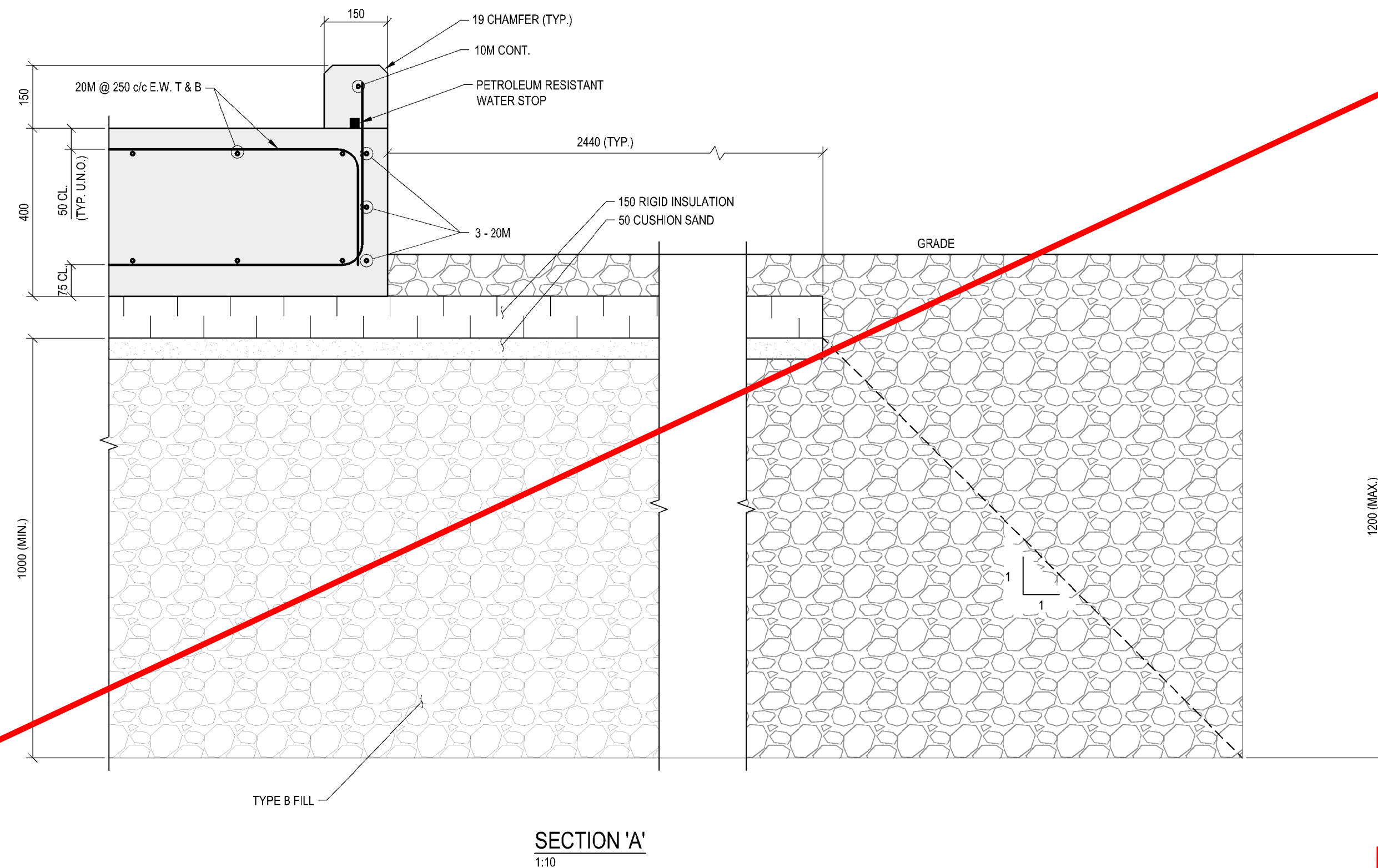
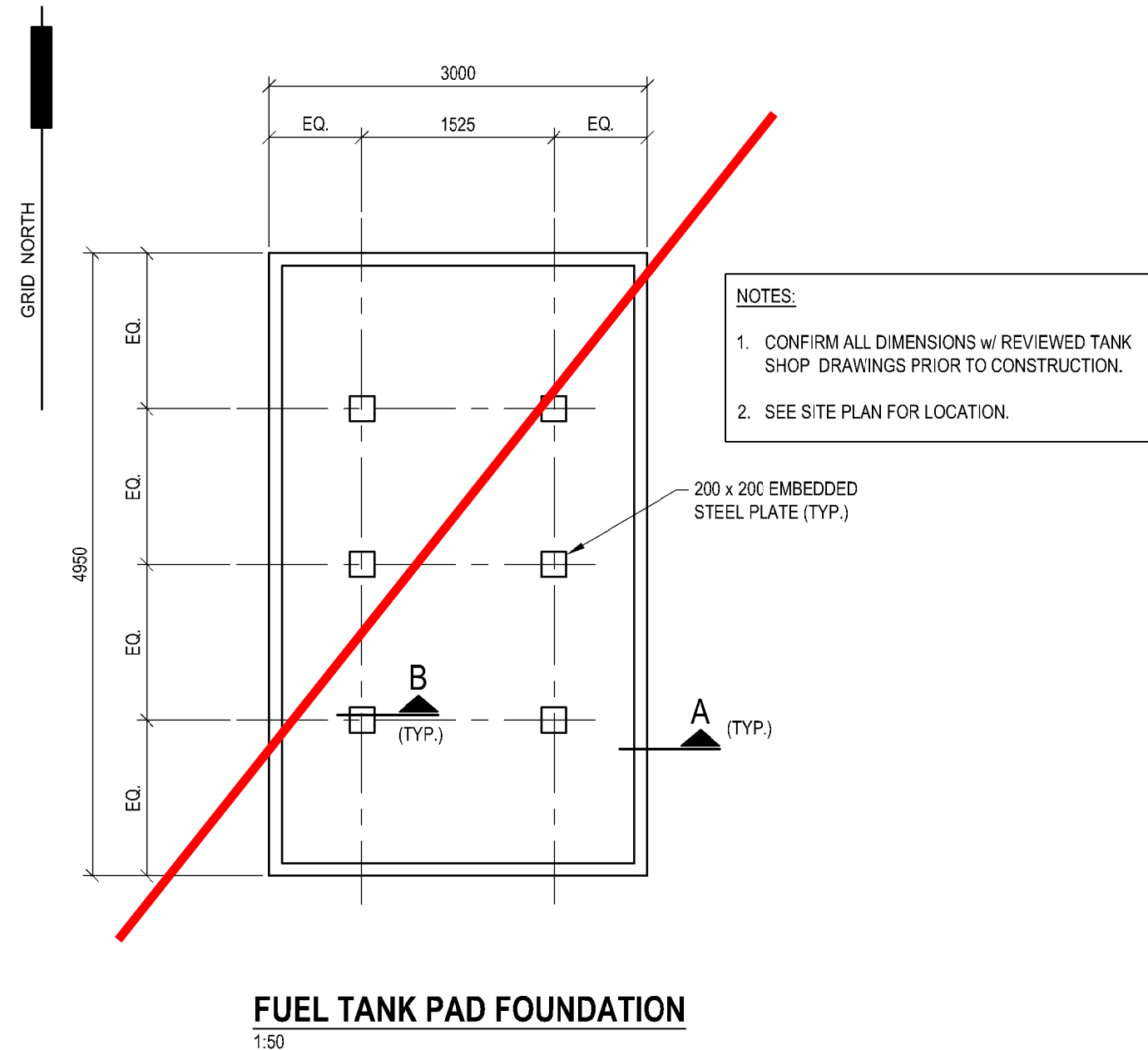
Project No. OTT-00236239-A0	Rev. No. C-201 1
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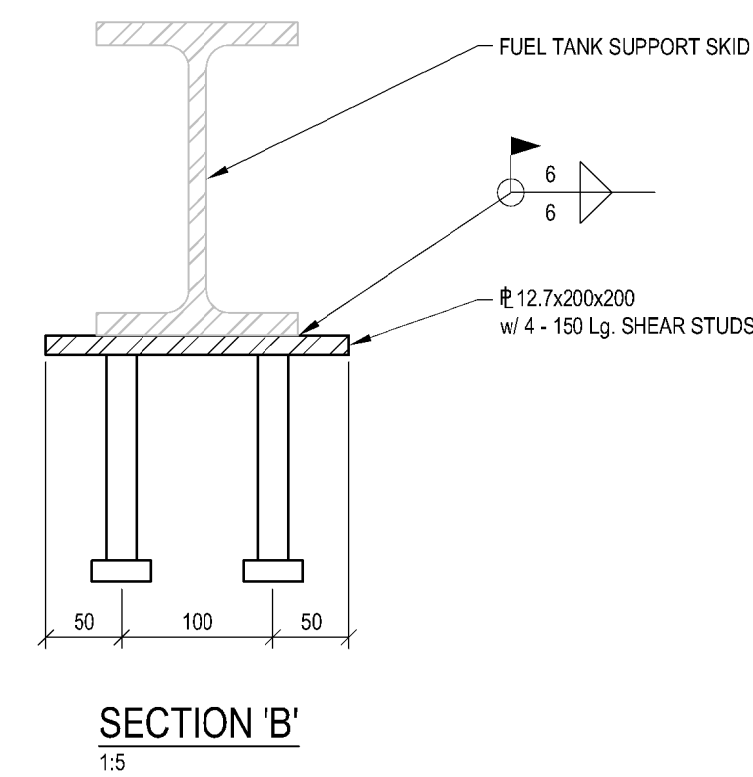
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	TOWER ARCTIC LTD., AS BUILT'S	2020.MAY.17
1	RELEASED FOR CONSTRUCTION	2017.AUG.30
No.	Revision	Date
RECORD DRAWING		
Professional Seal(s)		
	<div>PERMIT OF PRACTICE EXP SERVICES INC. Signature  Date <u>AUG 30 2017</u> PERMIT NUMBER: P483 NT/NU Association of Professional Engineers and Geoscientists</div>	
Drawn By: IPC		
Dwg Standards Ckd By: 		
Designed By: SLB		
Design Checked By: 		
Scale: AS SHOWN		
Project Title		
WATER TREATMENT FACILITY AND RAW WATER STORAGE ARVIAT, NU		
Dwg. Title		
AS BUILT DRAWINGS: THIS DRAWING HAS BEEN REVISED TO SHOW SUBDRAIN AND MISC. WORK AS INSTALLED  Tower Arctic Ltd. - 5/12/2020		
Project No. OTT-00236239-A0		
Dwg. No. C-302	Rev. No. 1	

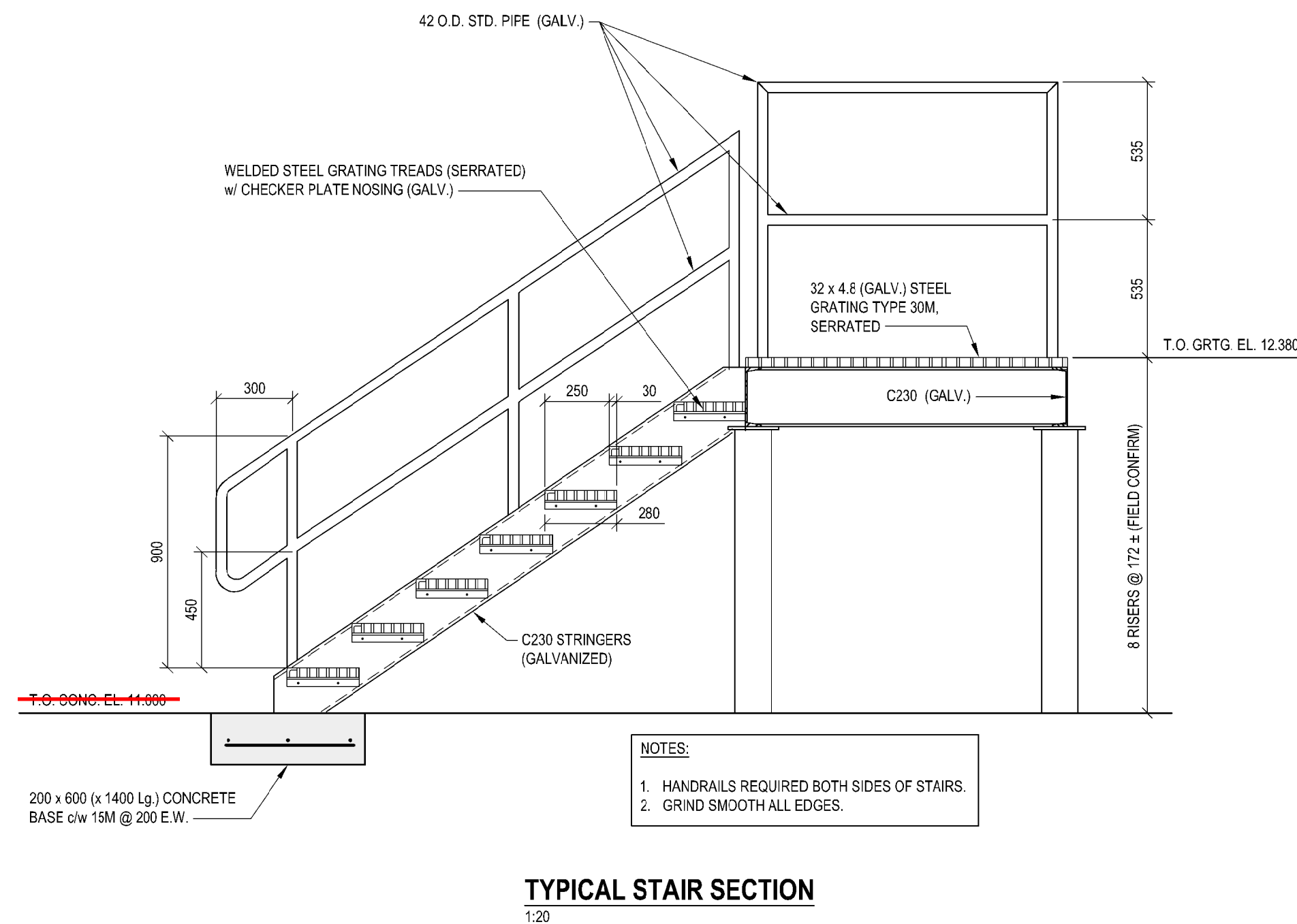
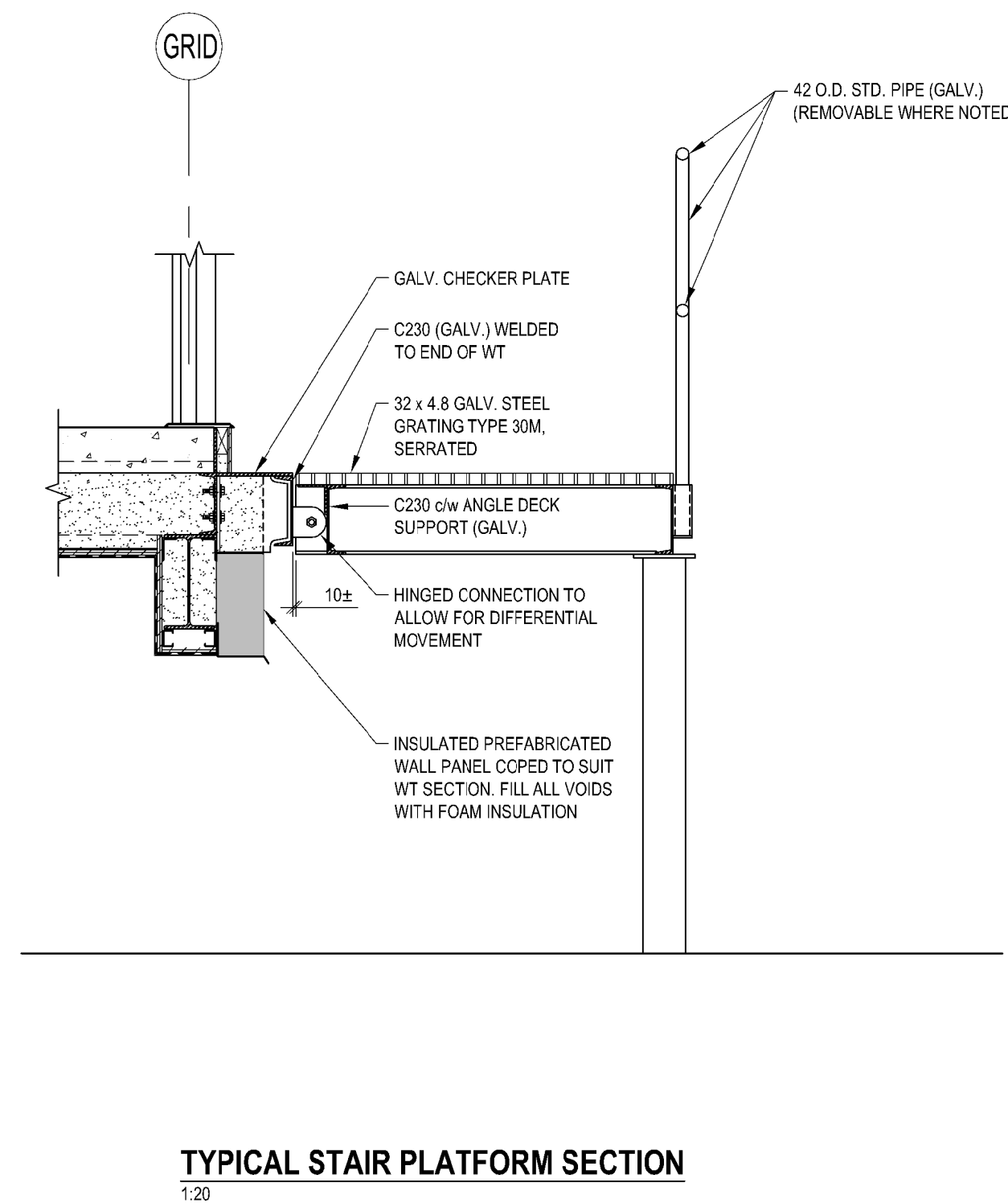


NOTE:
1. SEE DRAWING A-201 FOR GENERAL NOTES AND LEGEND.

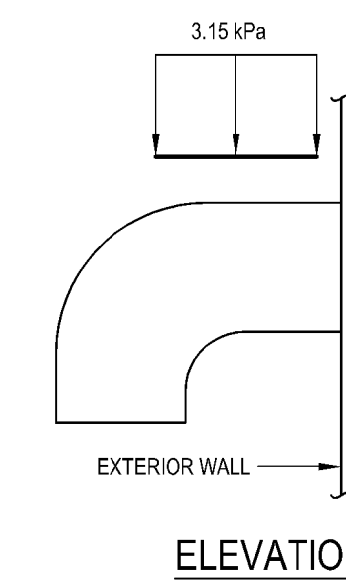


**Fuel Tank Mounted
On Piles**

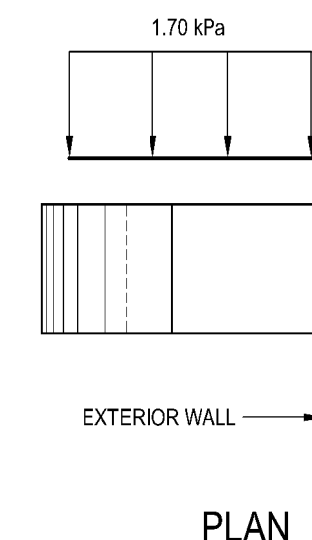
**REFER TO SHOP DRAWING SD-104
A FUEL TANK FOUNDATION DESIGN**



STRUCTURAL DESIGN CRITERIA	
ROOF DEAD LOADS:	FLOOR LOADS:
- STANDING SEAM INSULATED METAL ROOF PANEL	= 0.15 kPa
- 75 METAL DECK	= 0.15 kPa
- M & E ALLOWANCE	= 0.25 kPa
TOTAL ROOF DEAD LOAD* (*EXCLUDES STRUCTURAL STEEL)	= 0.55 kPa
SNOW LOADS:	SEISMIC:
- Ss = 2.9 kPa	- Ss (0.2) = 0.095
- Sr = 0.2 kPa	- Sa (0.5) = 0.057
- Is = 1.25	- Sa (1.0) = 0.026
- Cd = 0.80	- Sa (2.0) = 0.008
- Cw = 1.0	- PGA = 0.038
- Cs = 1.0	- SITE CLASS = 'C'
- Ca = 1.0	- I _c = 1.5
WIND:	CODES AND STANDARDS:
- q 1/10 = 0.45 kPa	CONCRETE DESIGN: TO CSA A23.3-14.
- q 1/50 = 0.58 kPa	STEEL DESIGN: TO CANCSA S16-14.
- W = 1.25	BUILDING CODE: NATIONAL BUILDING CODE OF CANADA 2010.
- Ce = BASED ON 'OPEN TERRAIN'	BUILDING STRUCTURE IMPORTANCE CATEGORY = 'POST DISASTER' (NBCC TABLE 4.1.2.1)
- Cpl = CATEGORY 2 (-0.45 TO 0.3)	
- Cp OVERALL BUILDING - PER FIG. I-7 - NBCC 2010	
- WALLS - PER FIG. I-8 - NBCC 2010	
- ROOF - PER FIG. I-9 - NBCC 2010	
NOTE: SEE "P" SERIES AND "M" SERIES DRAWINGS FOR ADDITIONAL LOADS.	



WALL HOOD SNOW LOAD
NOT TO SCALE



WALL HOOD WIND LOAD
NOT TO SCALE

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PERMIT OF PRACTICE
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Signature: *M. J. McCormick*
Date: 07/Oct/2020
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RELEASED FOR CONSTRUCTION		2017 AUG 30
No.	Revision	Date

RECORD DRAWING

Professional Seal(s)	

Drawn By:	ECM
Dwg Standards Ckd By:	<i>[Signature]</i>
Designed By:	MJM
Design Checked By:	<i>[Signature]</i>
Scale:	AS SHOWN

Project Title
**WATER TREATMENT
FACILITY AND
RAW WATER STORAGE
ARVIAT, NU**

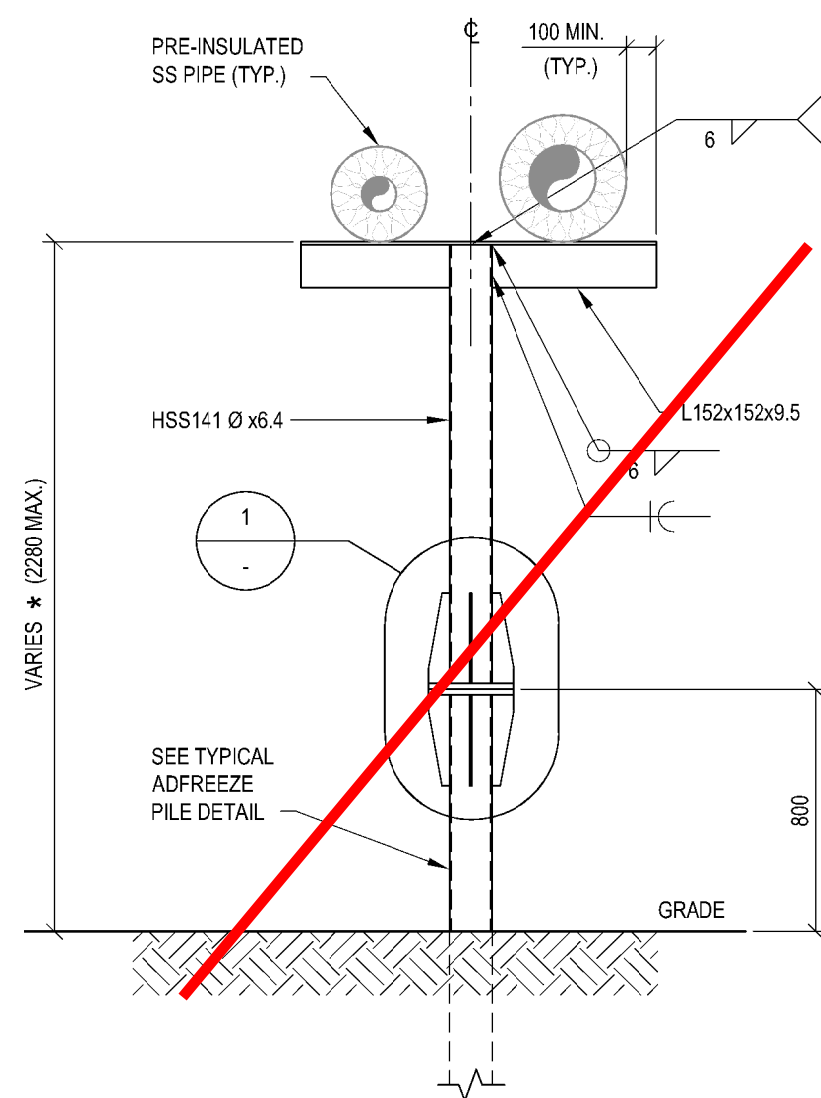
Dwg. Title
**AS BUILT DRAWINGS: THIS
DRAWING HAS BEEN REVISED TO
SHOW STRUCTURAL WORK AS
INSTALLED**
Tower Arctic Ltd. - 5/12/2020

Project No.
OTT-00236239-A0

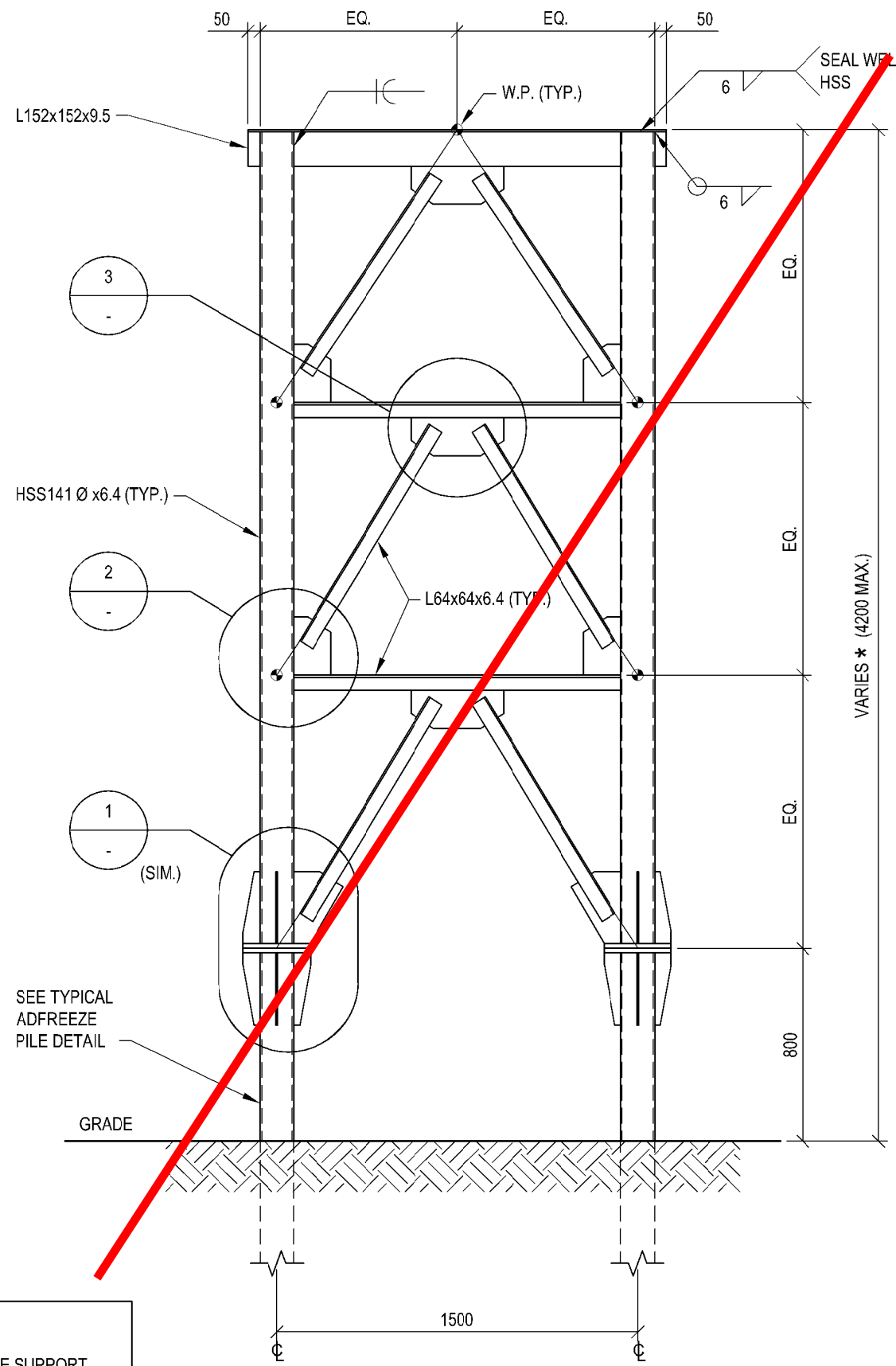
Dwg. No.
S-201

Rev. No.
1

PIPE SUPPORTS AS PER SHOP DRAWINGS

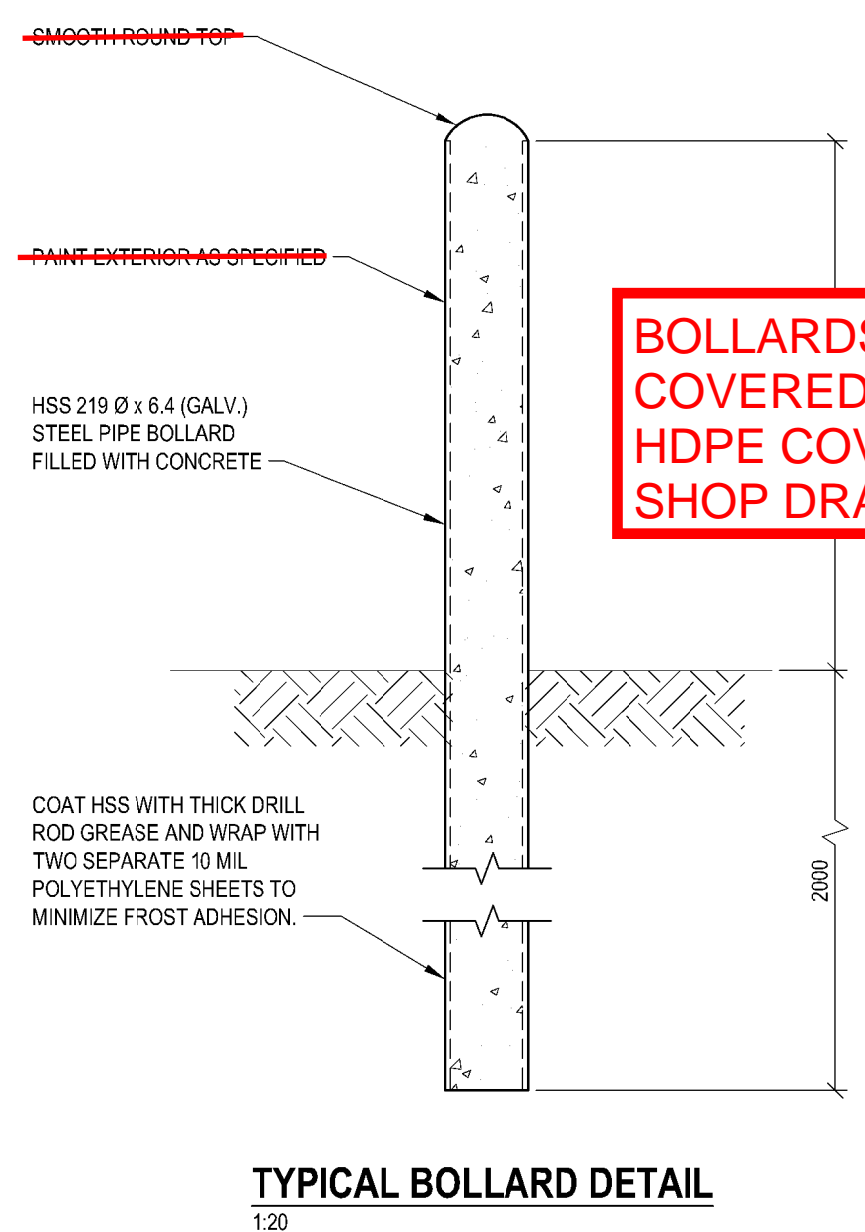
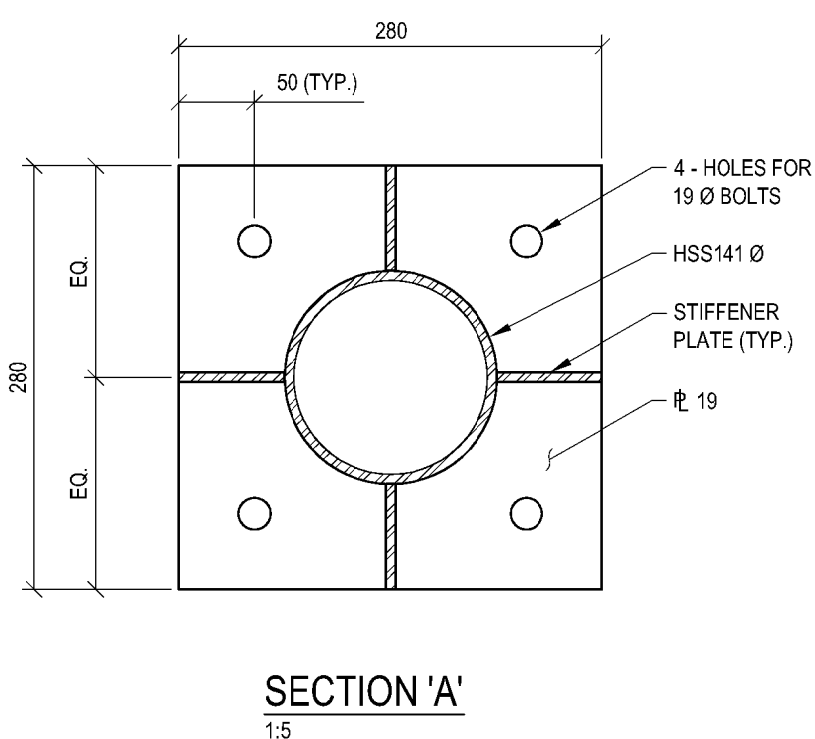
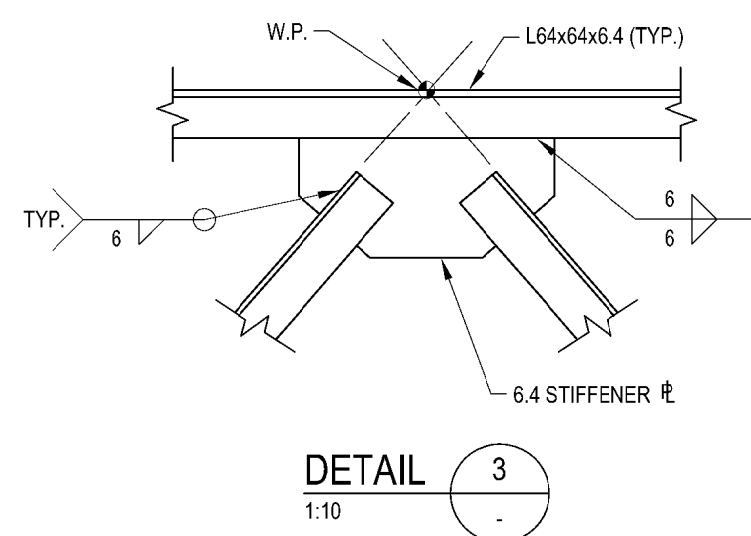
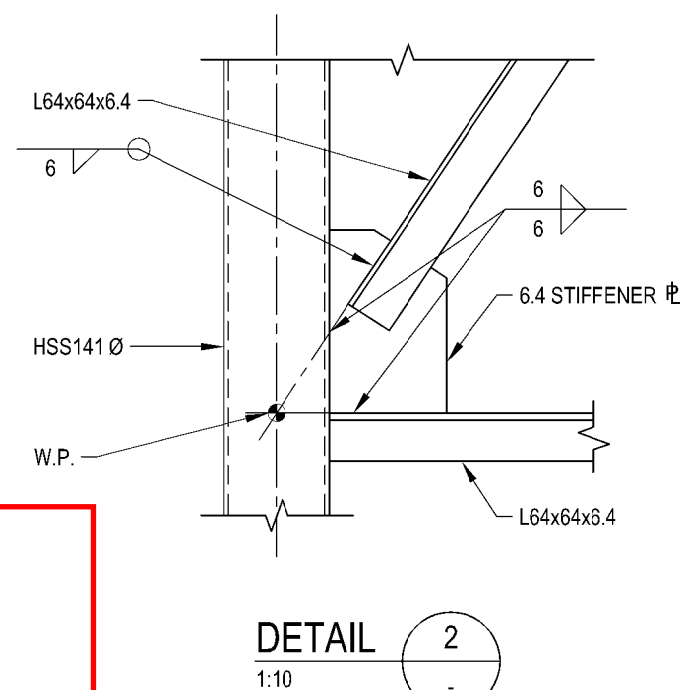
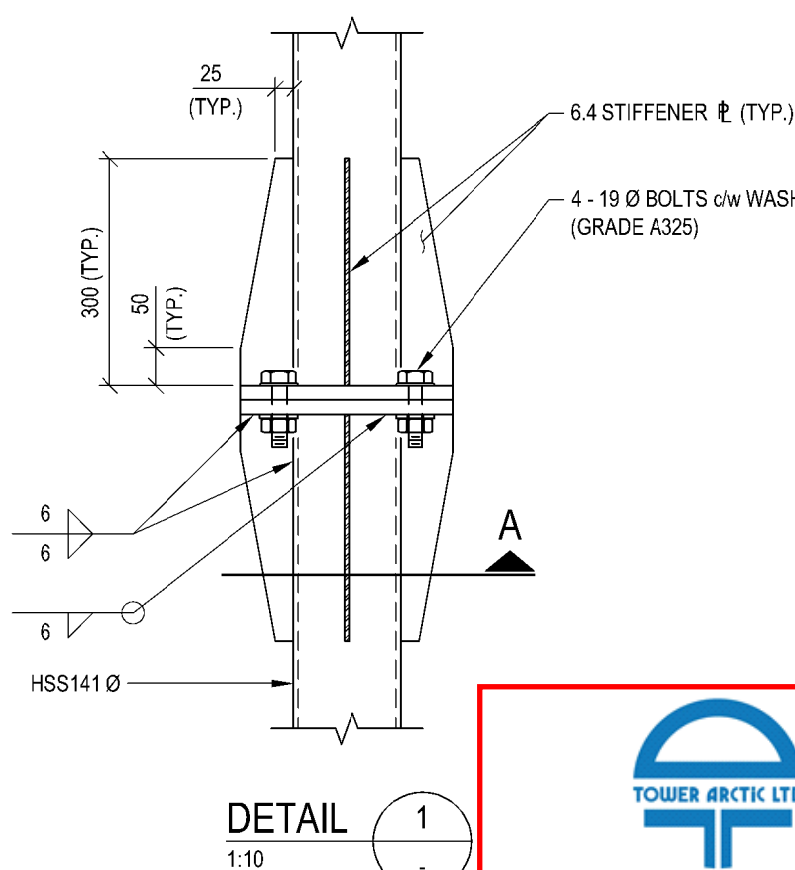


TYPICAL PIPE SUPPORT TYPE '1' (PS-1) ELEVATION
1:25

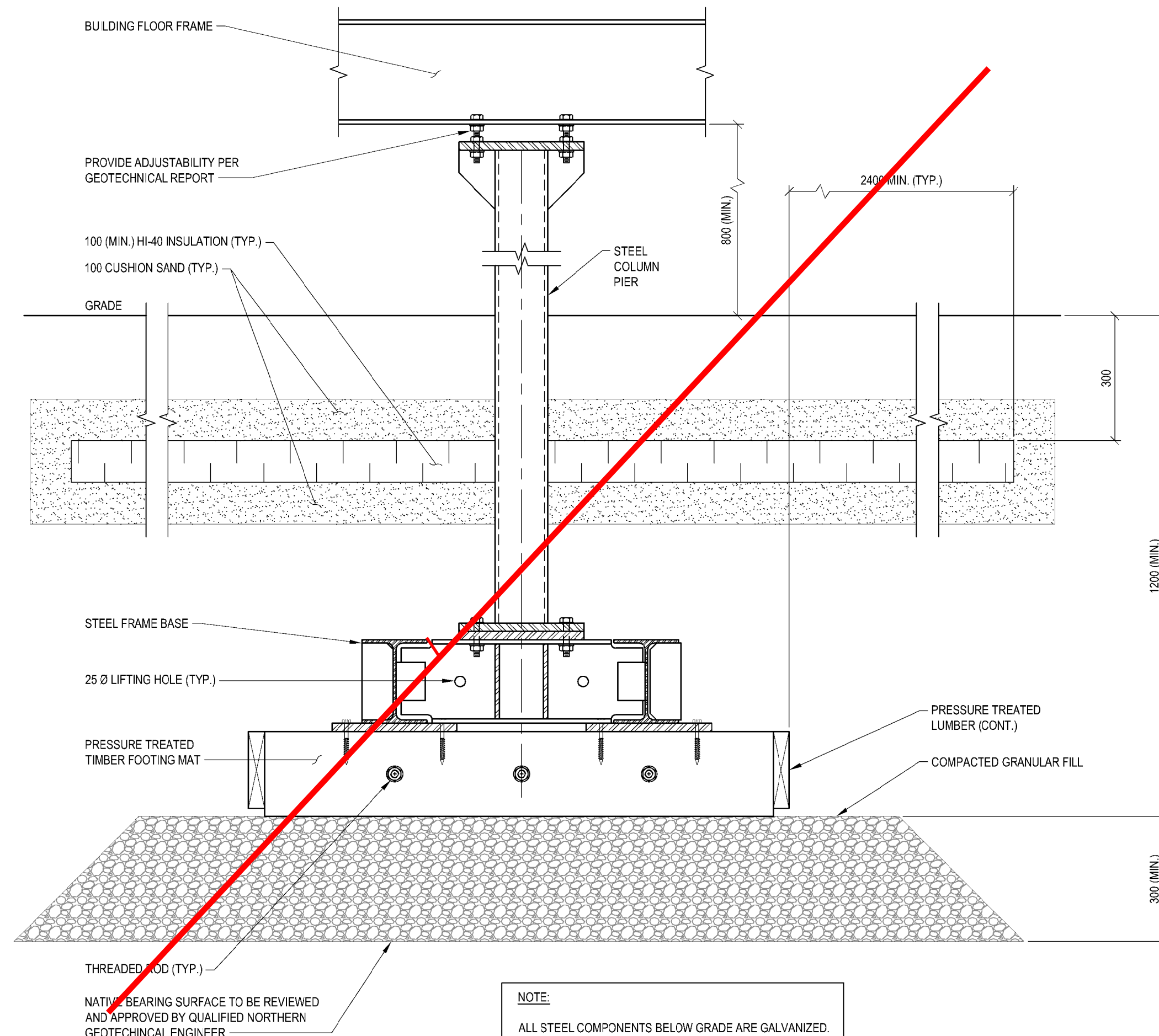


TYPICAL PIPE SUPPORT TYPE '2' (PS-2) ELEVATION
1:25

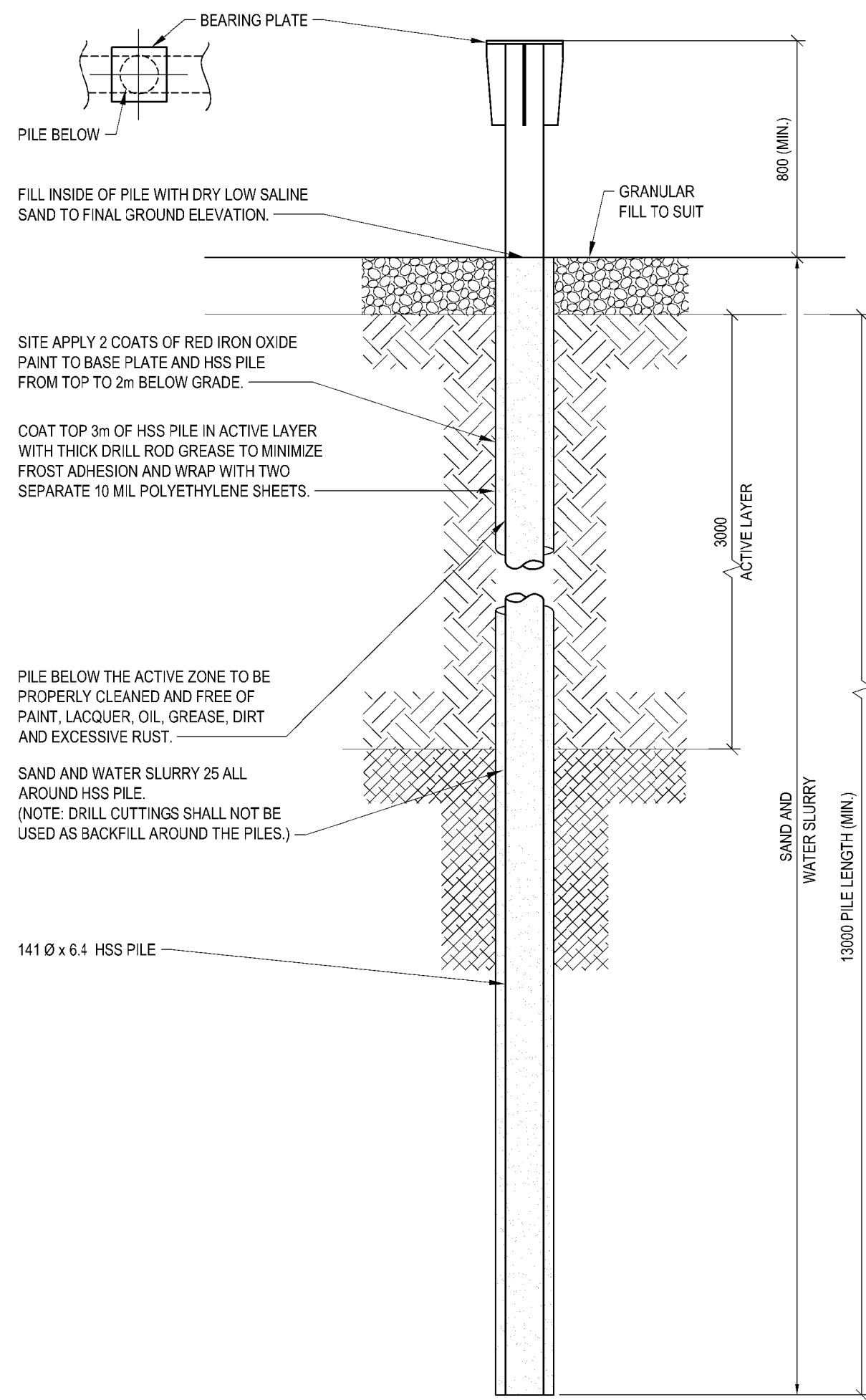
NOTE:
* - CONFIRM TOP OF PIPE SUPPORT ELEVATIONS WITH P-SERIES DRAWINGS.



BOLLARDS ARE COVERED WITH RED HDPE COVER AS PER SHOP DRAWINGS



TYPICAL PRESERVED WOOD FOUNDATION FOOTING
1:10



- FOUNDATION NOTES:**
1. THE CONTRACTOR IS RESPONSIBLE FOR THE BUILDING FOUNDATION AND CHOICES OF FOUNDATION SYSTEM PER RECOMMENDATIONS OF THE GEOTECHNICAL REPORT - ADFREEZE PILES AND/OR BURIED PRESERVED WOOD FOOTINGS WITH RIGID INSULATION.
 2. WORK INCLUDES THE LAYOUT, STRUCTURAL DESIGN OF THE ADFREEZE PILES, SUPPLY AND INSTALLATION OF PILES AND/OR FOOTINGS, AND TO COORDINATE SAME WITH SECTION 13.34.19 METAL BUILDING SYSTEMS.
 3. PROVIDE ALL ITEMS, ARTICLES, MATERIALS AND OPERATIONS AND METHODS REQUIRED TO SATISFACTORILY COMPLETE THE FOUNDATION WORK.
 4. A GEOTECHNICAL REPORT FOR THE SITE BY EXP SERVICES INC. IS AVAILABLE FOR VIEWING AT THE EXP OTTAWA OFFICE LOCATED AT 100-285 QUEENVIEW DRIVE, OTTAWA, ON. IT IS LEFT TO THE CONTRACTOR TO DRAW THEIR OWN CONCLUSIONS WITH REGARD TO FOUNDATION DESIGN AND TO DETERMINE IF ADDITIONAL GEOTECHNICAL INVESTIGATION IS REQUIRED FOR THE PERFORMANCE OF THEIR WORK. ANY ADDITIONAL GEOTECHNICAL INVESTIGATION COST IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
 5. REFER TO THE RELEVANT SPECIFICATION SECTION FOR EACH FOUNDATION COMPONENT

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PERMIT OF PRACTICE
EXP SERVICES INC.
Signature: *[Signature]*
Date: 07/Oct/2020
PERMIT NUMBER: P483
NT/NU Association of Professional Engineers and Geoscientists

FOUNDATION OPTIONS

AS SHOWN

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	TOWER ARCTIC LTD. AS BUILTS	2020.MAY
1	RELEASED FOR CONSTRUCTION	2017.AUG.3
No.	Revision	Date

RECORD DRAWING



Drawn By:	ECM
Dwg Standards Ckd By:	<i>[Signature]</i>
Designed By:	MJM
Design Checked By:	<i>[Signature]</i>
Scale:	AS SHOWN

Project Title
WATER TREATMENT FACILITY AND RAW WATER STORAGE ARVIAT, NU

Dwg. Title
AS BUILT DRAWINGS: THIS DRAWING HAS BEEN REVISED TO SHOW STRUCTURAL WORK AS INSTALLED
Tower Arctic Ltd. - 5/12/2020

Project No.	OTT-00236239-A0
Dwg. No.	S-202
Rev. No.	1