



Stantec



CAMBRIDGE BAY POTABLE WATER SYSTEM PHASE 1 - AS-BUILT

MARCH 2016

Stantec Project Number: 144901252

GN Project Number: 11-4002

LIST OF DRAWINGS

CIVIL

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PROPOSED SITE LAYOUT AND ROAD PROFILE
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ACCESS VAULT PIPING LAYOUT
PUMP AND DISCHARGE PIPE DETAILS

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POWER FLOOR PLAN AND MOTOR SCHEDULE
HEAT TRACE DETAILS

E-101
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STRUCTURAL

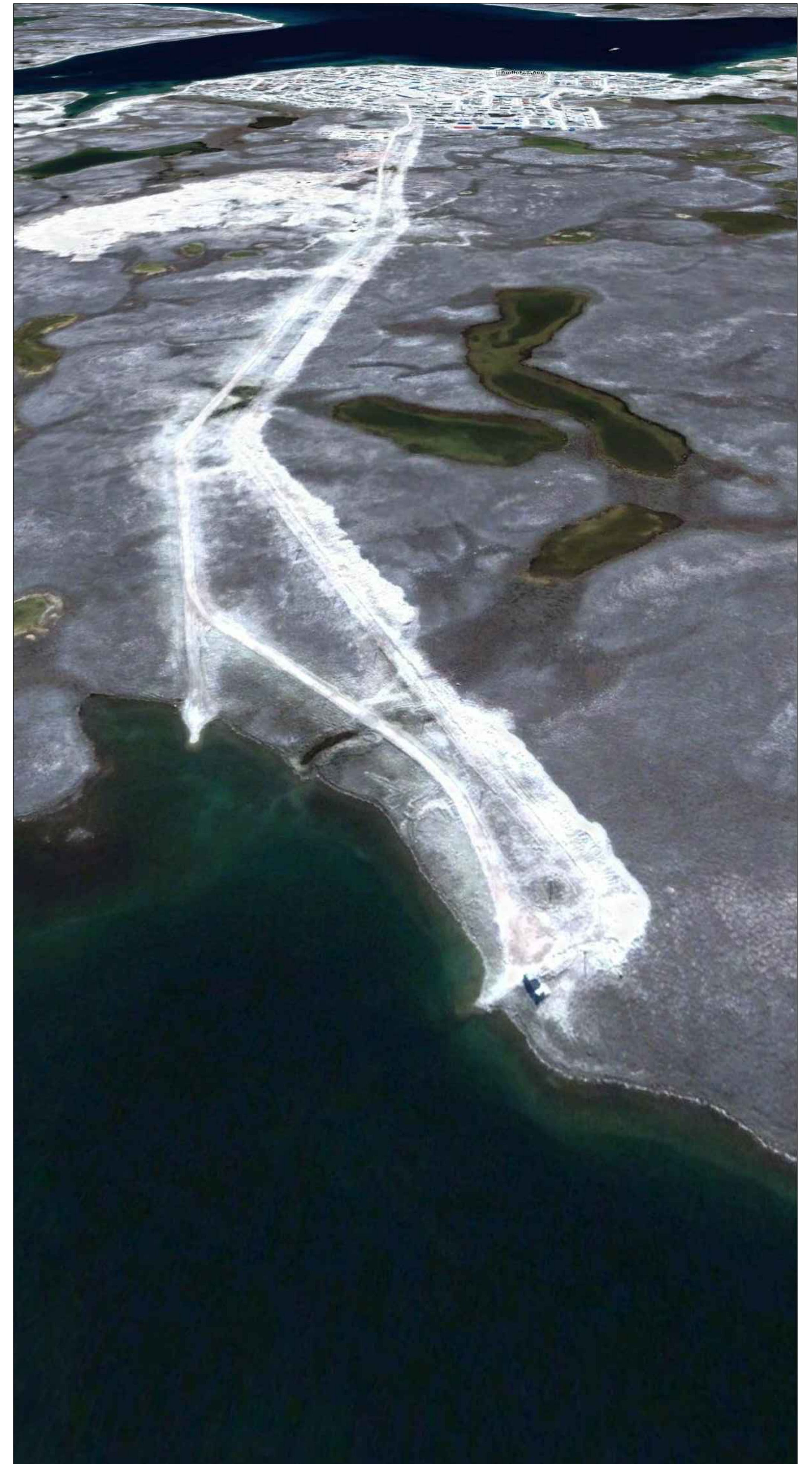
SKID AND SUBFLOOR LAYOUT AND DETAILS
STRUCTURAL DETAILS
STRUCTURAL SECTIONS
STAIR DETAILS
TRUCKFILL ARM DETAILS
STRUCTURAL NOTES

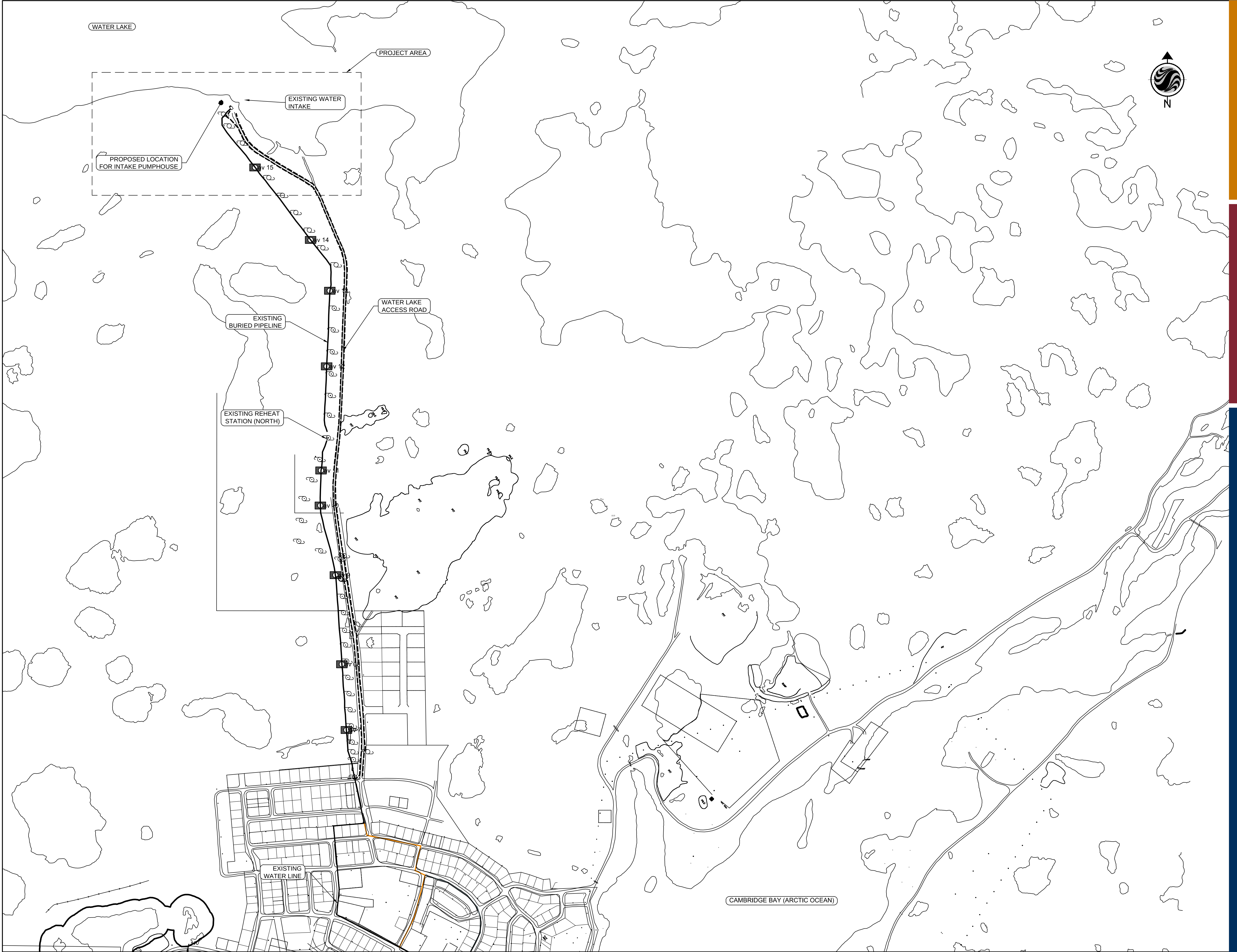
S-501
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BUILDING

FLOOR PLAN, ASSEMBLIES & SCHEDULES
BUILDING ELEVATIONS
DETAILS

A-101
A-201
A-301





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Consultants

Legend

Notes

Revision	By	Appd.	YY.MM.DD
ISSUED FOR AS-BUILT	KK	WO	16.03.16
ISSUED FOR CONSTRUCTION	AF	WO	12.09.06
ISSUED FOR TENDER	AF	WO	12.03.30
99% SUBMISSION	JD	WO	12.03.02
50% SUBMISSION	JD	WO	12.01.18
Issued	By	Appd.	YY.MM.DD

File Name: _____ Dwn. Chkd. Dsgn. YY.MM.DD

Permit-Seal

PLAN OF AS-BUILT DRAWING
Contractor: SANAQATIIT CONSTRUCTION
Construction Certification Date: MARCH 12, 2015

Client/Project
GOVERNMENT OF NUNAVUT

POTABLE WATER SYSTEM
PHASE I
Cambridge Bay, NU

Title
PROJECT LOCATION

Project No. 1449-01252 Scale 1:5000
Drawing No. Sheet Revision

C-101 1 of 10 0

V:\1449\Active\1449-01252\0500_civil\06_drawings\06-05_Record Drawings\Phase I\01252-C101.dwg
2016/05/16 1:33 PM By: Koper, Kelly

ORIGINAL SHEET - ANSI D



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Notes

1. CONTRACTOR TO CONFIRM INSULATED AND NON-INSULATED HDPE PIPE CASING DIAMETERS
2. REBATE DIAMETERS IN CONCRETE ANCHORS TO BE 12MM LARGER THAN OD OF INSULATED AND NON-INSULATED PIPES.

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	Dwn.	Chkd.	Dsgn.	YY.MM.DD

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PLAN OF AS-BUILT DRAWING

Contractor: SANAQATIIT CONSTRUCTION
Construction Certification Date: MARCH 12, 2015

Client/Project

GOVERNMENT OF NUNAVUT

POTABLE WATER SYSTEM PHASE I

Cambridge Bay, NU

Title

INTAKE LINES DETAILS

Project No. _____

Project No.
1449-01252

Scale AS SHOWN

Drawing No

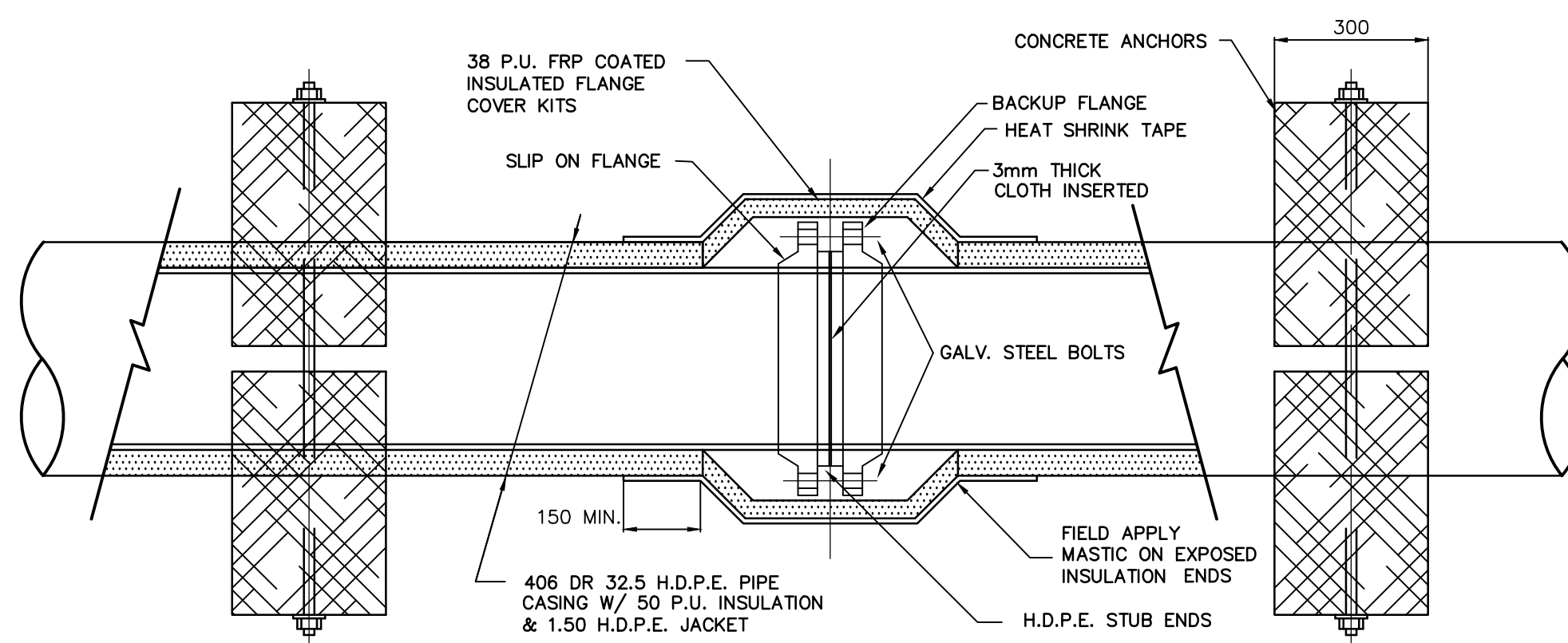
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Revision

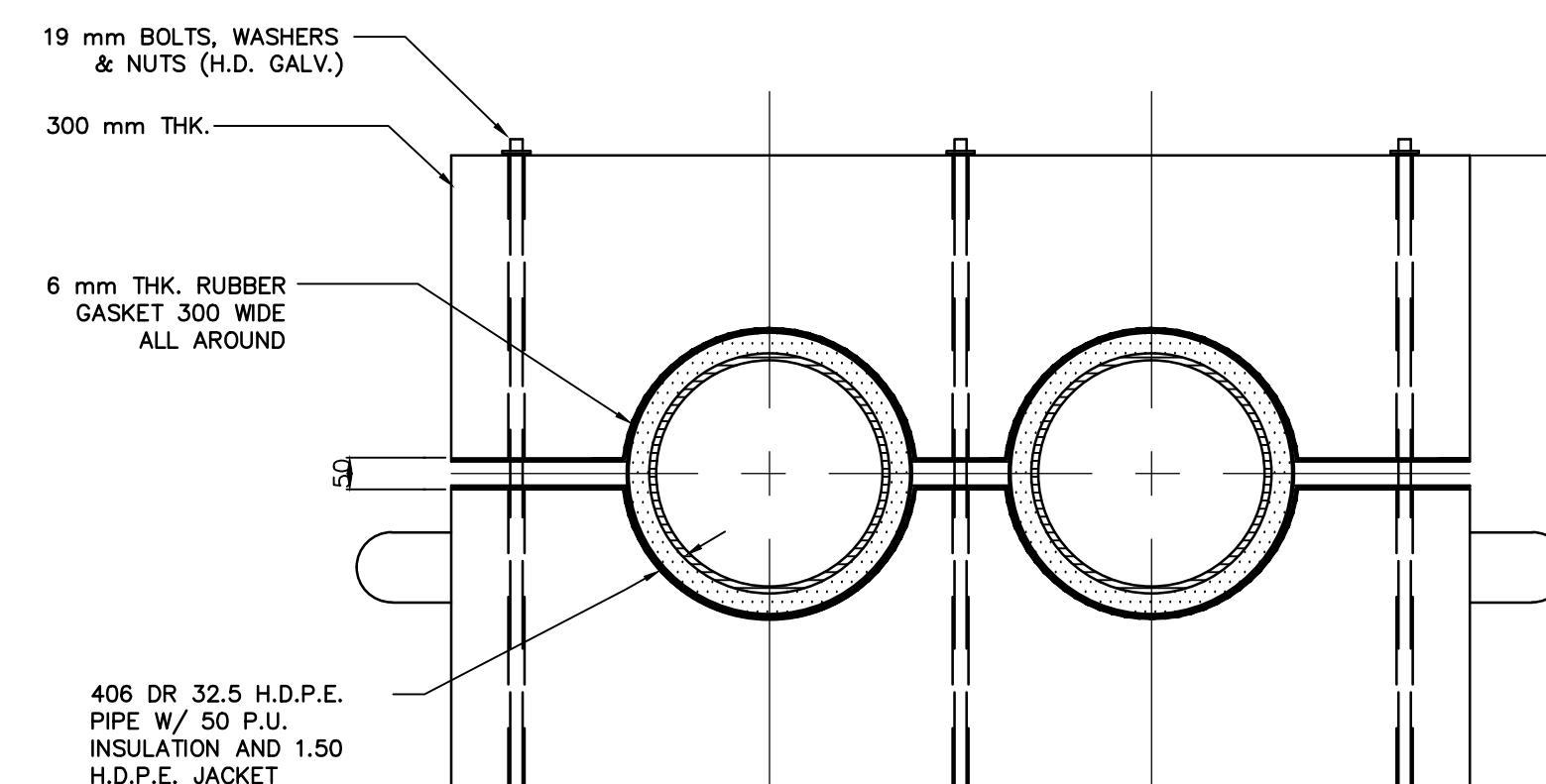
C-501

6 of 10

0



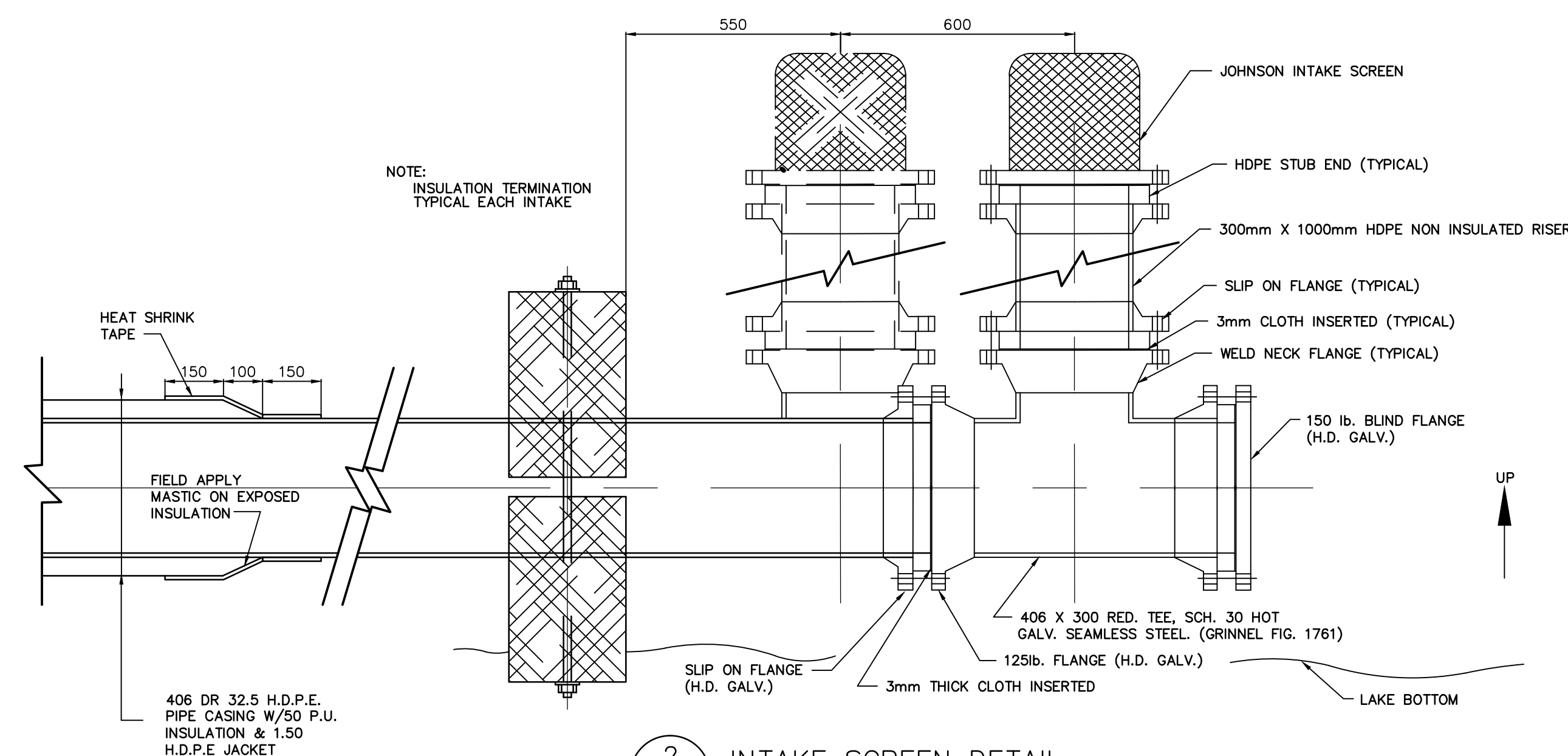
1 INTAKE CASING JOINT DETAIL
C501 SCALE: NTS



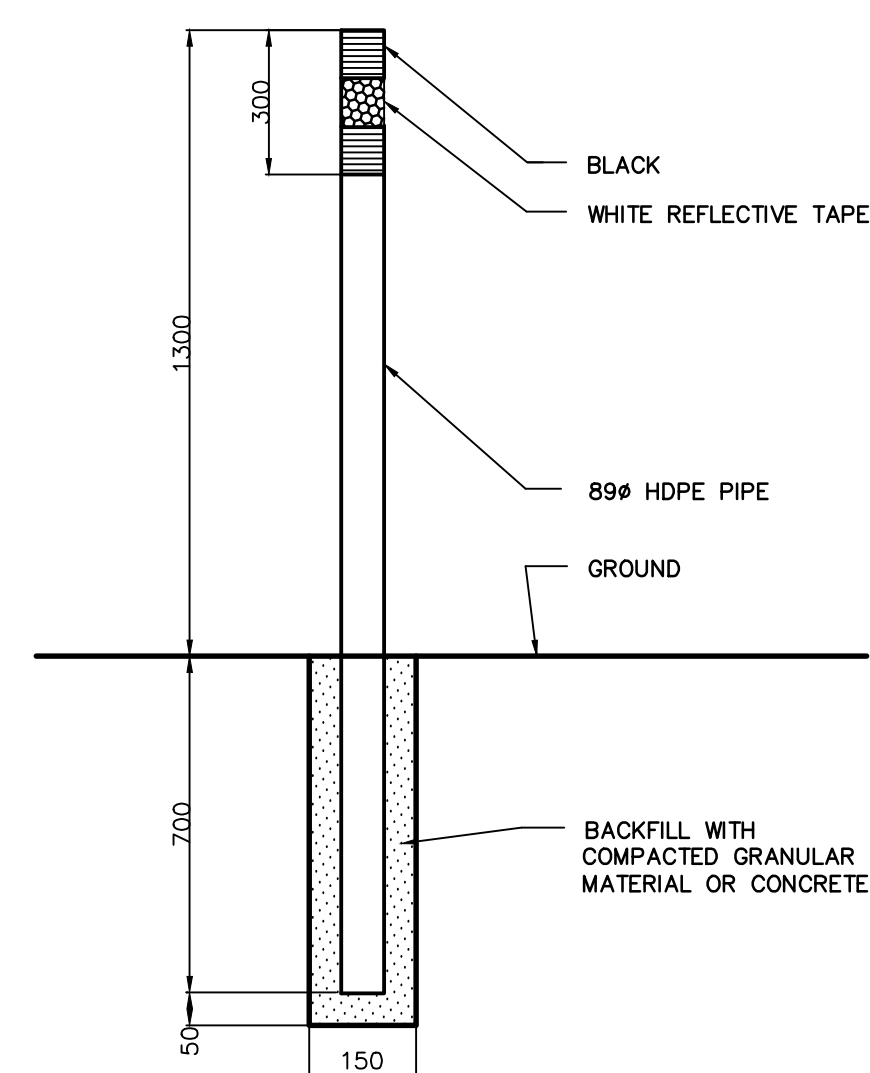
3
C501

INTAKE CONCRETE ANCHOR DETAIL

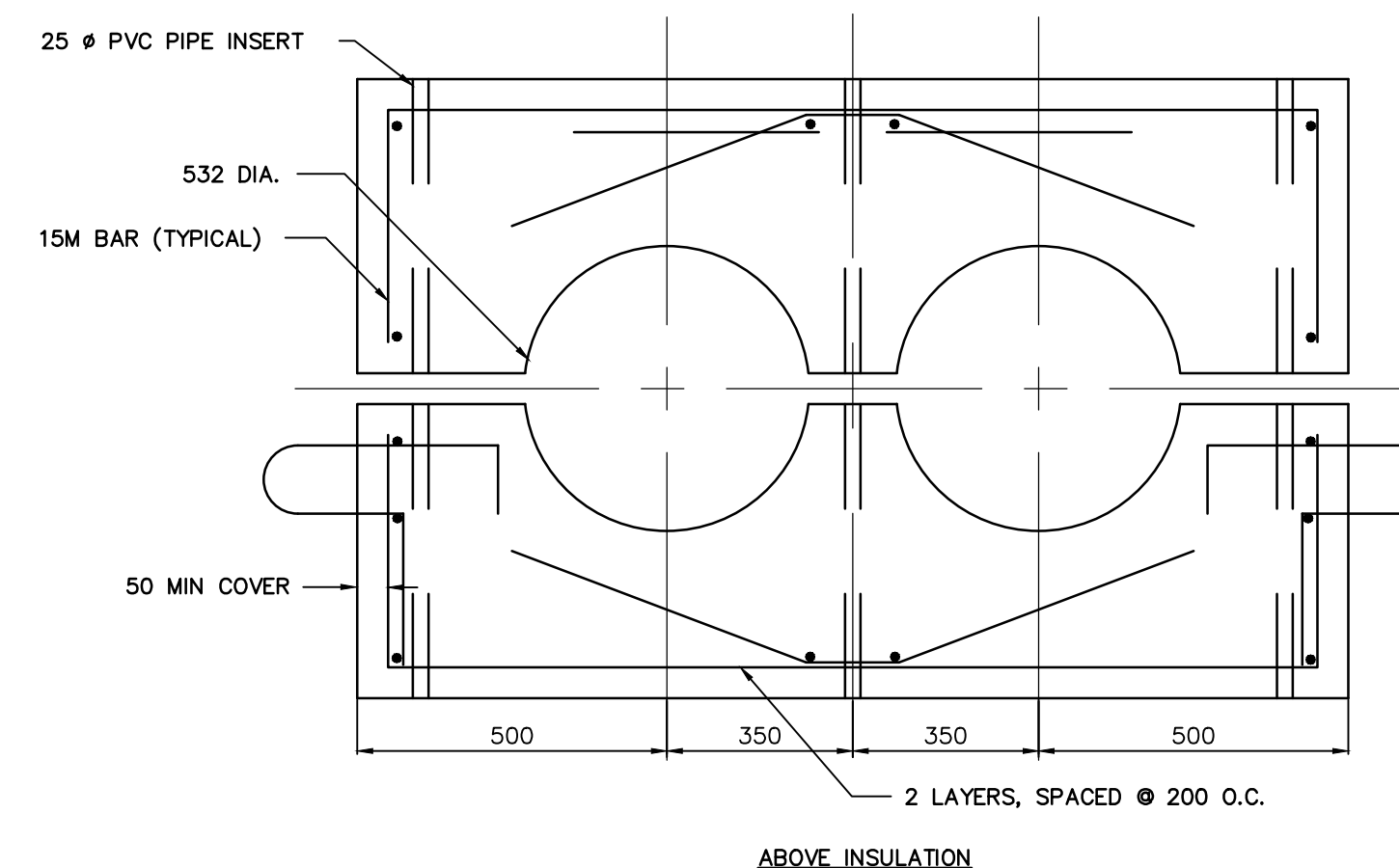
SCALE: NTS



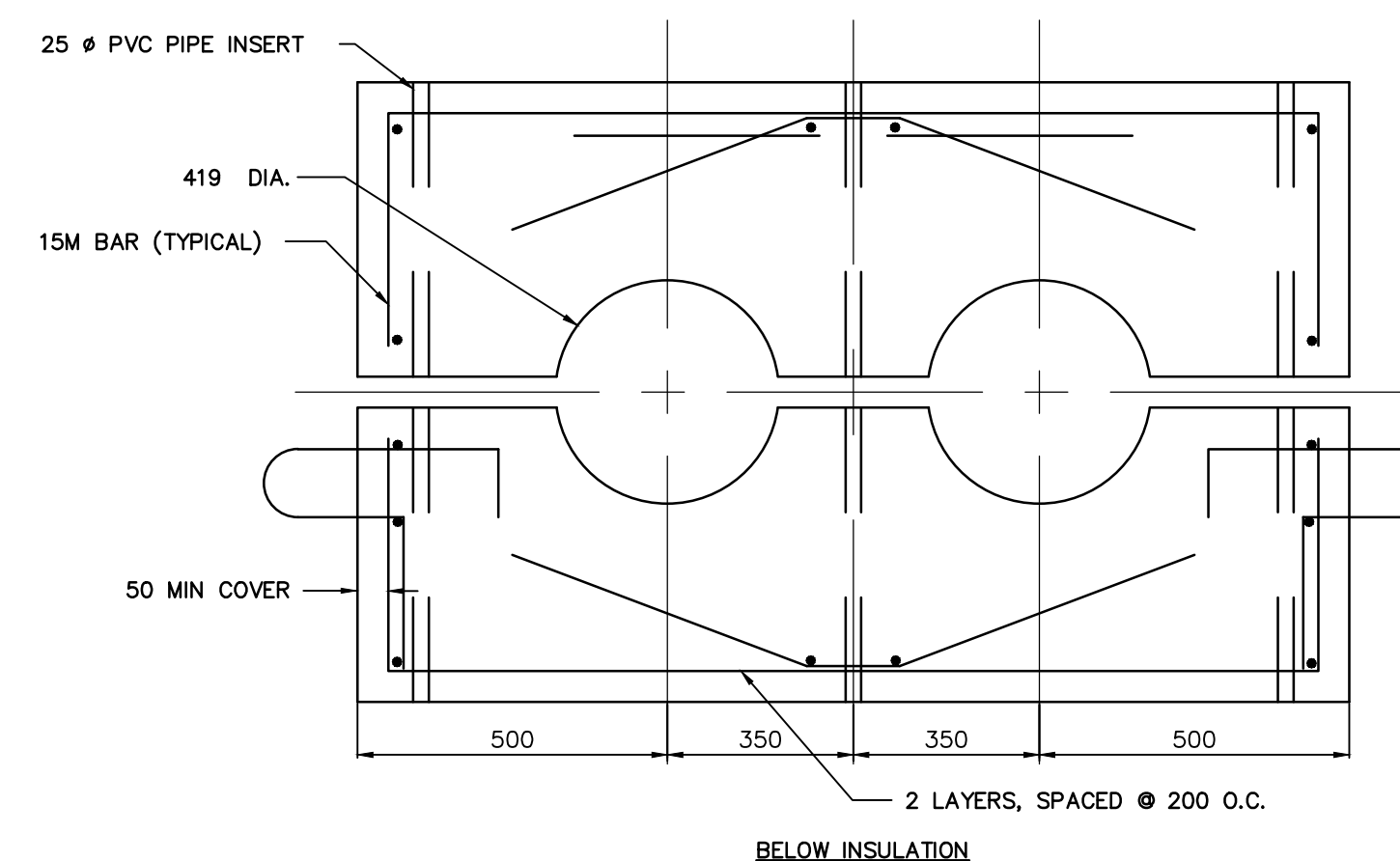
2 INTAKE SCREEN DETAIL
C501 SCALE: NTS



5 MARKER POST DETAIL
C501 SCALE: NTS



ABOVE INSULATION



BELOW INSULATION

4 INTAKE CONCRETE ANCHOR REINFORCEMENT DETAIL
C501 SCALE: NTS



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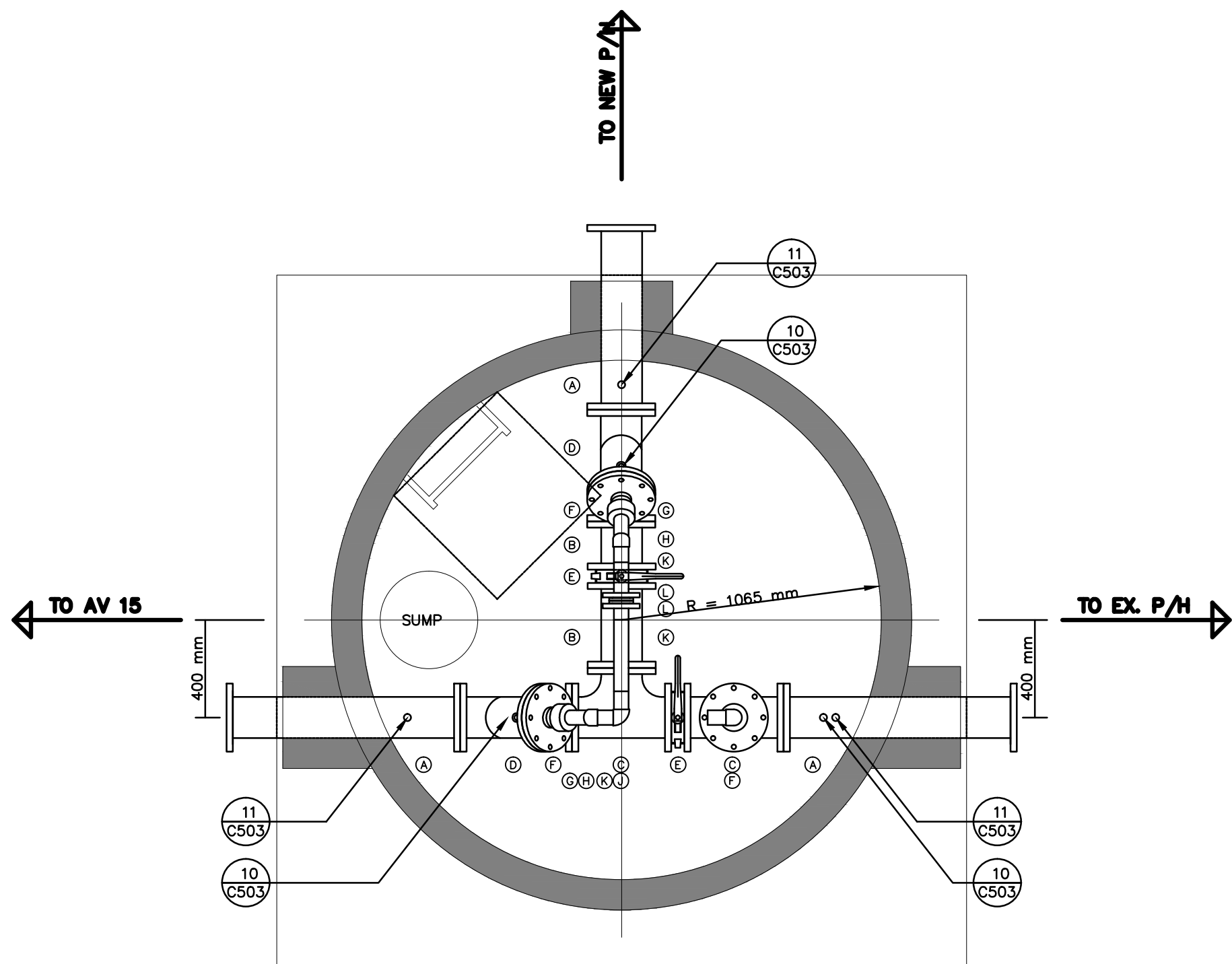
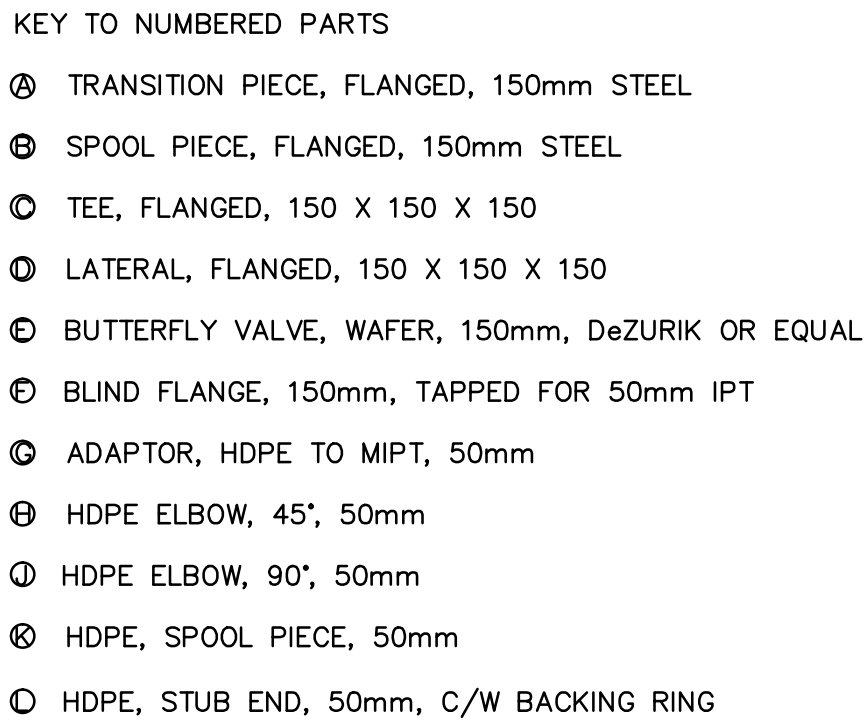
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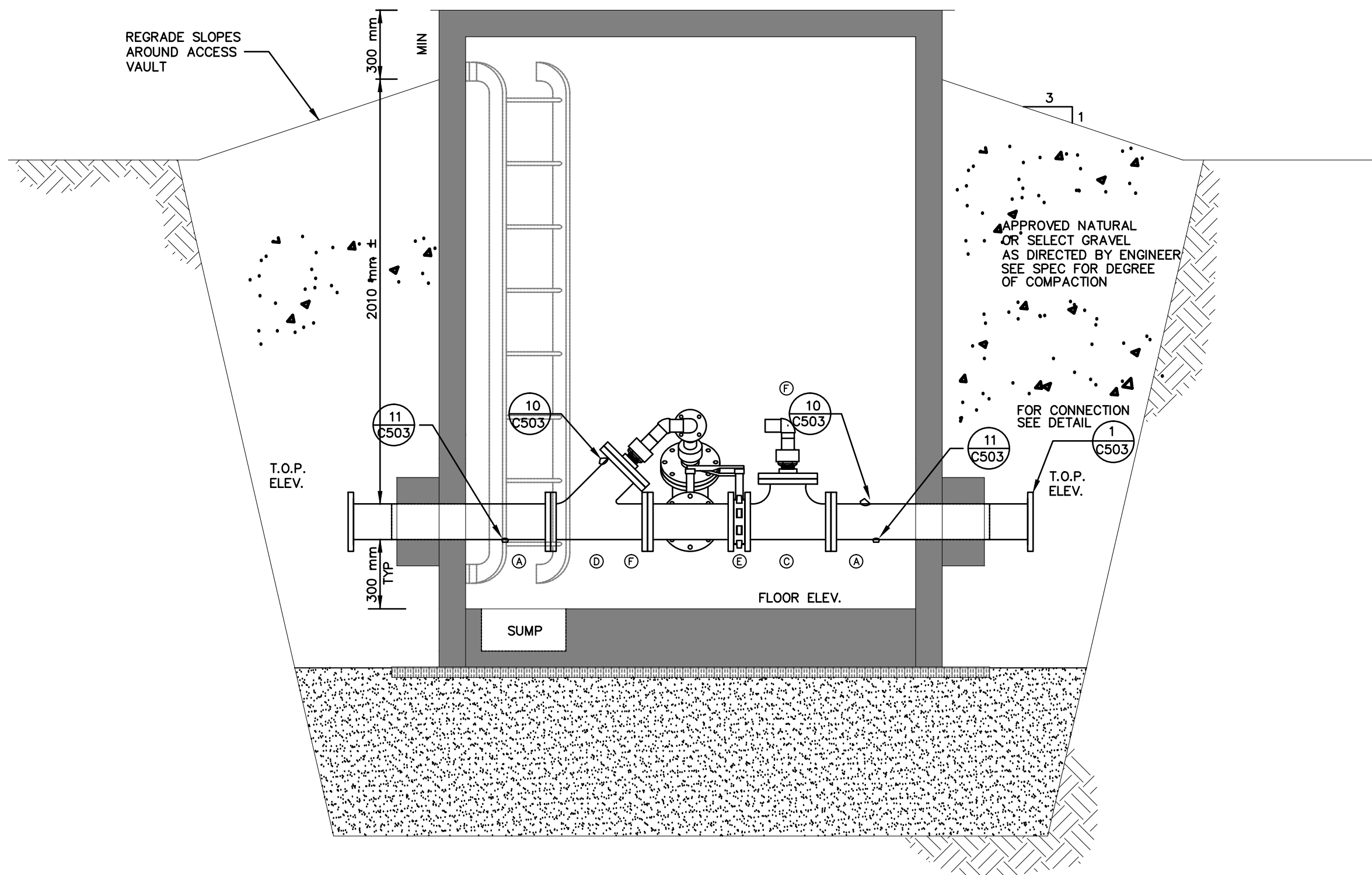
Consultants

Legend

Notes



1 PLAN - NEW ACCESS VAULT
C504 SCALE: NTS



2 ELEVATION — NEW ACCESS VAULT
C504 SCALE: NTS

[illegible]

PLAN OF AS-BUILT DRAWING

Contractor: SANAQATIIT CONSTRUCTION
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Client/Project
GOVERNMENT OF NUNAVUT

POTABLE WATER SYSTEM PHASE I

Cambridge Bay, NU

Title

ACCESS VAULT
PIPING LAYOUT

Project No.	Scale
1449-01252	AS SHOWN

Drawing No.	Sheet	Revision
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Issued	By	Appd.	YY.MM.DD

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Permit-Seal

PLAN OF AS-BUILT DRAWING

Contractor: SANAQATIIT CONSTRUCTION
Construction Certification Date: MARCH 12, 2015

Client/Project
GOVERNMENT OF NUNAVUT

POTABLE WATER SYSTEM
PHASE I
Cambridge Bay, NU

Title
PUMP & DISCHARGE PIPE
DETAILS

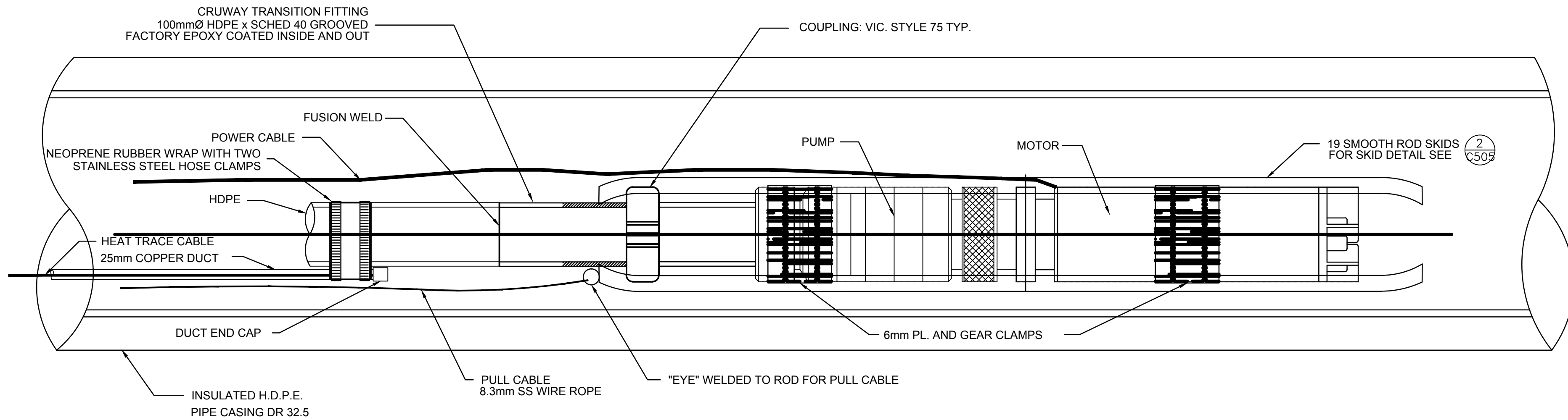
Project No. 1449-01252	Scale N.T.S.
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Drawing No.	Sheet	Revision
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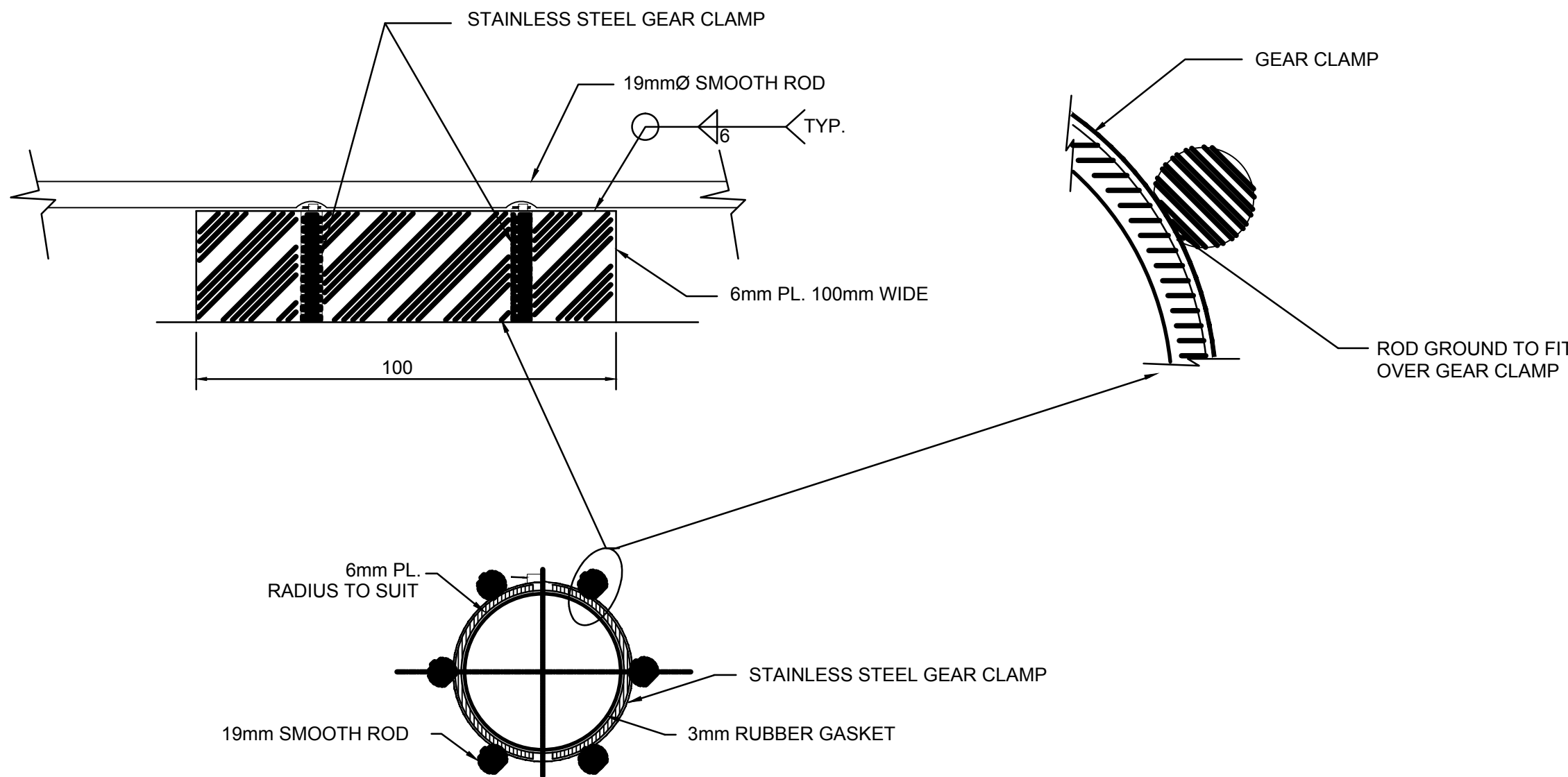
C-505

10 of 10

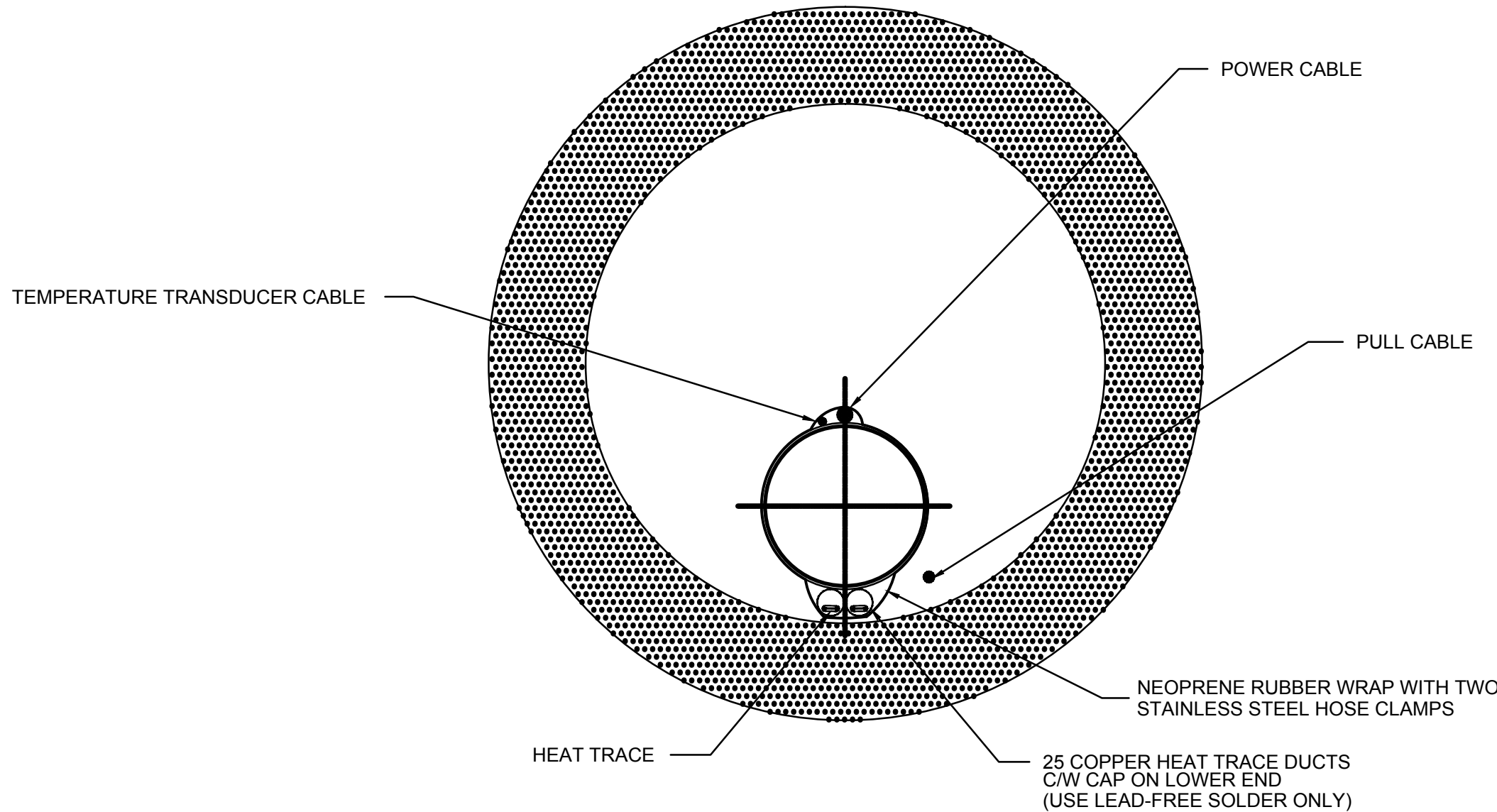
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1 PUMP DETAIL
N.T.S.



2 SKID DETAIL
N.T.S.



3 INTAKE PIPE SECTION
N.T.S.



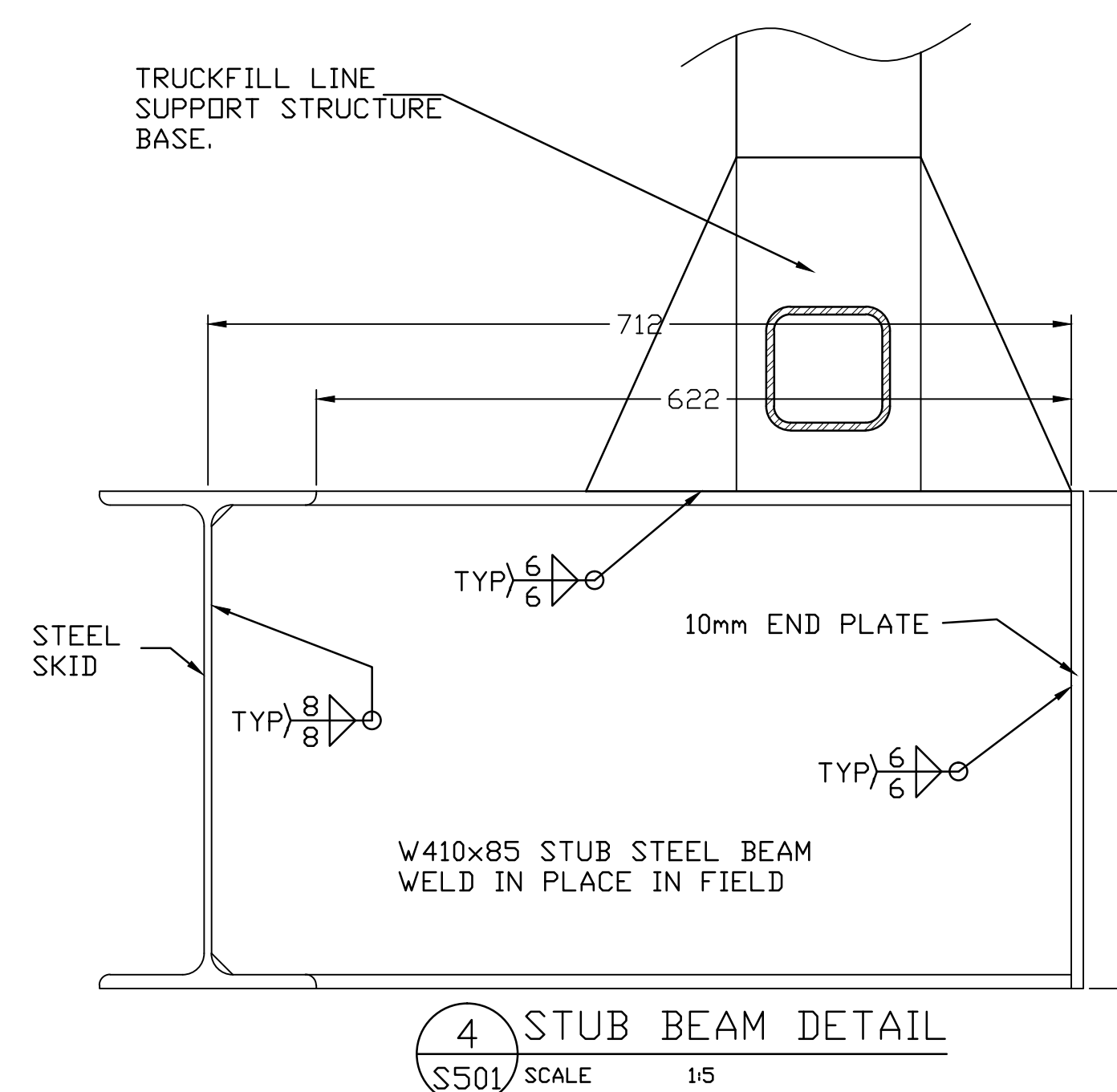
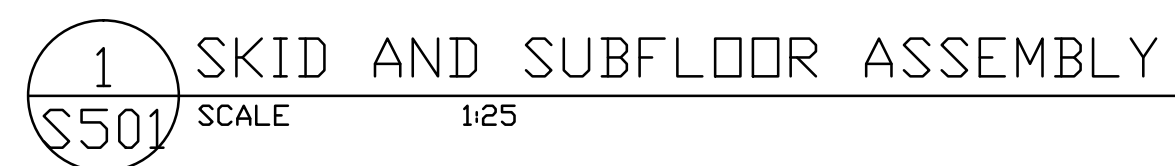
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50%SUB.	J.D.	W.O.	12.01.18
Issued	By	Appd.	YY.MM.DD
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			YY.MM.DD

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PLAN OF AS-BUILT DRAWING

Contractor: SANAQATIIT CONSTRUCTION

Construction Certification Date: MARCH 12, 20

Client/Project
Government of Nunavut

POTABLE WATER SYSTEM
PHASE 1
Cambridge Bay, NU

Title
SKID ,SUBFLOOR LAYOUT

AND DETAILS

Project No.	Scale
144901252	AS NOTED

Drawing No.	Sheet	Revision
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S-501 1 of 6 0



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Structural

Walter Orr P.Eng.

Legend

Notes

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50%SUB.	J.D.	W.O.	12.01.18
Issued	By	Appd.	YY.MM.DD
File Name:			
	Dwn.	Chkd.	Dsgn.
Permit-Seal			YY.MM.DD

PLAN OF AS-BUILT DRAWING

Contractor: SANAQATIIH CONSTRUCTION
Construction Certification Date: MARCH 12, 2015

Client/Project

Government of Nunavut

POTABLE WATER SYSTEM
PHASE 1

Cambridge Bay, NU

Title

STRUCTURAL DETAILS

Project No.

144901252

Scale

AS NOTED

Drawing No.

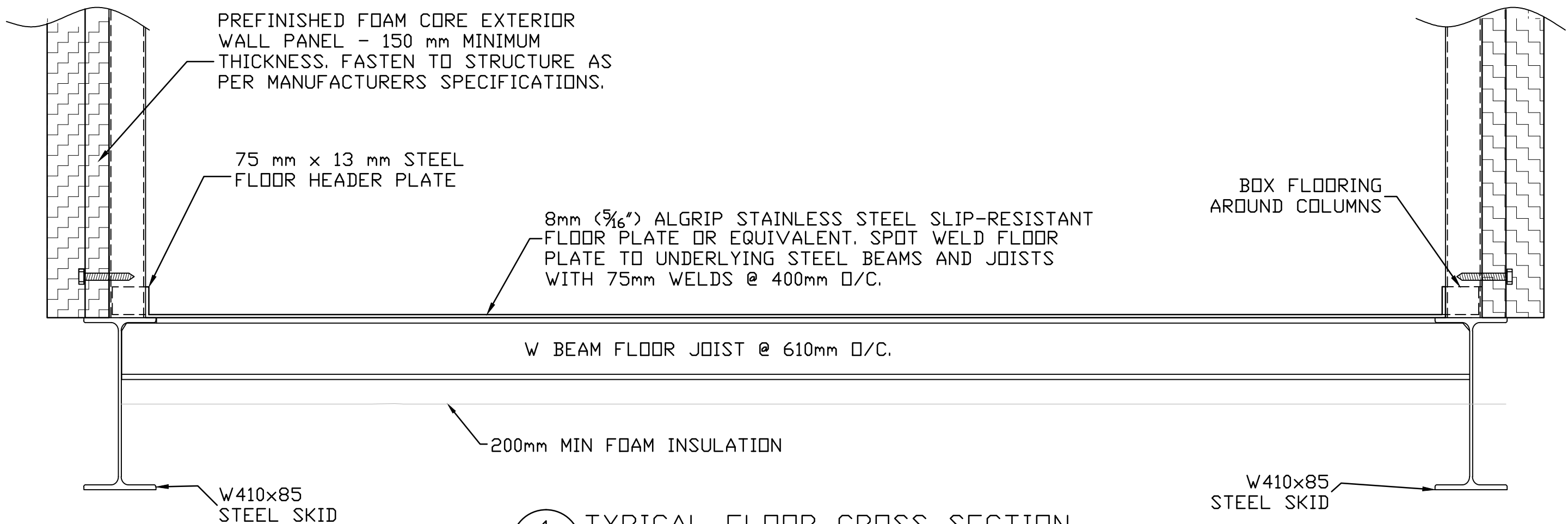
S-502

Sheet

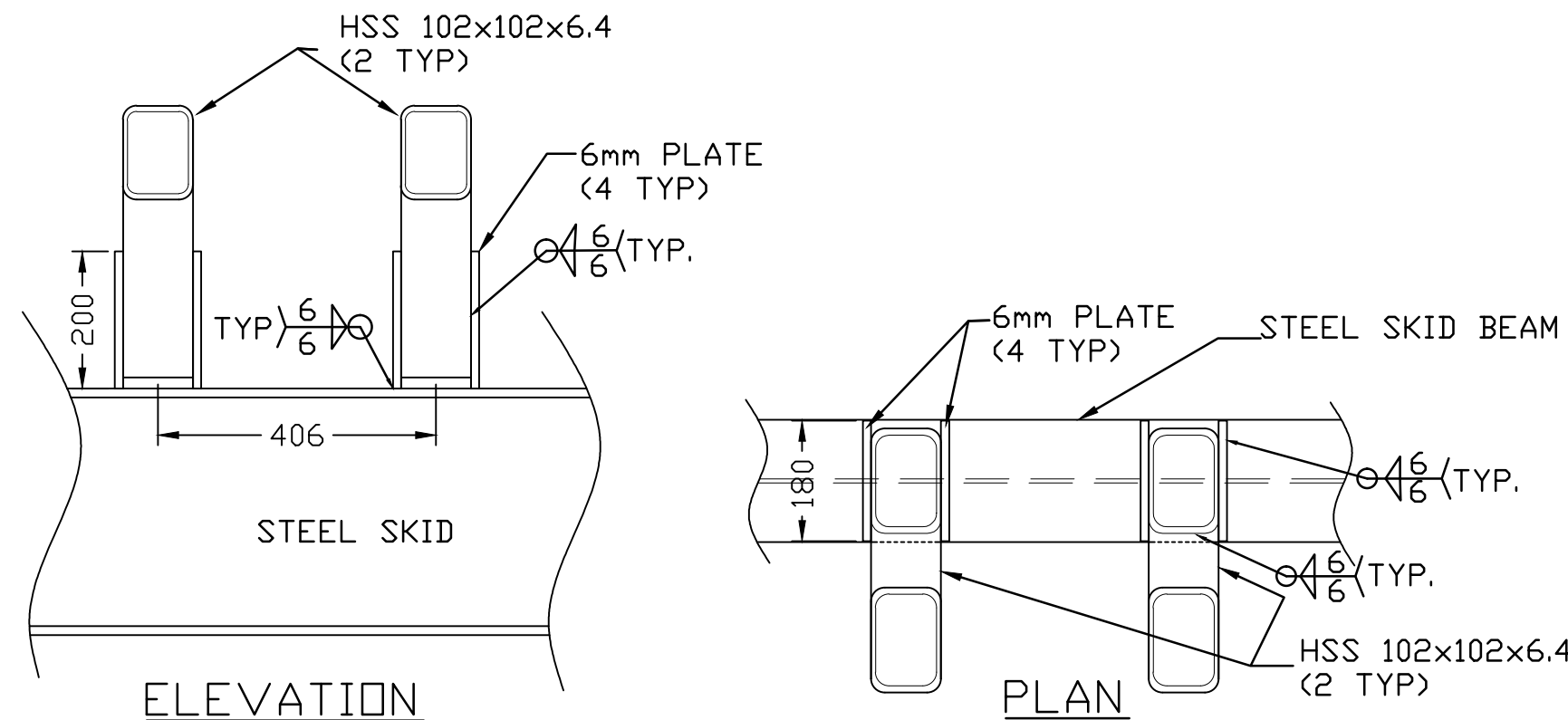
2 of 6

Revision

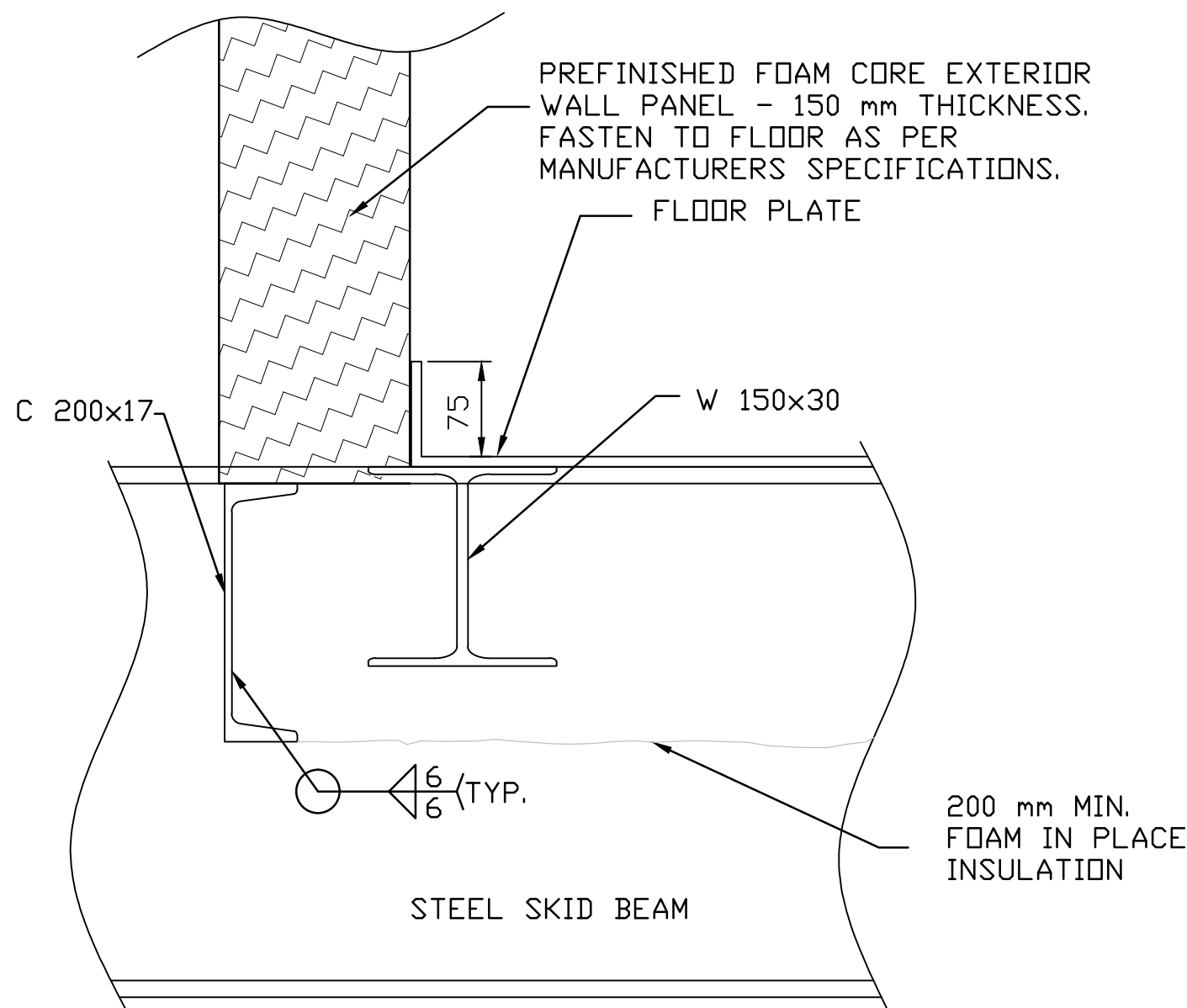
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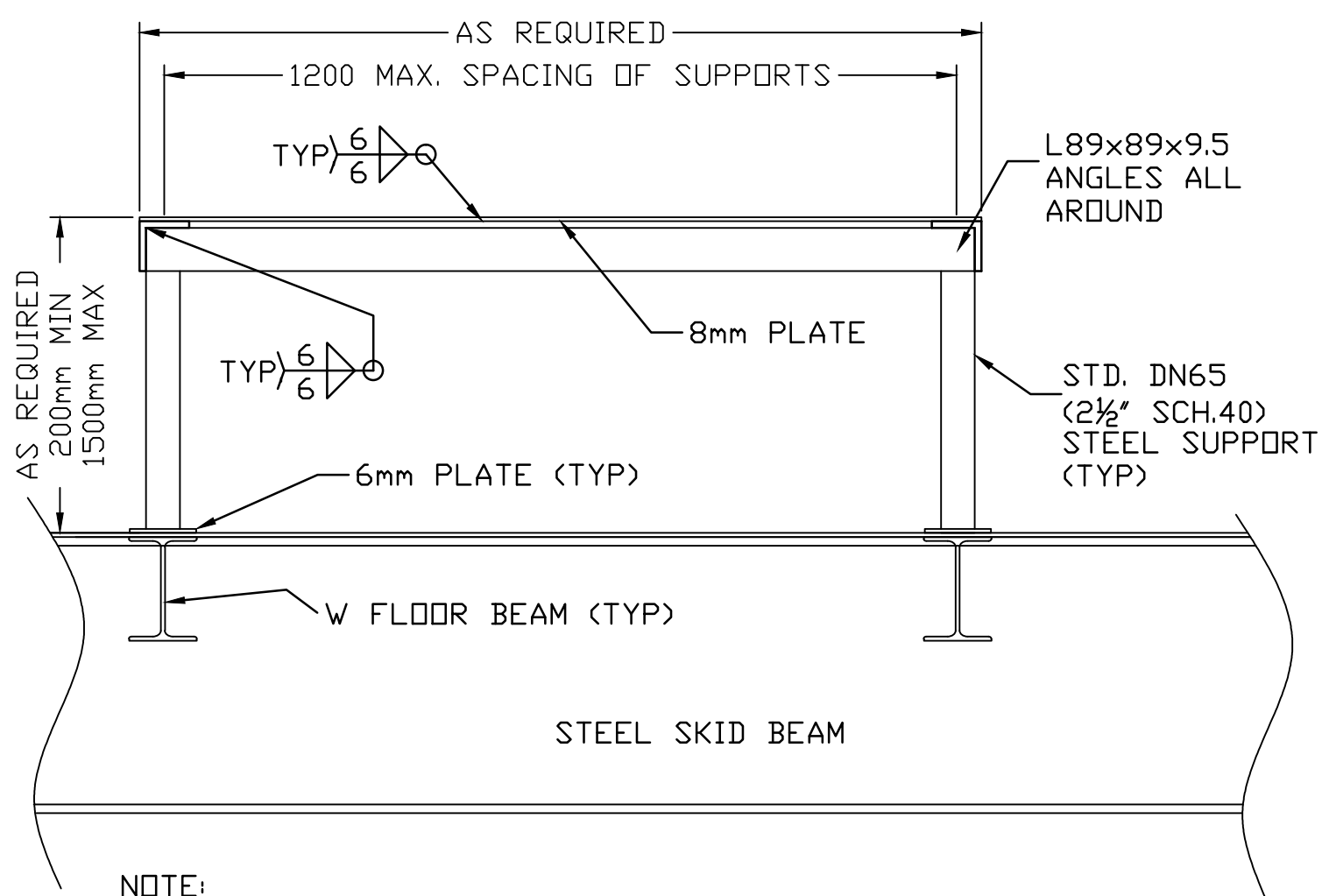
1 TYPICAL FLOOR CROSS SECTION
SCALE 1:10



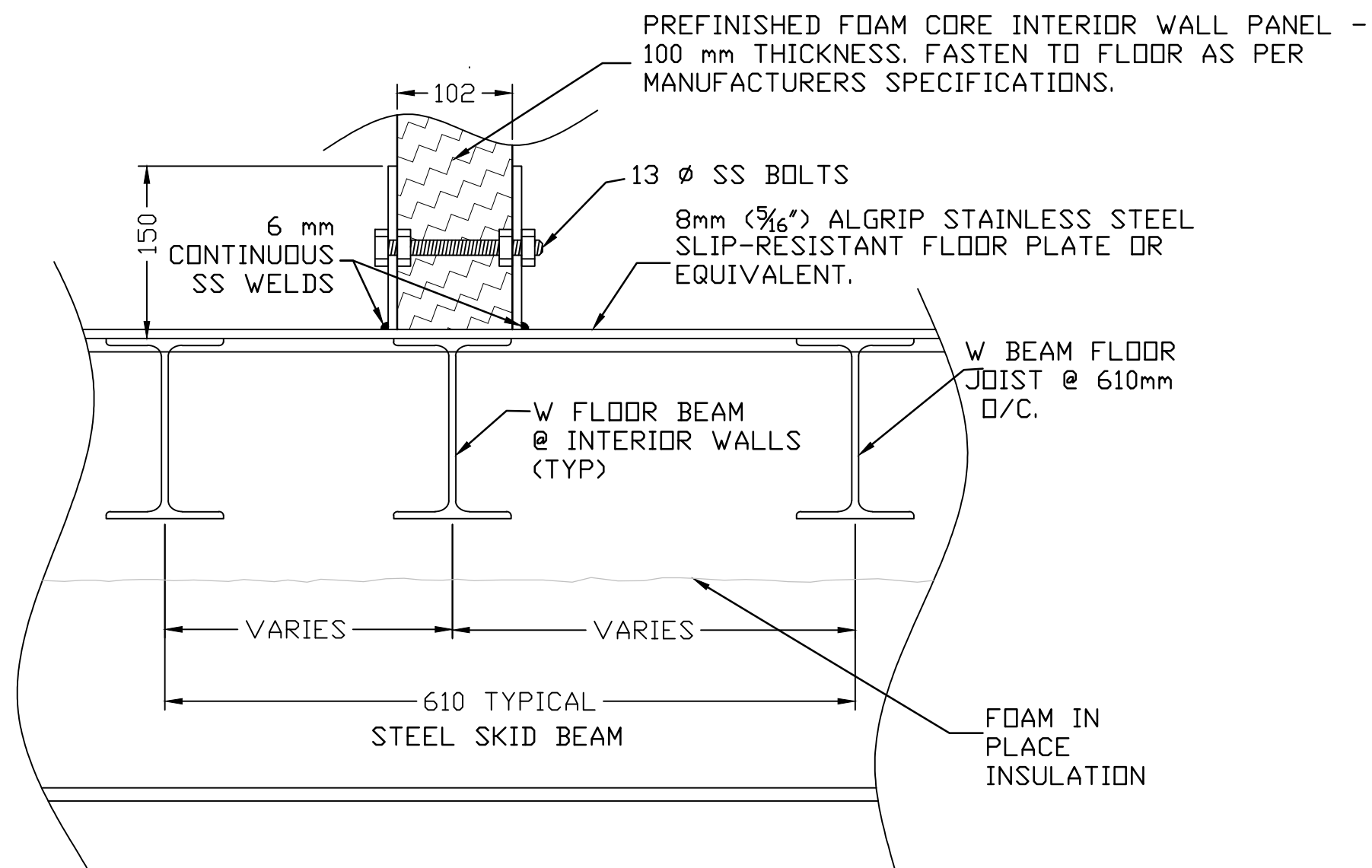
2 SKID/TRUCKFILL ARM STRUT CONNECTION
SCALE 1:10



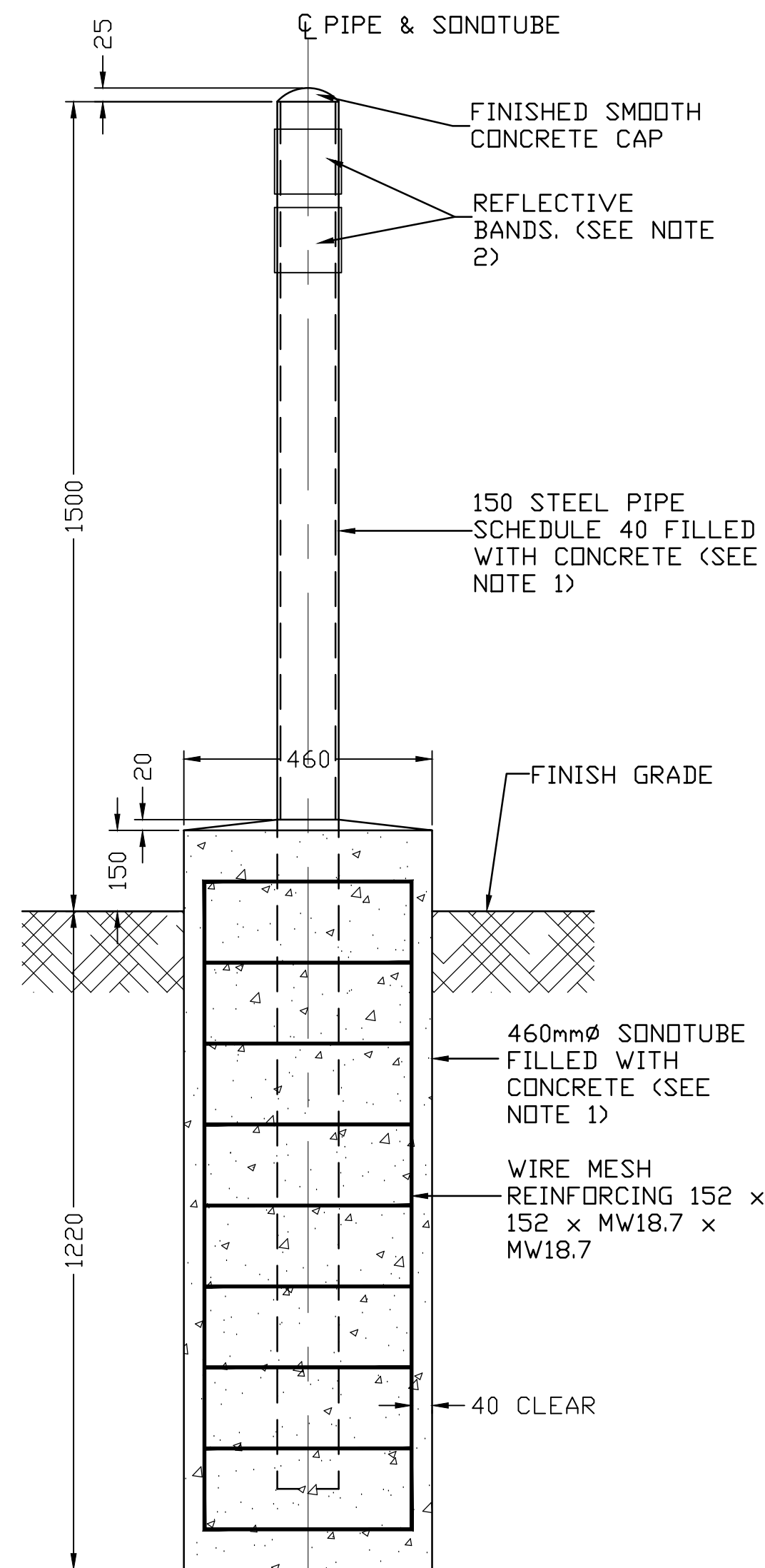
4 TYPICAL EXTERIOR END WALL SECTION
SCALE 1:5



3 TYPICAL EQUIPMENT STAND
SCALE 1:10



5 TYPICAL INTERIOR WALL SECTION
SCALE 1:5



NOTES:
1. ALL CONCRETE SHALL HAVE 28 DAY COMPRESSIVE STRENGTH OF 25 MPa. SLUMP OF 75 mm +/- 10%, AIR ENTRANCE 5-7% AND MAXIMUM AGGREGATE SIZE OF 20mm. CONCRETE QUALITY CONTROL TESTING MUST BE COMPLETED BY QUALIFIED PERSONNEL AND REPORTS TO BE SUBMITTED TO THE ENGINEER.
2. BOLLARD TO BE PAINTED YELLOW WITH REFLECTIVE BANDS.

6 TYPICAL BOLLARD DETAIL
SCALE 1:10



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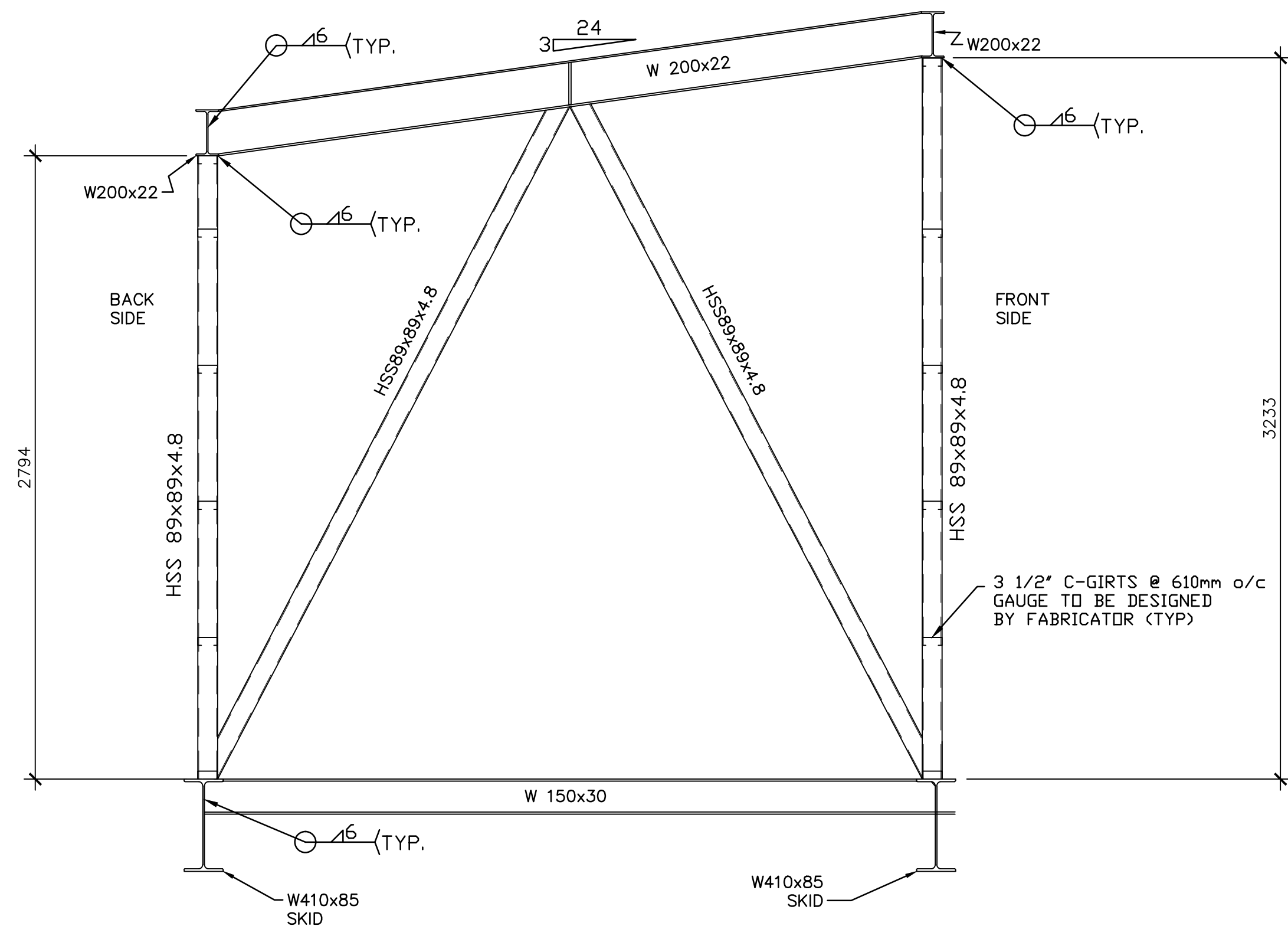
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Structura

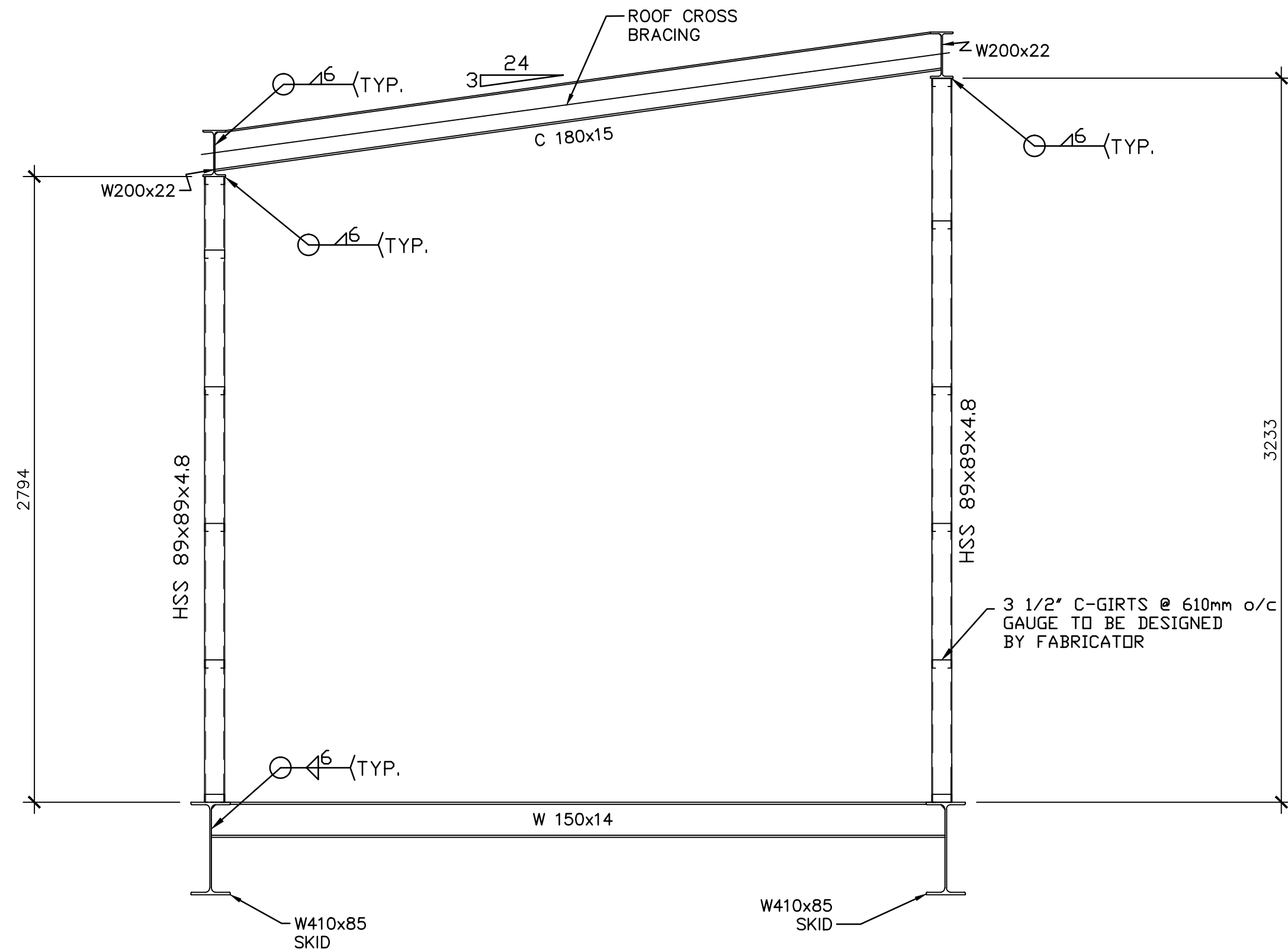
Walter Orr P.Eng.

Legend

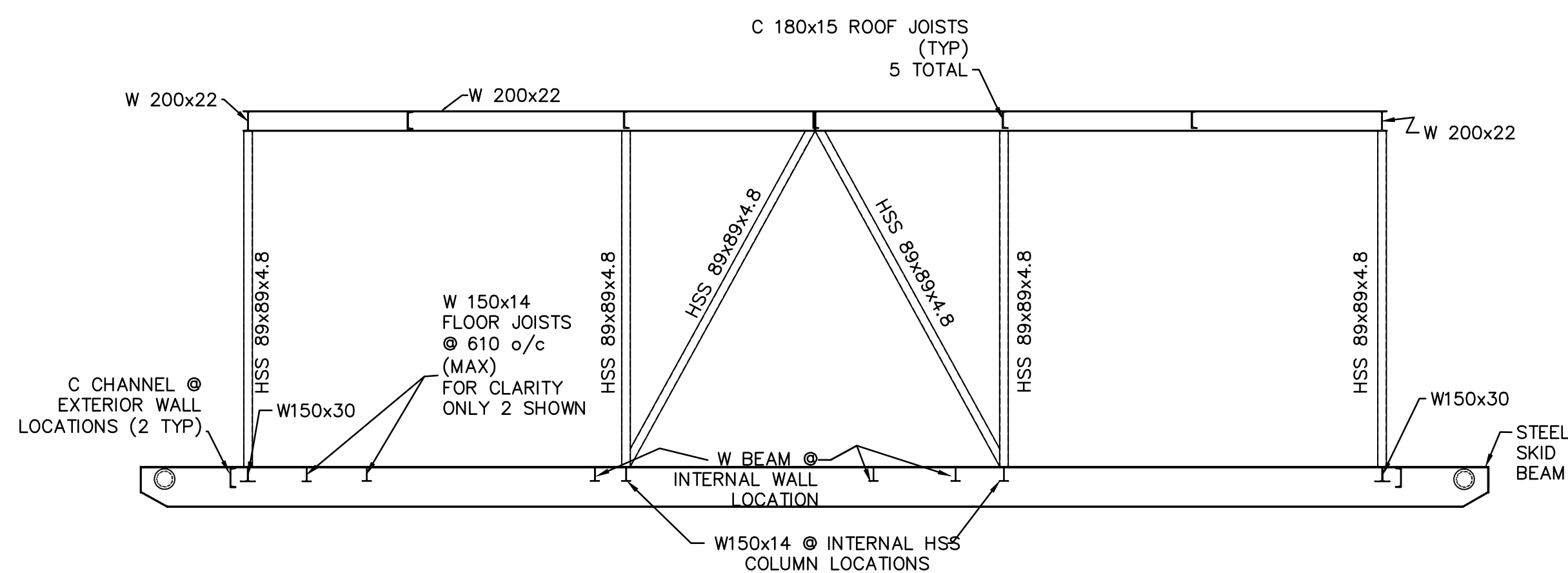
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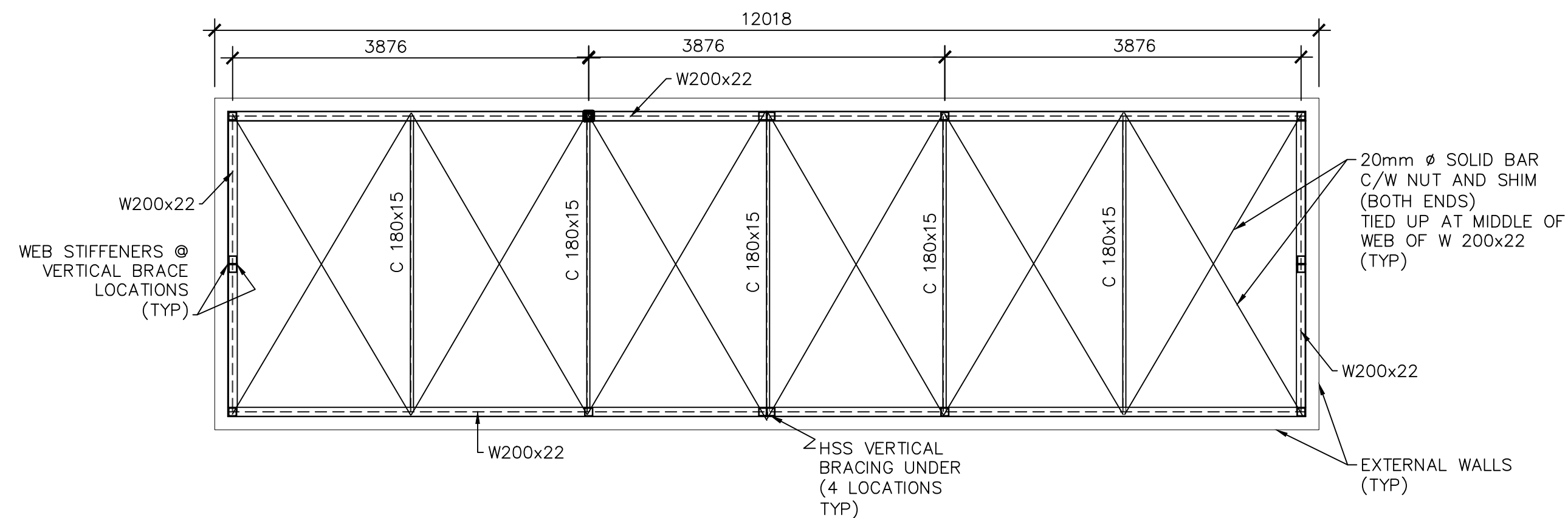
1 EXTERIOR FRAME SECTION
S503 SCALE 1:20



2 INTERIOR FRAME SECTION
S503 SCALE 1:20



FRONT ELEVATION
(BACK ELEVATION IS SIMILAR)
3
S503 SCALE 1:50



4 ROOF BRACING ASSEMBLY

S503 SCALE 1:50

NOTE:
ALL DIMENSIONS ARE APPROXIMATE.
FOR CORRECT BUILDING SIZE SEE
ARCHITECTURAL DRAWINGS.

ISSUED FOR TENDER	K.K.	W.O.	12.03.30
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50%SUB.	J.D.	W.O.	12.01.18
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	Dwn.	Chkd.	Dsgn.
			YY.MM.DD

PLAN OF AS-BUILT DRAWING

Contractor: SANAQATIIT CONSTRUCTION
Construction Certification Date: MARCH 12, 20

Client/Project

Government of Nunavut

POTABLE WATER SYSTEM PHASE 1

Cambridge Bay, NU

Title

STRUCTURAL SECTIONS

Project No. _____

144901252

Scal

AS NOTED

Drawing No

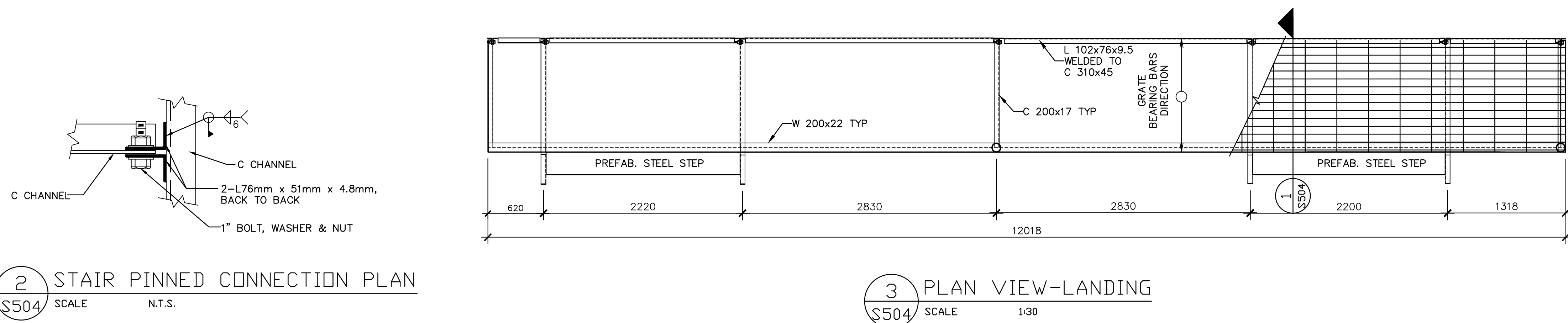
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Revision

S-503

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Legend

Notes

R1 ROOF (152 MM, RSI 8.13 / R-46)
152 MM THICK PRE-FINISHED INSULATED METAL ROOF PANEL, PROFILE & CONFIGURATION AS PER EXTERIOR ELEVATIONS, COLOUR; AS PER OWNER MECHANICAL FASTENERS AS PER MANUFACTURER'S SPECIFICATIONS TO STEEL SUPPORT FRAMES AS PER STRUCTURAL DRAWINGS

EW1 EXTERIOR WALL (152 MM, RSI 8.13 / R-46)
152 MM THICK PRE-FINISHED INSULATED METAL WALL PANEL, PROFILE & CONFIGURATION AS PER EXTERIOR ELEVATIONS, COLOUR; AS PER OWNER MECHANICAL FASTENERS AS PER MANUFACTURER'S SPECIFICATIONS TO STEEL SUPPORT FRAMES AS PER STRUCTURAL DRAWINGS

F1 MAIN FLOOR - NONCOMBUSTIBLE CONSTRUCTION (230 MM, RSI 8.45 / R-48)
 8 MM STAINLESS STEEL SLIP RESISTANT FLOOR PLATE, ALL SEAMS WELDED W/150x JOISTS @ 610 MM O.C. WELDED TO STEEL BEAMS AS PER STRUCTURAL DRAWINGS.
 203 MM POLYURETHANE SPRAY FOAMED REQUIRED FOR TOTAL FLOOR SYSTEM, DEPTH OF 230mm
 SPUN OLEFIN WEATHER BARRIER
 19 MM PRE-FINISHED METAL CLADDING SOFFIT LINER PANEL, MECHANICAL FASTENED AS PER MANUFACTURER

1. REFER TO FLOOR PLANS FOR PARTITION LOCATIONS.
2. ALL STEEL STUD PARTITIONS TO HAVE MID-HEIGHT CONTINUOUS BRIDGING CHANNEL C/W BRIDGING ANGLE CLIP.
3. LOCATE CONTROL JOINTS AT 10M O.C. ON 1500 MODULE OR ABOVE DOOR FRAME CORNER WHEREVER POSSIBLE.
4. PARTITIONS NOT SPECIFICALLY DESIGNATED SHALL BE CONSIDERED TO BE CONSTRUCTED AS A GW1 WALL ASSEMBLY AND EXTEND 150 MM ABOVE FINISHED CEILING
5. ACOUSTICALLY SEAL PERIPHERY OF WALL AND ALL PENETRATIONS AIRTIGHT.

GW1 (89 MM)
89mm THICK PRE-FINISHED PRE-INSULATED METAL WALL PANEL. COLOUR WHITE. MECHANICAL FASTENERS AS PER MANUFACTURER'S SPECIFICATIONS TO STEEL SUPPORT FRAMES AS PER STRUCTURAL DRAWINGS.

File Name:				
	Dwn.	Chkd.	Dsgn.	YY.MM.DD
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Contractor: SANAQATIIT CONSTRUCTION
Construction Certification Date: MARCH 12, 2015

Title
FLOOR PLAN, ASSEMBLIES,
AND SCHEDULES

Project No. 1449-01252	Scale NTS	
Drawing No. A-101	Sheet 1 of 3	Revision 0



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Legend

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Issued	By	Appd.	YY.MM.DD

File Name:	Dwn.	Chkd.	Dsgn.	YY.MM.DD
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PLAN OF AS-BUILT DRAWING

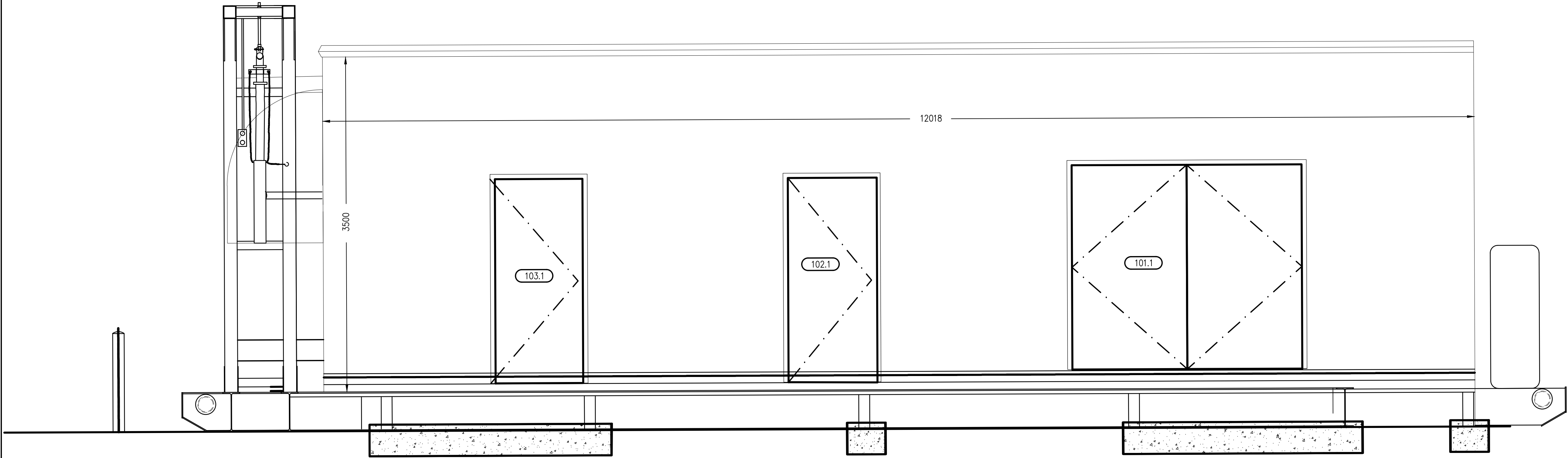
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Client/Project
GOVERNMENT OF NUNAVUT

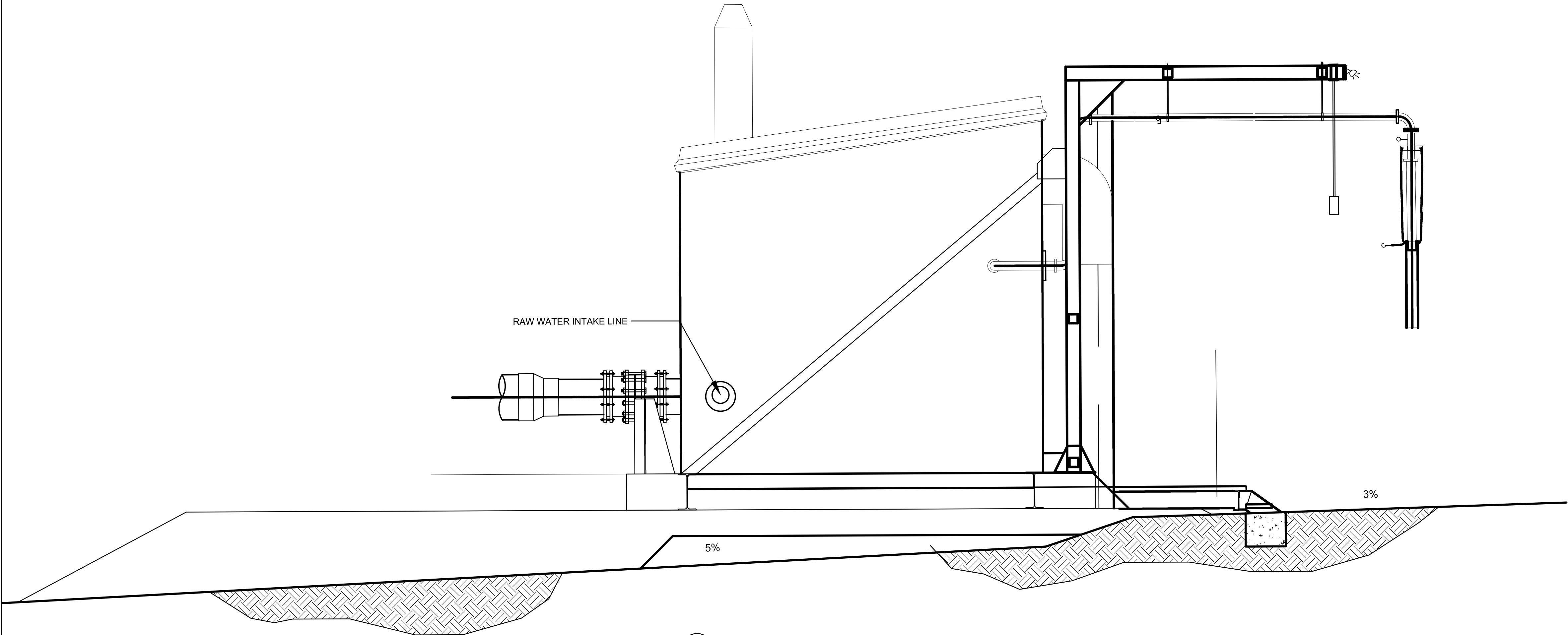
POTABLE WATER SYSTEM
PHASE I
Cambridge Bay, NU

Title
BUILDING ELEVATIONS

Project No. 1449-01252	Scale AS SHOWN	Revision 0
Drawing No. A-201	Sheet 2 of 3	



1 FRONT ELEVATION
A201 SCALE 1:25

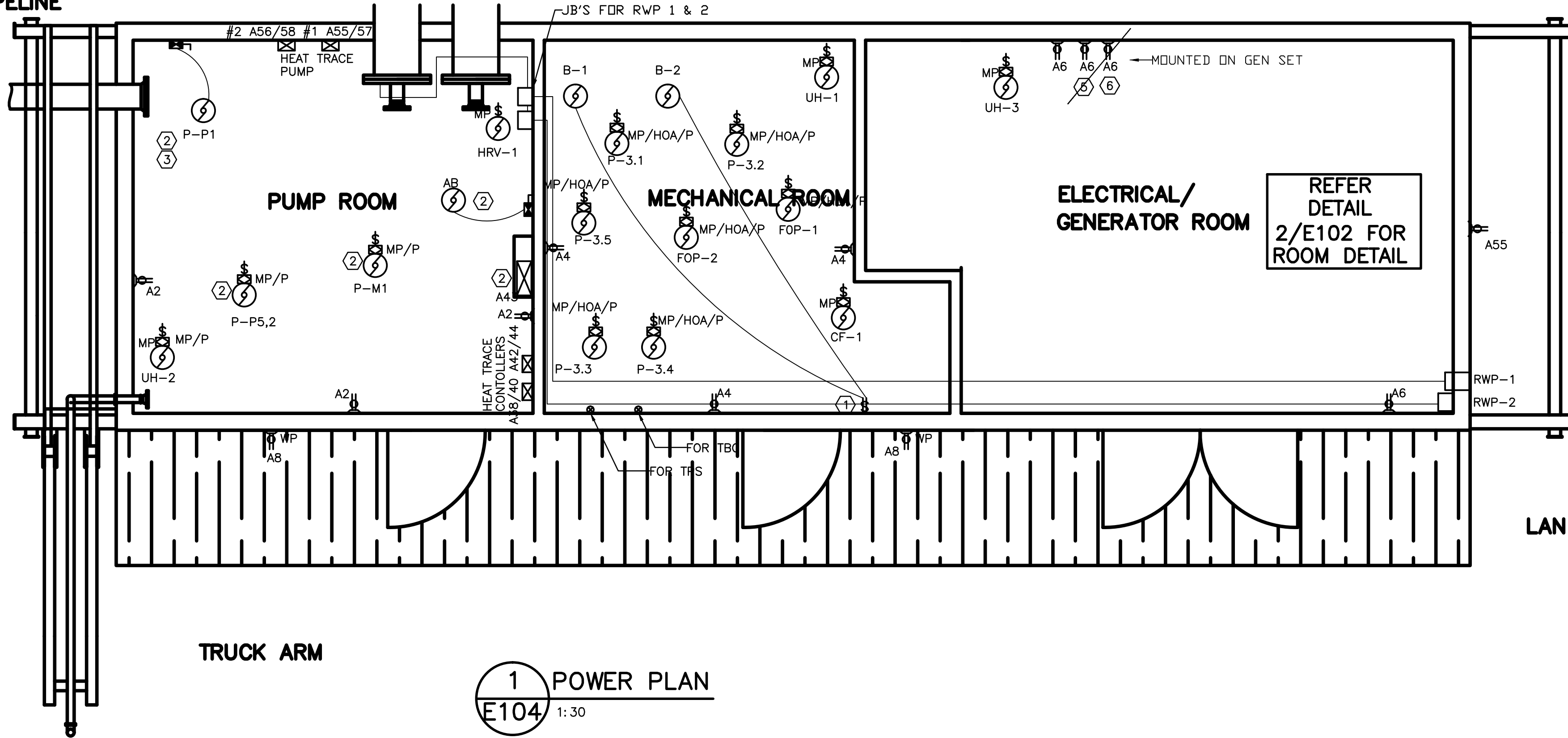


1 SIDE ELEVATION
A201 SCALE 1:25



V:\1449\1449-0150\1449-0150.dwg
2016/03/18 1:38 PM By: [Name]
2016/03/18 1:38 PM By: [Name]

ATED RAW
PIPELINE



MECHANICAL MOTOR LIST

MOTOR	DESCRIPTION	LOCATION	H.P.	VOLTS	PHASE	FLA	BRANCH CIRCUIT	BREAKER	SOURCE	CONTROL
B-1	HW BOILER	MECH RM	0.235	120	1	5.8	2CON #12 CU RW90-XLPE, 1 #12 CU GND, IN 16 MM C	15	A9	LRD
B-2	HW BOILER	MECH RM	0.235	120	1	5.8	2CON #12 CU RW90-XLPE, 1 #12 CU GND, IN 16 MM C	15	A11	LRD
HRV-1	HEAT RECOVERY VENTILATOR	MECH RM	0.446	120	1	9.8	2CON #10 CU RW90-XLPE, 1 #12 CU GND, IN 16 MM C	25	A13	MMP/P
P-3.1	PRIMARY HW CIRC. PUMP	MECH RM	0.25	120	1	5.8	2CON #12 CU RW90-XLPE, 1 #12 CU GND, IN 16 MM C	15	A12	MMP/HOA/R/P NOTE D
P-3.2	PRIMARY HW CIRC. PUMP	MECH RM	0.25	120	1	5.8	2CON #12 CU RW90-XLPE, 1 #12 CU GND, IN 16 MM C	15	A14	MMP/HOA/R/P NOTE D
P-3.3	SECONDARY HE CIRC. PUMP	MECH RM	0.64	120	1	12.2	2CON #10 CU RW90-XLPE, 1 #12 CU GND, IN 16 MM C	15	A16	MMP/HOA/R/P NOTE D
P-3.4	SECONDARY HE CIRC. PUMP	MECH RM	0.64	120	1	12.2	2CON #10 CU RW90-XLPE, 1 #12 CU GND, IN 16 MM C	15	A18	MMP/HOA/R/P NOTE D
P-3.5	HW MAKE-UP PUMP	MECH RM	FRACT	120	1	-	2CON #12 CU RW90-XLPE, 1 #12 CU GND, IN 16 MM C	15	A20	MMP/HOA/R/P
FOP-1	FUEL OIL PIMP	MECH RM	0.500	120	1	9.8	2CON #10 CU RW90-XLPE, 1 #12 CU GND, IN 16 MM C	15	A33	MMP/HOA/R/P
FOP-2	FUEL OIL PIMP	MECH RM	0.500	120	1	9.8	2CON #10 CU RW90-XLPE, 1 #12 CU GND, IN 16 MM C	15	A35	MMP/HOA/R/P
UH-1	UNIT HEATER	MECH RM	FRACT	120	1	-	2CON #12 CU RW90-XLPE, 1 #12 CU GND, IN 16 MM C	15	A15	MMP/R/P NOTE D
UH-2	UNIT HEATER	PUMP RM	FRACT	120	1	-	2CON #12 CU RW90-XLPE, 1 #12 CU GND, IN 16 MM C	15	A17	MMP/R/P NOTE D
UH-3	UNIT HEATER	ELEC RM	FRACT	120	1	-	2CON #12 CU RW90-XLPE, 1 #12 CU GND, IN 16 MM C	15	A19	MMP/R/P NOTE D
CF-1	COOLING FAN	MECH RM	FRACT	120	1	-	2CON #12 CU RW90-XLPE, 1 #12 CU GND, IN 16 MM C	15	A29	MMP/R/P NOTE D
MAS	MECHANICAL ALARM STROBE	MECH RM	FRACT	120	1	-	2CON #12 CU RW90-XLPE, 1 #12 CU GND, IN 16 MM C	15	A36	BY DIVISION 23
		MECH RM	FRACT	120	1	-	2CON #12 CU RW90-XLPE, 1 #12 CU GND, IN 16 MM C	15	A23	NOTE E
		MECH RM	FRACT	120	1	-	2CON #12 CU RW90-XLPE, 1 #12 CU GND, IN 16 MM C	15	A25	NOTE E
	MISCELLANEOUS 24V LOADS	GENERATOR RM	FRACT	120	1	-	2CON #12 CU RW90-XLPE, 1 #12 CU GND, IN 16 MM C	15	A27	MMP/R/P

PROCESS MOTOR LIST

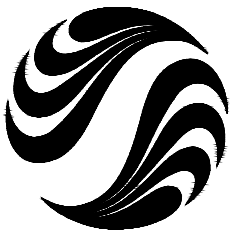
MOTOR	DESCRIPTION	LOCATION	H.P.	VOLTS	PHASE	FLA	BRANCH CIRCUIT	BREAKER	SOURCE	CONTROL
RWP-1	RAW WATER PUMP -1	END OF INTAKE LINE	15	208	3	46.2	SEE SINGLE LINE	110	A50,52,54	CMS/GF NOTE F
RWP-2	RAW WATER PUMP -2	END OF INTAKE LINE	15	208	3	46.2	SEE SINGLE LINE	110	A49,51,53	CMS/GF NOTE F
		PROCESS ROOM	5	208	3	16.72	SEE SINGLE LINE	40		
P-P1	PUMP 1 RECIRC	PROCESS ROOM	0.5	208	3	2.2	3CON #12 CU RW90-XLPE, 1 #12 CU GND, IN 16 MM C	15	A26,28,30	CMS
P-P5,2	CHLORINATION PUMP	PROCESS ROOM	0.2	120	1	-	2CON #12 CU RW90-XLPE, 1 #12 CU GND, IN 16 MM C	15	A24	MMP/R/P
P-M1	CHLORINE MIXING MOTOR	PROCESS ROOM	FRACT	120	1	-	2CON #12 CU RW90-XLPE, 1 #12 CU GND, IN 16 MM C	15	A22	MMP/R/P

NOTES:

- MOTOR SCHEDULE IS FOR ESTIMATING PURPOSES ONLY. CONFIRM ALL MOTOR FULL LOAD CURRENTS WITH NAMEPLATES AND SIZE MOTOR DISCONNECTS, BREAKERS, FEEDERS AND OVERLOADS ACCORDINGLY.
- CONFIRM MECHANICAL EQUIPMENT LOCATIONS WITH DIVISION 23.
- COORDINATE THE LOCATIONS OF ALL LINE VOLTAGE PILOT DEVICES WITH DIVISION 23 AND PROVIDE CONDUIT AND WIRING AS NECESSARY
- PROVIDE RACEWAY AND WIRING FROM LINE-VOLTAGE THERMOSTAT PROVIDED BY DIV-23 TO THE UNIT.
- EQUIPMENT WITH HARDWIRE CONNECTION.
- PROVIDE RACEWAY, WIRING AND ACCESSORIES BETWEEN RWP-1 AND RWP-2 FOR INTERLOCK. ONE PUMP RUNNING AT A TIME.

CONTROL DEVICE LEGEND

- LRD - LOAD RATED DISCONNECT
MAG - MAGNETIC STARTER
CMS - MAGNETIC STARTER WITH DISCONNECT
MMP - MANUAL MOTOR PROTECTION
/R - WITH LOAD RATED RELAY
/HOA - WITH H-O-A SWITCH
/K - KEYED
/P - PILOT LIGHT
/SS - SOFT START
/GF - GROUND FAULT DETECTION



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Consultants

Legend

Notes

Revision	By	Appd.	YY.MM.DD
ISSUED FOR AS-BUILT	KK	WO	16.03.16
ISSUED FOR CONSTRUCTION	NJB		24.08.12
TENDER SUBMISSION	NJB		12.04.12
Issued	By	Appd.	YY.MM.DD

File Name:			
	Dwn.	Chkd.	Dsgn.
Permit-Seal			YY.MM.DD

PLAN OF AS-BUILT DRAWING

Contractor: SANAQATIT CONSTRUCTION
Construction Certification Date: MARCH 12, 2015

Client/Project

GOVERNMENT OF NUNAVUT

POTABLE WATER SYSTEM
PHASE I

Cambridge Bay, NU

Title

POWER FLOOR PLAN
AND MOTOR SCHEDULE

Project No. 1449-01252	Scale
Drawing No.	Sheet
	Revision

E104

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