

NORTH POINT

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- This drawing is specific to the job outlined in the title box below.

STAGE ABBREVIATIONS:

CD- Concept Design, PP-Preplanning, PA-Planning Application, FI-Further Information, AP-Appeal, RC-Response To Conditions, TE-Tender, FC-Fire Cert/, LC-Contract / Legal, CO-Construction, AB-As Built.

A1

4m WIDE HARDSTAND ACCESS FROM ELM GROVE TO PUMP STATION

FW MH 12
CL 48.60
IL 46.107

FW MH 11
CL 48.70
IL 46.212

FW MH 10
CL 49.25
IL 46.487

FW MH 10a
CL 49.50
IL 46.500

FW MH 1.04
CL 50.50
IL 46.827 (TBC)

PUBLIN ROAD

PIKE ROAD

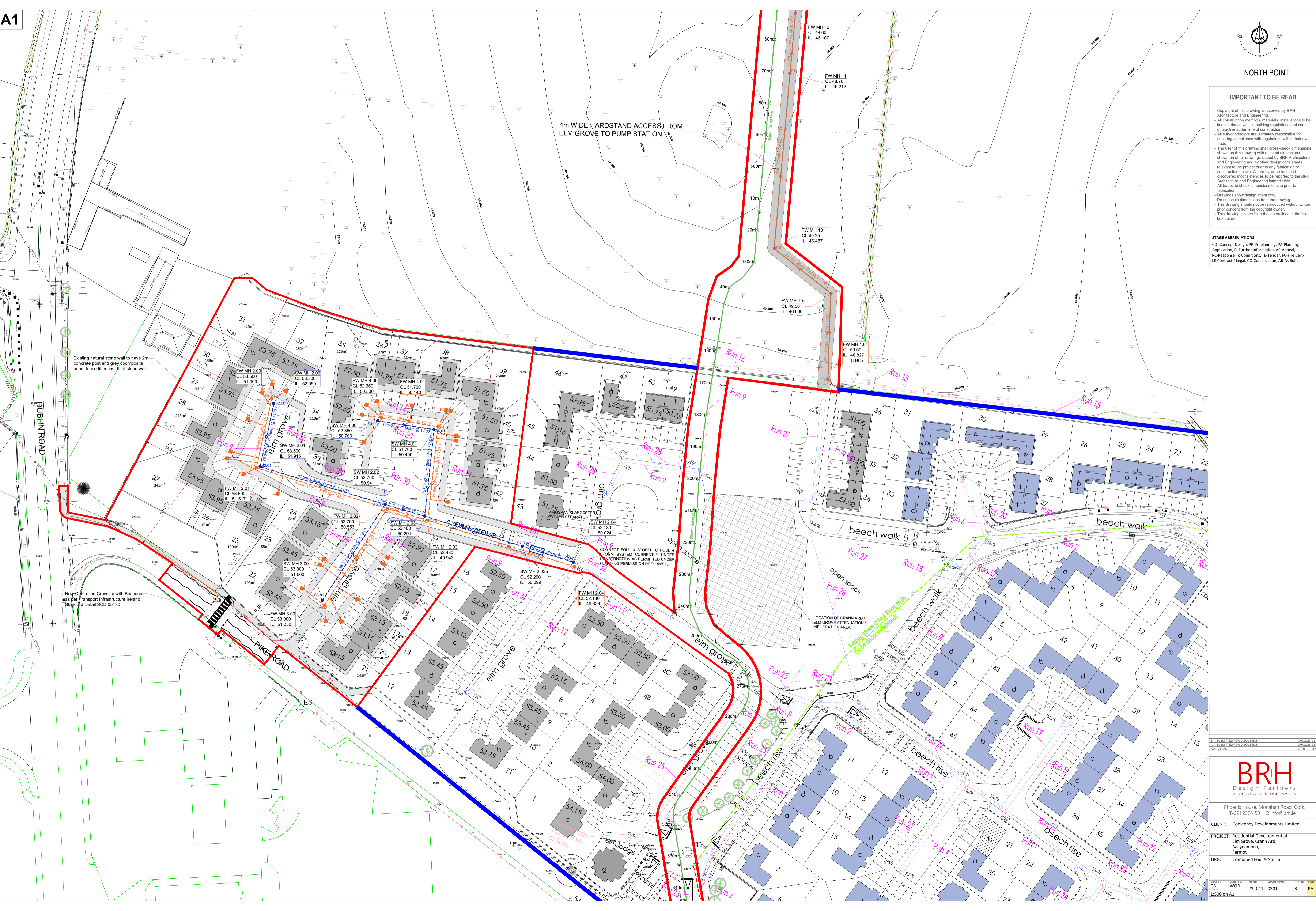
Existing natural stone wall to have 2m concrete post and grey / composite panel fence fitted inside of stone wall

New Controlled Crossing with Beacons as per Transport Infrastructure Ireland Standard Detail SCD 05130

CONNECT FOU & STORM TO FOU & STORM SYSTEM CURRENTLY UNDER CONSTRUCTION AS PERMITTED UNDER PLANNING PERMISSION REF: 15/9973

LOCATION OF CRANN ARD / ELM GROVE ATTENUATION / INFILTRATION AREA

Existing 50mm Ø Poul Ringe Main (to be decommissioned)



CD	14/19/2023/CD	14/19/2023/CD
PP	14/19/2023/PP	14/19/2023/PP
PA	14/19/2023/PA	14/19/2023/PA
FI	14/19/2023/FI	14/19/2023/FI
AP	14/19/2023/AP	14/19/2023/AP
RC	14/19/2023/RC	14/19/2023/RC
TE	14/19/2023/TE	14/19/2023/TE
FC	14/19/2023/FC	14/19/2023/FC
LC	14/19/2023/LC	14/19/2023/LC
CO	14/19/2023/CO	14/19/2023/CO
AB	14/19/2023/AB	14/19/2023/AB

BRH
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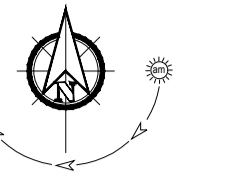
Phoenix House, Monahan Road, Cork.
T-021 2376150 E: info@brh.ie

CLIENT: Cooleeney Developments Limited

PROJECT: Residential Development at Elm Grove, Crann Ard, Ballynamona, Fermoy

DRG: Combined Foul & Storm

CD	WOR	23_041	0301	B	PA
Scale:	1:500 on A1				



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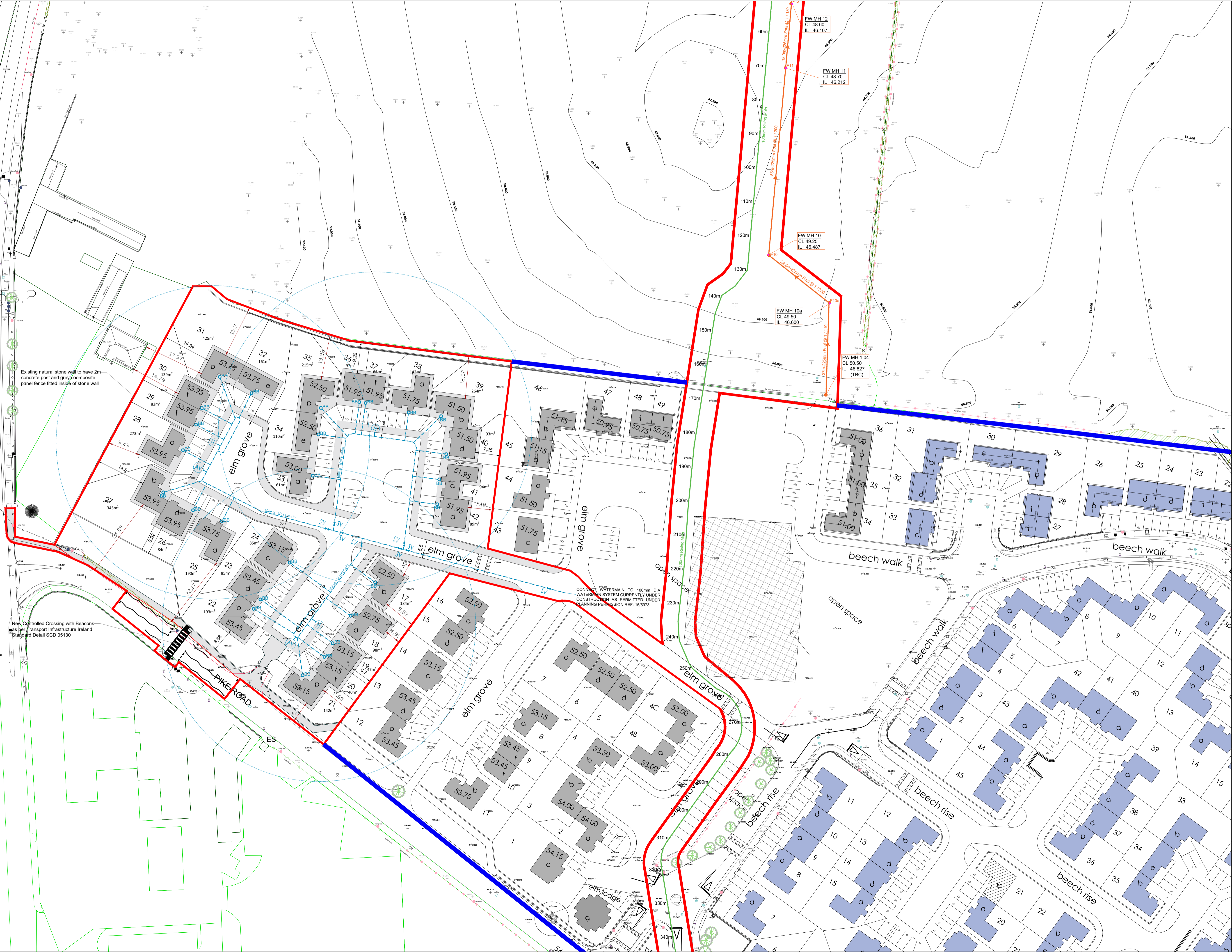
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A1

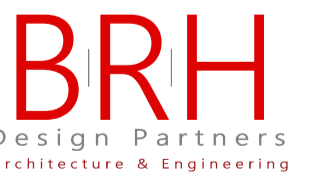


Existing natural stone wall to have 2m concrete post and grey/composite panel fence fitted inside of stone wall

New Controlled Crossing with Beacons as per Transport Infrastructure Ireland Standard Detail SCD 05130

CONNECT WATERMAIN TO 100mm DIA WATERMAIN SYSTEM CURRENTLY UNDER CONSTRUCTION AS PERMITTED UNDER PLANNING PERMISSION REF: 16/09973

B. SUBMITTED FOR DISCUSSION	11/09/2023/CE
A. SUBMITTED FOR DISCUSSION	10/07/2023/CE
REV. DETAIL	DATE - EPC



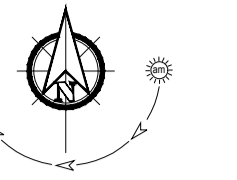
Phoenix House, Monahan Road, Cork.
T-021 2376150 E: info@brh.ie

CLIENT: Cooleeny Developments Limited

PROJECT: Residential Development at Elm Grove, Crann Ard, Ballynamona, Fermoy

DRG: Watermain Layout

CD	WOR	23_041	0302	B	PA
1:500 on A1					



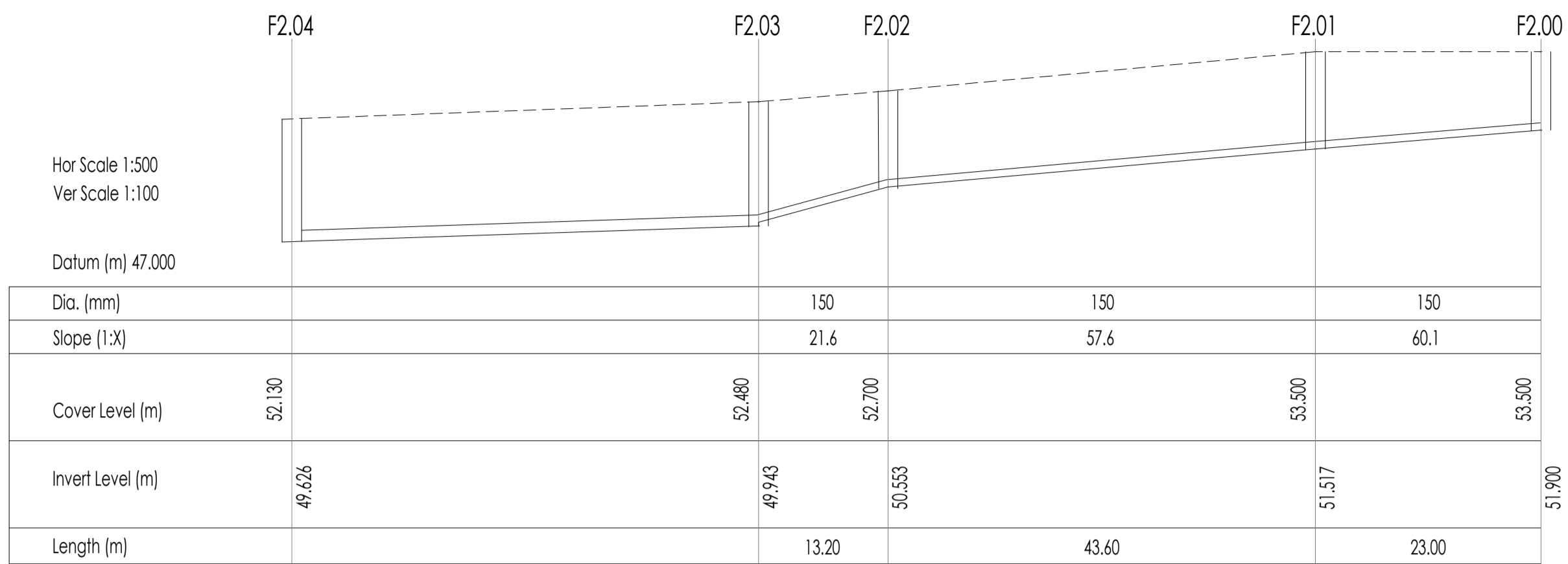
NORTH POINT

IMPORTANT TO BE READ

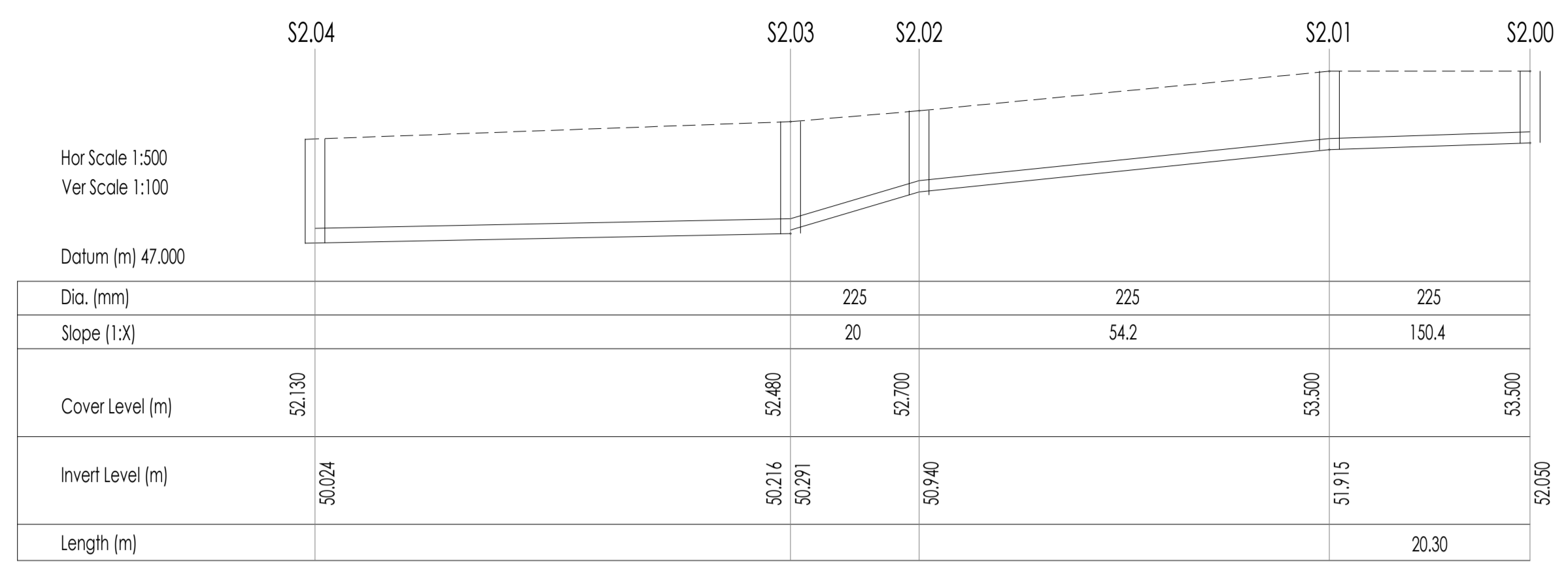
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STAGE ABBREVIATIONS:

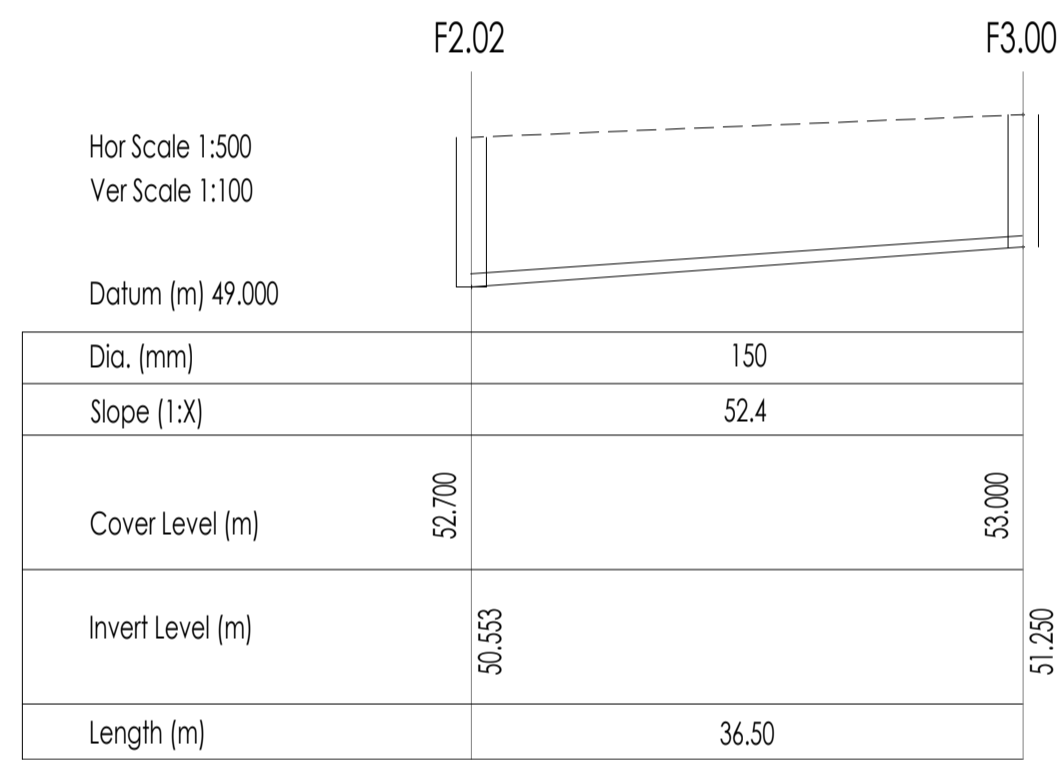
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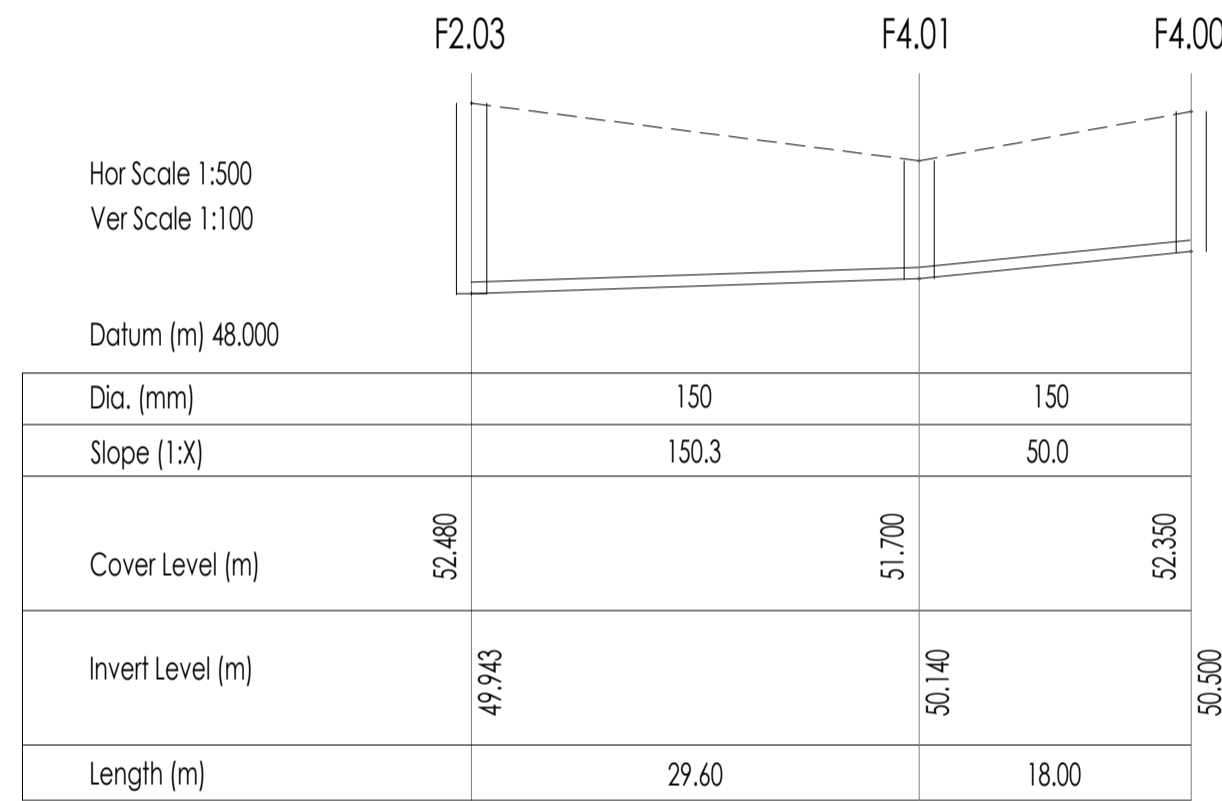
Run 9 - Foul



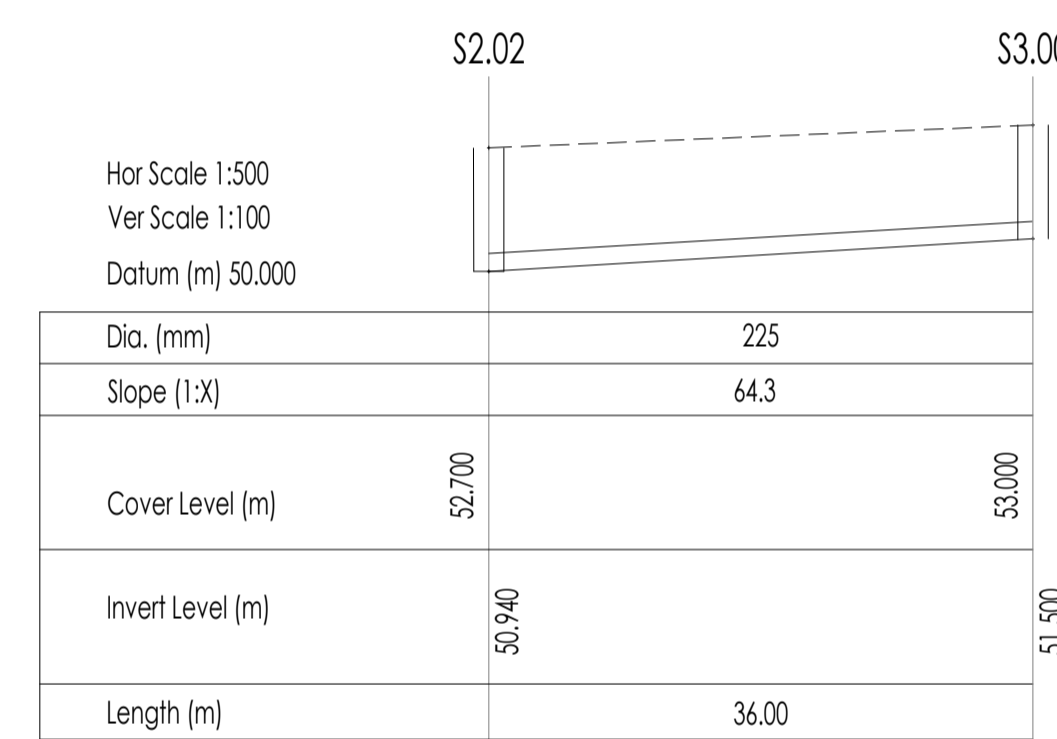
Run 28 - Storm



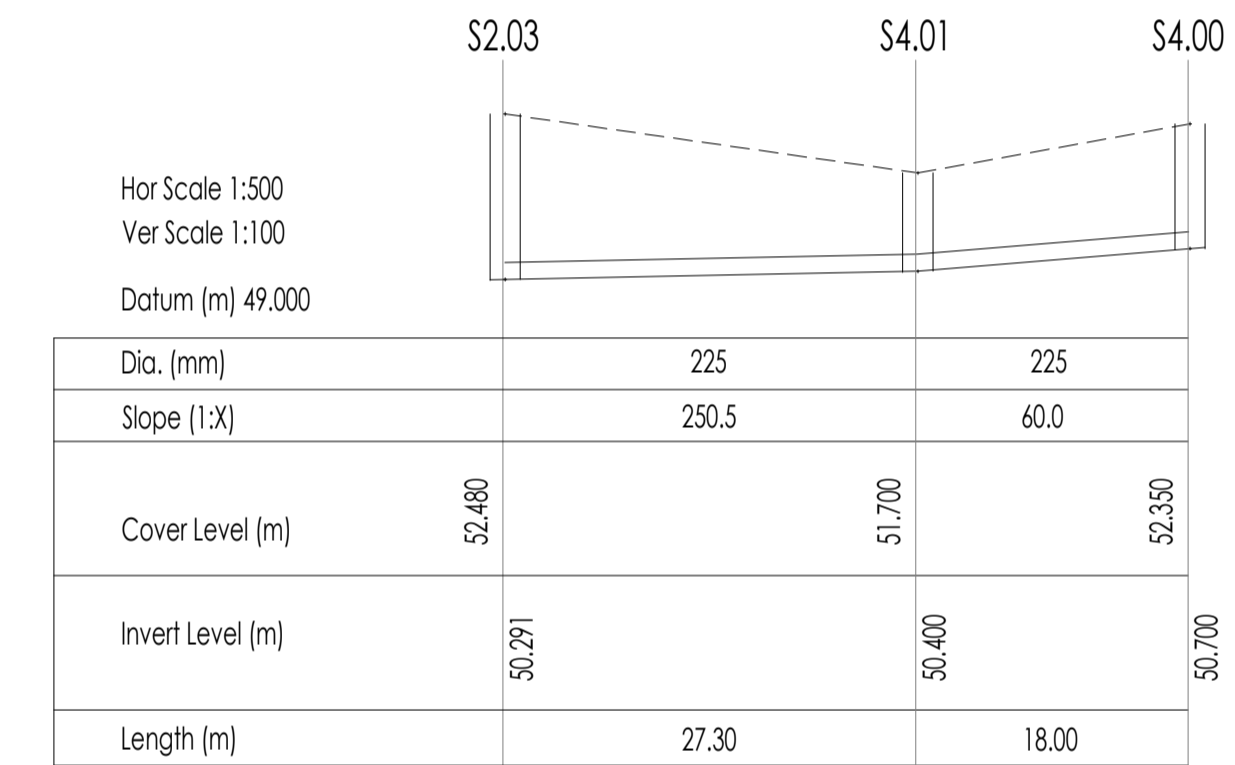
Run 13 - Foul



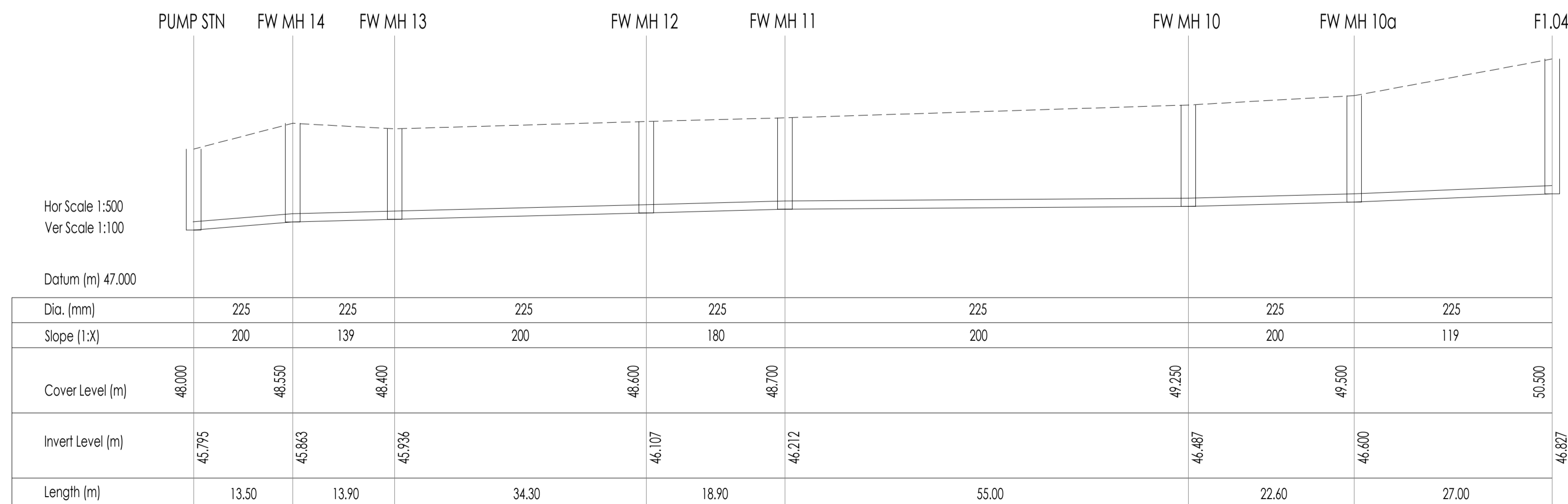
Run 14 - Foul



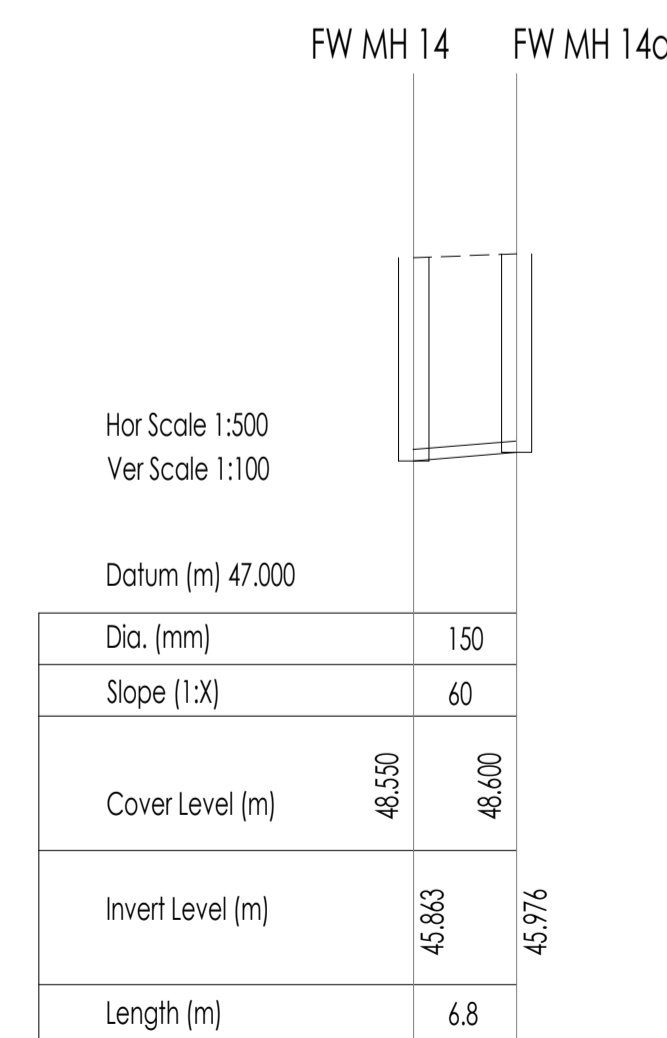
Run 29 - Storm



Run 30 - Storm



Foul



Foul

B. SUBMITTED FOR DISCUSSION	11/19/2023/CH
A. SUBMITTED FOR DISCUSSION	10/07/2023/CH
REV. DETAIL	DATE - REV.



Phoenix House, Monahan Road, Cork.
 T-021 2376150 E: info@brh.ie

CLIENT: Cooleeney Developments Limited

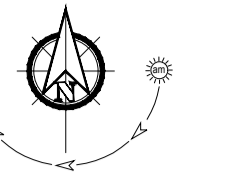
PROJECT: Residential Development at Elm Grove, Crann Ard, Ballynamona, Fermoy

DRG: Sewer Sections

Drawn By	Checked By	Job No.	Drawing Number	Revision	Stage
CB	WOR	23_041	0303	B	PA
1:500 on A1					

A1

Ballyarthur House



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54.1

53.0

2

Pond

Pond

Pond

Queen of Peace Catholic Church

Car Park

DUBLIN ROAD

4m WIDE WARDSTAND ACCESS FROM ELM GROVE TO PUMP STATION

Note: Existing pumping station to be decommissioned

Existing gravity sewer (150mm Ø) to public sewer to be decommissioned

New header manhole in accordance with Irish Water STD-WW-29 of w vent stack

225mm Ø Gravity pipe to public sewer

Existing manhole and public sewer in roadway

B. SUBMITTED FOR DISCUSSION	11/19/2023/CB
A. SUBMITTED FOR DISCUSSION	10/07/2023/CP
REV. DETAIL	DATE - ERY



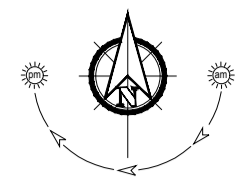
Phoenix House, Monahan Road, Cork.
T-021 2376150 E: info@brh.ie

CLIENT: Cooleeney Developments Limited

PROJECT: Residential Development at Elm Grove, Crann Ard, Ballynamona, Fermoy

DRG: Pump Station & Rising Main

CB	WOR	23_041	0304	B	PA
1:1000 on A1					



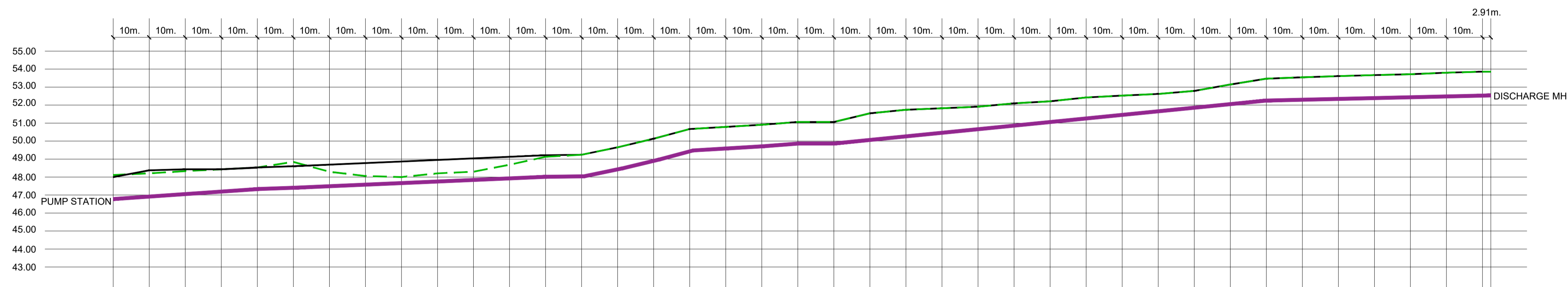
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STAGE ABBREVIATIONS:

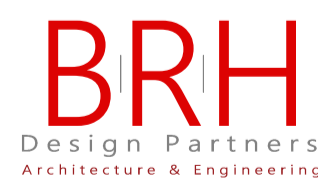
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Chainage (m)	0	10m	20m	30m	40m	50m	60m	70m	80m	90m	100m	110m	120m	130m	140m	150m	160m	170m	180m	190m	200m	210m	220m	230m	240m	250m	260m	270m	280m	290m	300m	310m	320m	330m	340m	350m	360m	370m	372.91m
Existing G.L.	48.1	48.2	48.3	48.45	48.6	48.9	48.4	48.1	48.0	48.2	48.4	48.75	49.2	49.4	49.7	50.2	50.7	50.8	50.95	51.05	51.20	51.60	51.80	51.85	51.95	52.10	52.28	52.50	52.55	52.65	52.80	53.20	53.6	53.61	53.615	53.65	53.68	53.70	53.728
Proposed G.L.	48.0	48.4	48.45	48.45	48.6	48.75	48.85	48.9	48.95	48.98	49.05	49.1	49.25	49.35	49.7	50.2	50.7	50.8	50.95	51.05	51.20	51.60	51.80	51.85	51.95	52.10	52.28	52.50	52.55	52.65	52.80	53.20	53.6	53.61	53.615	53.65	53.68	53.70	53.728
Proposed I.L. rising main	46.8	47.2	47.25	47.25	47.4	47.55	47.65	47.7	47.75	47.78	47.85	47.9	48.05	48.15	48.5	49.0	49.5	49.6	49.75	49.85	50.0	50.4	50.6	50.65	50.75	50.9	51.08	51.3	51.35	51.45	51.60	52.0	52.4	52.41	52.415	52.45	52.48	52.5	52.528

RISING MAIN

B. SUBMITTED FOR DISCUSSION	11/19/2023/CB
A. SUBMITTED FOR DISCUSSION	10/07/2023/CB
Rev. DETAIL	DATE - ETC



Phoenix House, Monahan Road, Cork.
T-021 2376150 E: info@brhie

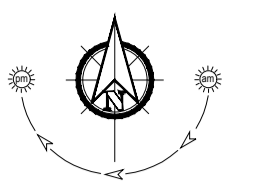
CLIENT: Cooleeney Developments Limited

PROJECT: Residential Development at Elm Grove, Crann Ard, Ballynamona, Fermoy

DRG: Rising Main Section

Drawn By	Checked By	Job No.	Drawing Number	Revision	Stage
CB	WOR	23_04	0305	B	PA

1:150 on A1



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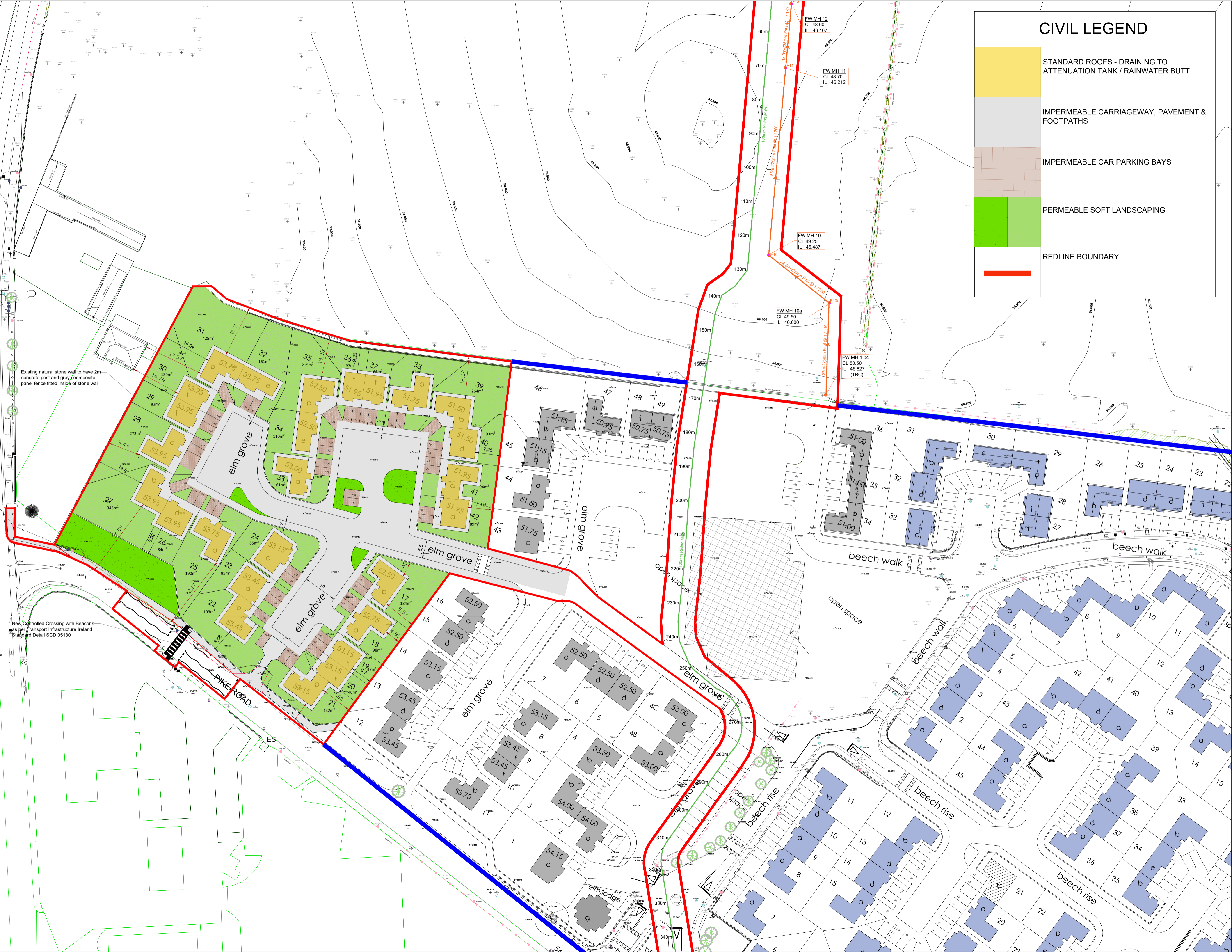
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CIVIL LEGEND

	STANDARD ROOFS - DRAINING TO ATTENUATION TANK / RAINWATER BUTT
	IMPERMEABLE CARRIAGEWAY, PAVEMENT & FOOTPATHS
	IMPERMEABLE CAR PARKING BAYS
	PERMEABLE SOFT LANDSCAPING
	REDLINE BOUNDARY



B. SUBMITTED FOR DISCUSSION	11/19/2023/CB
A. SUBMITTED FOR DISCUSSION	10/07/2023/SCB
REV. DETAIL	DATE - EBY

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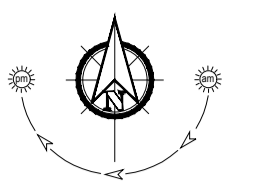
CLIENT: Cooleeney Developments Limited

PROJECT: Residential Development at Elm Grove, Crann Ard, Ballynamona, Fermoy

DRG: SuDS Layout

CD	WOR	23_041	0306	B	PA
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1:500 on A1



NORTH POINT

THE LOCATION OF ITEMS IN THIS CONSTRUCTION MANAGEMENT PLAN MAY BE ALTERED AND RELOCATED TO A MORE APPROPRIATE LOCATION AT CONSTRUCTION STAGE IF CONSTRUCTION OF ADJOINING UNFINISHED ESTATE TAKES PLACE AT THE SAME TIME BY THE SAME DEVELOPER/BUILDER AS THE HOUSES IN THIS APPLICATION.

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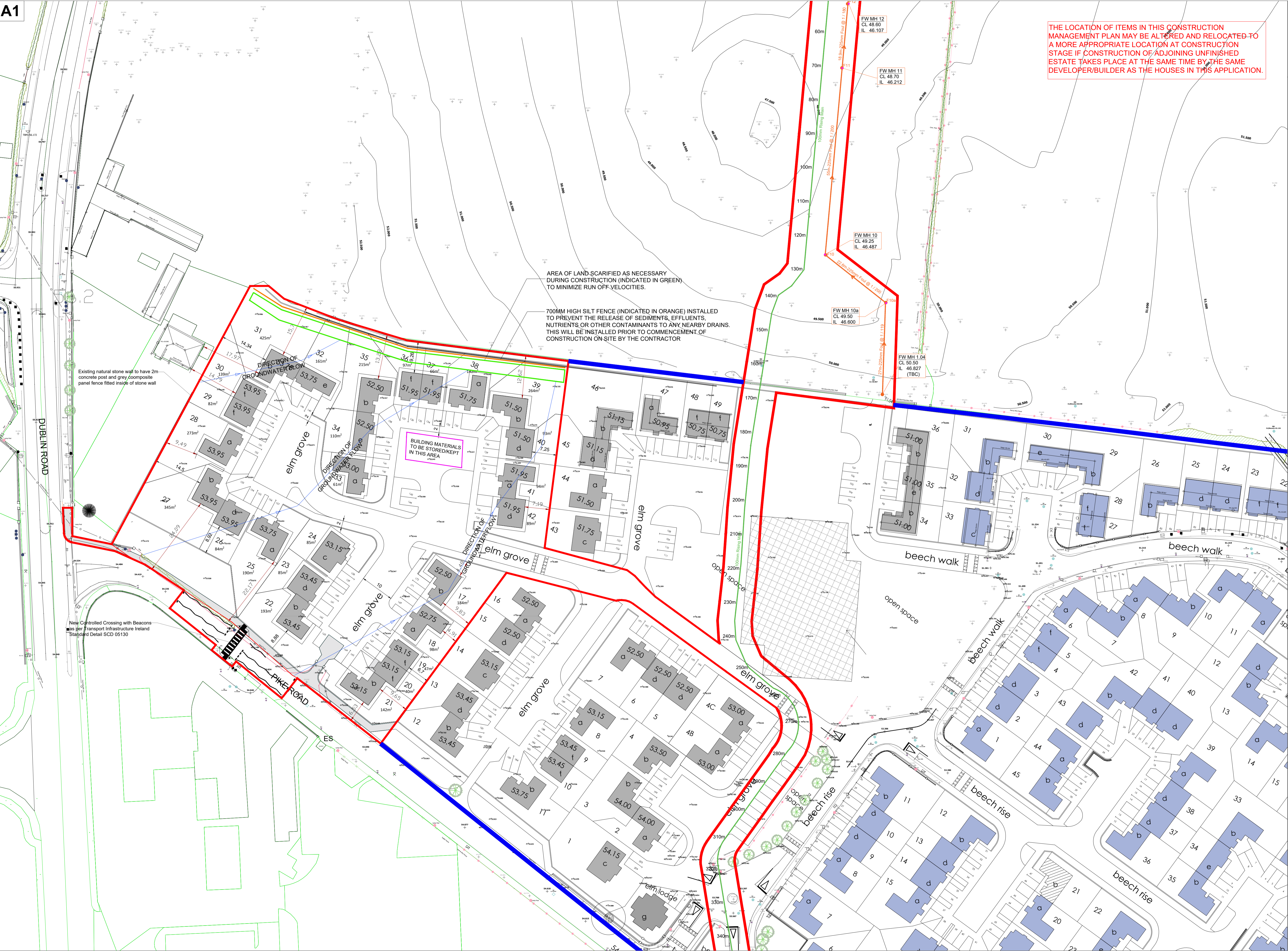
AREA OF LAND SACRIFICED AS NECESSARY DURING CONSTRUCTION (INDICATED IN GREEN) TO MINIMIZE RUN OFF VELOCITIES.

700MM HIGH SILT FENCE (INDICATED IN ORANGE) INSTALLED TO PREVENT THE RELEASE OF SEDIMENTS, EFFLUENTS, NUTRIENTS OR OTHER CONTAMINANTS TO ANY NEARBY DRAINS. THIS WILL BE INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION ON SITE BY THE CONTRACTOR

BUILDING MATERIALS TO BE STORED KEPT IN THIS AREA

Existing natural stone wall to have 2m concrete post and grey / composite panel fence fitted inside of stone wall

New Controlled Crossing with Beacons as per Transport Infrastructure Ireland Standard Detail SCD 05130



B. SUBMITTED FOR DISCUSSION	11/09/2023/CB
A. SUBMITTED FOR DISCUSSION	10/07/2023/CR
REV. DETAILS	DATE - REV.

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CLIENT: Cooleeney Developments Limited

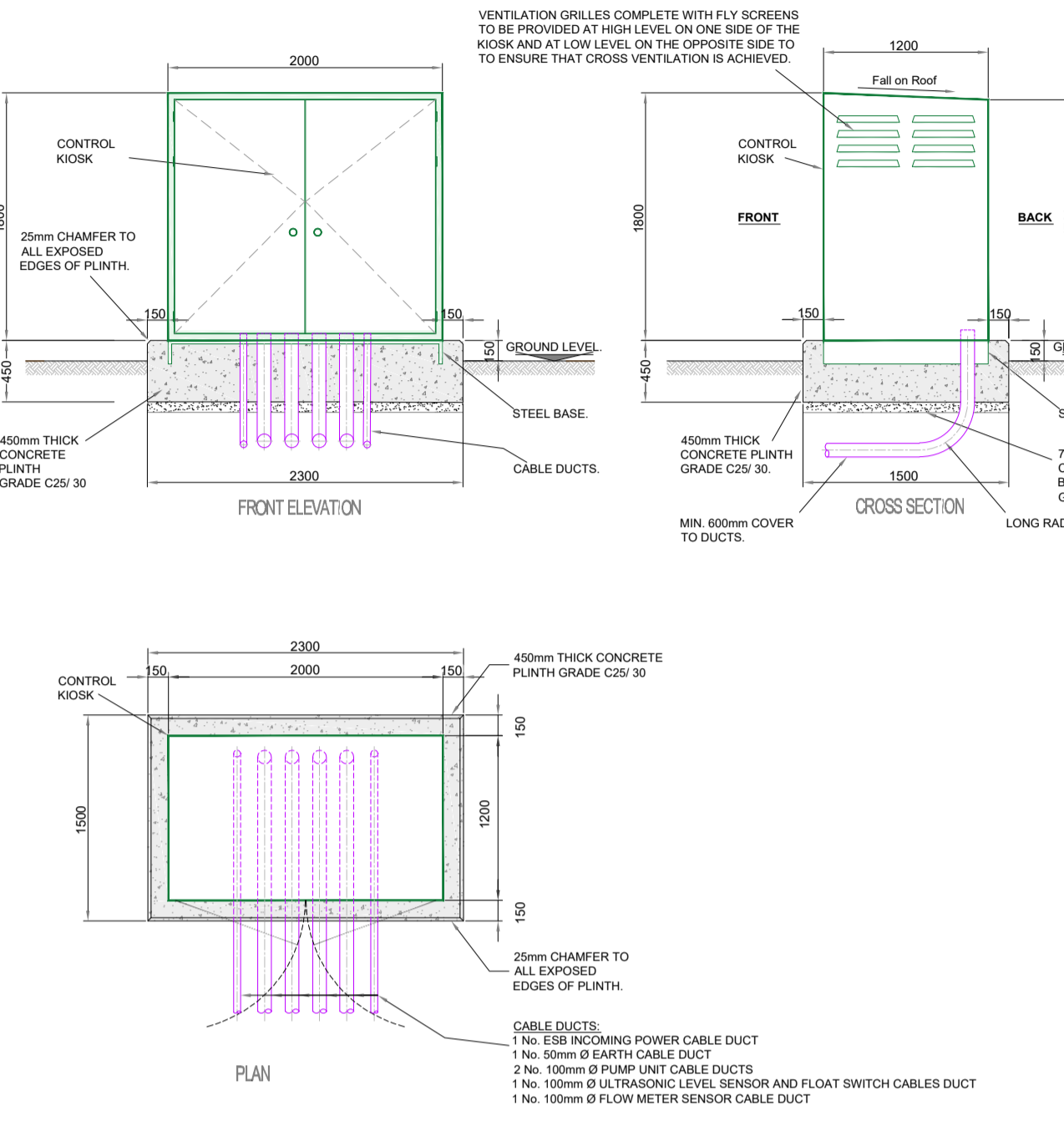
PROJECT: Residential Development at Elm Grove, Crann Ard, Ballynamona, Fermoy

DRG: Construction Management Plan

CD	WOR	REV	DATE	REVISION	BY
		23_041	0307	B	PA

1:500 on A1

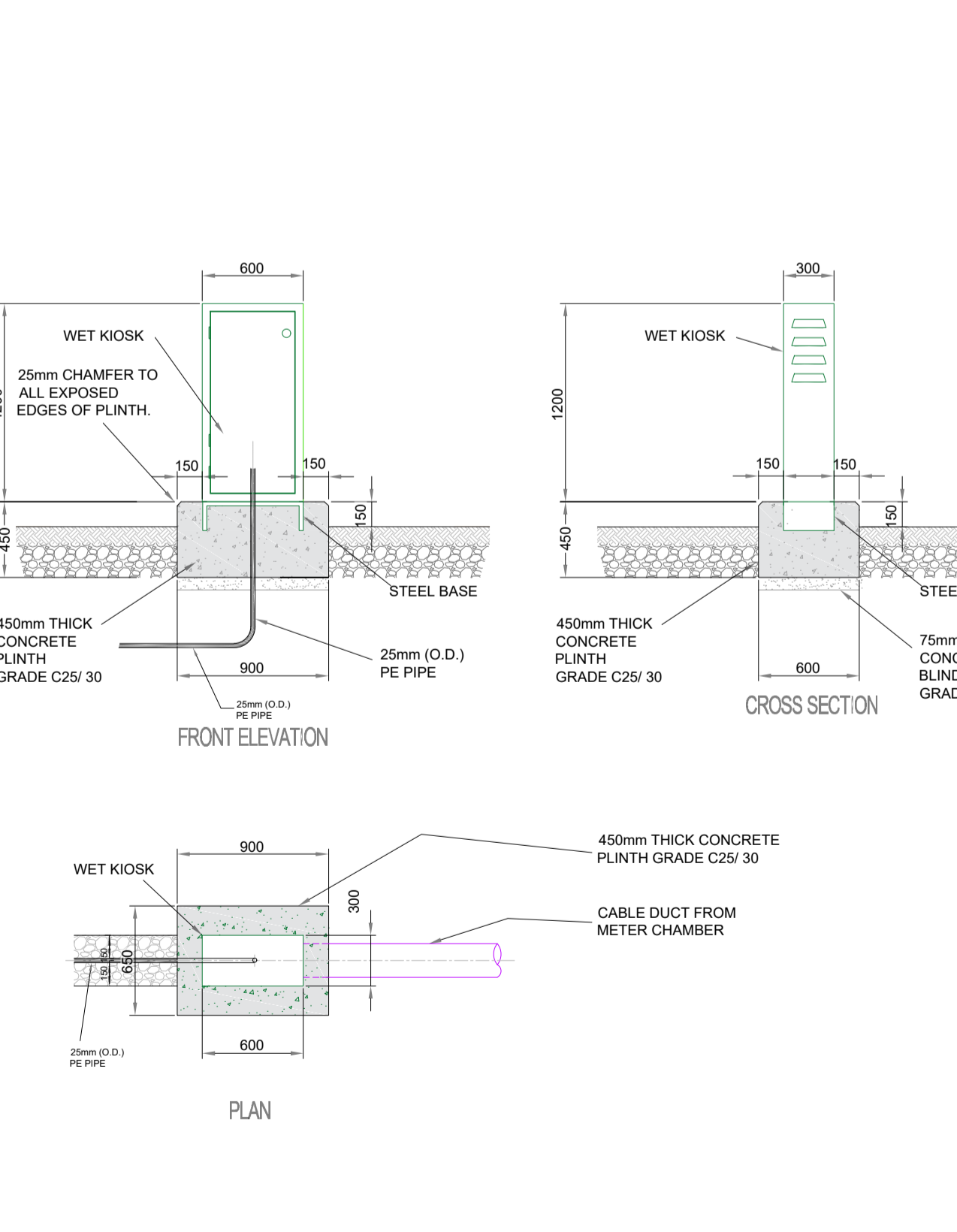
1. ALL DIMENSIONS ARE IN MILLIMETRES (MM) UNLESS NOTED OTHERWISE
1. KIOSK TO BE CONSTRUCTED FROM THINWALL TUBULAR A HEAVY RESISTANT PLASTIC POLYMER COATED & HOT DIPPED GALVANIZED MILD STEEL PLATE MINIMUM 3mm THICK TO BE EN 10138, STAINLESS STEEL MAY BE USED AS AN ALTERNATIVE FOR MATERIAL, PARTICULARLY IN WETTER ENVIRONMENTS, SUBJECT TO AGREEMENT WITH IRISH WATER
2. KIOSK TO BE FULLY GROUND TO EN 60364-4-411 AND TO BE PROVIDED WITH AN EARTHING SYSTEM WITH A MINIMUM RESISTANCE OF 10 OHMS
3. THE QUALITY OF KIOSK CONSTRUCTION SHALL ENSURE THAT THE FOLLOWING IS ACHIEVED:
 - a. A HEAVY RESISTANT RETENTION OF COVER WITH ALL TYPES OF LOADS TO EN 1193 OR EN 12007 MINIMUM DOUBLE LOCK WITH BOLTS THAT ENGAGE INTO THE BELL HEADERS AS WELL AS BETWEEN THE TWO COVERS
 - b. LEAVES OR LAY & FRAME LEAVES EDGE OF LEAVES TO HAVE EITHER REBATED EDGES OR FITTED WITH ASYMMETRIC
 - c. KIOSK TO BE FULLY GROUND TO EN 60364-4-411 AND TO BE PROVIDED WITH AN EARTHING SYSTEM WITH A MINIMUM RESISTANCE OF 10 OHMS
 - d. THE BOTTOM FLANGE SHALL BE SEALED ON AN IMPERMEABLE GASKET AND SEALED WITH Mastic
 - e. A ROOF SHALL BE PROVIDED WITH STAINLESS STEEL ROOFING TO WHICH MASTIC IS TO BE APPLIED
 - f. THE DEVELOPER SHALL BE RESPONSIBLE FOR THE ULTIMATE SOUNDING OF THE KIOSK TO ENSURE ADEQUATE SOUND REQUIREMENTS
 - g. TO BE METRIC DUCTING TO BE ACCORDANCE WITH EN 10221
4. ELECTRICAL REQUIREMENTS TO BE ACCORDANCE WITH IBS SPECIFICATION
5. ALL EXPOSED PIPING TO BE ACCURATELY INSULATED WITH PIPE LAGGING
6. ALL EXPOSED PIPING TO BE ACCURATELY INSULATED WITH PIPE LAGGING
7. ALL EXPOSED PIPING TO BE ACCURATELY INSULATED WITH PIPE LAGGING
8. ALL EXPOSED PIPING TO BE ACCURATELY INSULATED WITH PIPE LAGGING
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12. ALL EXPOSED PIPING TO BE ACCURATELY INSULATED WITH PIPE LAGGING
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17. ALL EXPOSED PIPING TO BE ACCURATELY INSULATED WITH PIPE LAGGING
18. ALL EXPOSED PIPING TO BE ACCURATELY INSULATED WITH PIPE LAGGING
19. ALL EXPOSED PIPING TO BE ACCURATELY INSULATED WITH PIPE LAGGING
20. ALL EXPOSED PIPING TO BE ACCURATELY INSULATED WITH PIPE LAGGING



REFER TO INDEX SHEET FOR NOTES REGARDING DESIGN RESPONSIBILITY & RISK ASSESSMENT

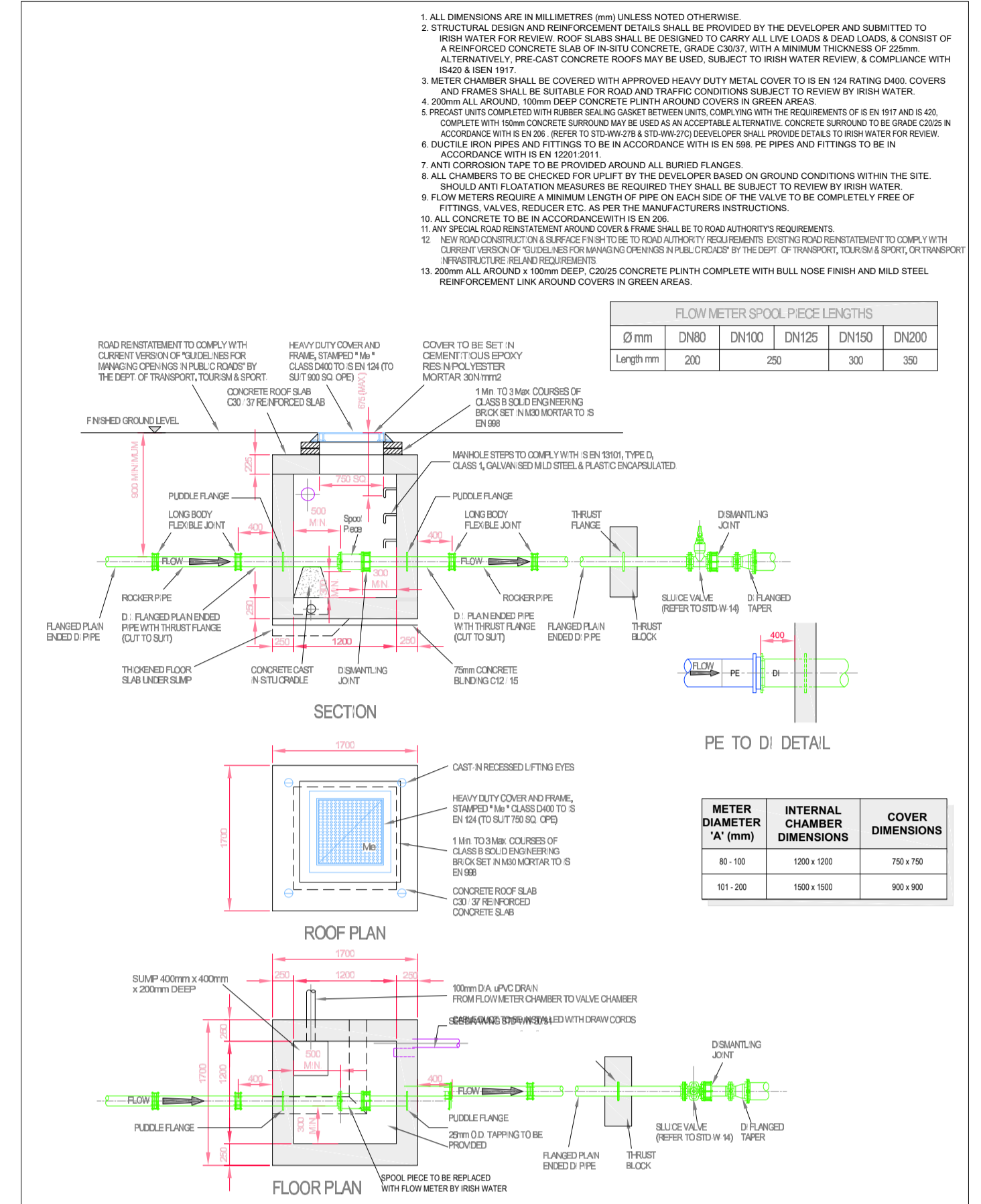
SCALE	DATE	TITLE
NOT TO SCALE	SEPT. 2019	TYPE 2 AND TYPE 3 PUMPING STATION CONTROL KIOSK
DRAWING No.	REV	
STD-WW-30A	0	

1. ALL DIMENSIONS ARE IN MILLIMETRES (MM) UNLESS NOTED OTHERWISE
1. KIOSK TO BE CONSTRUCTED FROM THINWALL TUBULAR A HEAVY RESISTANT PLASTIC POLYMER COATED & HOT DIPPED GALVANIZED MILD STEEL PLATE MINIMUM 3mm THICK TO BE EN 10138, STAINLESS STEEL MAY BE USED AS AN ALTERNATIVE FOR MATERIAL, PARTICULARLY IN WETTER ENVIRONMENTS, SUBJECT TO AGREEMENT WITH IRISH WATER
2. KIOSK TO BE FULLY GROUND TO EN 60364-4-411 AND TO BE PROVIDED WITH AN EARTHING SYSTEM WITH A MINIMUM RESISTANCE OF 10 OHMS
3. THE QUALITY OF KIOSK CONSTRUCTION SHALL ENSURE THAT THE FOLLOWING IS ACHIEVED:
 - a. A HEAVY RESISTANT RETENTION OF COVER WITH ALL TYPES OF LOADS TO EN 1193 OR EN 12007 MINIMUM DOUBLE LOCK WITH BOLTS THAT ENGAGE INTO THE BELL HEADERS AS WELL AS BETWEEN THE TWO COVERS
 - b. LEAVES OR LAY & FRAME LEAVES EDGE OF LEAVES TO HAVE EITHER REBATED EDGES OR FITTED WITH ASYMMETRIC
 - c. KIOSK TO BE FULLY GROUND TO EN 60364-4-411 AND TO BE PROVIDED WITH AN EARTHING SYSTEM WITH A MINIMUM RESISTANCE OF 10 OHMS
 - d. THE BOTTOM FLANGE SHALL BE SEALED ON AN IMPERMEABLE GASKET AND SEALED WITH Mastic
 - e. A ROOF SHALL BE PROVIDED WITH STAINLESS STEEL ROOFING TO WHICH MASTIC IS TO BE APPLIED
 - f. THE DEVELOPER SHALL BE RESPONSIBLE FOR THE ULTIMATE SOUNDING OF THE KIOSK TO ENSURE ADEQUATE SOUND REQUIREMENTS
 - g. TO BE METRIC DUCTING TO BE ACCORDANCE WITH EN 10221
4. ELECTRICAL REQUIREMENTS TO BE ACCORDANCE WITH IBS SPECIFICATION
5. ALL EXPOSED PIPING TO BE ACCURATELY INSULATED WITH PIPE LAGGING
6. ALL EXPOSED PIPING TO BE ACCURATELY INSULATED WITH PIPE LAGGING
7. ALL EXPOSED PIPING TO BE ACCURATELY INSULATED WITH PIPE LAGGING
8. ALL EXPOSED PIPING TO BE ACCURATELY INSULATED WITH PIPE LAGGING
9. ALL EXPOSED PIPING TO BE ACCURATELY INSULATED WITH PIPE LAGGING
10. ALL EXPOSED PIPING TO BE ACCURATELY INSULATED WITH PIPE LAGGING
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17. ALL EXPOSED PIPING TO BE ACCURATELY INSULATED WITH PIPE LAGGING
18. ALL EXPOSED PIPING TO BE ACCURATELY INSULATED WITH PIPE LAGGING
19. ALL EXPOSED PIPING TO BE ACCURATELY INSULATED WITH PIPE LAGGING
20. ALL EXPOSED PIPING TO BE ACCURATELY INSULATED WITH PIPE LAGGING



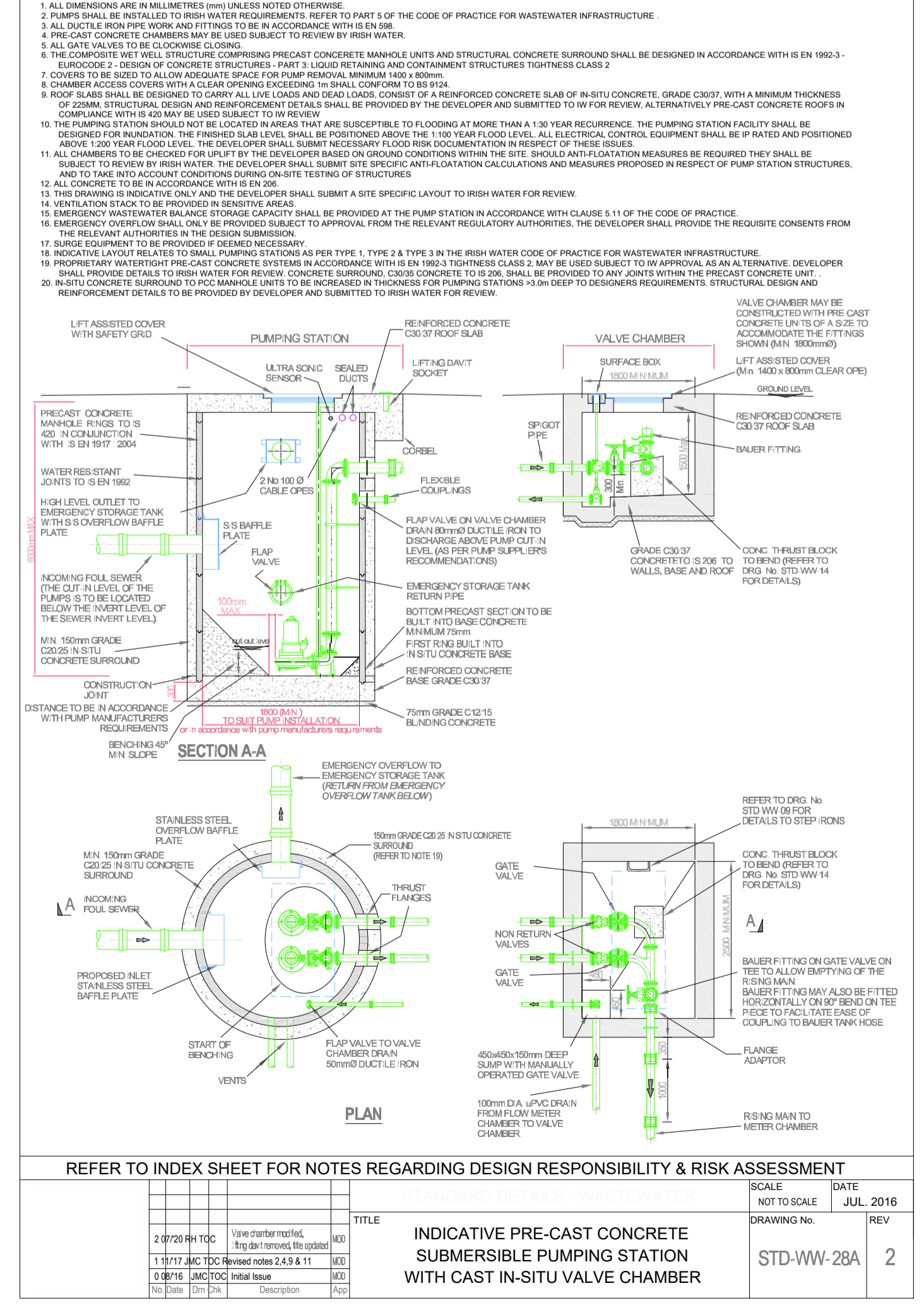
REFER TO INDEX SHEET FOR NOTES REGARDING DESIGN RESPONSIBILITY & RISK ASSESSMENT

SCALE	DATE	TITLE
NOT TO SCALE	SEPT. 2015	PUMPING STATION WET KIOSK
DRAWING No.	REV	
STD-WW-31	3	



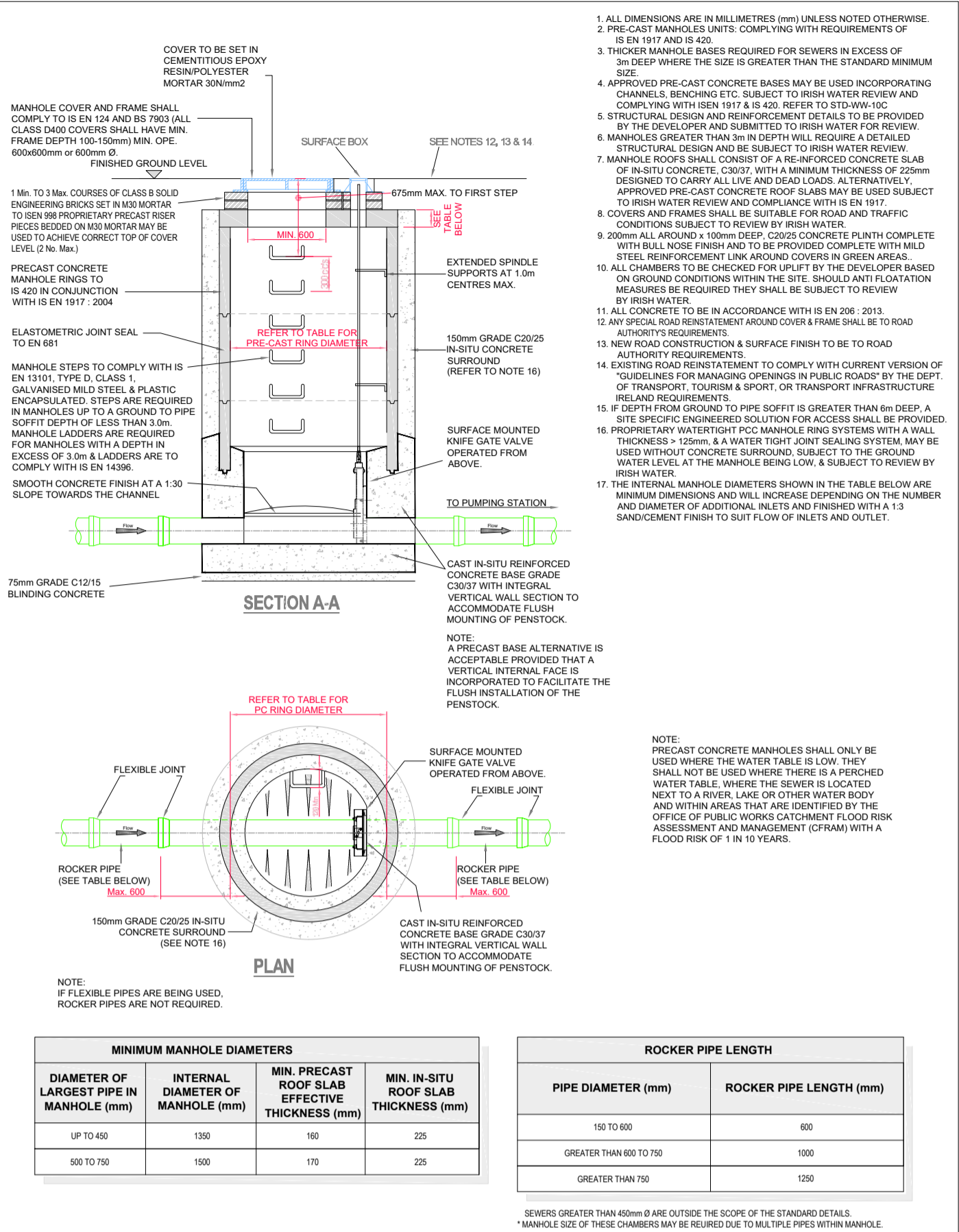
REFER TO INDEX SHEET FOR NOTES REGARDING DESIGN RESPONSIBILITY & RISK ASSESSMENT

SCALE	DATE	TITLE
NOT TO SCALE	SEPT. 2015	FOUL METER CHAMBER (FLOW RISING MAIN $\le 200\text{mm}$ DIA) CAST IN-SITU CONCRETE OPTION
DRAWING No.	REV	
STD-WW-27	3	



REFER TO INDEX SHEET FOR NOTES REGARDING DESIGN RESPONSIBILITY & RISK ASSESSMENT

SCALE	DATE	TITLE
NOT TO SCALE	JUL. 2016	INDICATIVE PRE-CAST CONCRETE SUBMERSIBLE PUMPING STATION WITH CAST IN-SITU CONCRETE BASE
DRAWING No.	REV	
STD-WW-28A	2	



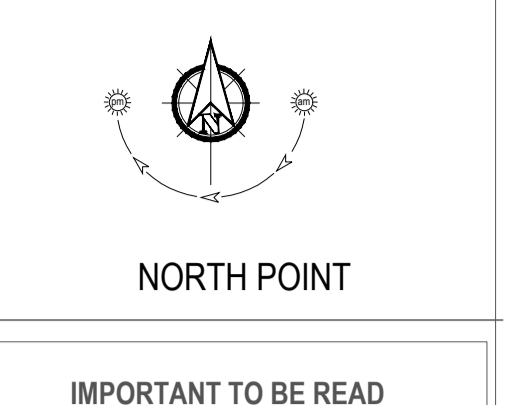
REFER TO INDEX SHEET FOR NOTES REGARDING DESIGN RESPONSIBILITY & RISK ASSESSMENT

SCALE	DATE	TITLE
NOT TO SCALE	SEPT. 2015	PRE-CAST CONCRETE PUMPING STATION INLET MANHOLE WITH CAST IN-SITU CONCRETE BASE
DRAWING No.	REV	
STD-WW-40B	0	



REFER TO INDEX SHEET FOR NOTES REGARDING DESIGN RESPONSIBILITY & RISK ASSESSMENT

SCALE	DATE	TITLE
NOT TO SCALE	JUL. 2016	INDICATIVE PRE-CAST CONCRETE SUBMERSIBLE PUMPING STATION WITH CAST IN-SITU CONCRETE BASE
DRAWING No.	REV	
STD-WW-28A	2	



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All sub-contractors are ultimately responsible for ensuring compliance with regulations within their own trade.

The user of this drawing shall check dimensions shown on this drawing with relevant dimensions shown on other drawings issued by BRH Architects and Engineering and by other design consultants relevant to the project prior to any fabrication or construction on site. All errors, omissions and discovered inconsistencies to be reported to the BRH Architects and Engineering immediately.

All trades to check dimensions on site prior to fabrication.

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STAGE ABBREVIATIONS:

CD - Concept Design, PP-Preplanning, PA-Planning Application, FI-Further Information, AP-Appeal, RC-Response to Conditions, TE-Tender, FC-Fire Cert, LE-Contract / Legal, CO-Construction, AB-As Built.

MINIMUM MANHOLE DIAMETERS

DIAMETER OF LARGEST PIPE IN MANHOLE (mm)	INTERNAL DIAMETER OF MANHOLE (mm)	MIN. PRECAST ROOF SLAB EFFECTIVE THICKNESS (mm)	MIN. IN-SITU ROOF SLAB THICKNESS (mm)
UP TO 450	1300	100	25
450 TO 750	1500	110	25

ROCKER PIPE LENGTH

PIPE DIAMETER (mm)	ROCKER PIPE LENGTH (mm)
150 TO 450	600
450 TO 750	1000
GREATER THAN 750	1200

NOTE: DIMENSIONS GREATER THAN 400mm ARE OUTSIDE THE SCOPE OF THE STANDARD DETAILS. MANHOLE SIZE OF THESE CHAMBERS MAY BE REDUCED DUE TO MULTIPLE PIPES WITH MANHOLE.

BRH Design Partners Architects & Engineering

Phoenix House, Monahan Road, Cork. T-021 2376150 E: info@brh.ie

CLIENT: Cooleeney Developments Limited

PROJECT: Residential Development at Elm Grove, Crann Ard, Ballynamona, Fermoy

DRG: Irish Water Pump Station Standard Details

DATE	BY	REVISION
11/09/2015	CB	1
10/07/2015	WOR	2
08/07/2015	NTS	3

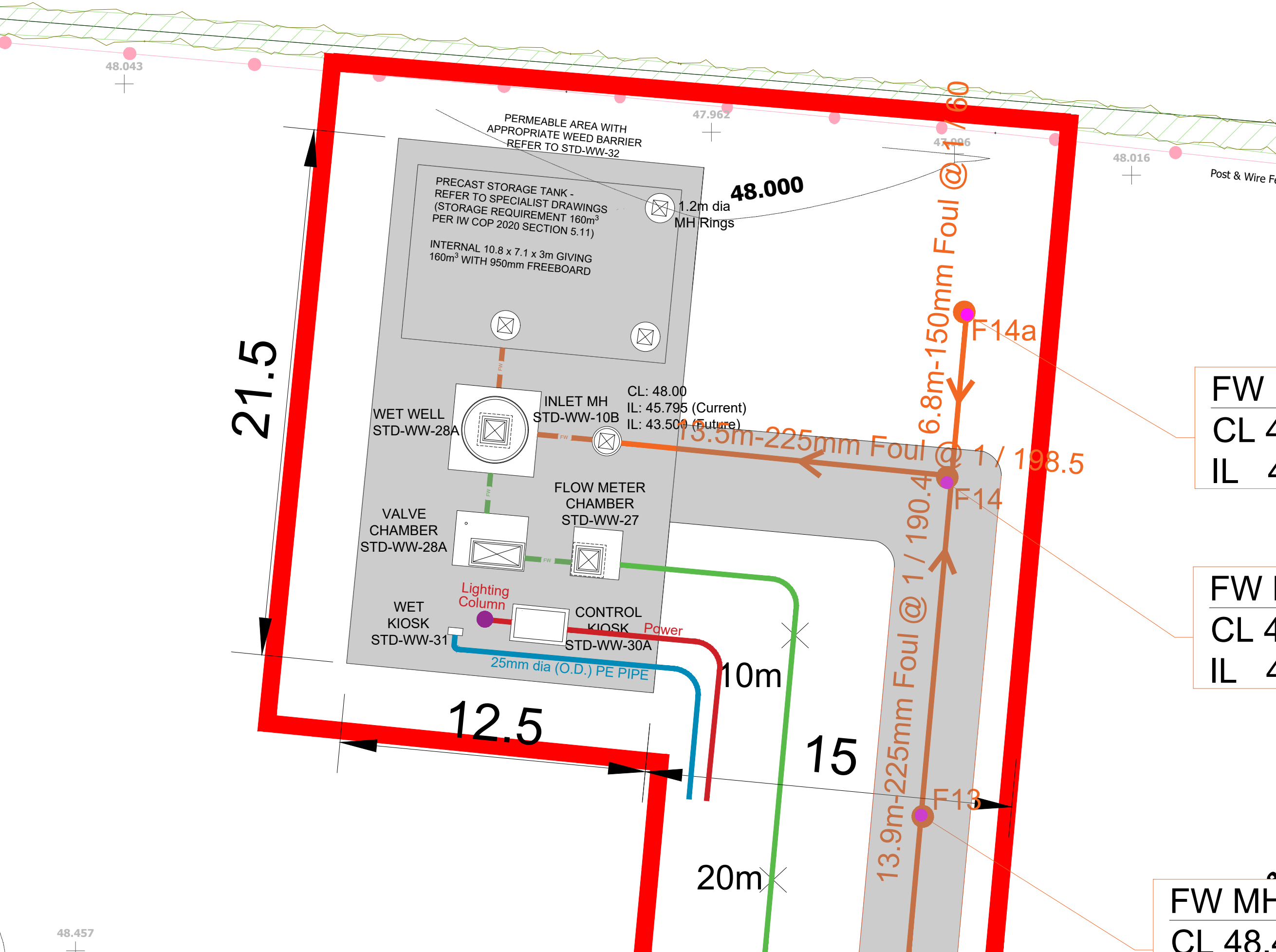
DATE	BY	REVISION
23_04_16	WOR	1
0309		

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FW
CL 4
IL 4

FW
CL 4
IL 4

FW MH
CL 48.4



B	SUBMITTED FOR DISCUSSION	11/09/2023	CB
A	SUBMITTED FOR DISCUSSION	11/08/2023	CB



Phoenix House, Monahan Road, Cork.
T-021 2376150 E: info@brh.ie

CLIENT: Cooleeny Developments Limited

PROJECT: Residential Development at Elm Grove, Crann Ard, Ballynamona, Fermoy

DRG: Pump Station Plan

Drawn By:	Checked By:	Job No:	Drawing Number:	Revision:	Stage:
CB	WOR	23_041	0310	B	PA
SCALE:	1:150 on A3				