



**Response to Applicant
Form 4A**

July 2, 2021

[REDACTED]

Dear [REDACTED]

Re: Your request for access to information under Part II of the **Access to Information and Protection of Privacy Act, 2015** [Our File # 2021-13]

On June 3, 2021, the Town of Paradise received your request for access to the following records/information:

"I am seeking any and all information on file pertaining to the land development plan, including permitting, surveying, engineering design and correspondence, relating to the grading and drainage of [REDACTED] Elgin Drive, and including the same for [REDACTED]"

I am pleased to inform you that a decision has been made by the ATIPP Coordinator for the Town of Paradise to provide access to the requested information.

Please be advised that you may ask the Information and Privacy Commissioner to review the processing of your access request, as set out in section 42 of the Access to Information and Protection of Privacy Act, 2015 (the Act). The address and contact information of the Information and Privacy Commissioner is as follows:

Office of the Information and Privacy Commissioner
2 Canada Drive
P. O. Box 13004, Stn. A
St. John's, NL. A1B 3V8

Telephone: (709) 729-6309
Toll-Free: 1-877-729-6309
Facsimile: (709) 729-6500

You may also appeal directly to the Supreme Court within 15 business days after you receive the decision of the public body, pursuant to section 52 of the Act.

If you have any further questions, please feel free to contact me by telephone or by email.



Sincerely,

Terrilynn Smith
ATIPP Coordinator

Corey Smith

From: Chris Milley
Sent: April-13-21 12:03 PM
To: Tracy-Lynn Goosney
Cc: Melissa Gale
Subject: FW: (EXTERNAL) Water on property

Take a look at this e-mail I sent Alton. If you have any questions about what I am thinking we should discuss.

Thanks,

Chris

From: Chris Milley
Sent: April 13, 2021 11:52 AM
To: Alton Glenn <AGlenn@paradise.ca>
Cc: Lisa Niblock <lniblock@paradise.ca>
Subject: RE: (EXTERNAL) Water on property

Hi Alton,

With these types of on property drainage problems, we can investigate from two perspectives.

- 1) Determine if the water is storm sewer being directed to the property by the Town. The Town is responsible for directing storm sewer from Municipal property to a natural drain.
- 2) Determine if it is surface water that is flowing in a natural drain path. If it is surface water then it is a private matter to be addressed by the owner through enacting their rights. We can in this case provide recommendations to the owner through your department. Most recommendations for surface water is to create a better drainage path (via better grading) or if not possible collecting the surface water into a private storm sewer and either directing to a natural drain (approval from Water Resources) or deposit in the Town's storm sewer (approval from Town)

Water rights are fairly basic.

- Water is allowed to follow a natural path on the surface (ie. basically the law of gravity. down hill) on its way to collect in natural drain (Stream, brook, river). They can not be blocked or dammed to cause flooding on other's property.
- Property owners have the right to redirect surface water. Usually via grading to direct it to a natural drain using a better drainage path. One that is away from a house.
- Owners have the right to reject or not accept storm water from someone else. Thus the reason Town's are supposed to approve connections to their storm sewer and outfalls to rivers have to be permitted by the province. Or reason we take responsibility to fix issues related to 1) above.
- Once an owner accepts storm sewer, they have to then treat it as their own and manage all aspects of it until it is passed over to someone else. In the Town's case our responsibility normally ends at the outfall to a river when the province accepts responsibility.
- Surface water not collected by a storm drain is still surface water and must be handled in that way. So when the storm drains are at their approved maximum capacity and cannot accept anymore surface water, the overflow must be handled by grading to allow it to flow along natural drainage paths to a stream.

We can help analyze this and offer up suggestions for the owners in the case of 2) but it is not the Towns responsibility to implement solutions to support owner's rights. Nor do we have the ability to force owners to do something that support their rights other than through enforceable development regulations (grading). We can probably order someone to stop directing storm sewer and infringing on some else's rights by using nuisance regulations. (like an order to redirect a weeping tile outfall from someone else's property to instead a defined drainage path)

So, as I see it, I would take full responsibility for our storm sewer while most surface flooding issues not attributed to the Town storm sewer on private property would ultimately be managed by your department and technically supported by my department. You would be involved with regulations, permits, and enforcement related to activity of private individuals on their property. And I would provide technical support to evaluate solutions and providing municipal approval to deposit private storm water into the municipal system as part of a development permit process

With all that said, I will report back to you what we are able to determine in this case at Elgin.

I have suggested that the whole issue of water rights and storm sewer owner responsibilities be one of the Stewart McKelvey lunch and learn topics. Like many things, this area of law is much better defined in other provinces through regulation and bylaws while in NL we seem to be guided more by case law. Maybe they can show us how both work with examples.

Thanks

Chris

From: Lisa Niblock <lniblock@paradise.ca>
Sent: April 12, 2021 2:44 PM
To: Allan English <aenglish@paradise.ca>; Alton Glenn <AGlenn@paradise.ca>
Cc: Chris Milley <cmilley@paradise.ca>; Council [REDACTED]
Subject: RE: (EXTERNAL) Water on property

Hi Councillor English,

Chris's team would look after this. I have copied him so he can have someone take a look. Thanks for sending along.

Lisa

From: Allan English <aenglish@paradise.ca>
Sent: April 12, 2021 2:14 PM
To: Alton Glenn <AGlenn@paradise.ca>
Cc: Lisa Niblock <lniblock@paradise.ca>
Subject: Fwd: (EXTERNAL) Water on property

Hi Alton

Attached is an email that I received from [REDACTED] a water problem on [REDACTED] property. I believe the email is self explanatory. He did include a number of photos but I am not sure that if they are visible to you. Can you have someone contact [REDACTED] on this matter?

Regards,
Allan

Sent from my iPhone

Begin forwarded message:

From: [REDACTED]
Date: April 12, 2021 at 12:56:37 PM NDT
To: Allan English <aenglish@paradise.ca>
Subject: (EXTERNAL) Water on property

ALERT: This message originated outside of the network for the Town of Paradise. BE CAUTIOUS before clicking any link(s) or attachment(s).

Good day Mr. English,

Wondering if you could direct me with respect a water issue [REDACTED]
The past couple of years, and typically in the spring, I am noticing large pooling of water following heavy melting and rains. This occurred again over the weekend and is becoming concerning. We purchased [REDACTED] noticed this occurring the past couple of years.

I am attaching some pictures for reference. I would appreciate any guidance you can provide with respect to whom I need to discuss this matter with further.



Corey Smith

From: Tracy-Lynn Goosney
Sent: April-13-21 1:54 PM
To: Shannon Toope
Subject: Drainage Issue [REDACTED]

Can you look into this one as well please, see email to Council below.

Good day Mr. English,

Wondering if you could direct me with respect a water issue I [REDACTED] The past couple of years, and typically in the spring, I am noticing large pooling of water following heavy melting and rains. This occurred again over the weekend and is becoming concerning. We purchased our home in 2000 and have only noticed this occurring the past couple of years.

I am attaching some pictures for reference. I would appreciate any guidance you can provide with respect to whom I need to discuss this matter with further.



Tracy-Lynn Goosney, P.Eng.
Manager of Engineering Services



P: 709.782.6614 F: 709.782.3601
tlgoosney@paradise.ca
www.paradise.ca

 Please consider whether it is necessary to print this email

This e-mail message (including attachments, if any) is confidential and may be privileged. Any unauthorized distribution or disclosure is prohibited. Disclosure to anyone other than the intended recipient does not constitute waiver of privilege. If you have received this e-mail in error, please notify us and delete it and any attachments from your computer system and records.

----- Forwarded message -----

From: Shannon Toope <stoope@paradise.ca>

Date: Fri, May 14, 2021 at 2:17 PM

Subject: RE: (EXTERNAL) Re: (EXTERNAL) Re: Following up To [REDACTED]

Cc: Tracy-Lynn Goosney <tlgoosney@paradise.ca>

Hi Jason,

One of the main reasons for the delay in response to your standing water/poor drainage [REDACTED] that during the record rainfalls in April, the Town was dealing with numerous complaints on other properties of the same nature. During this time, Town staff were engaging with Council to ensure the appropriate decisions were being made based on the research that was conducted.

Should you wish to discuss that research and the rationale behind the decision, please contact Tracy-Lynn Goosney, Manager of Infrastructure and Engineering, at your convenience.

Regards,

Shannon Toope, P.Tech.

Engineering Technician, Infrastructure & Engineering



P: 709.782.3548 F: 709.782.3601

stoope@paradise.ca

www.paradise.ca

From: [REDACTED]

Sent: May-13-21 4:55 PM

To: Shannon Toope <stoope@paradise.ca>

Subject: (EXTERNAL) Re: (EXTERNAL) Re: Following up

ALERT: This message originated outside of the network for the Town of Paradise. **BE CAUTIOUS** before clicking any link(s) or attachment(s).

Hi Shannon,

Can you provide some reasoning, or what information you found in your review that leads you to this decision? I find that making this statement without proving supporting rationale for “why” falls short of the month long period waiting for a reply.

Thanks,

█

On Thu, May 13, 2021 at 4:30 PM Shannon Toope <stoope@paradise.ca> wrote:

Hi █

The Town will not be taking any action regarding the standing water/poor drainage that was discussed at your property on April 14.

Should you wish to complete any work to address the matter, please apply outlining the proposed work.

Regards,

Shannon Toope, P.Tech.

Engineering Technician, Infrastructure & Engineering



P: 709.782.3548 F: 709.782.3601

stoope@paradise.ca

www.paradise.ca

From: [REDACTED]
Sent: May-13-21 3:50 PM
To: Shannon Toope <stoope@paradise.ca>
Subject: (EXTERNAL) Re: Following up

ALERT: This message originated outside of the network for the Town of Paradise. **BE CAUTIOUS** before clicking any link(s) or attachment(s).

Hi Shannon,

Again, I am following up to see if there is any update or response you can provide with respect to my inquiry concerning the grading / drainage concerns I raised over a month ago. If you require some additional time to complete your review, that is understood.

I would however, appreciate some acknowledgement that this issue has not gone by the wayside. Given that there hasn't been any communication on this in over a month, I'm sure you can understand my concern and motivation for following up on this matter.

Thanks,

[REDACTED]

Corey Smith

From: Lisa Niblock
Sent: May-18-21 11:18 AM
To: [REDACTED]
Cc: Chris Milley; Allan English; Council; Tracy-Lynn Goosney; Terrilynn Smith
Subject: RE: (EXTERNAL) Fwd: (EXTERNAL) Re: (EXTERNAL) Re: Following up

Good Morning [REDACTED]

Thank you for your email and looping me in on your discussion with staff. I apologize that the response took longer than expected from the Infrastructure and Engineering Department – as noted, the department was reviewing a higher number of files than normal.

The Town is regulated by ATIPPA; therefore, the release of information you are requesting would have to be reviewed by our Corporate Services Department. I have included a link to how this process works and the necessary form to request the information.

<https://www.paradise.ca/en/town-hall/access-to-information-and-protection-of-privacy-.aspx#:~:text=To%20formally%20request%20records%20from,Town%20Hall%20or%20by%20email.>

Once you have the necessary information, if you wish to set up a time to discuss your property with the Town's engineering staff, please coordinate a time and we will certainly oblige.

Again, I apologize for the delays and the frustration with the situation on your property.

Lisa Niblock
CAO

From: [REDACTED]
Sent: May 17, 2021 4:55 PM
To: Tracy-Lynn Goosney <tlgoosney@paradise.ca>
Cc: Chris Milley <cmilley@paradise.ca>; Lisa Niblock <lniblock@paradise.ca>; Allan English <aenglish@paradise.ca>
Subject: (EXTERNAL) Fwd: (EXTERNAL) Re: (EXTERNAL) Re: Following up

ALERT: This message originated outside of the network for the Town of Paradise. **BE CAUTIOUS** before clicking any link(s) or attachment(s).

Hi Tracy-Lynn,

First, I would like to again thank-you for returning my call this afternoon and providing me with the Town's position regarding the instances of standing water issues at my property. I retain the right to be disappointed with the rationale I have been provided to date, however I do thank you for providing context additional to the email chain below.

Just to follow up on our call, I find it difficult to accept that the responsibility for resolving this issue should lie solely with me as a property owner. As I have communicated, the issue appears to be getting progressively worse the past few spring seasons; notably last year's higher snowfall and this year's record rainfalls. However, we do all agree that there is a water issue that is becoming more and more concerning here, and that something that has worked in the past now seems to be not working as it once did. I have [REDACTED] provided more and

more concerns with respect to standing water issues. For me, first steps are to understand the potential causes that now contribute to the slower drainage of surface water, and the solution might need to [REDACTED]. As such, I am again here requesting that I be provided with any and all information related to the [REDACTED] anything on file that would speak to the clear grading issue(s) that would have needed to have been addressed during this area's development.

If you require anything further, please do not hesitate to reach out to me directly. I am including in this email , the Town CAO, the Director of Infrastructure and Engineering. Additionally, I am also including Councillor English whom I initially reached out to for some direction, as he has asked that he be kept informed of responses and progress on this matter. I feel that bringing all parties together is appropriate at this point in the conversation, as the Town's stand that this issue in particular is my sole responsibility, has not been supported by any evidence based in fact. I am hoping that the information that is on file respecting the development of this lot / neighbourhood, will provide some additional context that will inform a better solution.

I am happy to respond to any and all if further information is needed.

Sincerest Regards,

[REDACTED]

[REDACTED]



May 12, 1997

[REDACTED]
Capital Ready Mix Ltd.
P.O. Box 8274, Sta "A"
St. John's, NF, A1B 3N4

RE: Storm Water Swale, Elizabeth Park

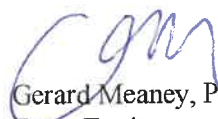
Dear [REDACTED]

Further to our conversation, attached are the details for the re-alignment of the storm drainage swale located near Phase 9 of your development in Elizabeth Park.

Prior to the commencement of any work on the swale, I would advise you to contact the Provincial Department of the Environment and the Federal Department of Fisheries and Oceans in order to obtain any necessary permits.

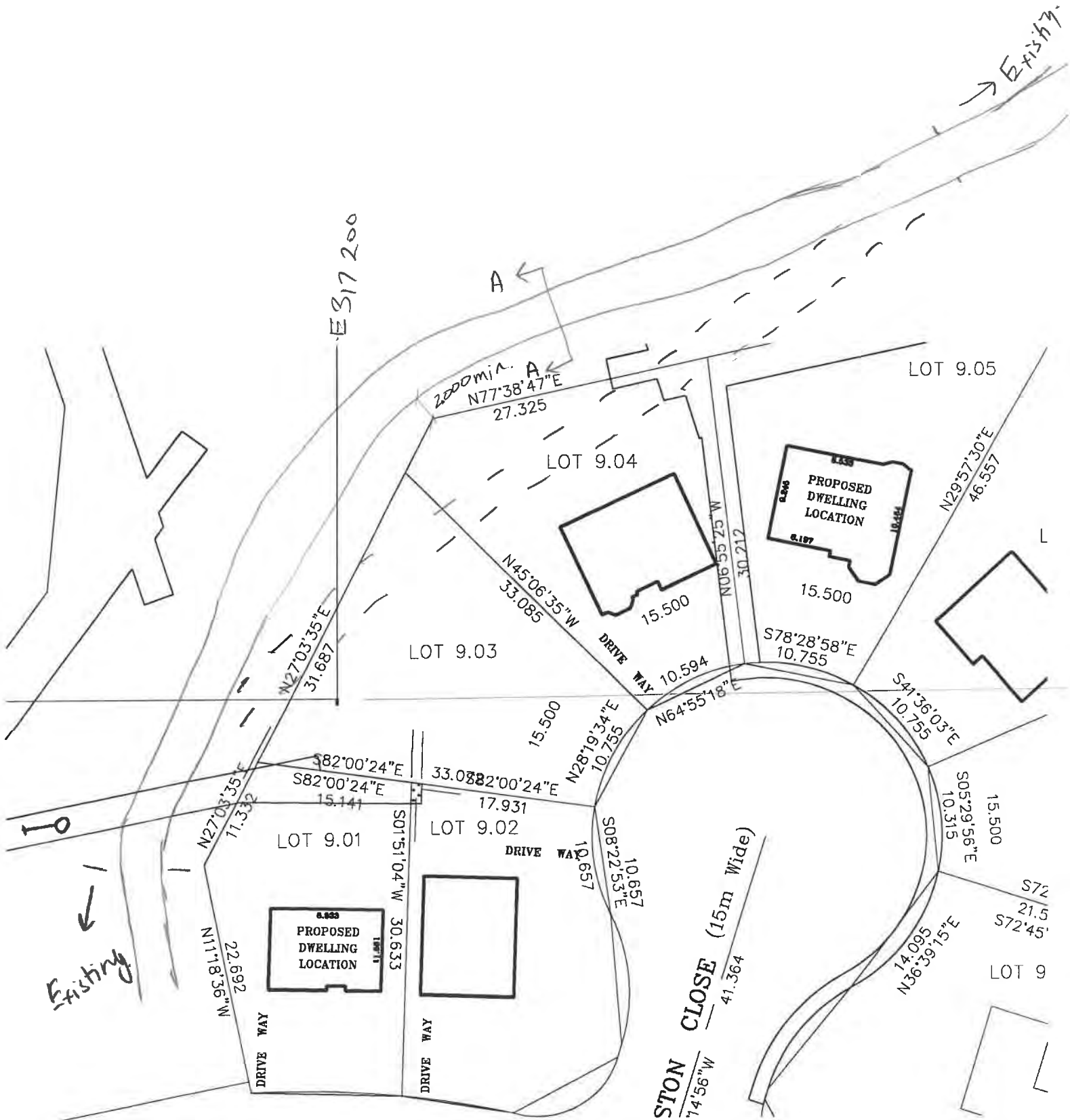
If you have any questions in relation to the above, please contact the undersigned.

Sincerely,

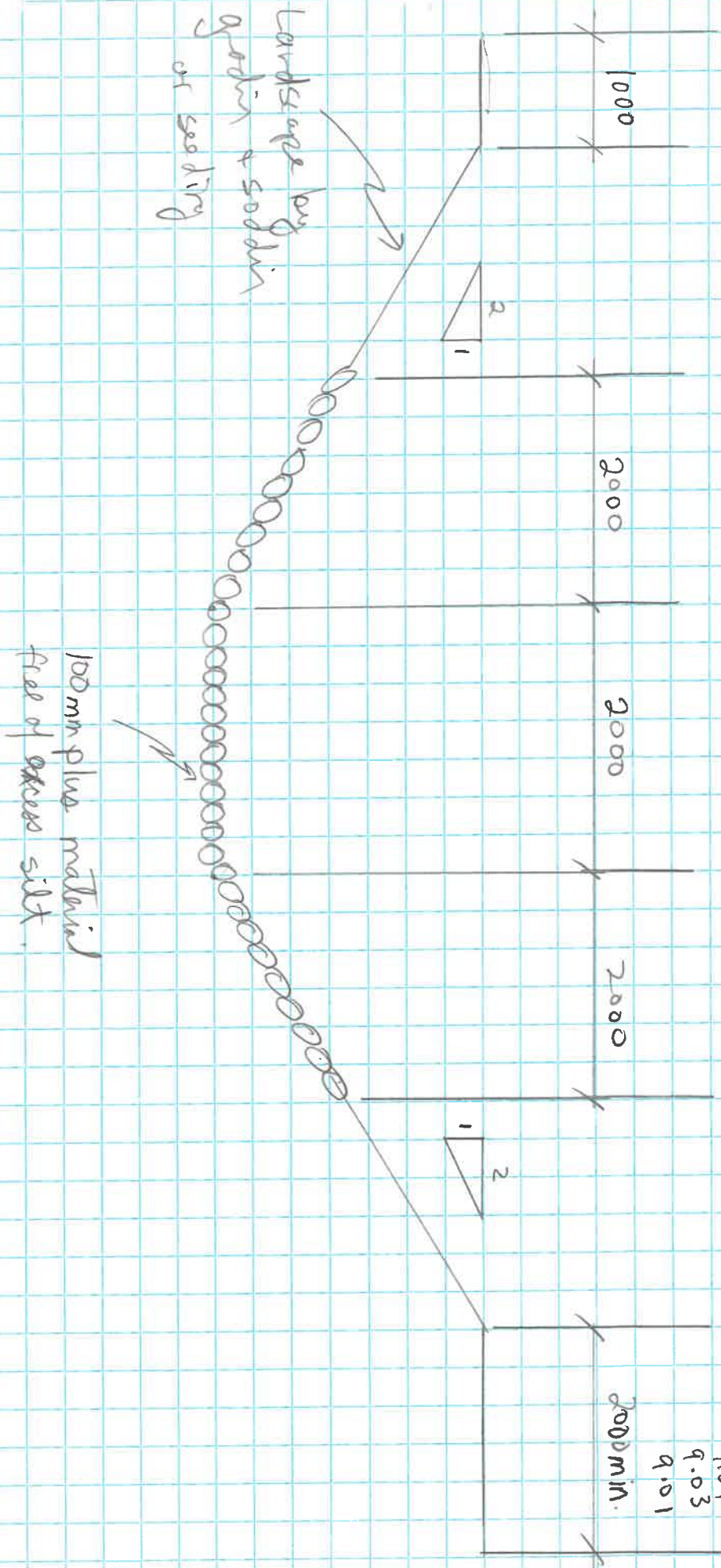

Gerard Meaney, P.Eng.
Town Engineer

Enclosures (2)

N.T.S.

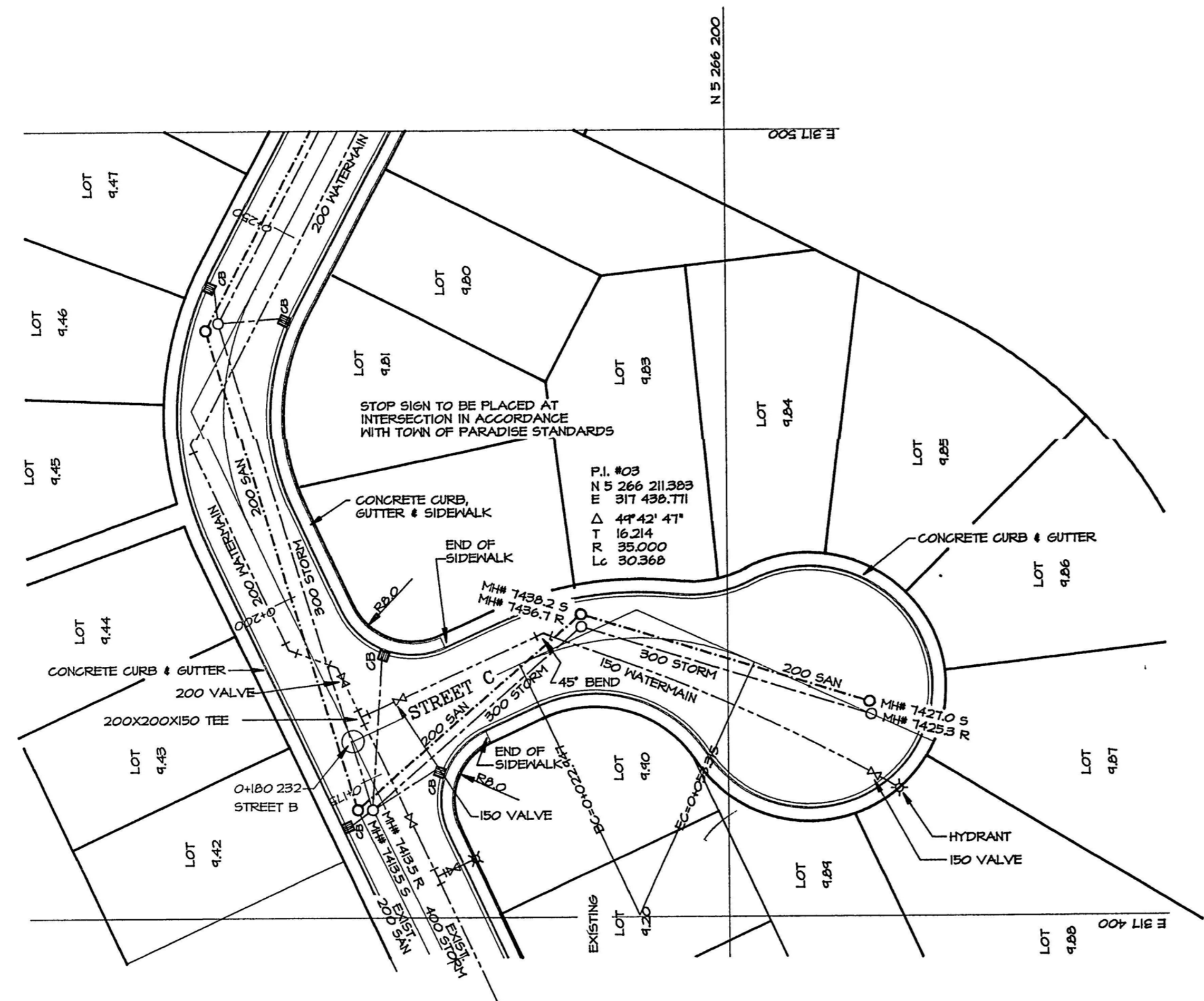


Cross-section
A-A

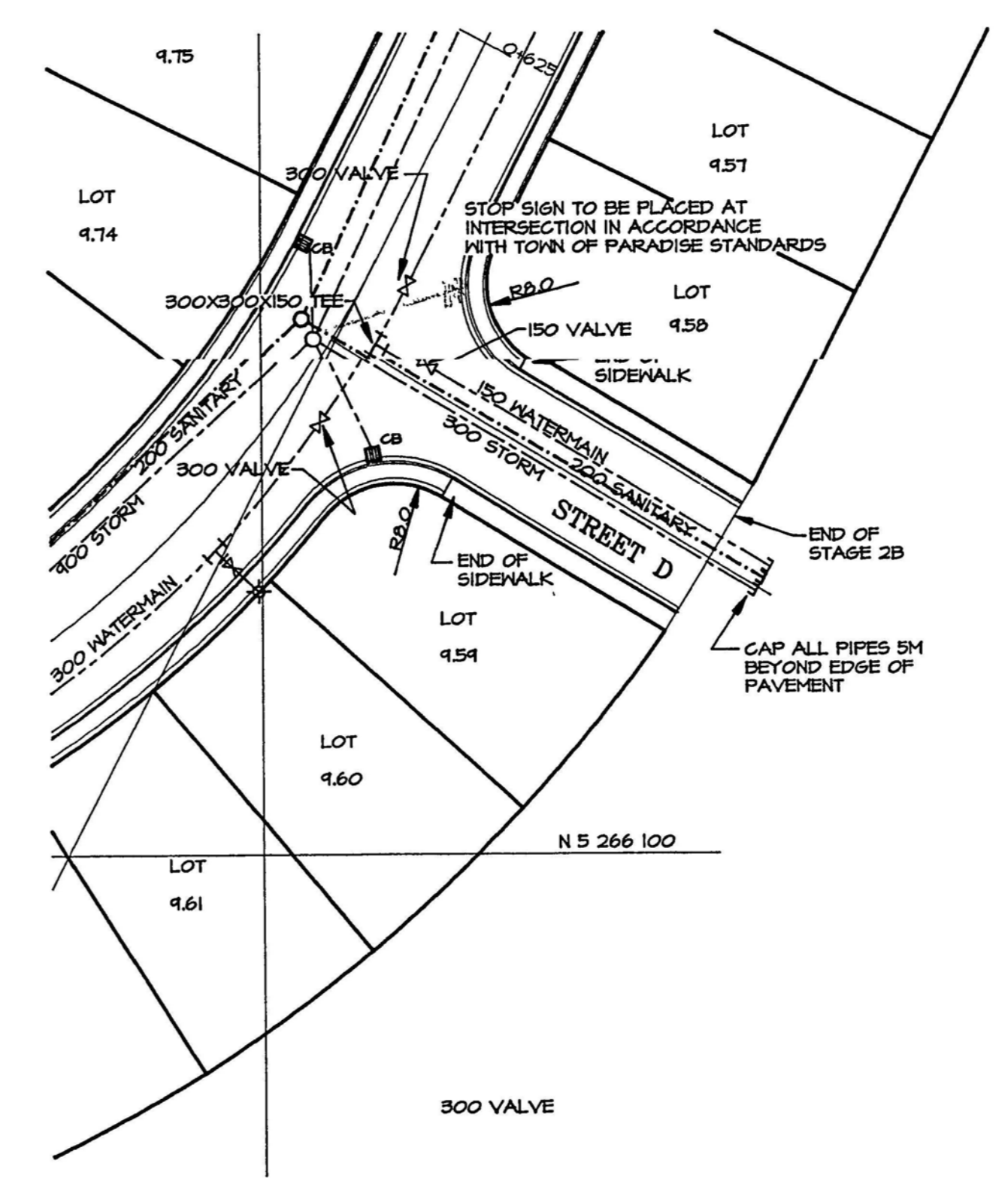
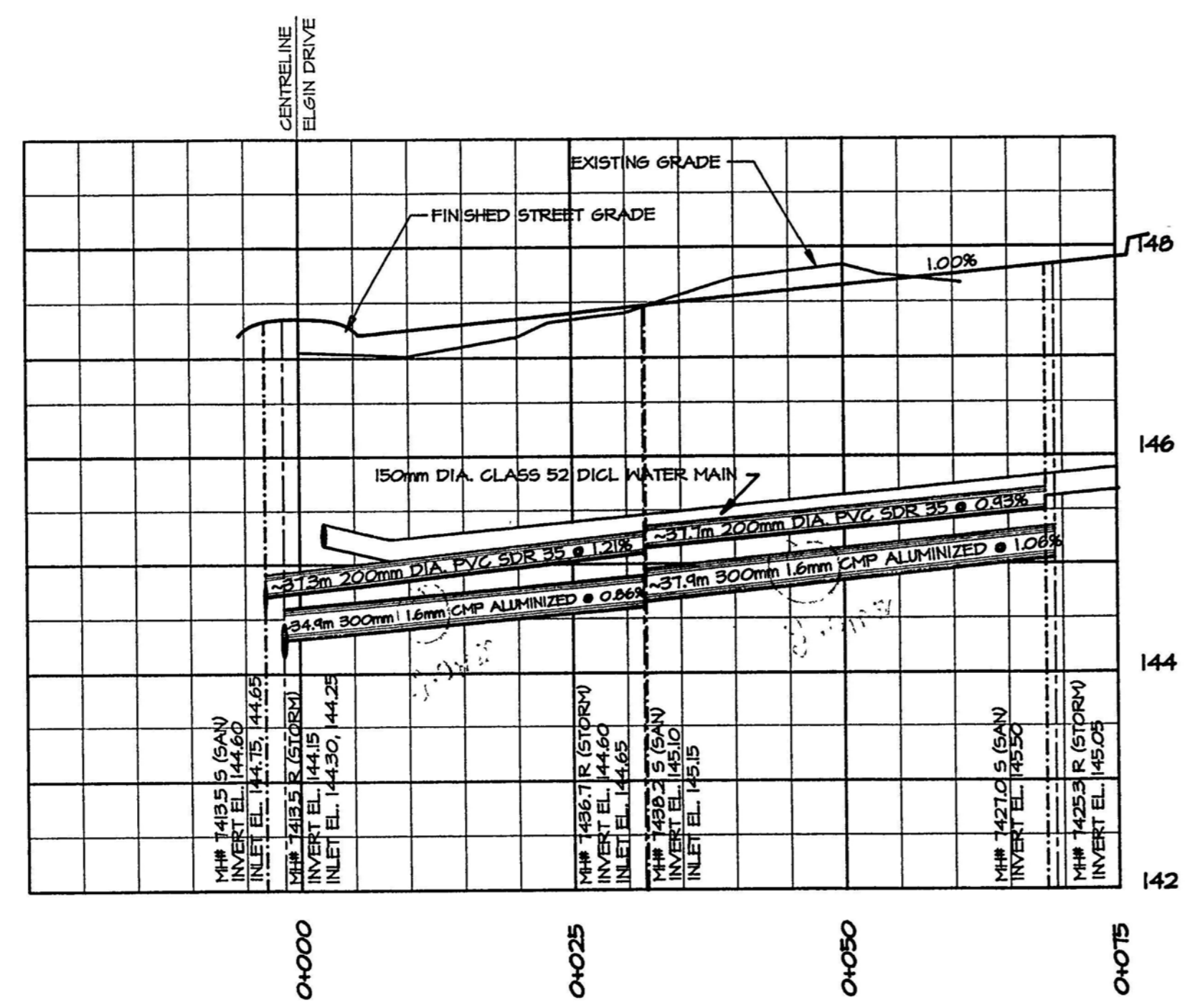


Min. grade 0.5%
Blend with existing ditch

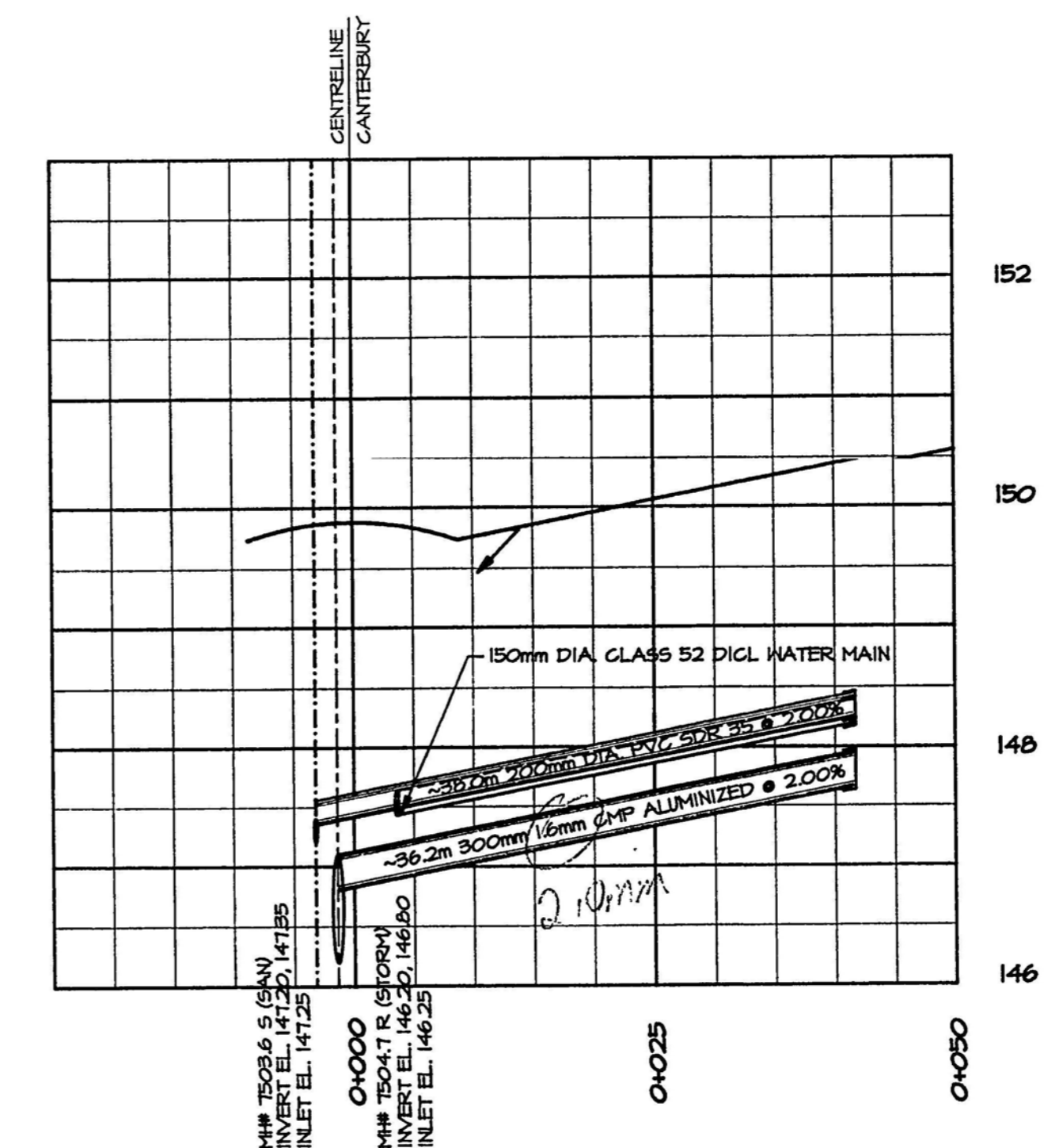
NTS
All dimensions in mm



Plan & Profile Street C

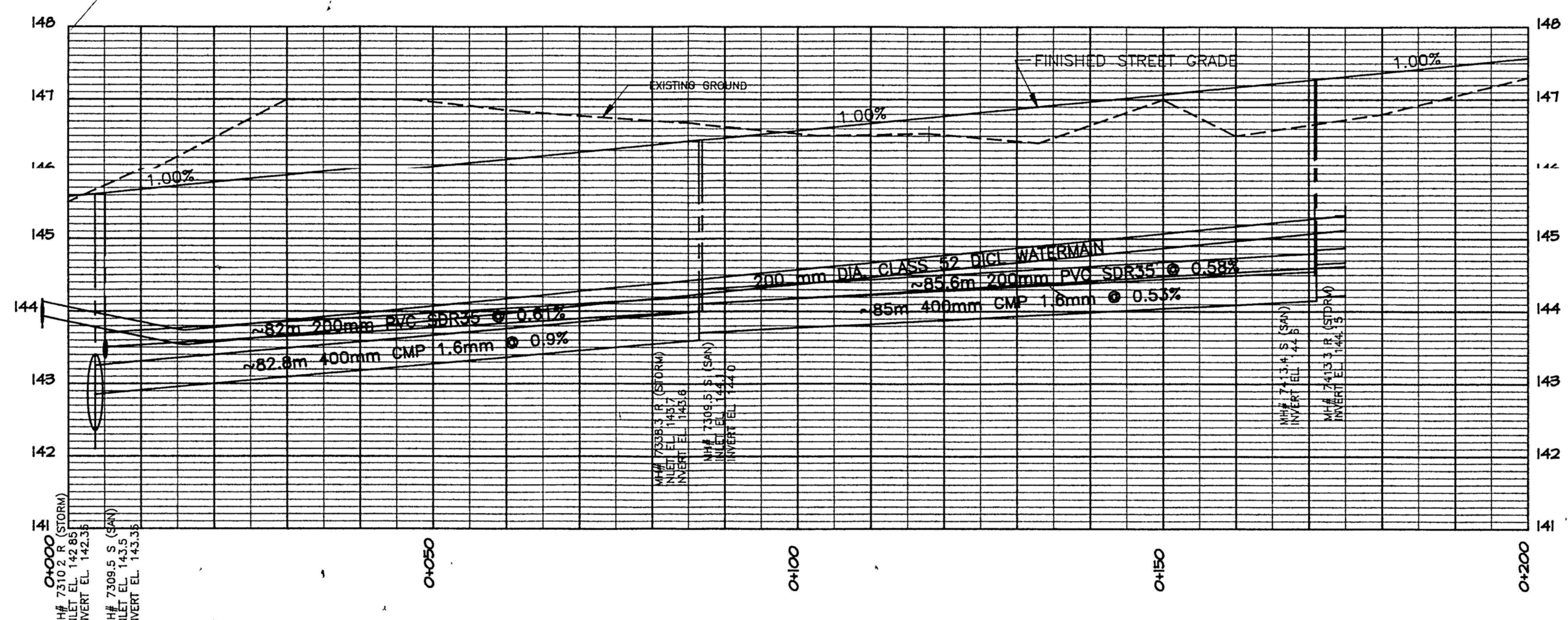
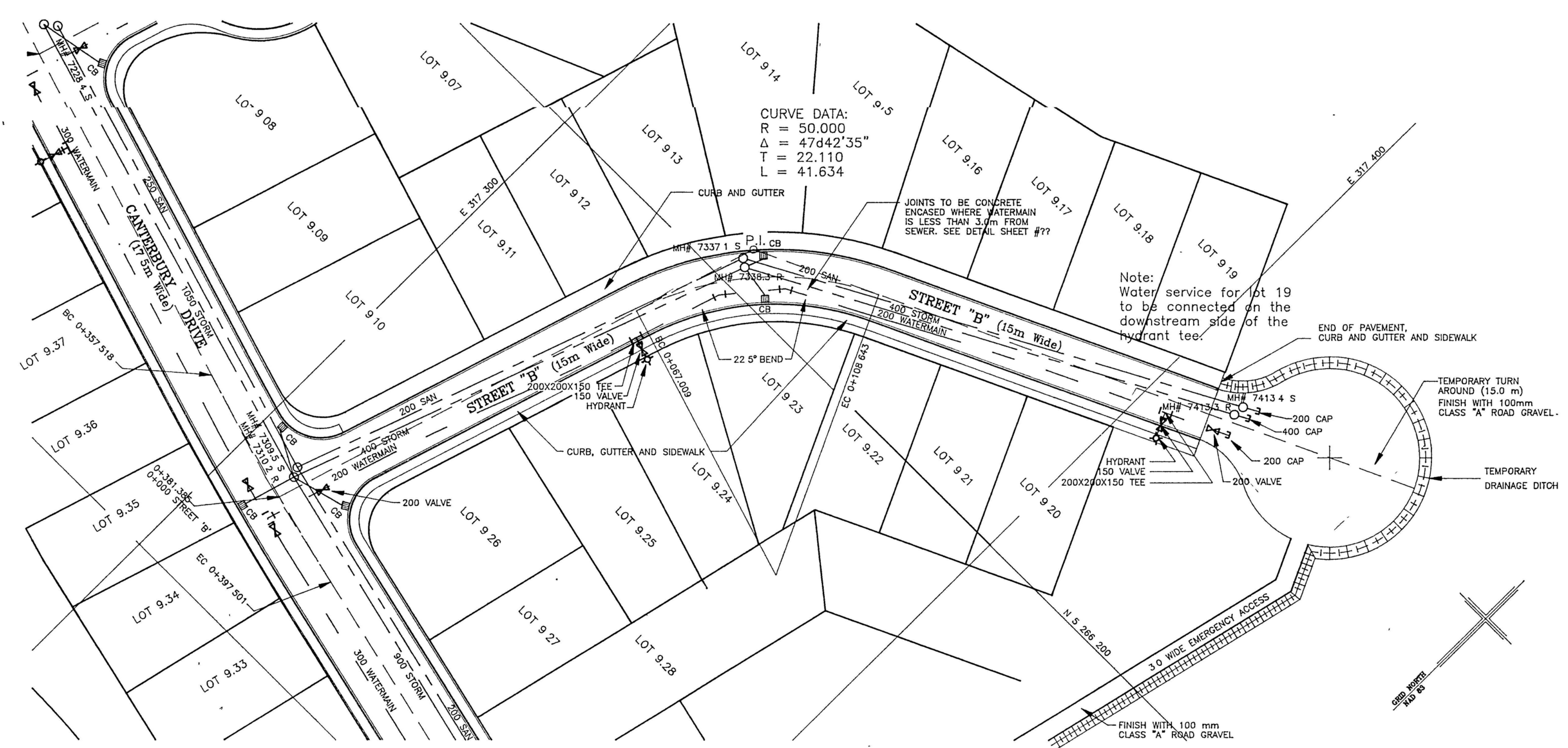


Plan & Profile Street D



001079

NOTES		
CONTRACTORS TO VERIFY ALL DIMENSIONS ON THE SITE BEFORE PROCEEDING WITH THIS WORK.		
No.	Description	Date
REVISIONS		
<div style="border: 1px solid black; padding: 5px; font-size: 0.7em;"> PROVINCE OF NEWFOUNDLAND PERMIT HOLDER CLASS "A" This Permit Allows earle & company inc. To practice Professional Engineering in Newfoundland & Labrador. Permit No. as Issued by APESN 1401B1 which is valid for the year 1997. </div>		
<div style="border: 1px solid black; padding: 5px; font-size: 0.6em;"> REGISTERED PROFESSIONAL ENGINEER W. R. Y. DALE NEWFOUNDLAND & LABRADOR </div>		Reference North
Consultant		
earle & company inc. planning and consulting engineers 25 kenmount road st. John's, newfoundland		
Surveyor		
William Doyle & Associates Ltd. 44 Birchwynd Street St. John's Newfoundland		
Authority		
Town of Paradise		
Drawn by PETER MERGER	Developed by	
Checked by	Date	
Approved by	Date	
Scale:	HORIZONTAL 1 : 500 VERTICAL 1 : 50	
Project		
Elizabeth Park Subdivision Stage 9B Paradise, Newfoundland		
Drawing Title		
Plan & Profile Street C Street D		
Sht 05 Of 07	Plot Date 25 AUG 1997	
Project No.	Drawing No.	
112-02	112-02-05	



001272

NOTES

- CONTRACTORS TO VERIFY ALL DIMENSIONS ON THE SITE BEFORE PROCEEDING WITH THIS WORK.
- CATCH BASINS AT TURNOUTS OR STREET LOW POINTS ARE TO BE LOCATED IN THE FIELD, AT ACTUAL LOW POINTS.
 - CONTOURS ARE APPROXIMATE ONLY.
 - BEWARE OF BURIED AND ABOVE GROUND UTILITIES. ALL UTILITIES MAY NOT BE SHOWN. CONTRACTOR IS RESPONSIBLE FOR LOCATION AND PROTECTION OF ALL UTILITIES. PERMISSION MUST BE OBTAINED BY CONTRACTOR BEFORE CHANGING OUT WORK WITHIN UTILITY EASEMENT. ALL EXISTING UNDERGROUND OR SURFACE UTILITIES MAY NOT BE AS SHOWN. CONTRACTOR TO BE RESPONSIBLE FOR LOCATING AND AVOIDING DAMAGE TO THEM.
 - CONTRACTOR IS INSTRUCTED TO USE PIPE INVERTS, NOT PERCENTAGES, FOR LAYOUT.
 - ELEVATIONS OF MANHOLE TOPS SHOWN ON PROFILE ARE NOT NECESSARILY THE SET MANHOLE TOP ELEVATIONS. SET MANHOLE TOP ELEVATIONS TO SUIT THE FINISHED GRADES.
 - TOP OF WATERMAIN AND ALL WATER SERVICES SHALL HAVE A MINIMUM OF 2.0 M COVER BELOW THE DESIGN FINISHED GRADE AT ALL LOCATIONS.
 - ALL CMP TO BE ALUMINIZED.

B	Hydrant moved to vacant lot opposite lot 19	15/07/96
A	Note added at lot 19 re connection of water main	27/06/96

REVISIONS

PROVINCE OF NEWFOUNDLAND
 PERMIT HOLDER
 CLASS "A"
 This Permit Allows
 earle & company inc.
 To practise Professional Engineering
 in Newfoundland & Labrador.
 Permit No. as issued by APESN DO126
 which is valid for the year 1996

Stamp	Reference North
-------	-----------------

Consultant
earle & company inc.
 planning and consulting engineers.
 25 kenmount road
 st. john's, newfoundland

Surveyor
William Doyle & Associates Ltd.
 49 Birchwynd Street
 St. John's Newfoundland

Authority
TOWN OF PARADISE

Drawn by	Developed by
Checked by	Date
Approved by	Date
Scale	HORIZONTAL 1 : 500 VERTICAL 1 : 50

PROJECT
ELIZABETH PARK SUBDIVISION
 STAGE 9
 PARADISE, NEWFOUNDLAND

DRAWING TITLE
PLAN & PROFILE
STREET "B"

SHEET 3 OF 7	PLOT DATE: JUNE 14/96
PROJECT NO. 112-01	DRAWING NO. 112-01-03

088/100

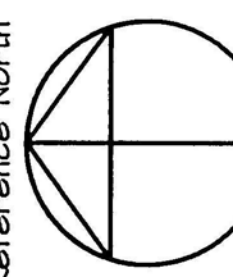
NOTES
CONTRACTORS TO VERIFY ALL DIMENSIONS ON THE SITE BEFORE PROCEEDING WITH THIS WORK

No.	Description	Date

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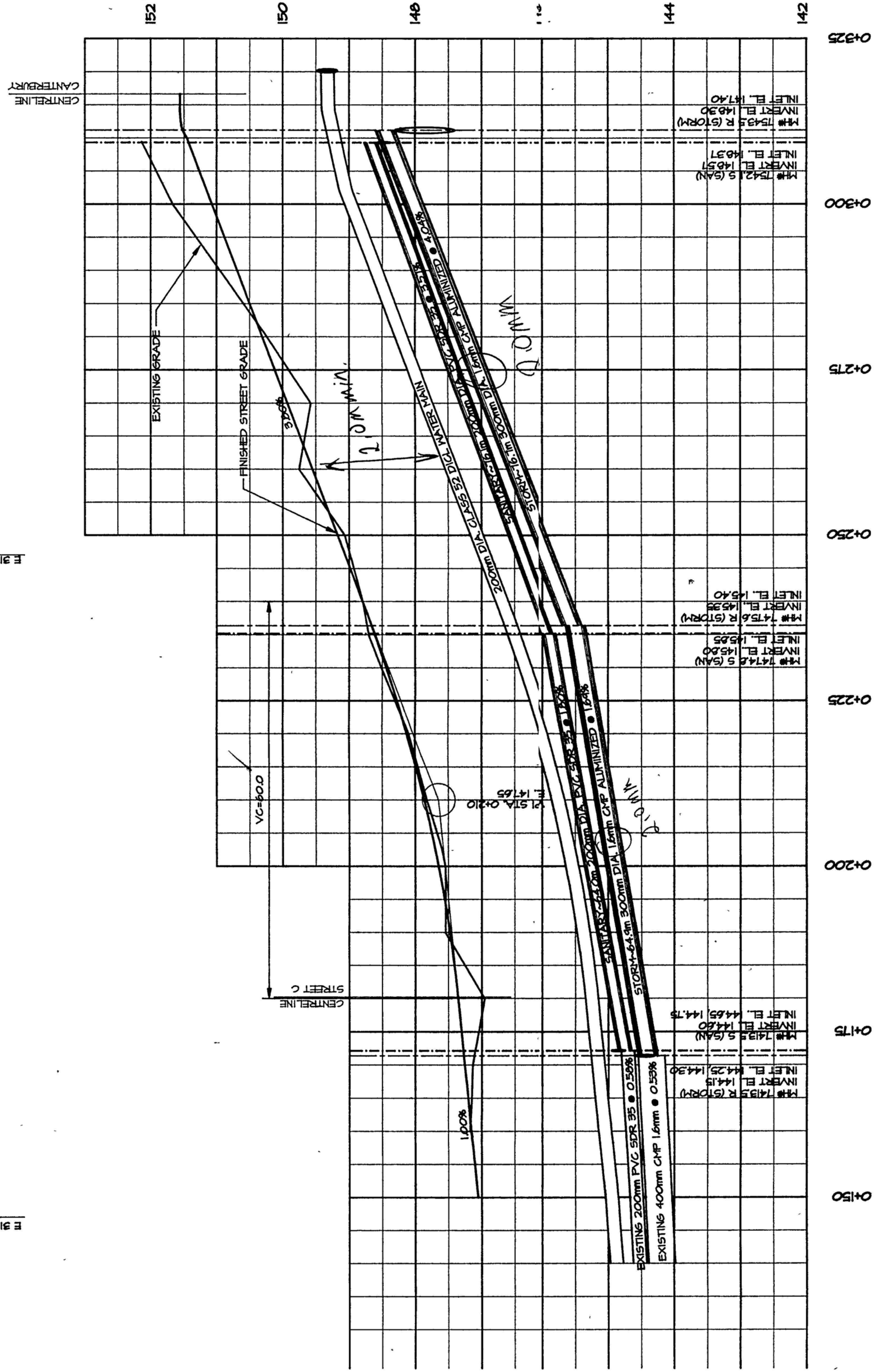
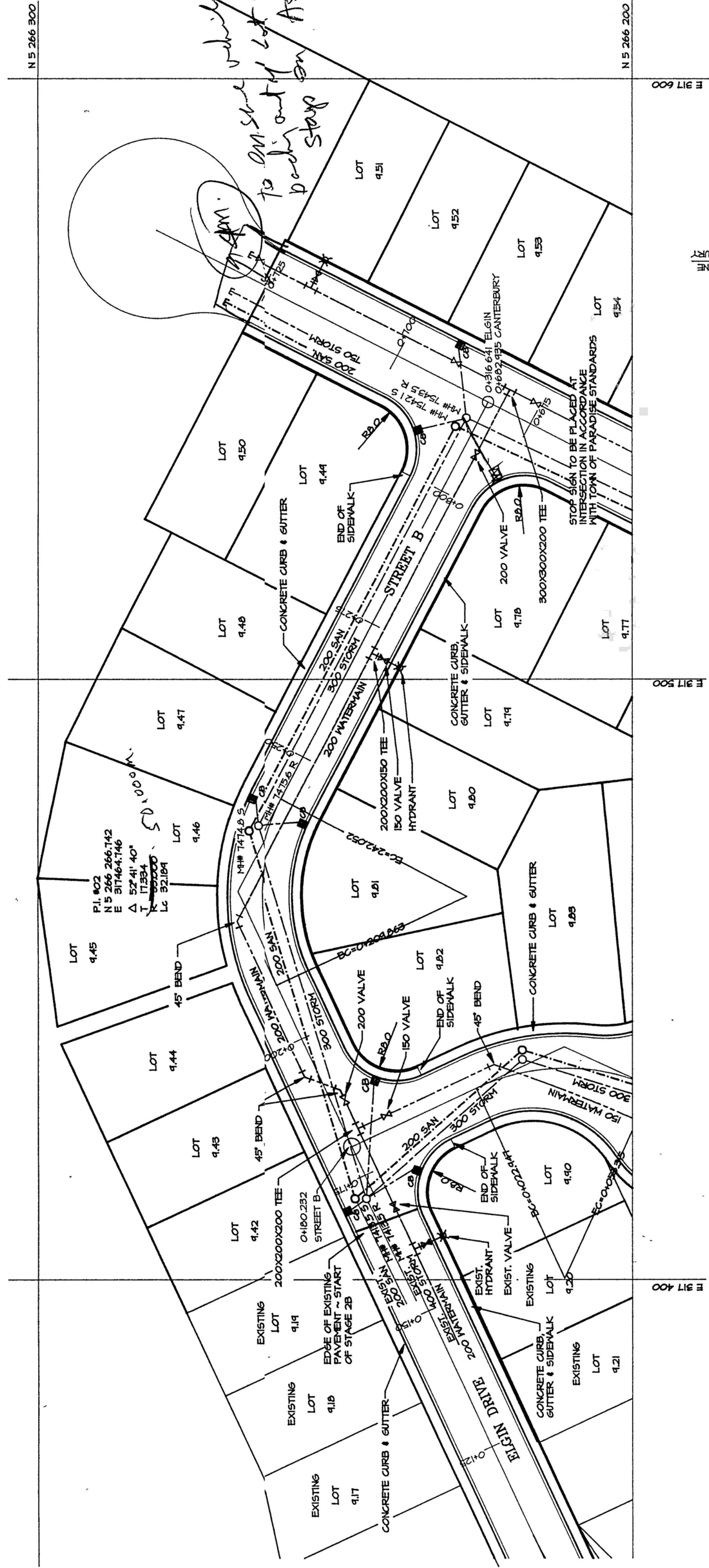
Authority
Town of Paradise

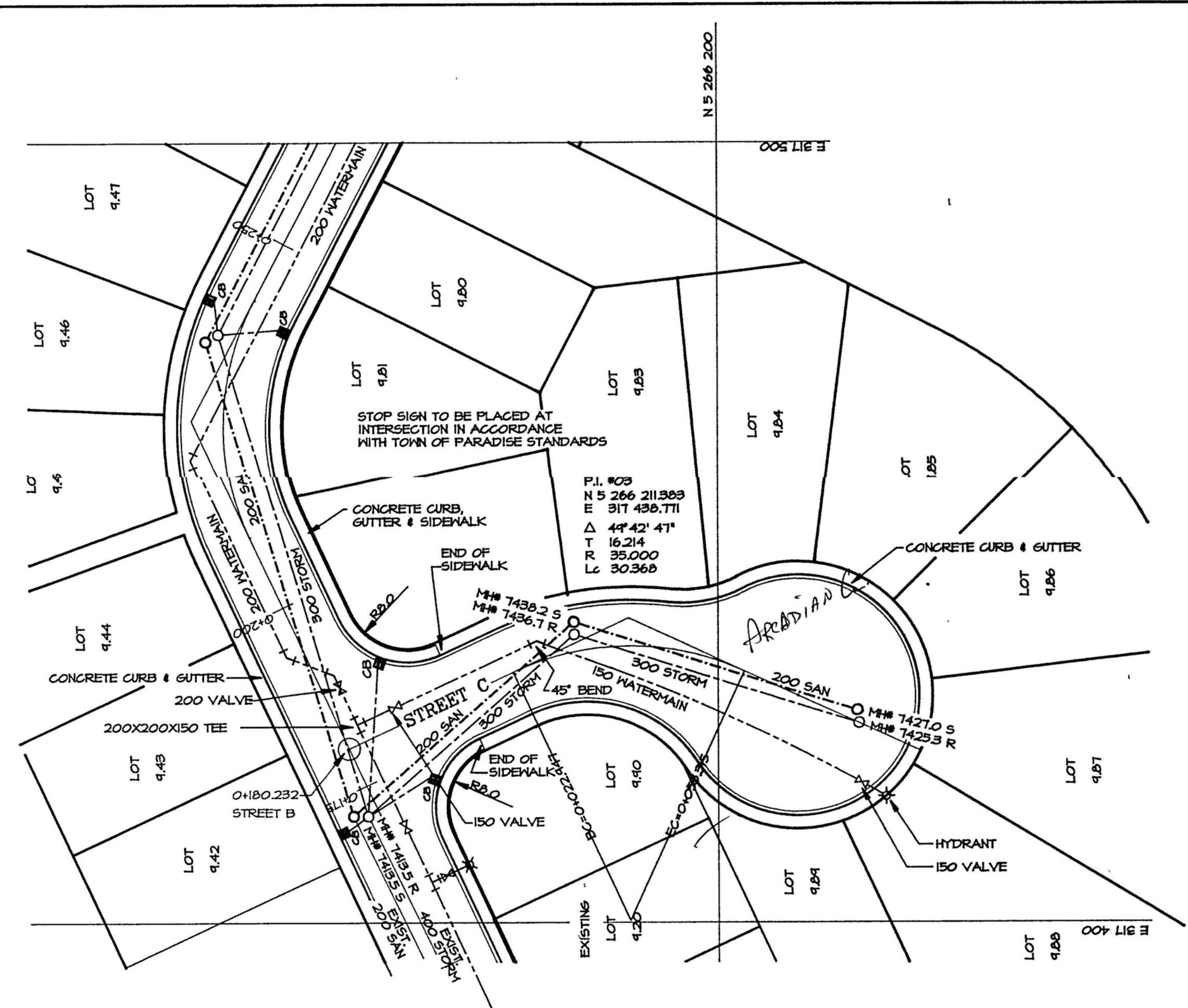
Drawn by PETERS, REBECCA | Developed by
Checked by | Date
Approved by | Date
Scale: HORIZONTAL: 1:500
VERTICAL: 1:250

Elizabeth Park
Subdivision
Stage 4B
Paradise, Newfoundland

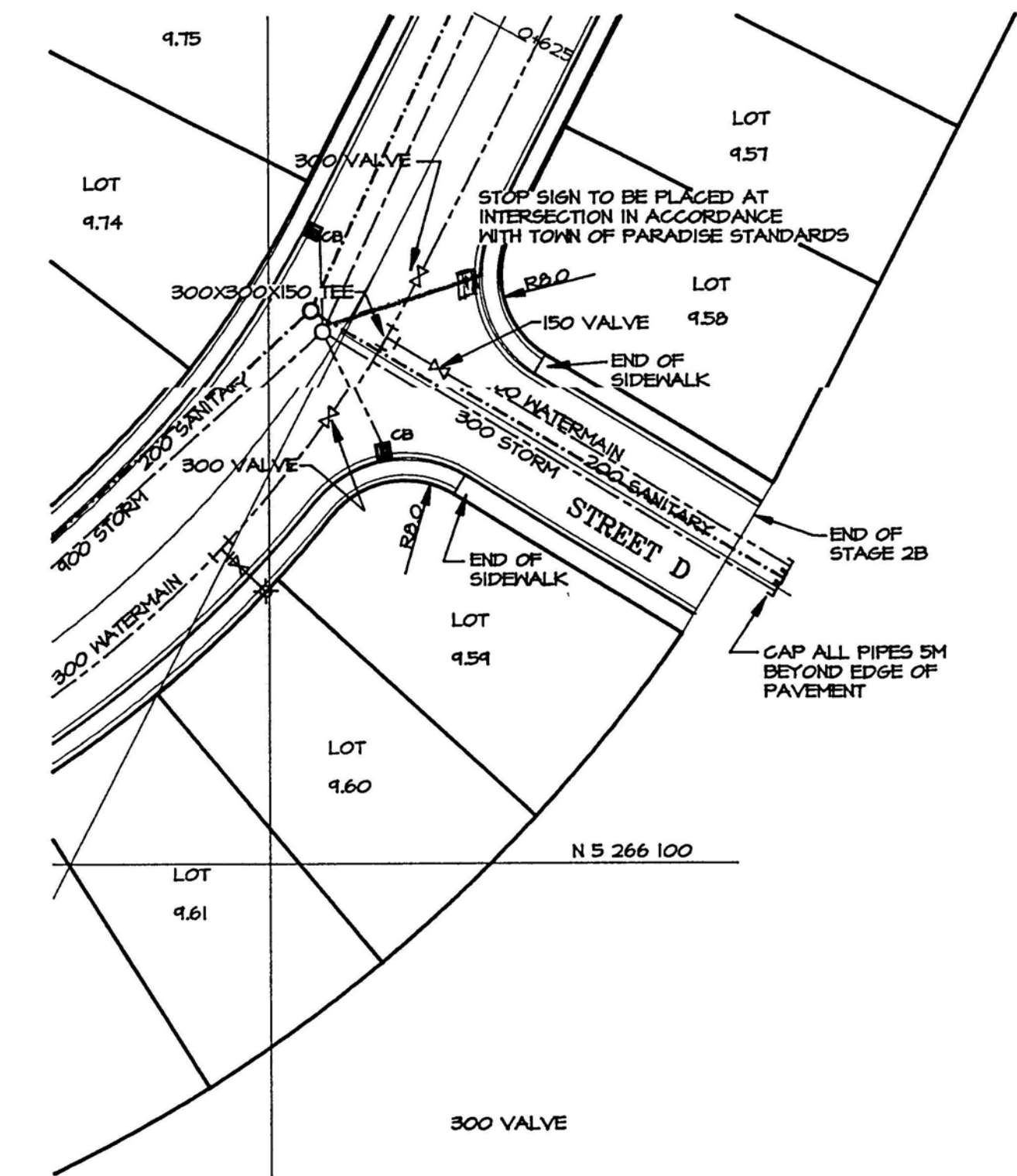
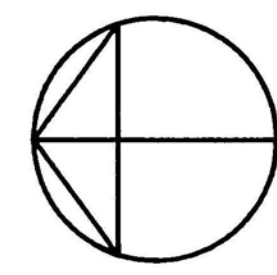
Drawing Title
Plan & Profile
Eigh Drive

Sheet 04 of 07 | Plot Date 25 AUG 1997
Project No. 112-02 | Drawing No. 112-02-04

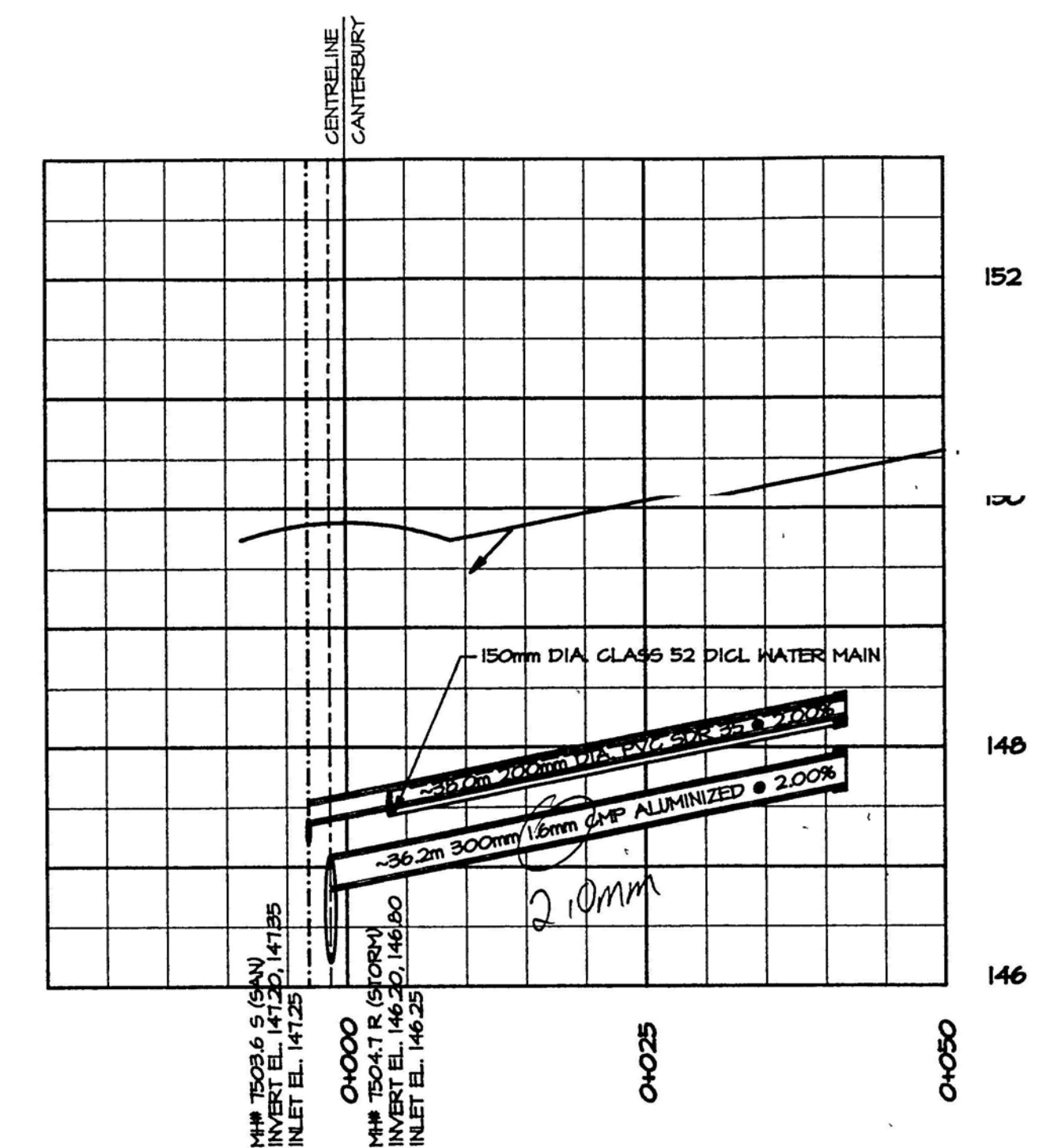
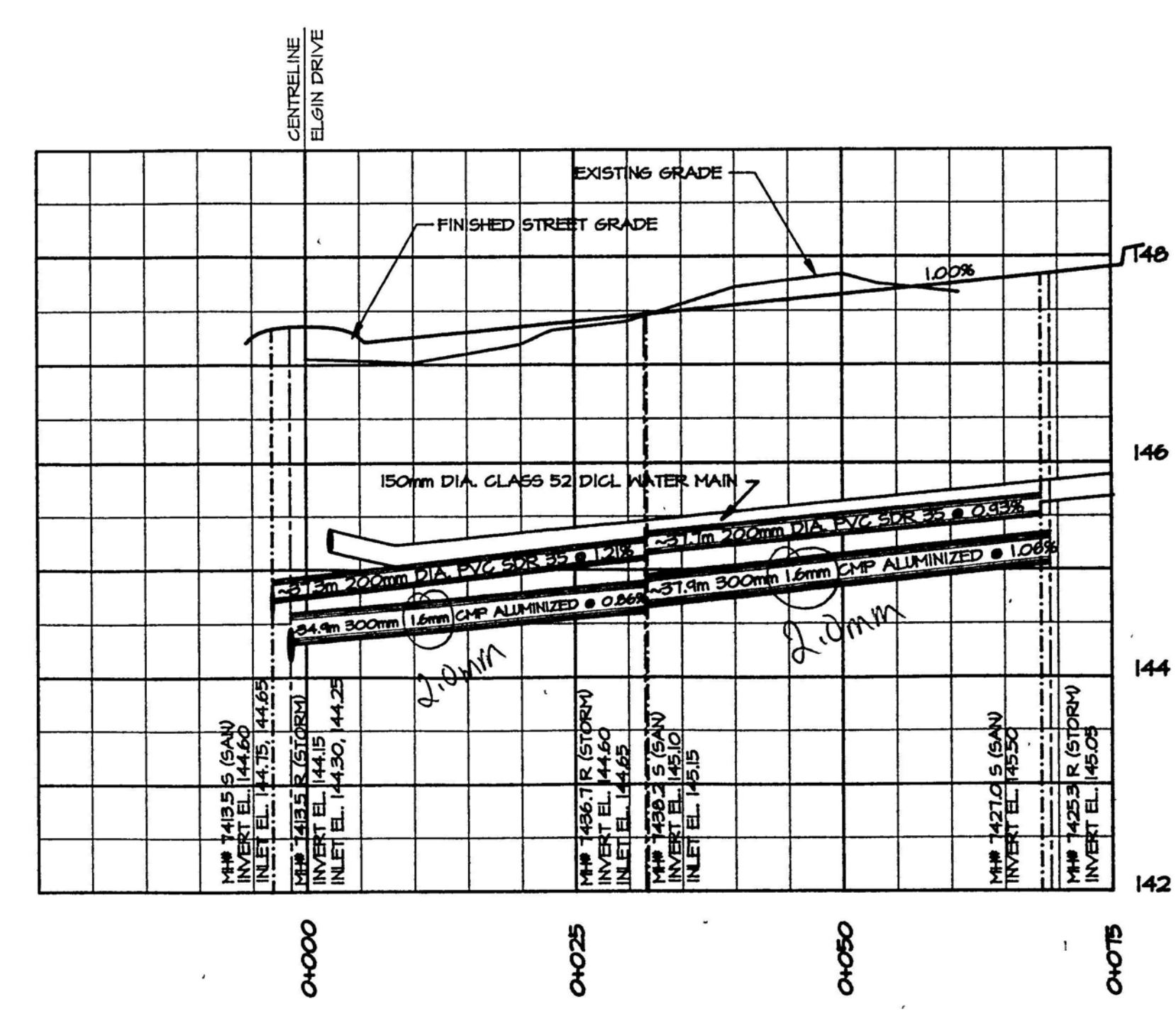
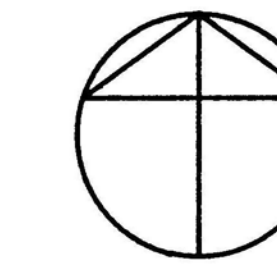




Plan & Profile Street C



Plan & Profile Street D



NOTES

CONTRACTORS TO VERIFY ALL DIMENSIONS ON THE SITE BEFORE PROCEEDING WITH THIS WORK

No.	Description	Date

REVISIONS

PROVINCE OF NEWFOUNDLAND
 PERMIT HOLDER
 CLASS "A"
 This Permit Allows
earle & company Inc.
 To practice Professional Engineering
 in Newfoundland & Labrador
 Permit No. 02 issued by APECA (10/01)
 which is valid for the year 1997



Reference North

Consultant
earle & company Inc.
 planning and consulting engineers
 25 kenmount road
 st. John's, newfoundland

Surveyor
William Doyle & Associates Ltd.
 49 Birchmount Street
 St. John's Newfoundland

Authority
 Town of Paradise

Drawn by PETER MERGER Developed by
 Checked by Date
 Approved by Date

Scale: HORIZONTAL 1 : 500
 VERTICAL 1 : 50

Project
Elizabeth Park
 Subdivision
 Stage 9B
 Paradise, Newfoundland

Drawing Title
Plan & Profile
 Street C
 Street D

Sht 05 OF 07 Plot Date 25 AUG 1997
 Project No. 112-02 Drawing No. 112-02-05

001281

001278

DO NOT SCALE FROM PRINT

NOTES:
 CONTROL MONUMENTS USED (NAD 83)
 8002178 E 377 272.800
 8002178 N 5 268 801.867
 1. ALL POWERLINE FACILITIES SHOWN ARE BASED
 PARTICULARLY DESCRIBED ON FILED POWER PLAN NO.
 1-1175-31-50A.

REVISIONS:
 1. REVISED RIGHT OF WAY AND LOT 8-42 - DEC. 22, 1997

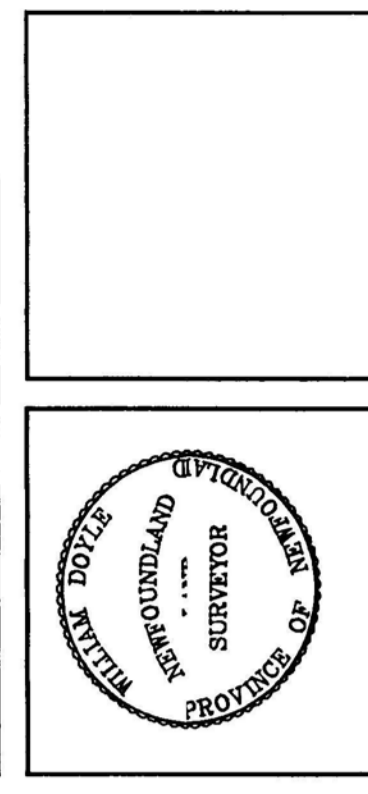
ENGINEERING:
**EARLE AND COMPANY
 INCORPORATED**
 25 KENMOUNT ROAD
 ST. JOHN'S, NEWFOUNDLAND

CLIENT:
**PARADISE DEVELOPMENT
 CORPORATION**

SURVEYING:
**WILLIAM DOYLE AND
 ASSOCIATES LIMITED**
 49 BIRCHWYND ST., ST. JOHN'S, NF

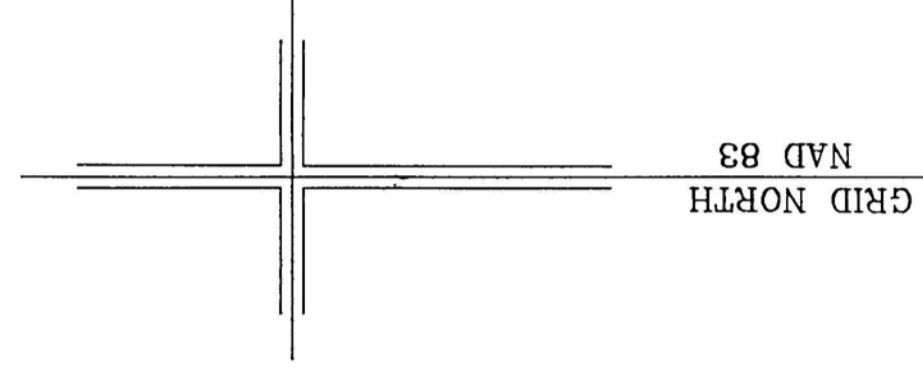
PROJECT:
**ELIZABETH PARK
 SUBDIVISION
 STAGE 9B**
 PARADISE, NEWFOUNDLAND

SHEET TITLE:
**SUBDIVISION
 PLAN
 (AS-BUILTS)**



AUTHORITY:
**TOWN OF
 PARADISE**

SCALE: 1 : 500 DATE: SEPT. 1997
 DRAWN: D. TOOPE SHEET 1 OF 1
 CHECKED: DRAWING NO.:
 APPROVED: PROJECT NO.: 97-417 A

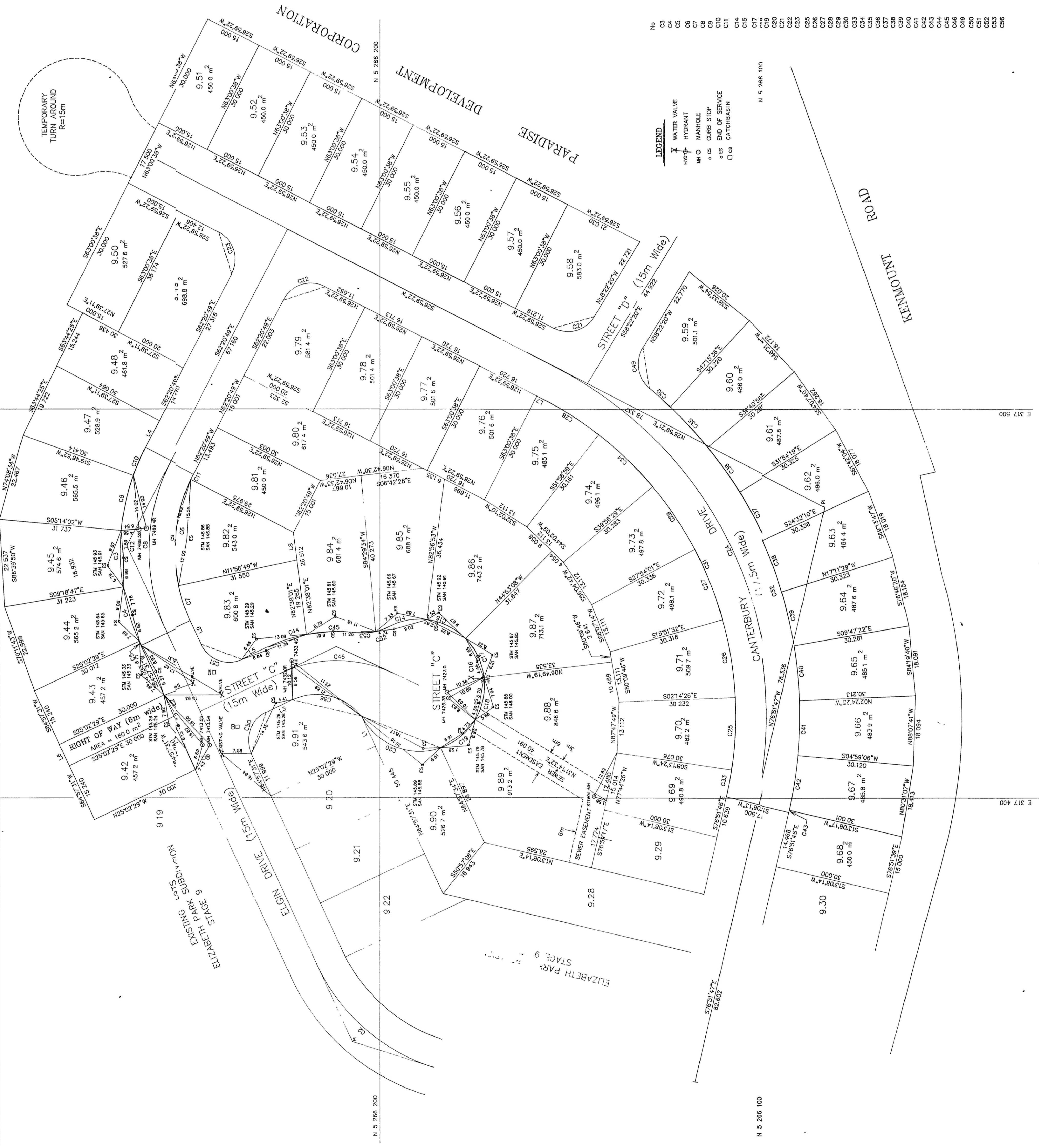


LINE No.	Bearing	Distance
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2	S84°57'31"W	6.000
3	S25°02'29"E	7.448
4	S25°02'29"W	7.448
5	S84°57'31"W	6.000
6	S25°02'29"E	6.000
7	S82°38'05"W	2.086
8	S82°38'05"W	7.247
9	S84°57'31"W	6.703

Curve No.	Radius	Chord	Delta
C1	57,500	14,324.9	143°24.8'
C2	57,500	14,637	143°50.6'
C3	57,500	1,147	0°10.934'
C4	42,500	27,512	37°46.10'
C5	42,500	4,563	12°53.30'
C6	42,500	4,563	12°53.30'
C7	57,500	14,560	143°24.8'
C8	57,500	7,901	07°32.22'
C9	42,500	1,508	2°01.95'
C10	17,000	10,032	34°23.28'
C11	17,000	11,087	38°03.47'
C12	17,000	11,086	38°03.40'
C13	17,000	11,577	39°53.10'
C14	17,000	11,577	39°53.10'
C15	17,000	24,192	81°32.06'
C16	8,000	10,847	85°21.42'
C17	8,000	11,379	90°39.49'
C18	8,000	12,985	113°13.13'
C19	9,125	18,642	114°21.19'
C20	9,125	20,289	121°02.02'
C21	9,125	16,815	107°34.24'
C22	9,125	19,470	121°14.54'
C23	108,750	7,217	3°48.09'
C24	9,125	6,954	4°22.03'
C25	9,125	19,489	121°14.14'
C26	108,750	14,161	7°27.40'
C27	108,750	14,179	7°28.32'
C28	108,750	14,144	7°27.06'
C29	108,750	14,242	7°30.31'
C30	108,750	14,196	7°29.04'
C31	108,750	14,148	7°27.14'
C32	108,750	0.533	0°16.50'
C33	42,500	10,586	14°18.31'
C34	42,500	12,932	17°26.02'
C35	35,000	29,425	50°01.01'
C36	8,000	10,671	83°39.01'
C37	8,000	11,134	89°59.59'
C38	8,000	12,586	111°31.31'
C39	15,000	3,730	14°14.56'
C40	15,000	5,156	19°47.32'
C41	15,000	18,866	53°23.25'

Curve No.	Radius	Chord	Delta
C42	57,500	14,589	143°24.8'
C43	57,500	14,637	143°50.6'
C44	57,500	1,147	0°10.934'
C45	42,500	27,512	37°46.10'
C46	42,500	4,563	12°53.30'
C47	42,500	4,563	12°53.30'
C48	57,500	14,560	143°24.8'
C49	57,500	7,901	07°32.22'
C50	42,500	1,508	2°01.95'
C51	17,000	10,032	34°23.28'
C52	17,000	11,087	38°03.47'
C53	17,000	11,086	38°03.40'
C54	17,000	11,577	39°53.10'
C55	17,000	11,577	39°53.10'
C56	17,000	24,192	81°32.06'
C57	8,000	10,847	85°21.42'
C58	8,000	11,379	90°39.49'
C59	8,000	12,985	113°13.13'
C60	9,125	18,642	114°21.19'
C61	9,125	20,289	121°02.02'
C62	9,125	16,815	107°34.24'
C63	9,125	19,470	121°14.54'
C64	108,750	7,217	3°48.09'
C65	9,125	6,954	4°22.03'
C66	9,125	19,489	121°14.14'
C67	108,750	14,161	7°27.40'
C68	108,750	14,179	7°28.32'
C69	108,750	14,144	7°27.06'
C70	108,750	14,242	7°30.31'
C71	108,750	14,196	7°29.04'
C72	108,750	14,148	7°27.14'
C73	108,750	0.533	0°16.50'
C74	42,500	10,586	14°18.31'
C75	42,500	12,932	17°26.02'
C76	35,000	29,425	50°01.01'
C77	8,000	10,671	83°39.01'
C78	8,000	11,134	89°59.59'
C79	8,000	12,586	111°31.31'
C80	15,000	3,730	14°14.56'
C81	15,000	5,156	19°47.32'
C82	15,000	18,866	53°23.25'

LEGEND:
 X WATER VALVE
 H HOSE VALVE
 M HO MANHOLE
 C CURB STOP
 E END OF SERVICE
 D CATCHBASIN



N 5 266 300

N 5 266 100

N 5 266 200

N 5 266 300

