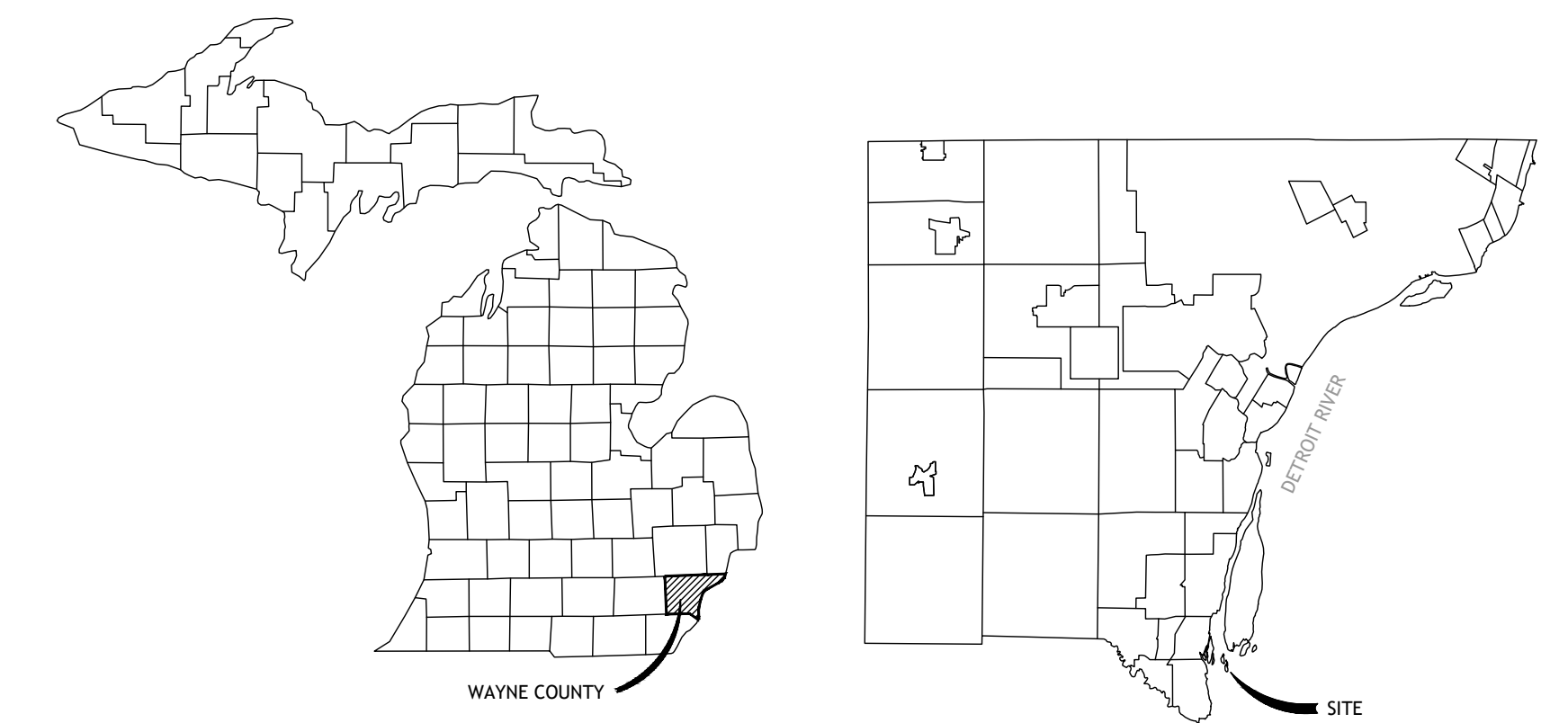


# CELERON ISLAND HABITAT RESTORATION

## AS-BUILTS 10/21/2019

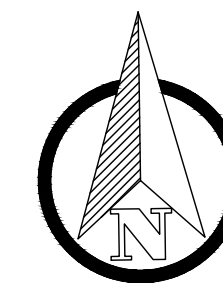
### SHEET INDEX

## THE DETROIT RIVER WAYNE COUNTY, MICHIGAN



LOCATION MAP

N.T.S.



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(734) 759-1600  
FAX (734) 282-6566  
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	COVER SHEET
PS1	SHOAL PROFILE SECTIONS
CE1	SHOAL A CORE STONE PROFILES 0+50 - 2+75
CE2	SHOAL B CORE STONE PROFILES 0+50 - 3+00
CE3	SHOAL B CORE STONE PROFILES 3+50 - 3+75
CE4	SHOAL C CORE STONE PROFILES 0+50 - 3+00
CE5	SHOAL C CORE STONE PROFILES 3+50
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CE27	NORTH ISLAND SHOAL & EXT ARMOR 0+10 - 0+90, 0+25 - 2+00
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CE29	NORTH ISLAND SHOAL ARMOR PROFILES 9+00 - 10+00

**HENNESSEY ENGINEERS NOTES:**

HENNESSEY ENGINEERS, INC., SHALL NOT BE RESPONSIBLE FOR MEANS, METHODS, PROCEDURES, TECHNIQUES, OR SEQUENCES OF CONSTRUCTION, NOR FOR SAFETY ON THE JOB SITE, NOR SHALL HENNESSEY ENGINEERS, INC., BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

THE CONTRACTOR SHALL IDENTIFY AND SAVE HARMLESS THE OWNER AND ENGINEER FROM ALL LIABILITIES FOR INJURY TO PERSON, OR DAMAGE TO OR LOSS OF PROPERTY, OR ANY OTHER LOSS, COST OF EXPENSE, AS A RESULT OF THE ACTIONS OF THE CONTRACTOR, HIS EMPLOYEES, AGENTS, OR SUBCONTRACTORS.

THE LOCATION AND ELEVATION OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE DRAWINGS ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT LOCATION AND ELEVATION OF THE EXISTING UTILITIES AND PROPOSED UTILITY CROSSINGS IN THE FIELD PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY CONFLICTS ARE APPARENT OR IF THE LOCATION OR DEPTH DIFFERS SIGNIFICANTLY FROM THE PLAN.

ALL FILL IN EXCESS OF TWO FEET (2') SHALL BE ENGINEERED FILL AND SHALL BE COMPACTED TO 95% MAXIMUM DENSITY UNLESS OTHERWISE DIRECTED. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DENSITY TESTING.

UTILITY INFORMATION, AS SHOWN, INDICATES APPROXIMATE LOCATIONS AND TYPES OF FACILITIES ONLY, AS DISCLOSED TO THIS FIRM BY THE VARIOUS UTILITY COMPANY'S RECORDS. NO GUARANTEE IS GIVEN OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF.

PRIOR TO CONSTRUCTION, ALL LOCATIONS AND DEPTHS OF EXISTING OVERHEAD AND UNDERGROUND UTILITIES (IN CONFLICT WITH THE CONSTRUCTION OF PROPOSED IMPROVEMENTS) SHALL BE VERIFIED IN THE FIELD.

DURING CONSTRUCTION, CONTRACTOR SHALL USE EXTREME CAUTION WHEN OPERATING NEAR OVERHEAD AND/OR BURIED UTILITIES.

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3 WORKING DAYS  
**811** BEFORE YOU DIG  
1-800-482-7171  
OR  
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TOLL FREE FOR THE LOCATION OF UNDERGROUND FACILITIES.  
KNOW WHAT'S BELOW





PROJECT NUMBER:  
52318

DATE:  
10/21/19

SCALE:  
N.T.S.

DESIGNED BY:

DRAWN BY:  
JAB

CHECKED BY:

APPROVED BY:

REVISIONS

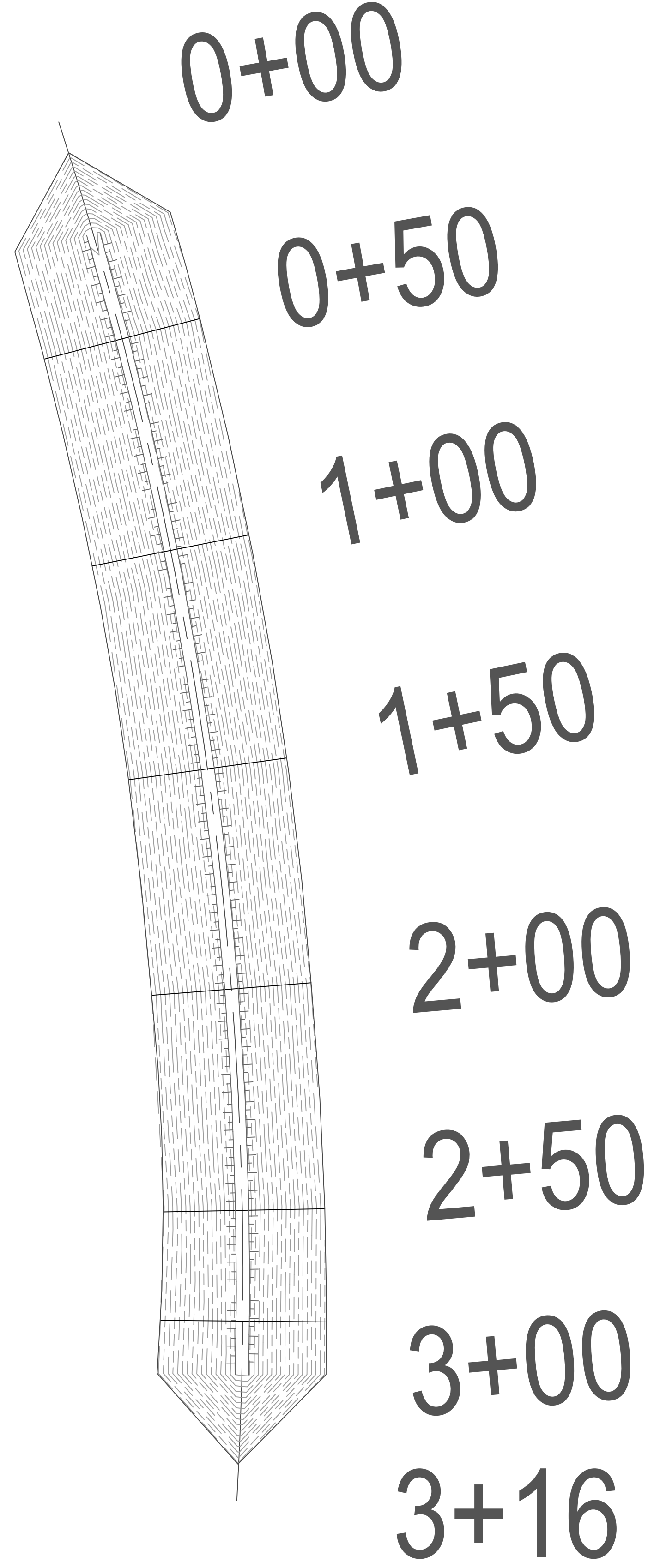
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TITLE  
CELERON ISLAND HABITAT RESTORATION  
SHOAL PROFILE SECTIONS  
THE DETROIT RIVER  
WAYNE COUNTY, MICHIGAN

SHEET  
PS1





PROJECT NUMBER:  
52318

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10/31/19

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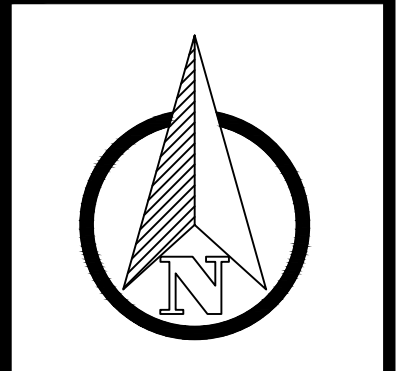
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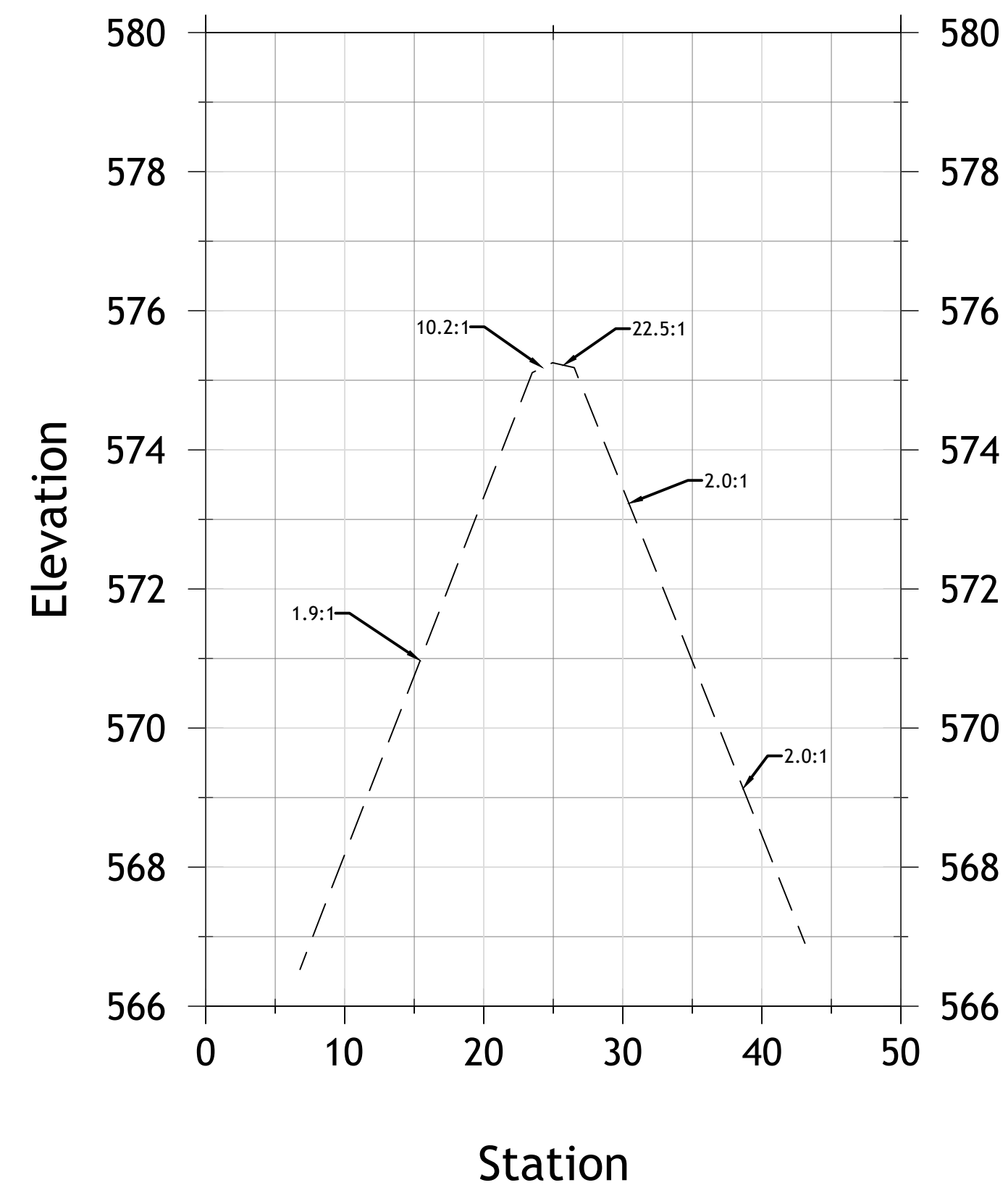
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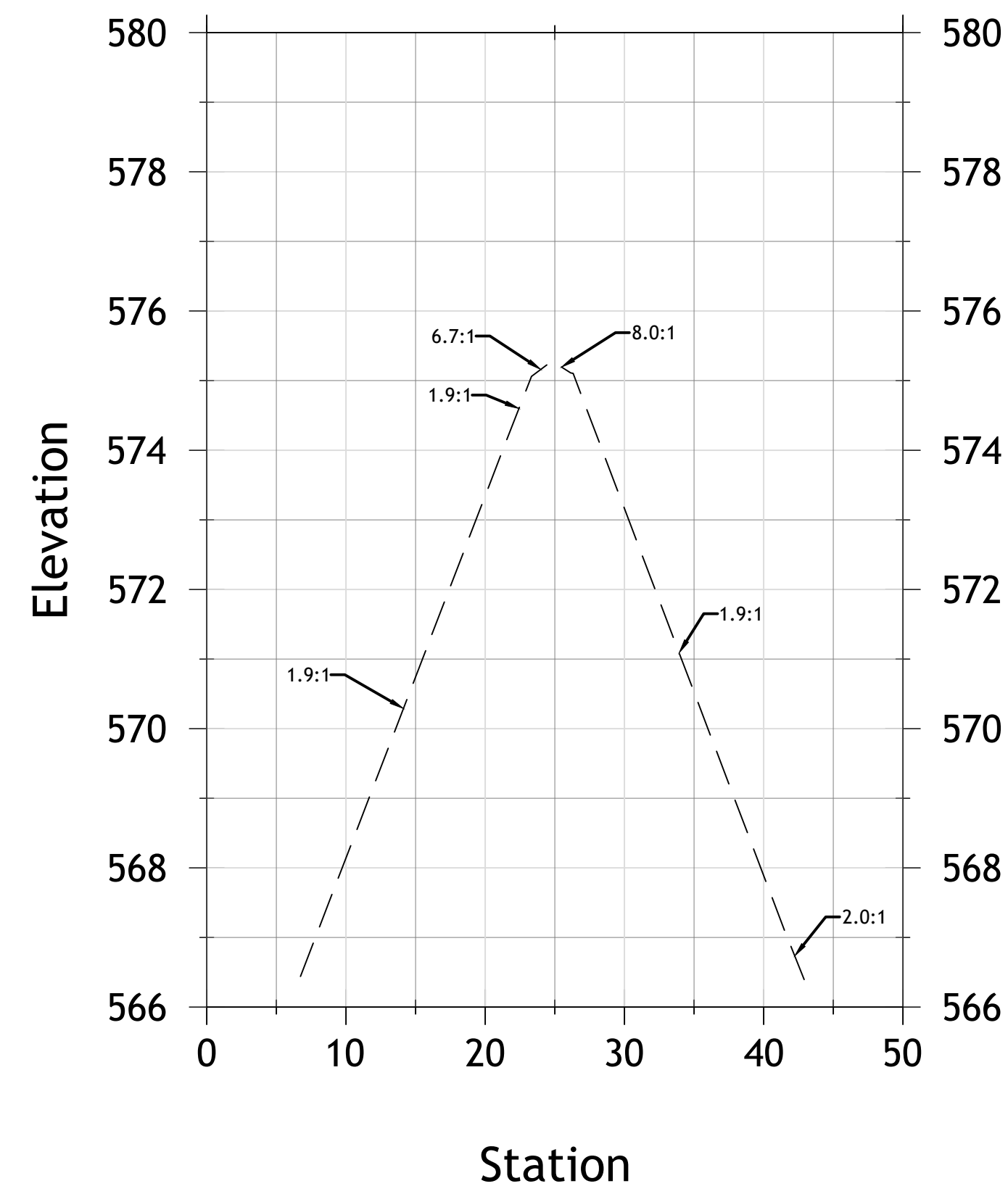
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SHOAL A CORE STONE  
THE DETROIT RIVER  
WAYNE COUNTY, MICHIGAN

SHEET  
CE1A

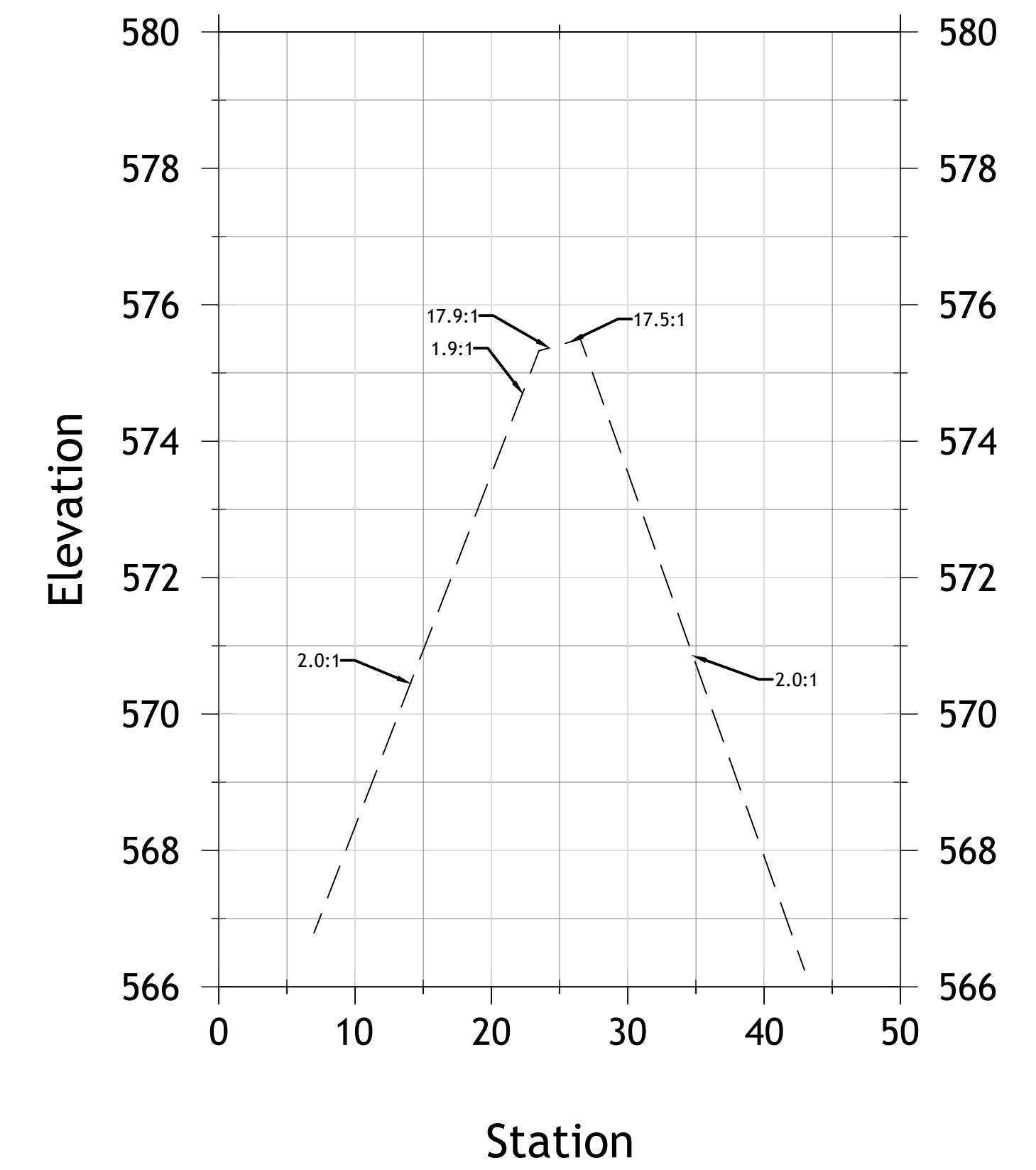
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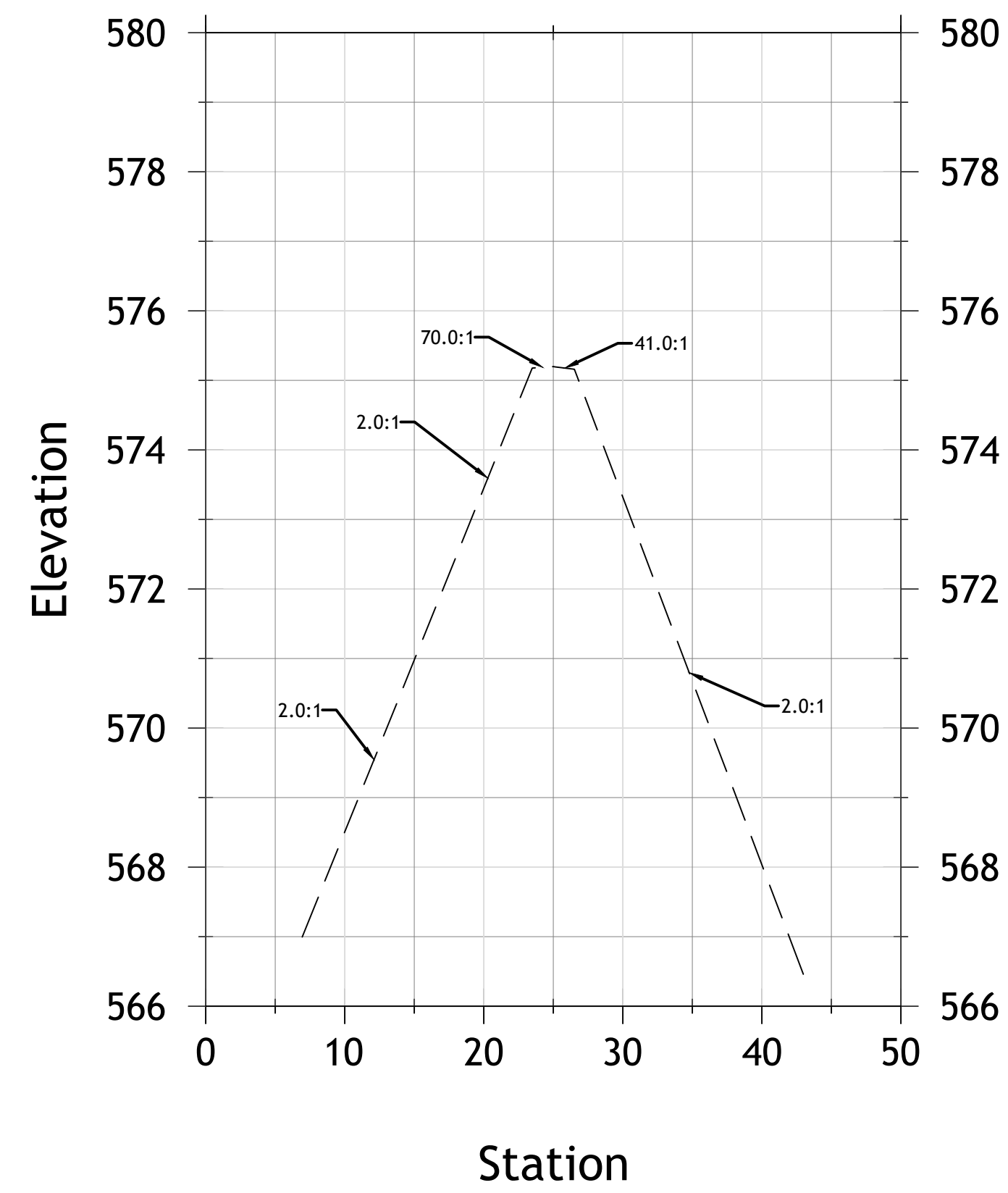
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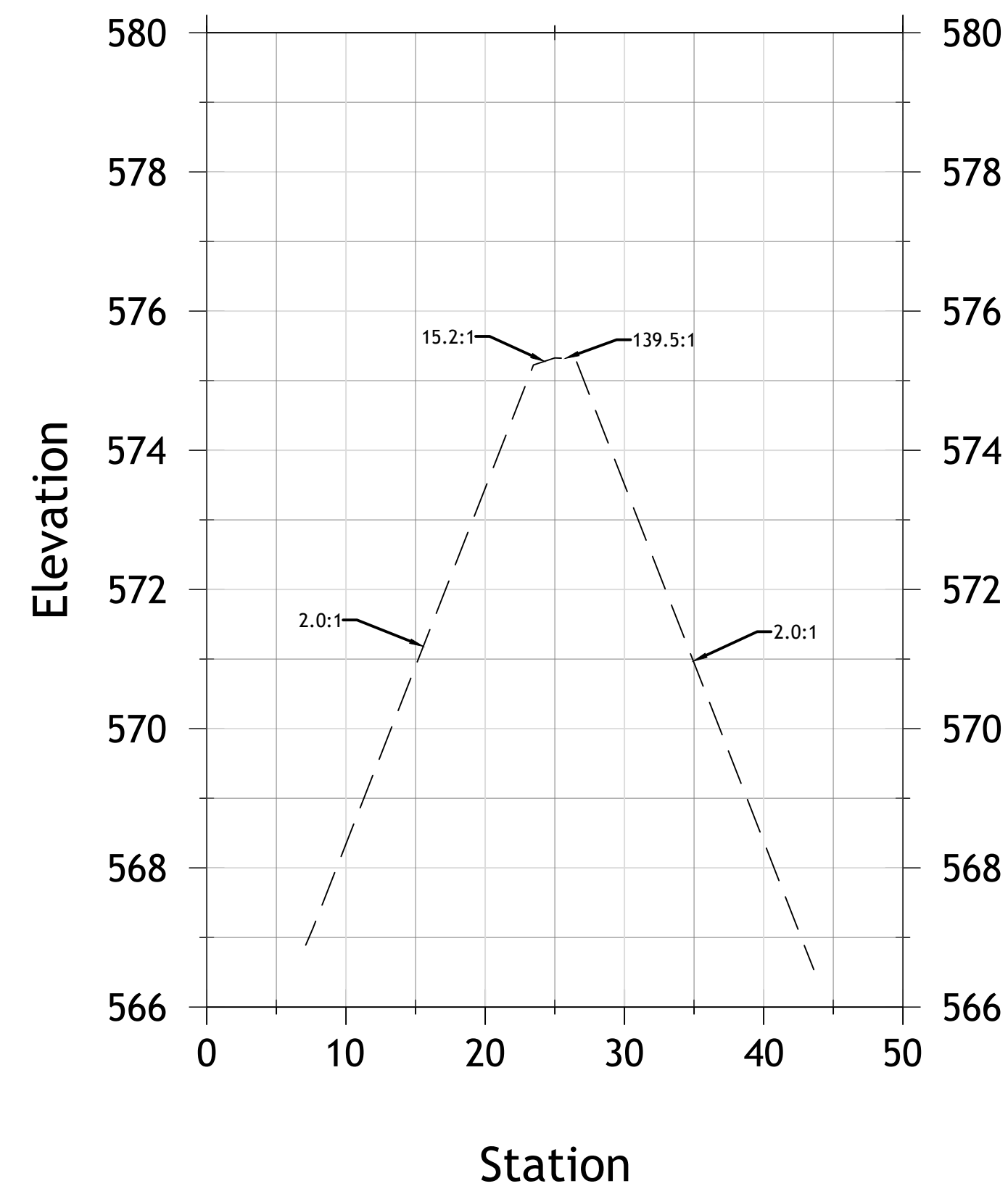
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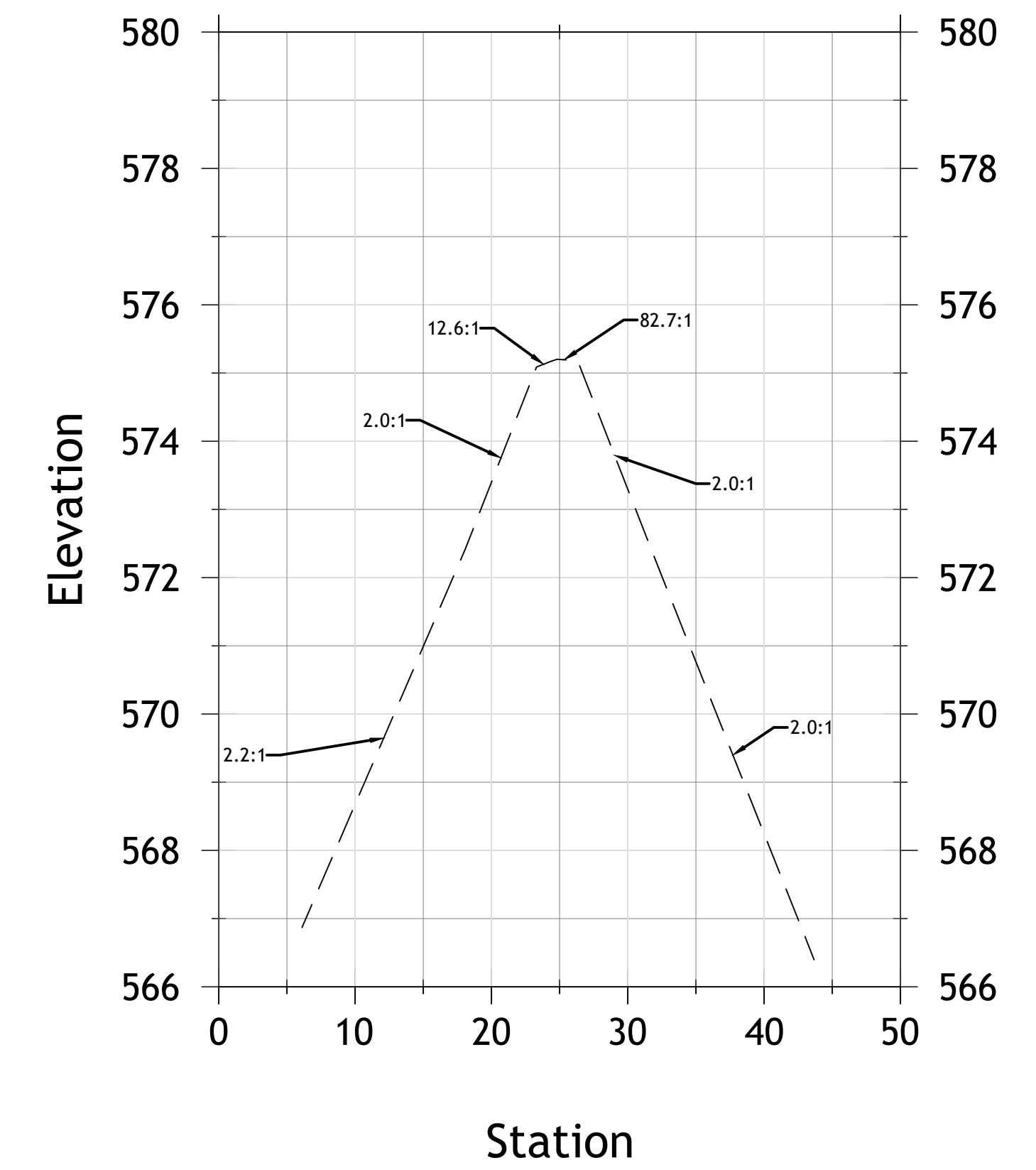
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CORE SHOAL A 2+50



CORE SHOAL A 2+75



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04/12/19

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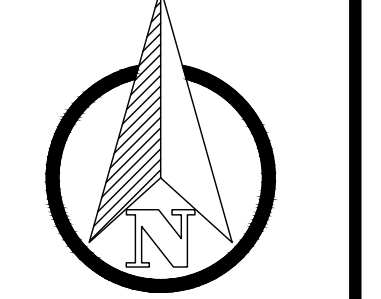
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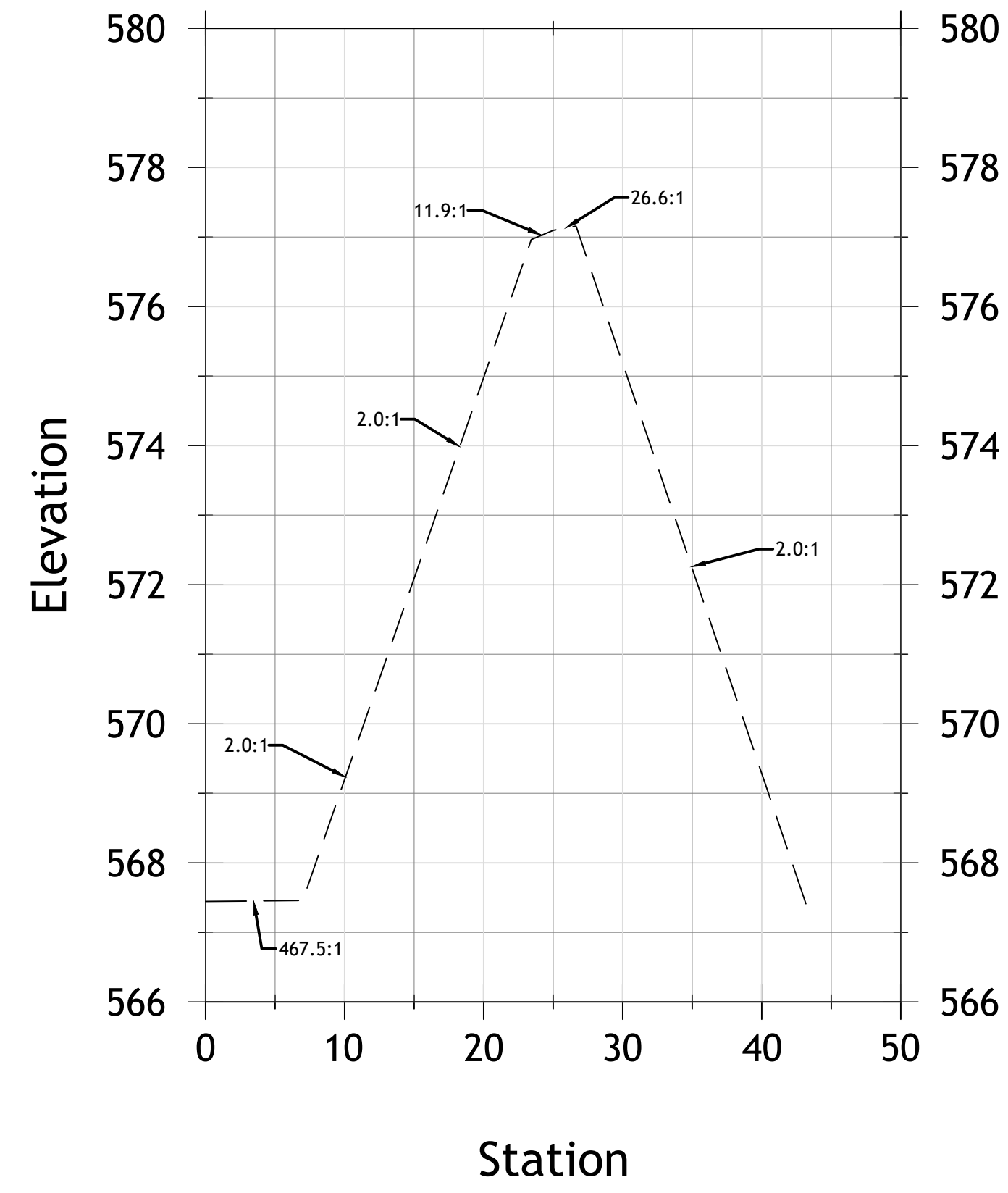
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SHOAL A CORE STONE  
THE DETROIT RIVER  
WAYNE COUNTY, MICHIGAN

SHEET  
**CE1**

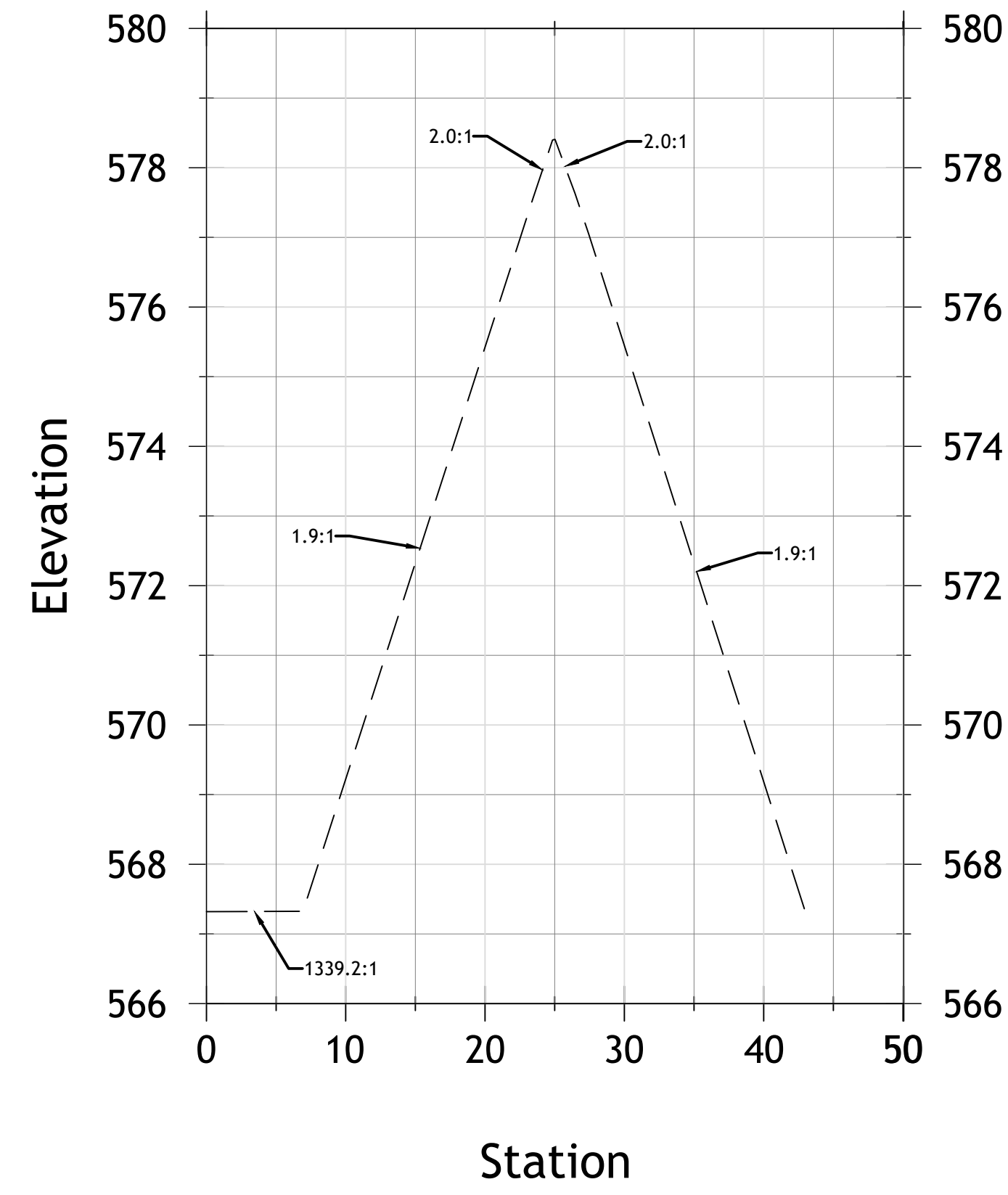




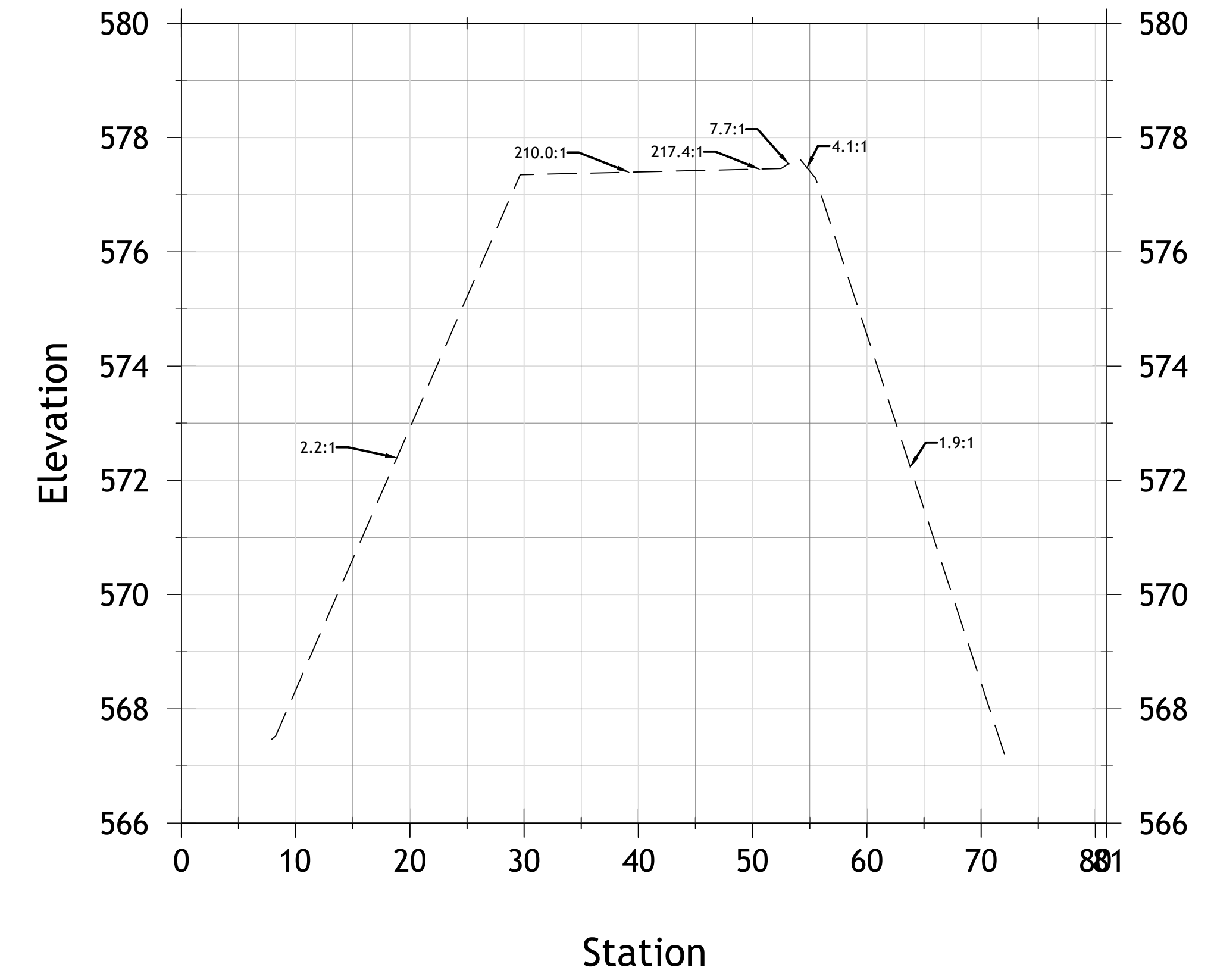
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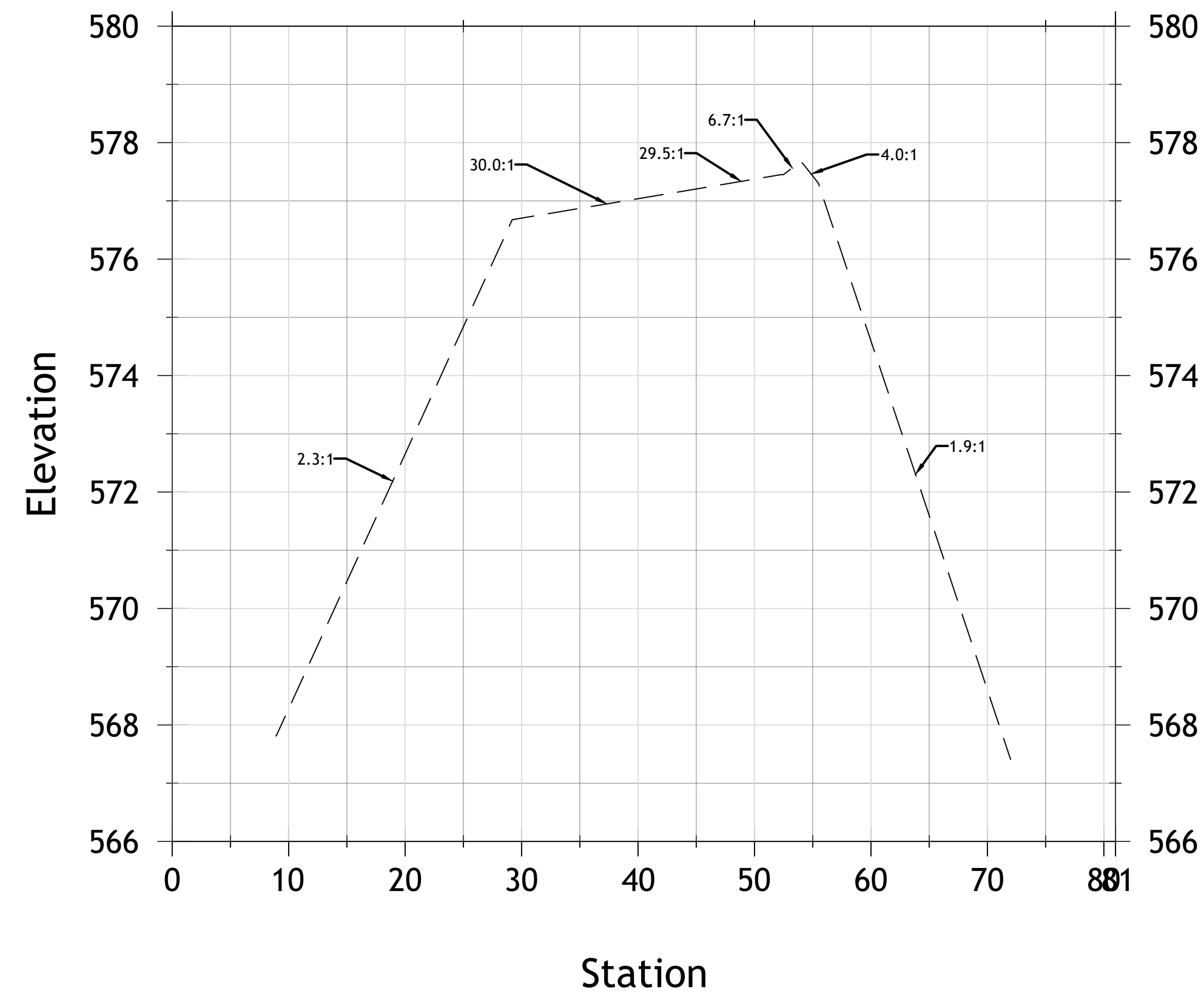
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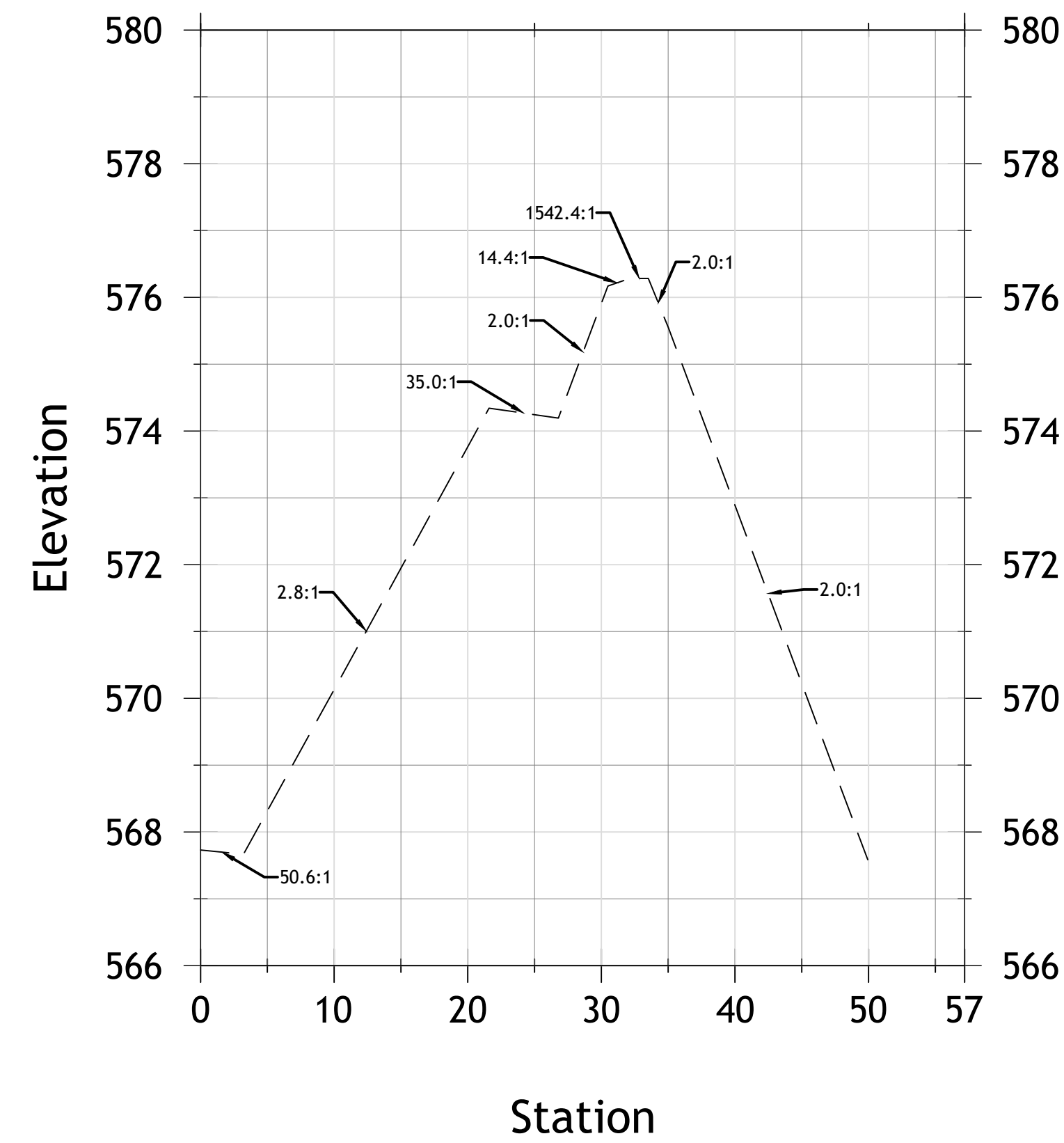
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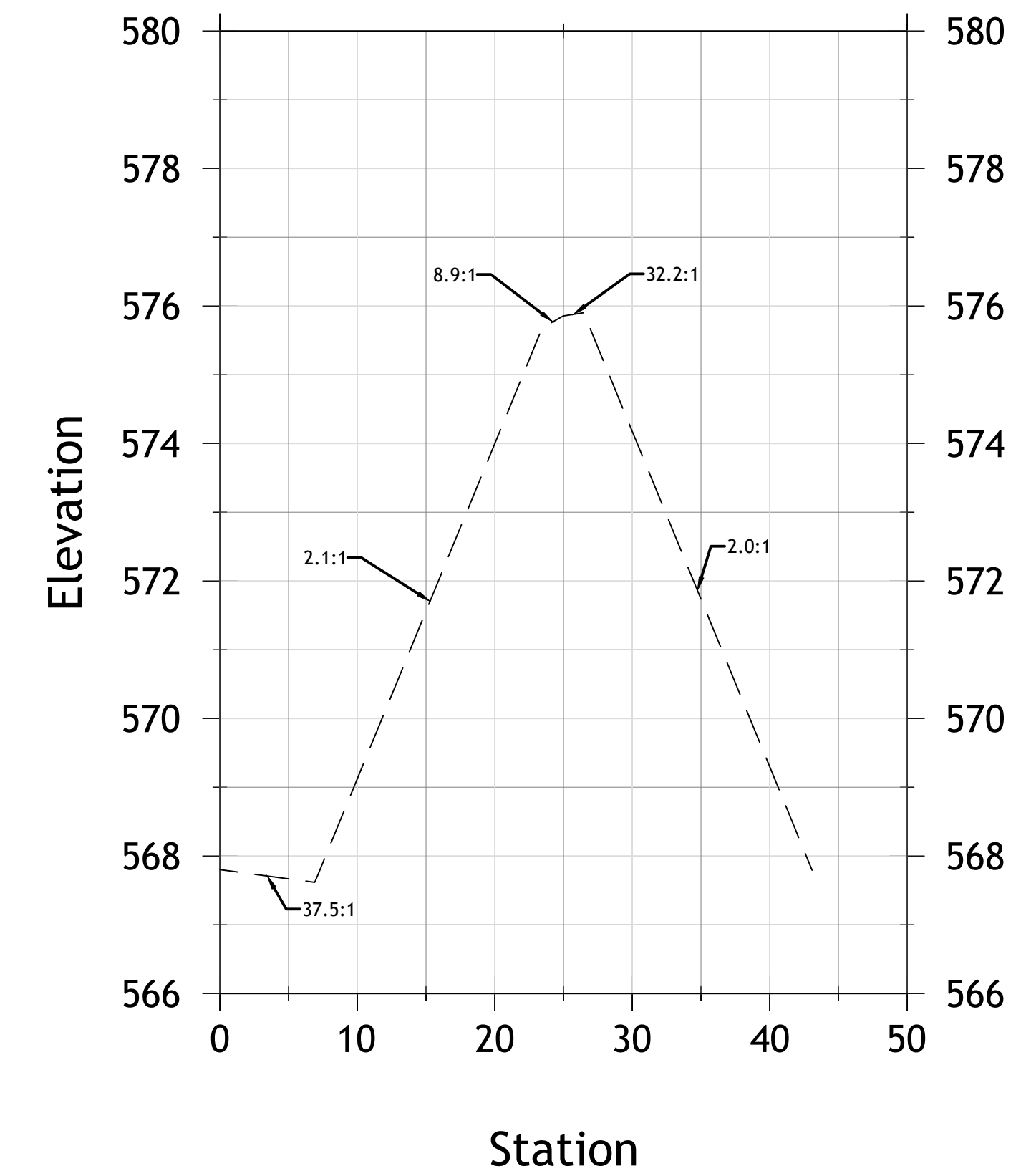
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CORE SHOAL B 3+00



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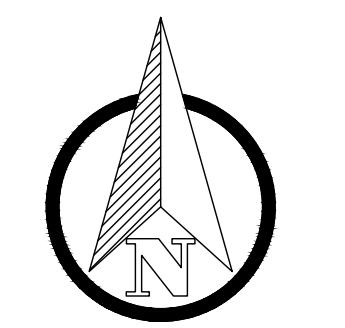
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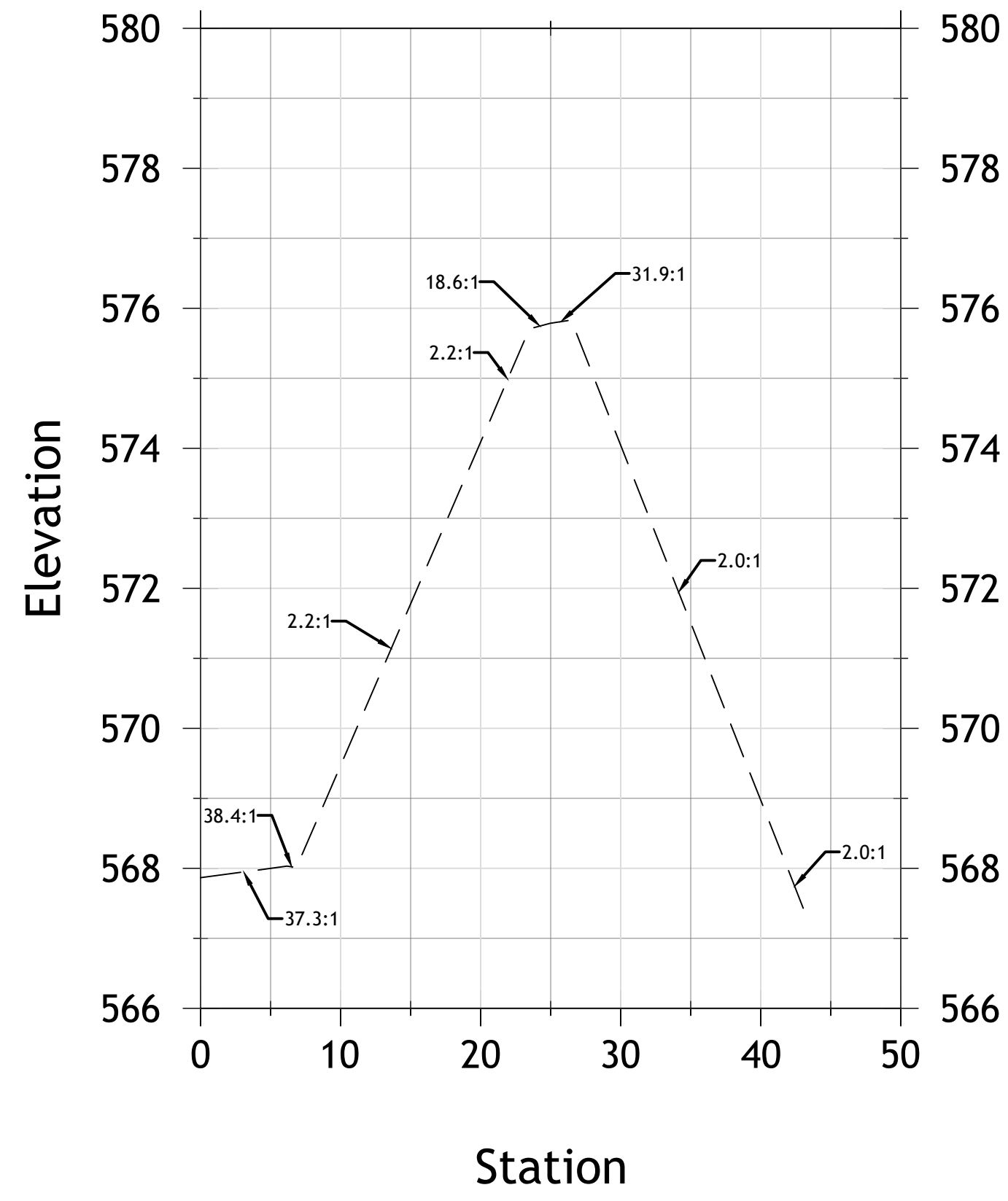
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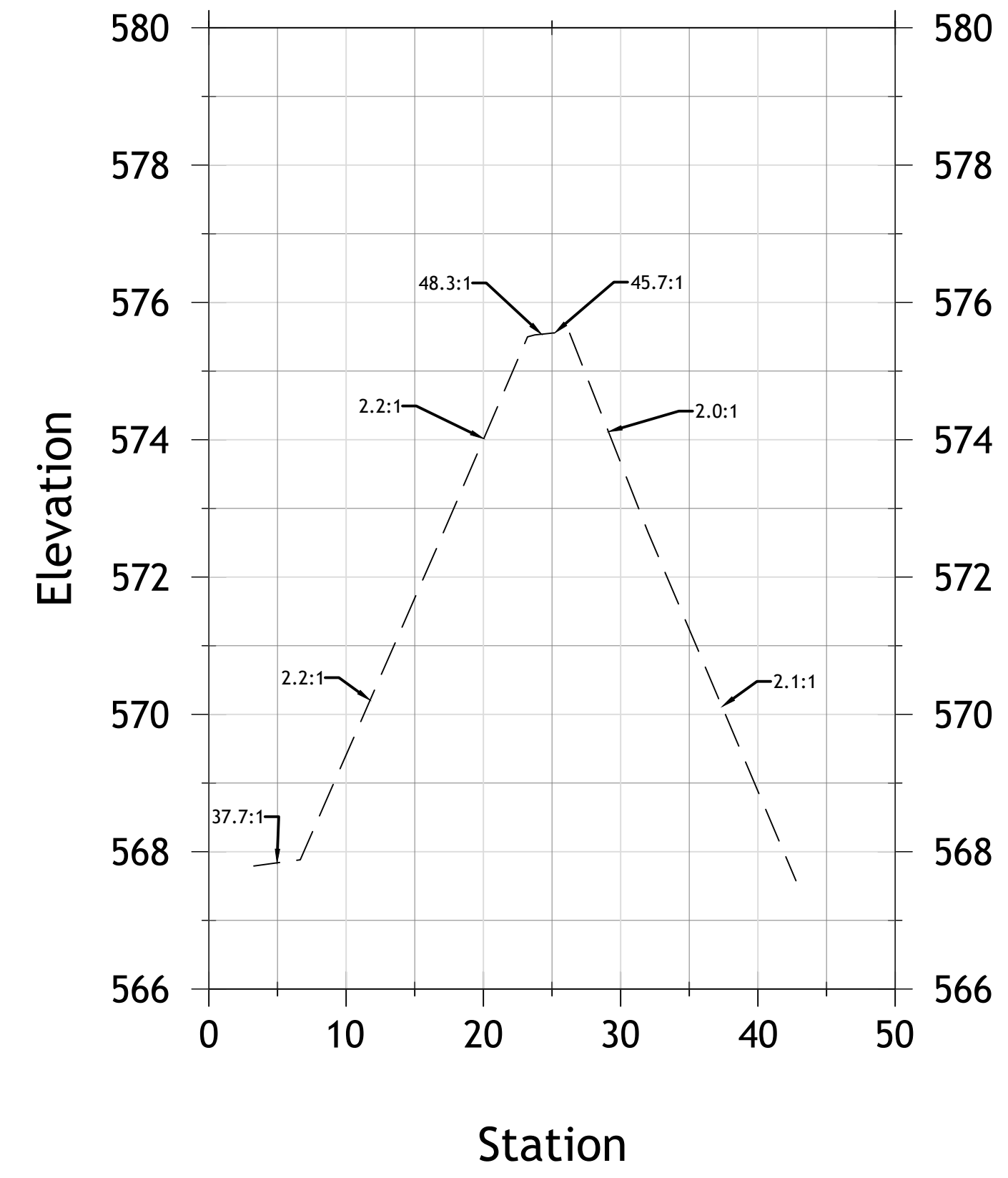
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CELERON ISLAND HABITAT RESTORATION  
SHOAL B CORE STONE  
THE DETROIT RIVER  
WAYNE COUNTY, MICHIGAN

SHEET  
CE2

CORE SHOAL B 3+50

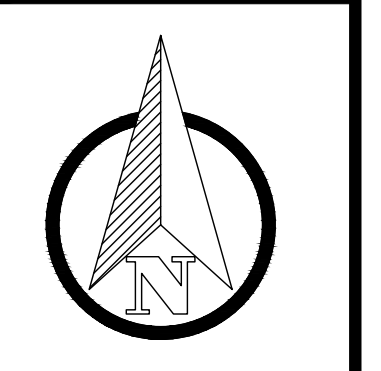


CORE SHOAL B 3+75



PROJECT NUMBER:  
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DATE:  
04/12/19  
SCALE:  
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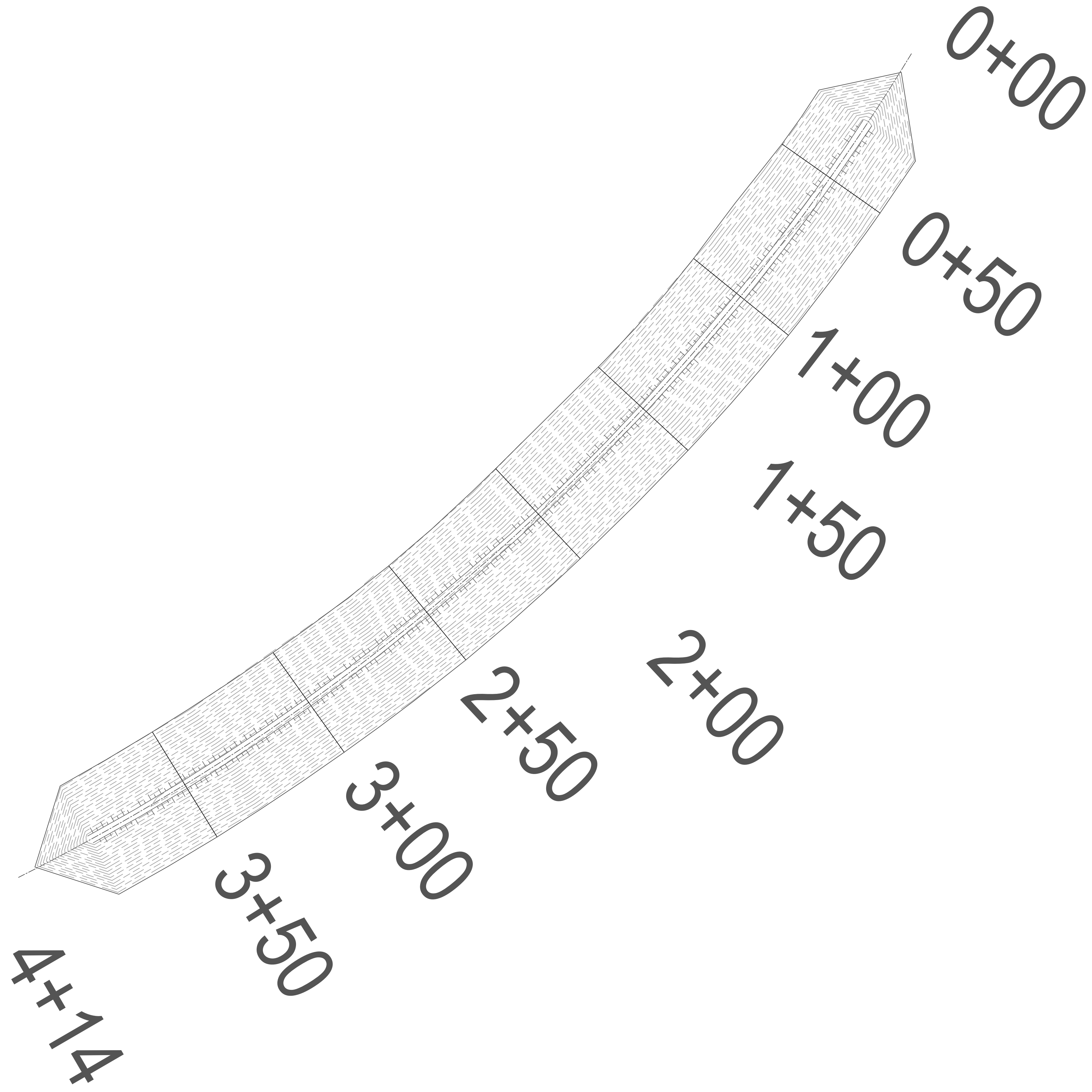
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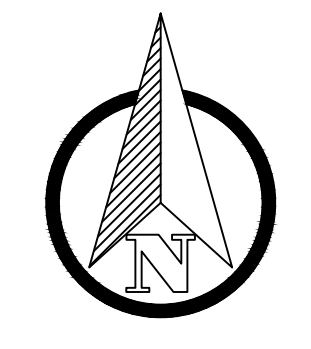
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CELERON ISLAND HABITAT RESTORATION  
SHOAL B CORE STONE  
THE DETROIT RIVER  
WAYNE COUNTY, MICHIGAN

SHEET  
CE3



PROJECT NUMBER:  
 52318  
 DATE:  
 10/31/19  
 SCALE:  
 1"=20'  
 DESIGNED BY:  
 DRAWN BY:  
 JAB  
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**TITLE**  
**AS-BUILTS**  
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 SHOAL C CORE STONE  
 THE DETROIT RIVER  
 WAYNE COUNTY, MICHIGAN

**SHEET**  
**CE4A**



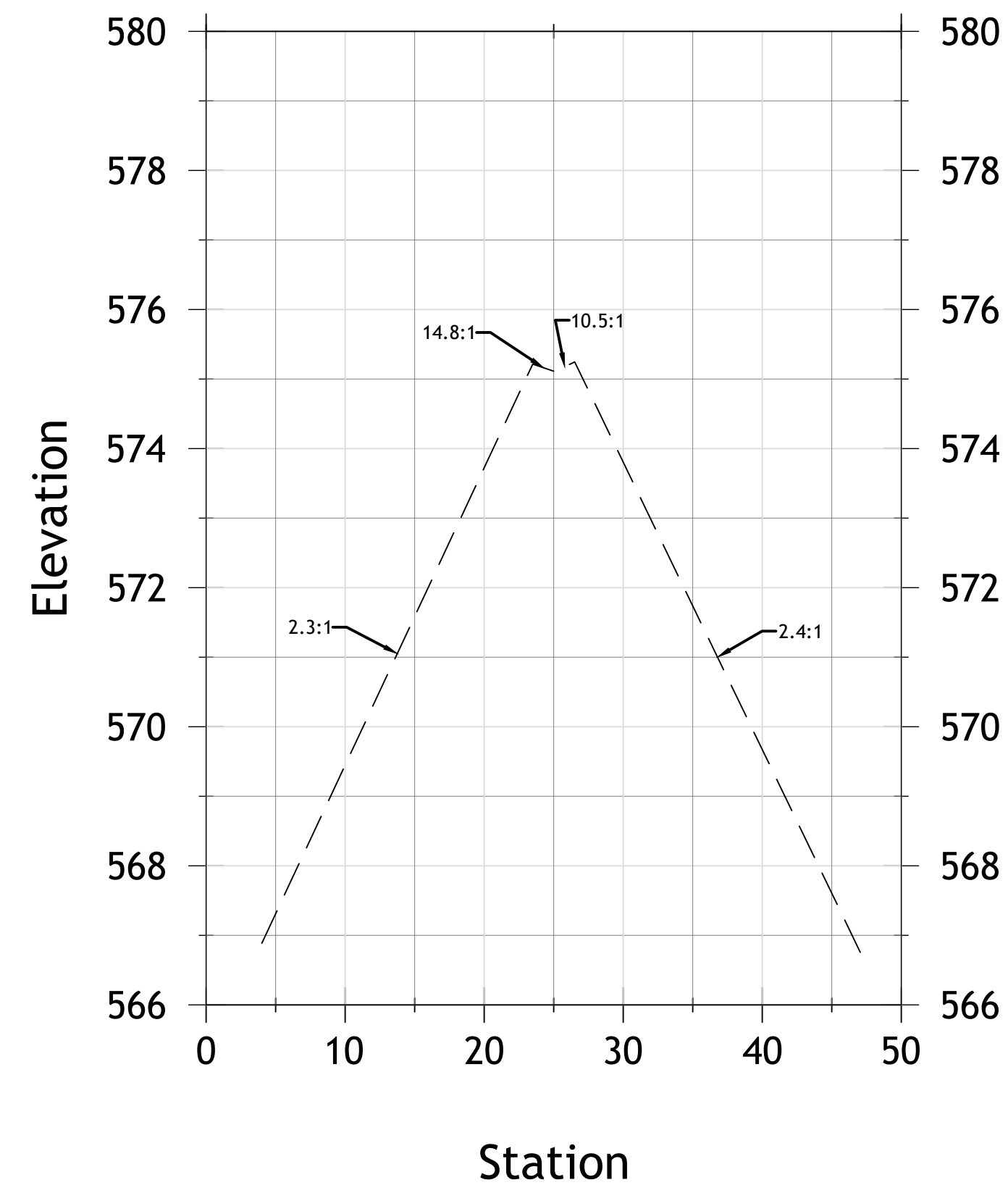




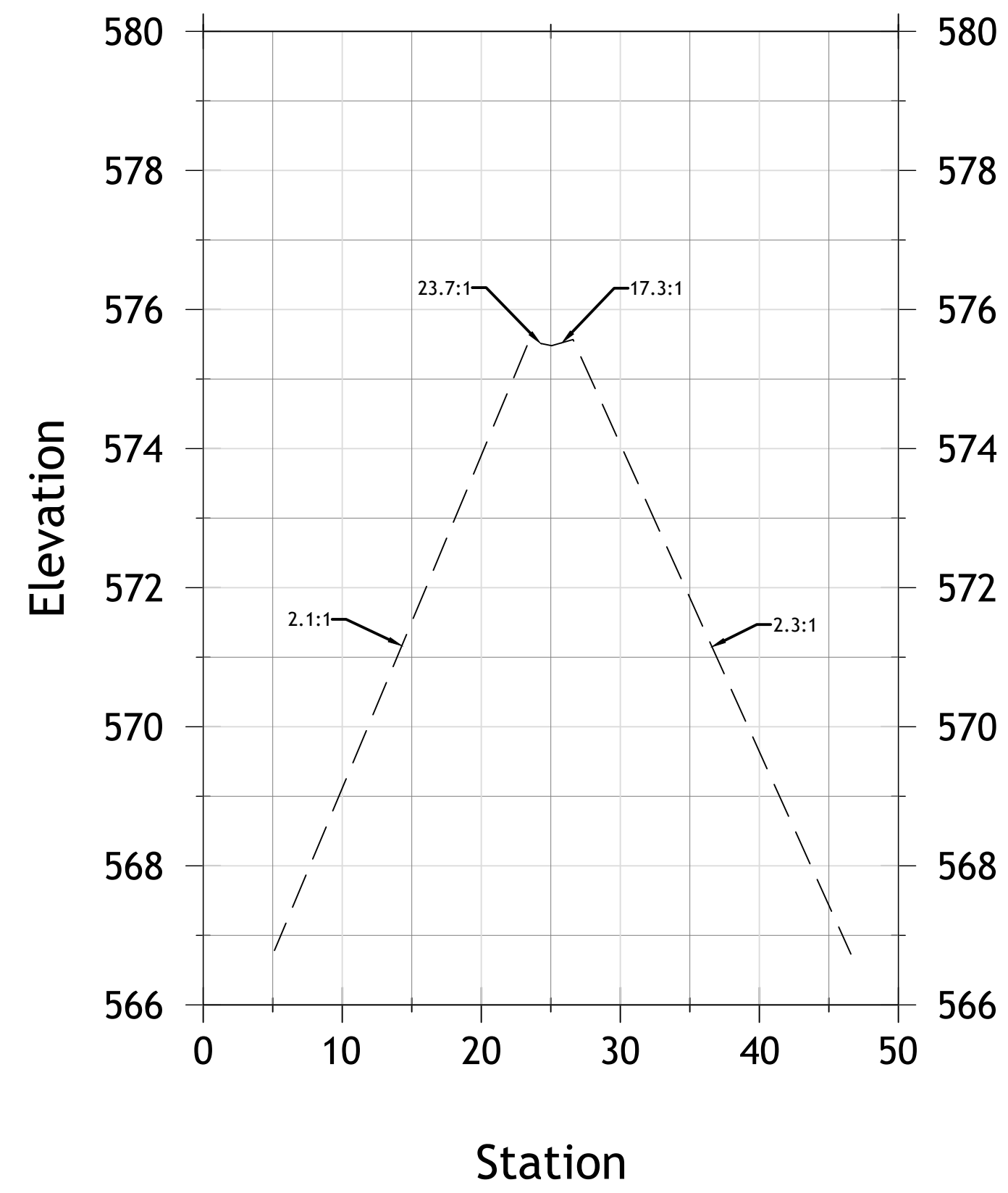




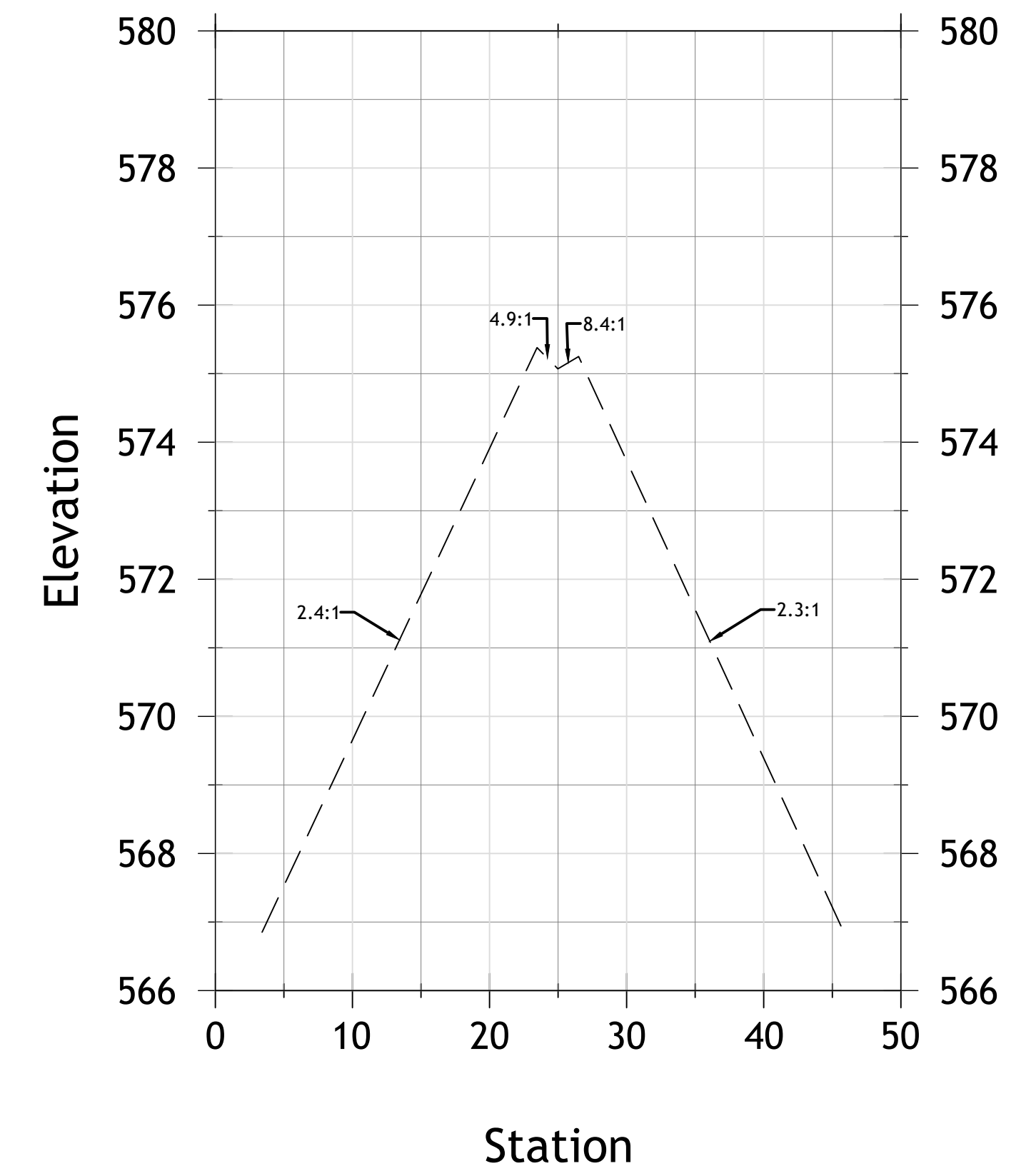
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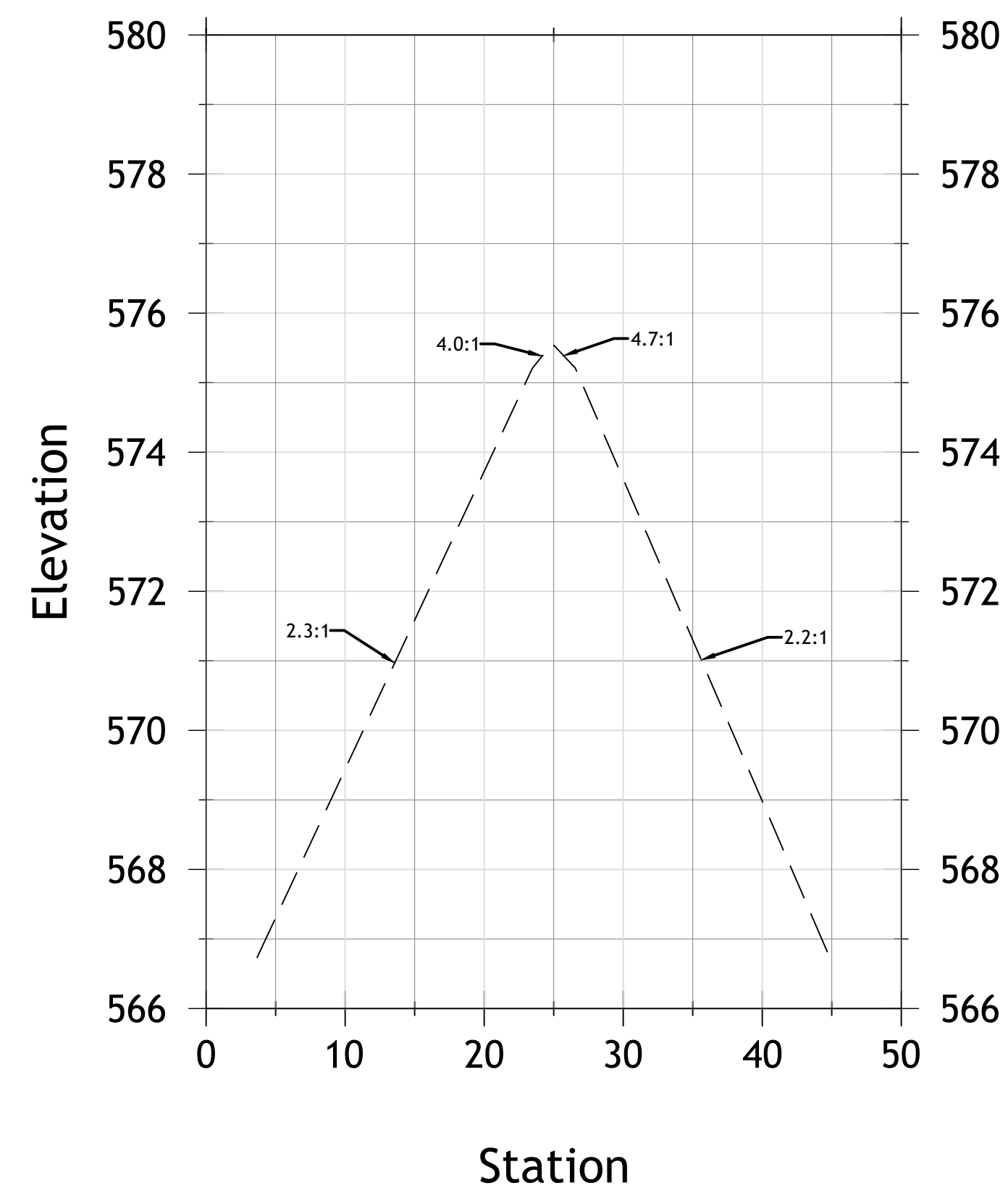
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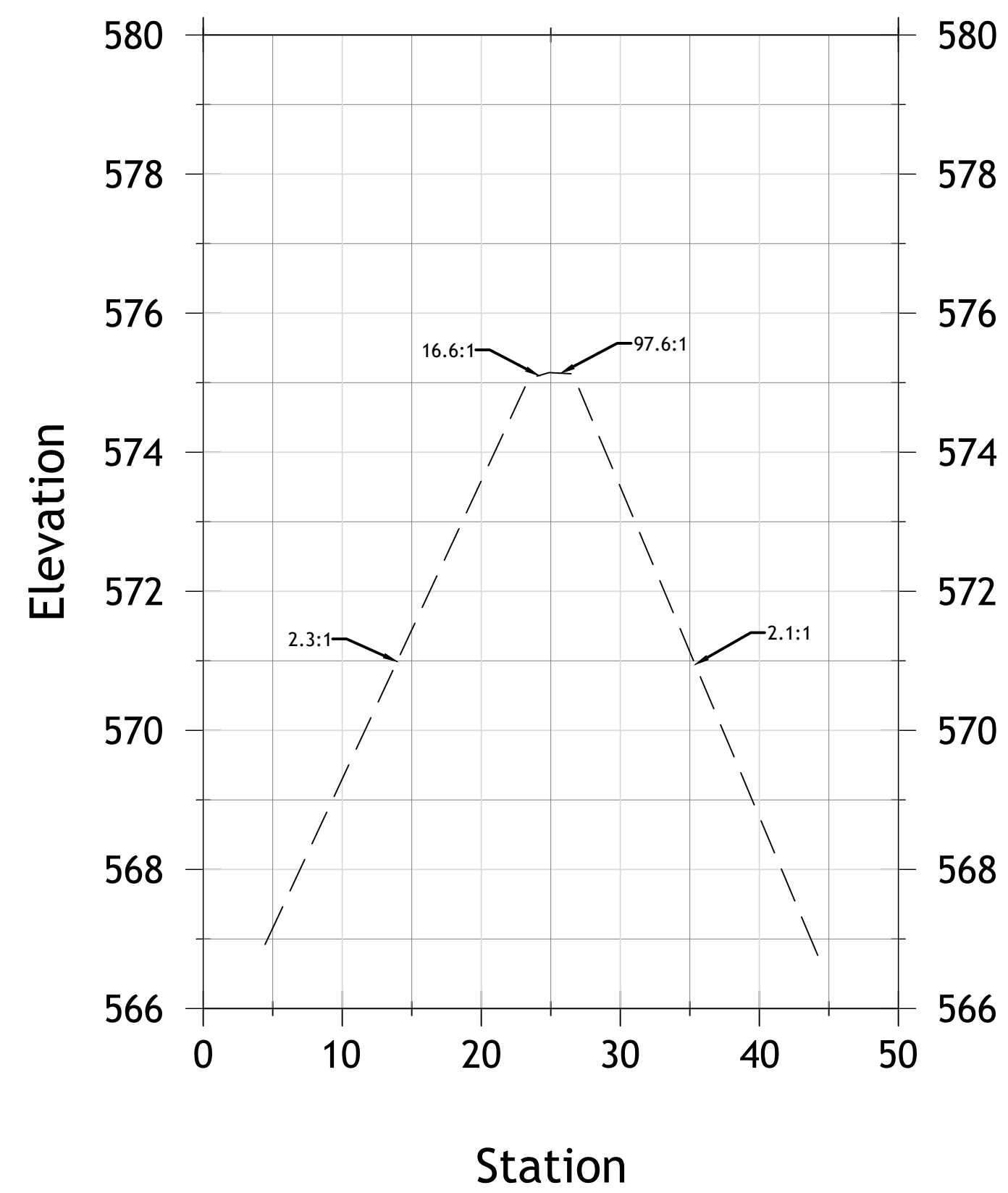
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CORE SHOAL D 2+00



CORE SHOAL D 2+35



PROJECT NUMBER:  
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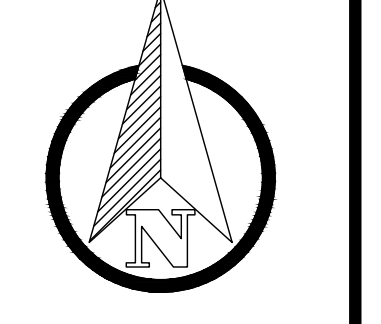
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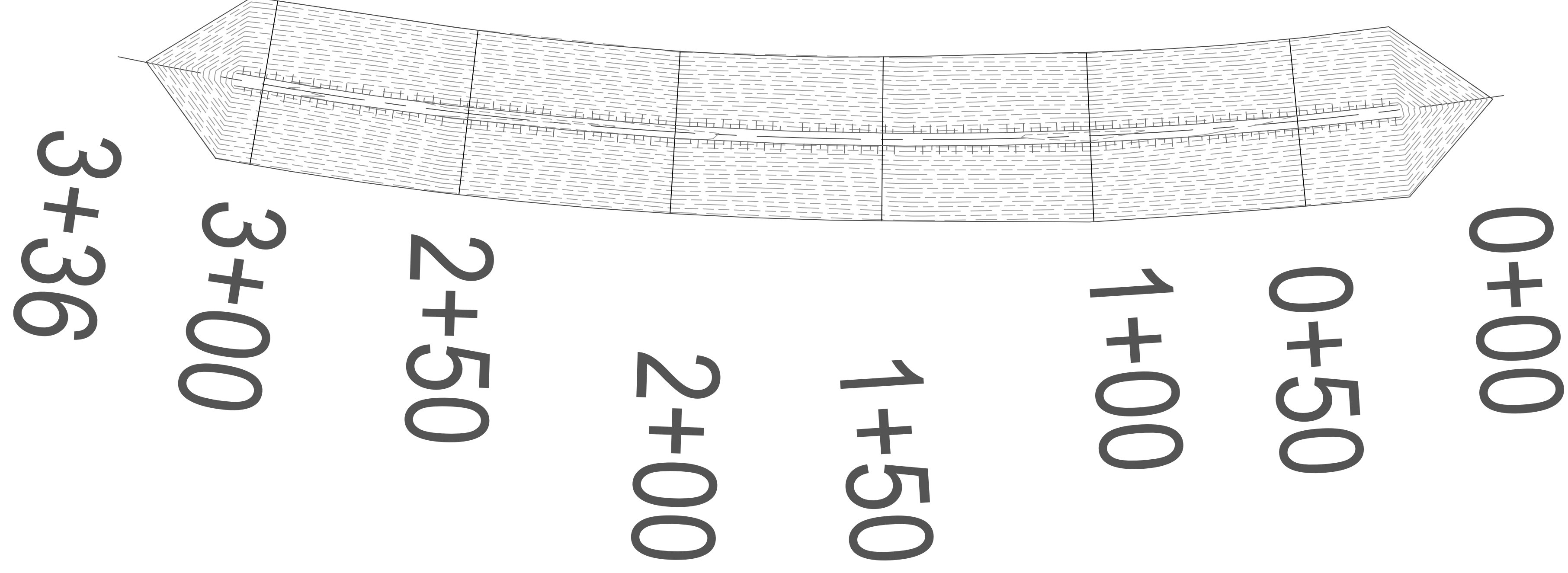
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SHOAL D CORE STONE  
THE DETROIT RIVER  
WAYNE COUNTY, MICHIGAN

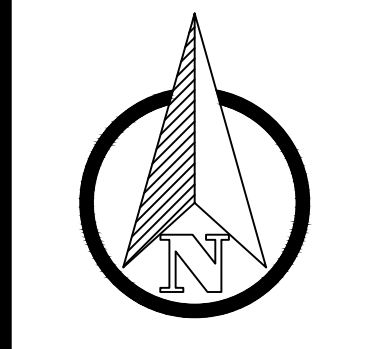
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CE6





PROJECT NUMBER: 52318
DATE: 10/31/19
SCALE: 1"=20'
DESIGNED BY:
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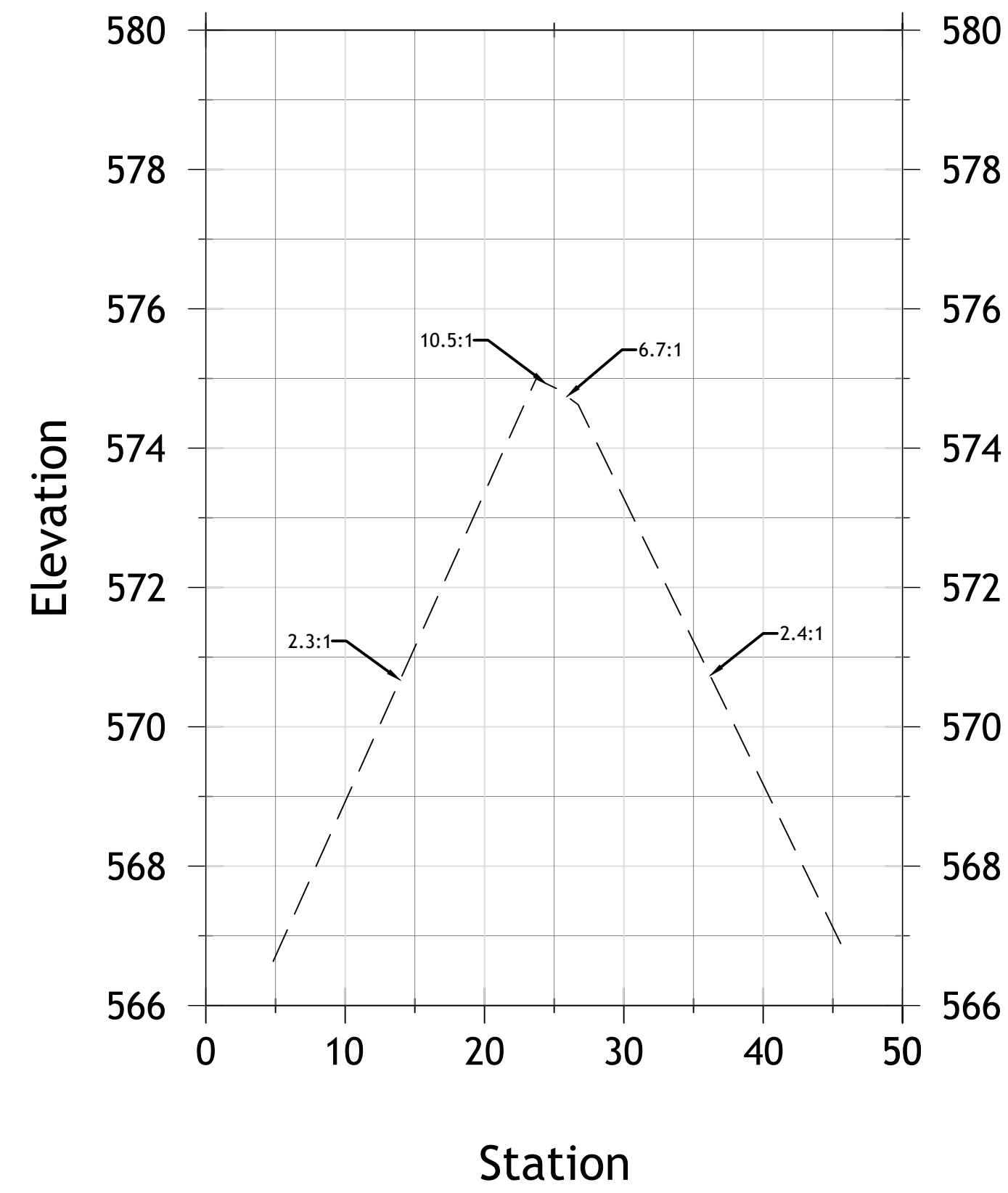
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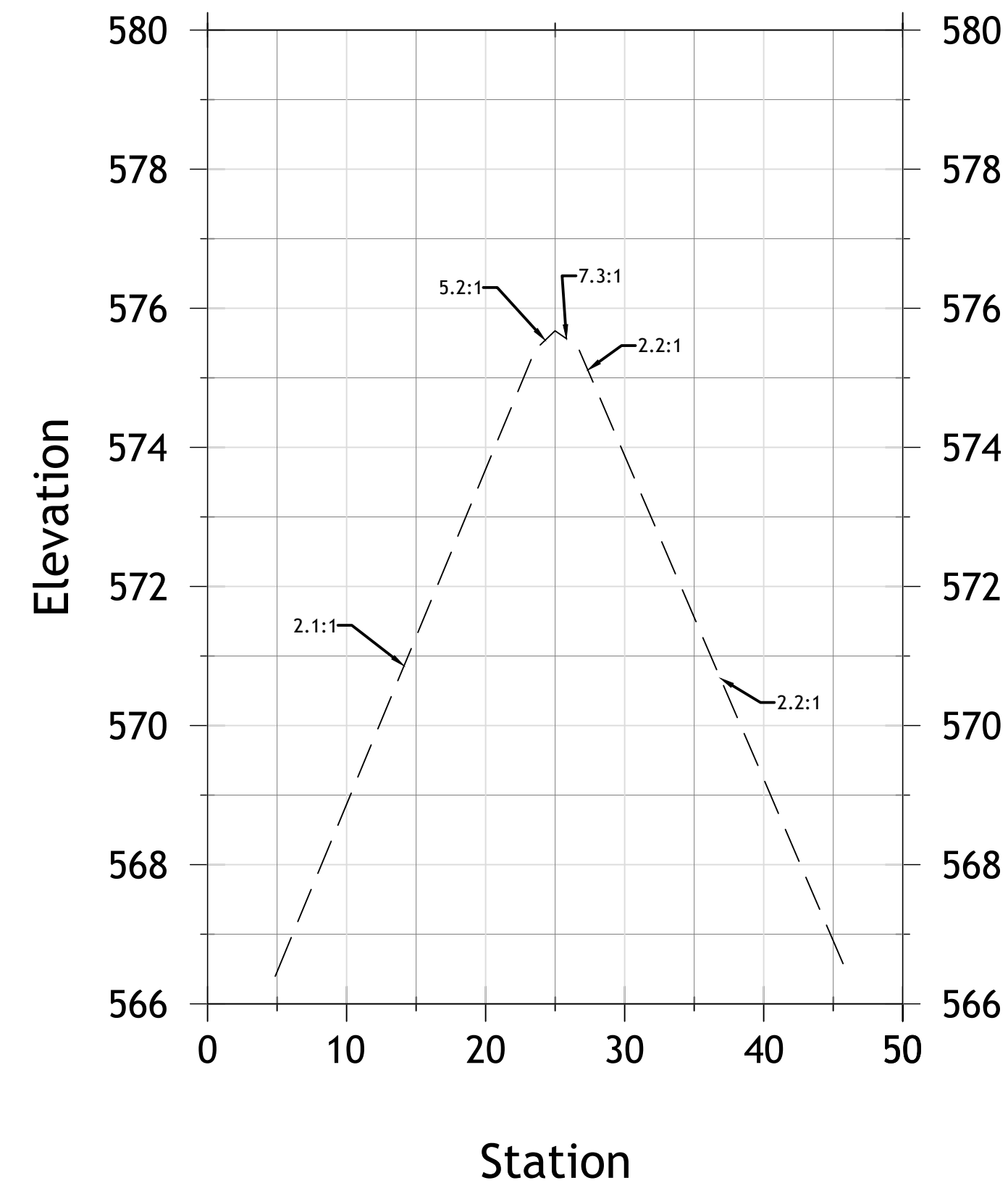
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 CELERON ISLAND HABITAT RESTORATION  
 SHOAL E CORE STONE  
 THE DETROIT RIVER  
 WAYNE COUNTY, MICHIGAN

**SHEET**  
**CE7A**

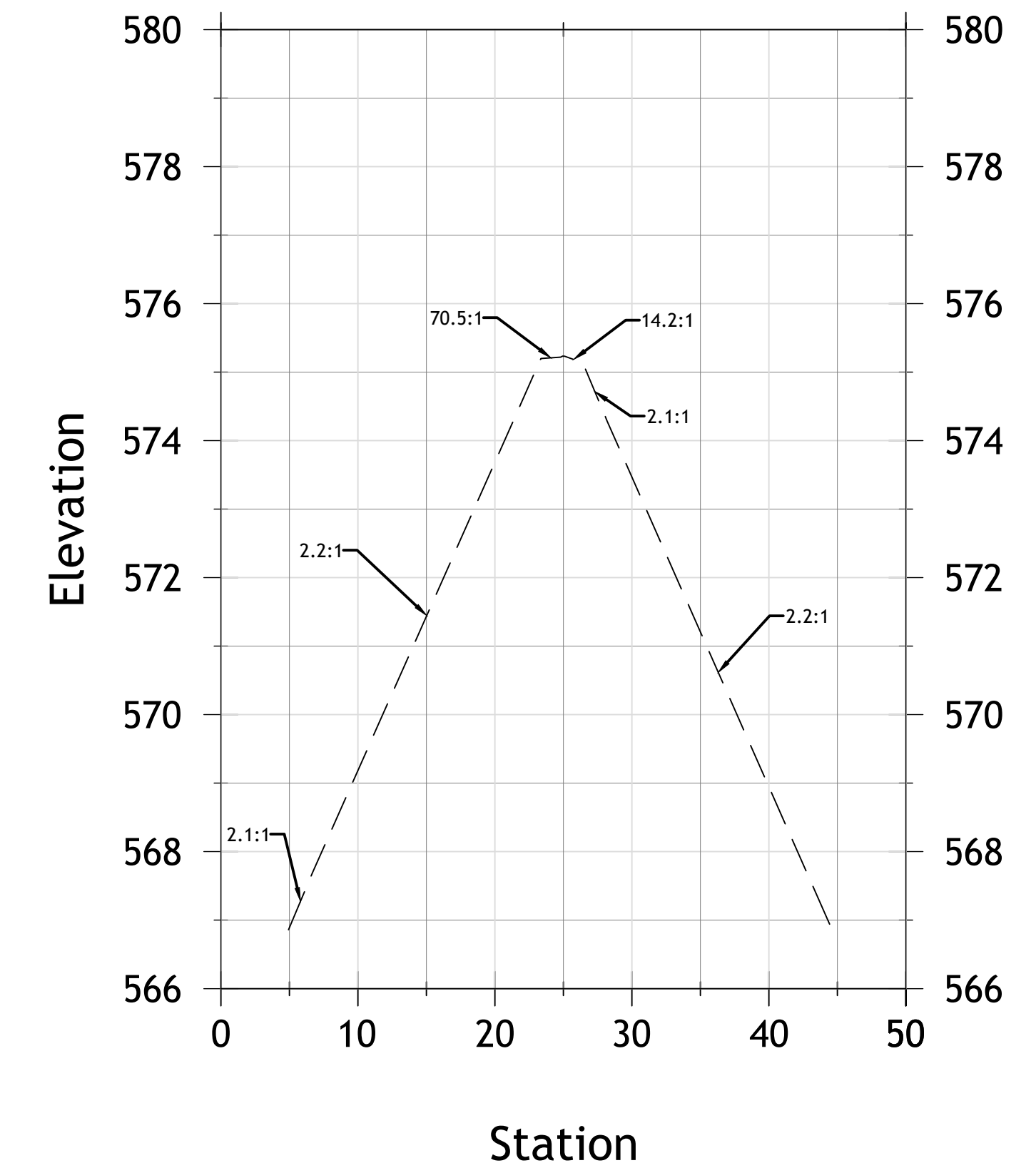
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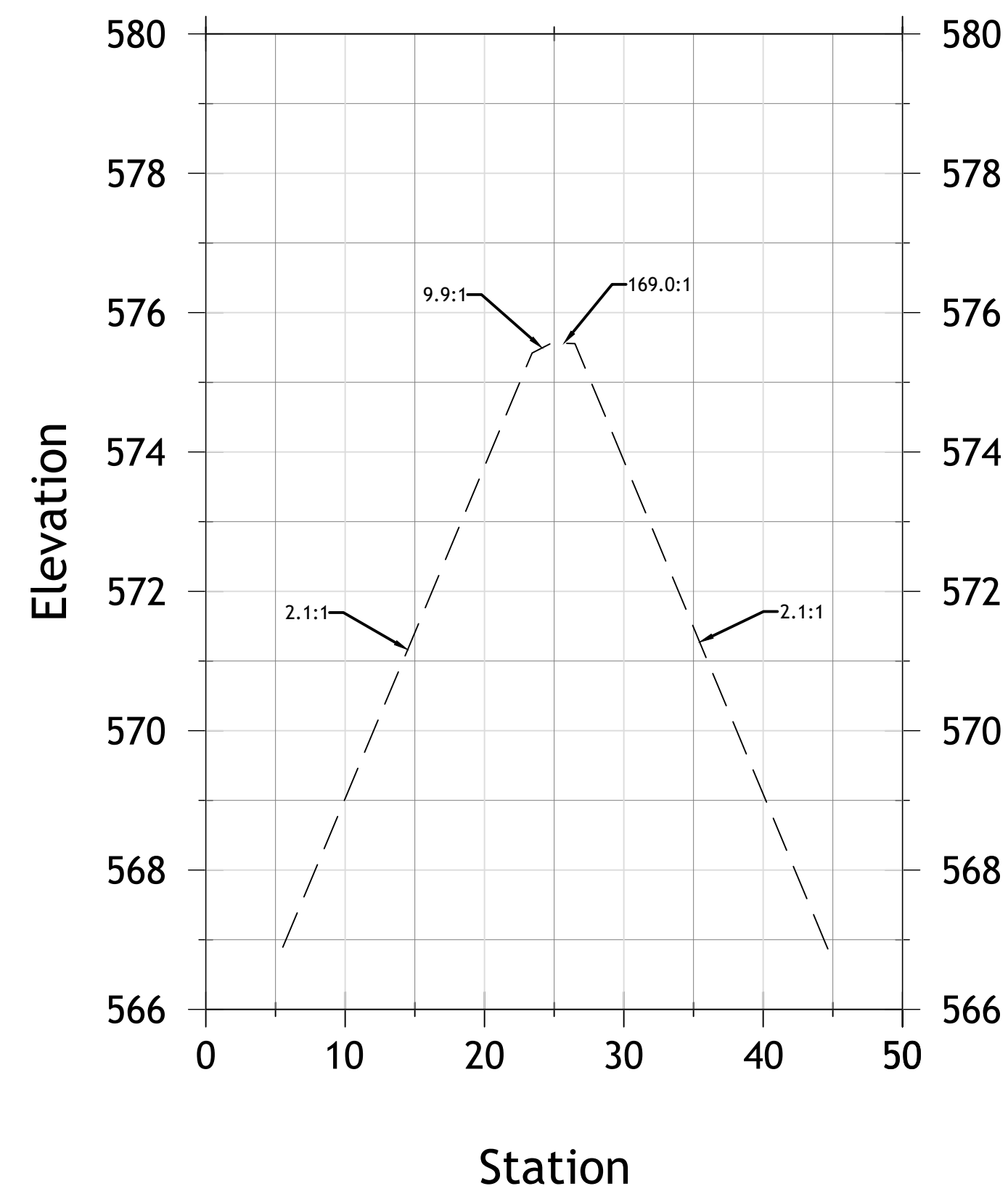
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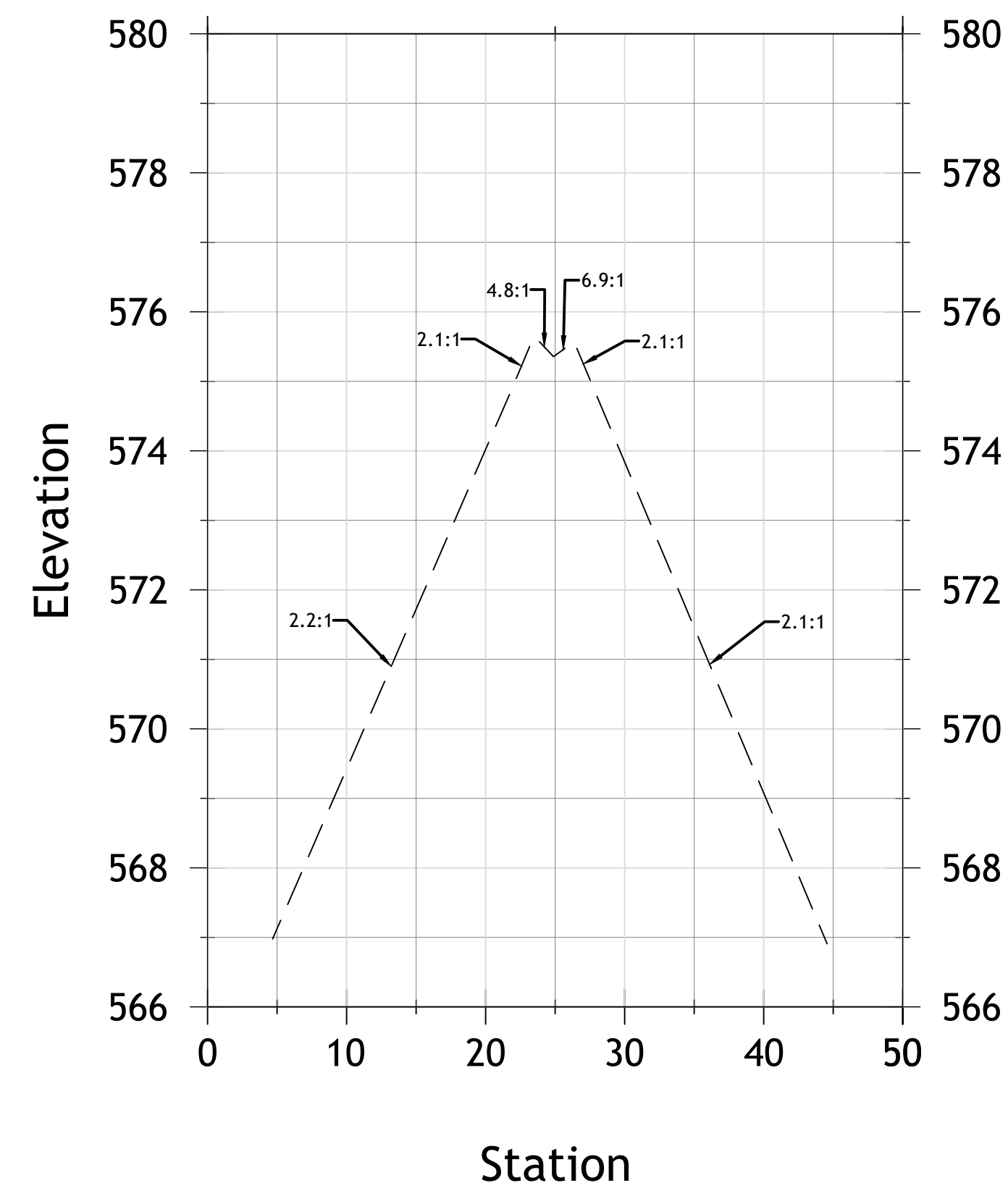
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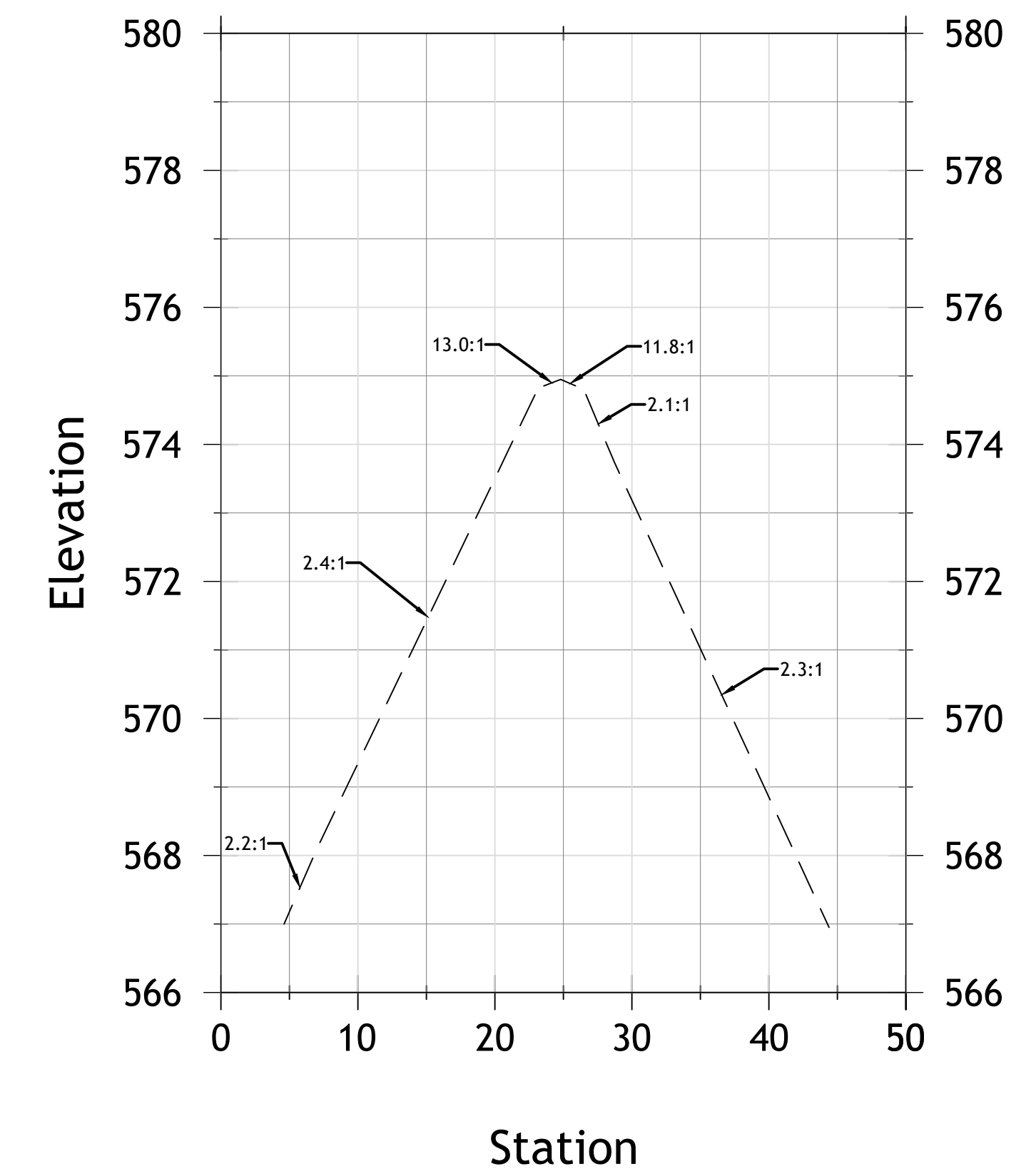
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CORE SHOAL E 2+50



CORE SHOAL E 3+00



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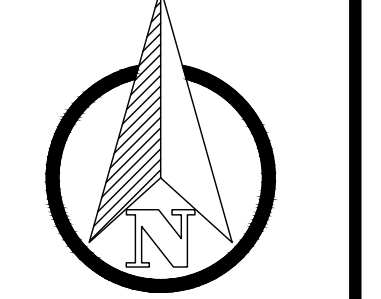
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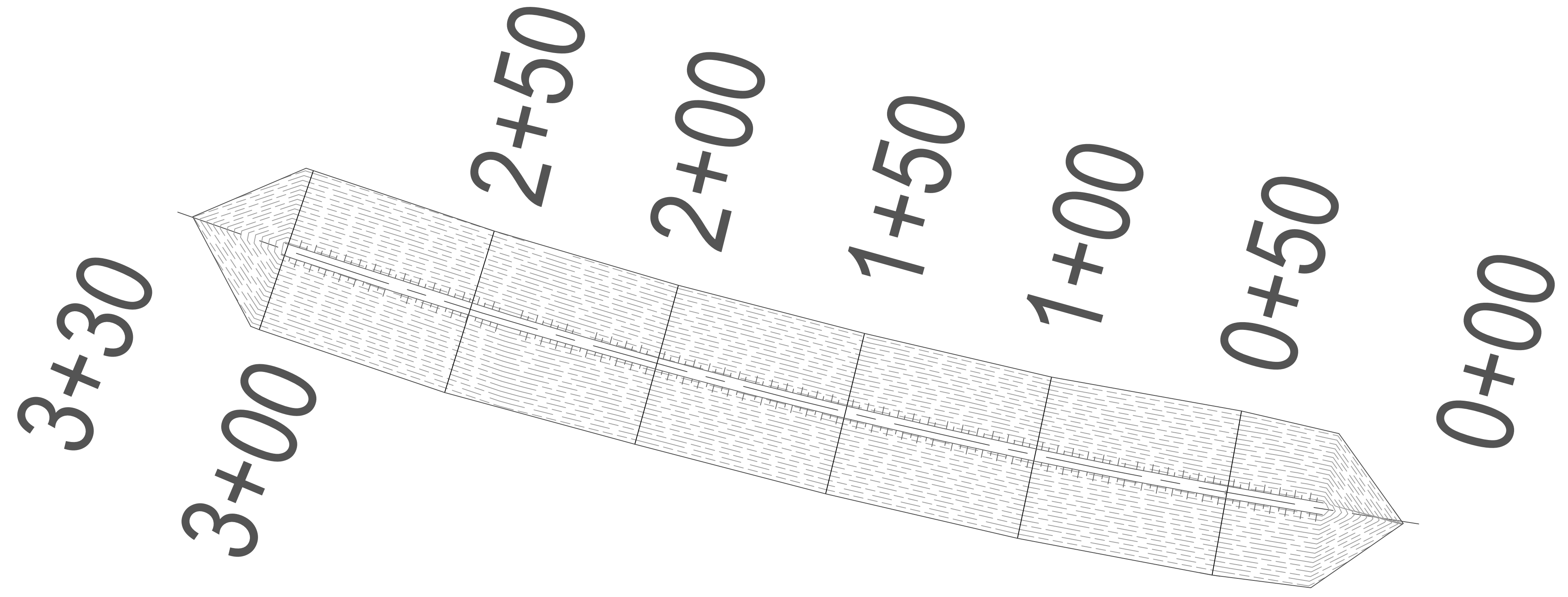
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WAYNE COUNTY, MICHIGAN

SHEET  
CE7





PROJECT NUMBER:  
52318

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10/31/19

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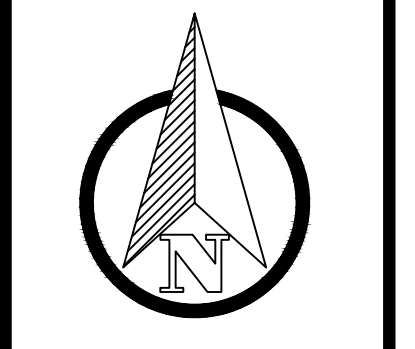
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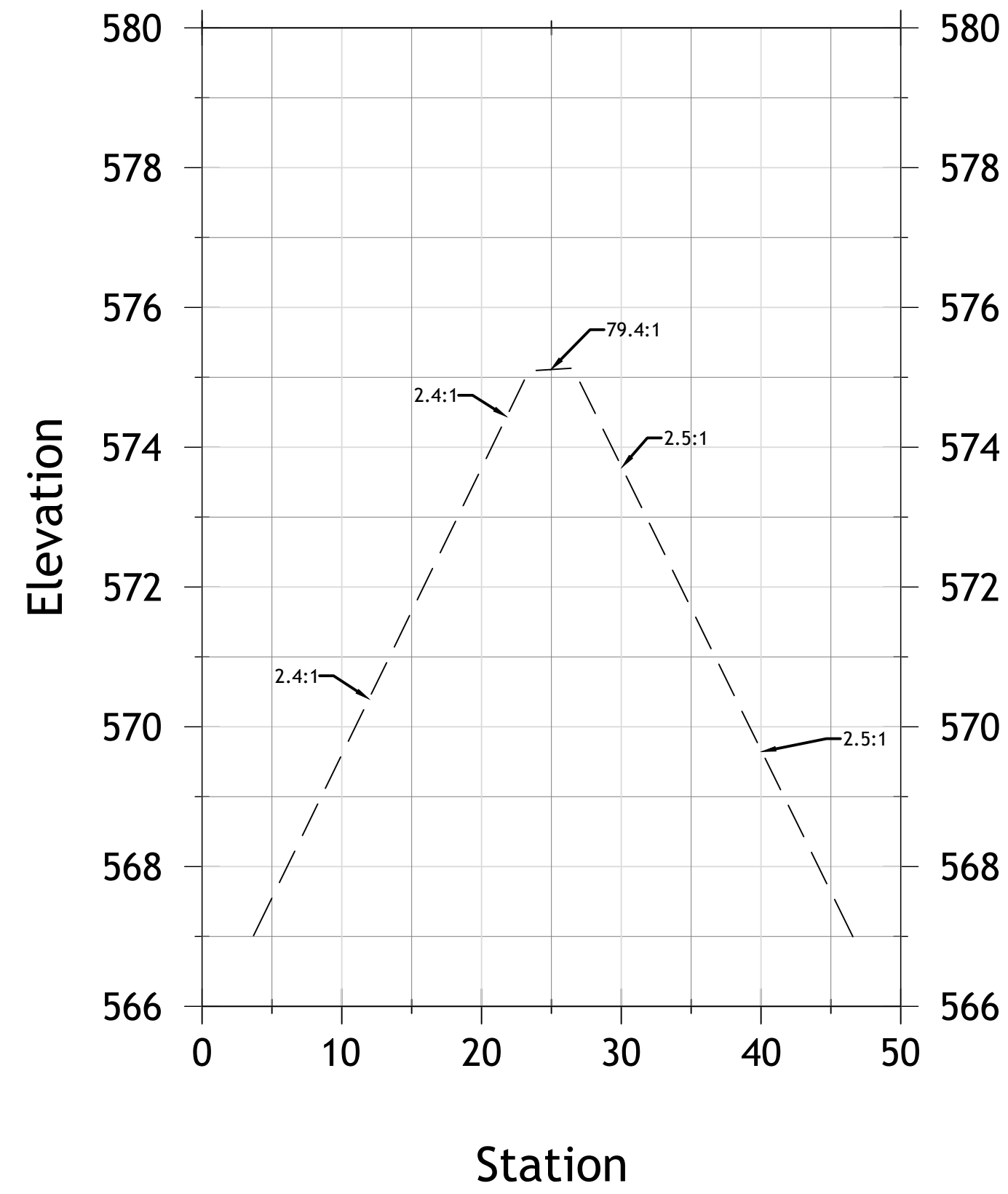


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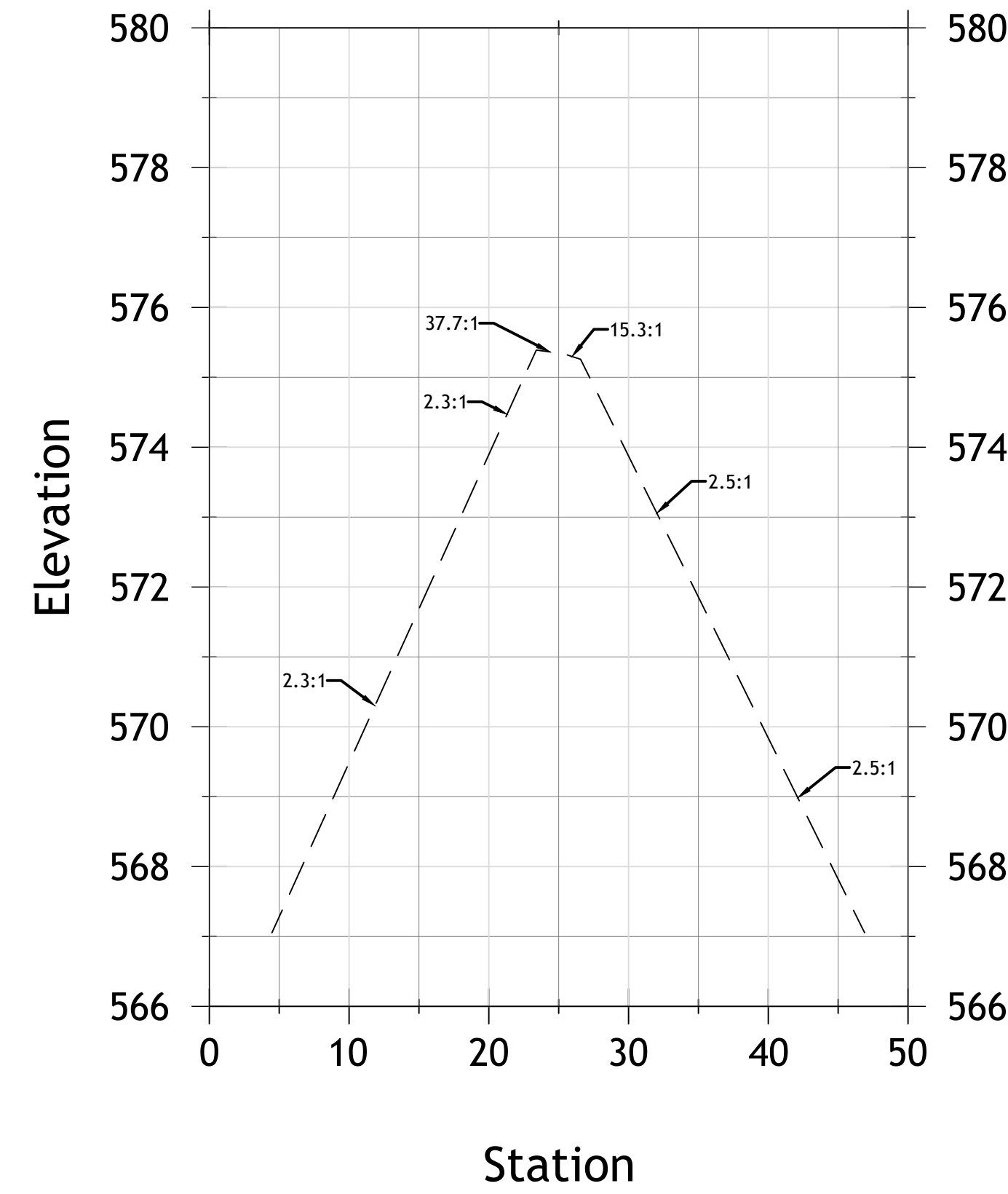
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SHOAL F CORE STONE  
THE DETROIT RIVER  
WAYNE COUNTY, MICHIGAN

SHEET  
CE8A

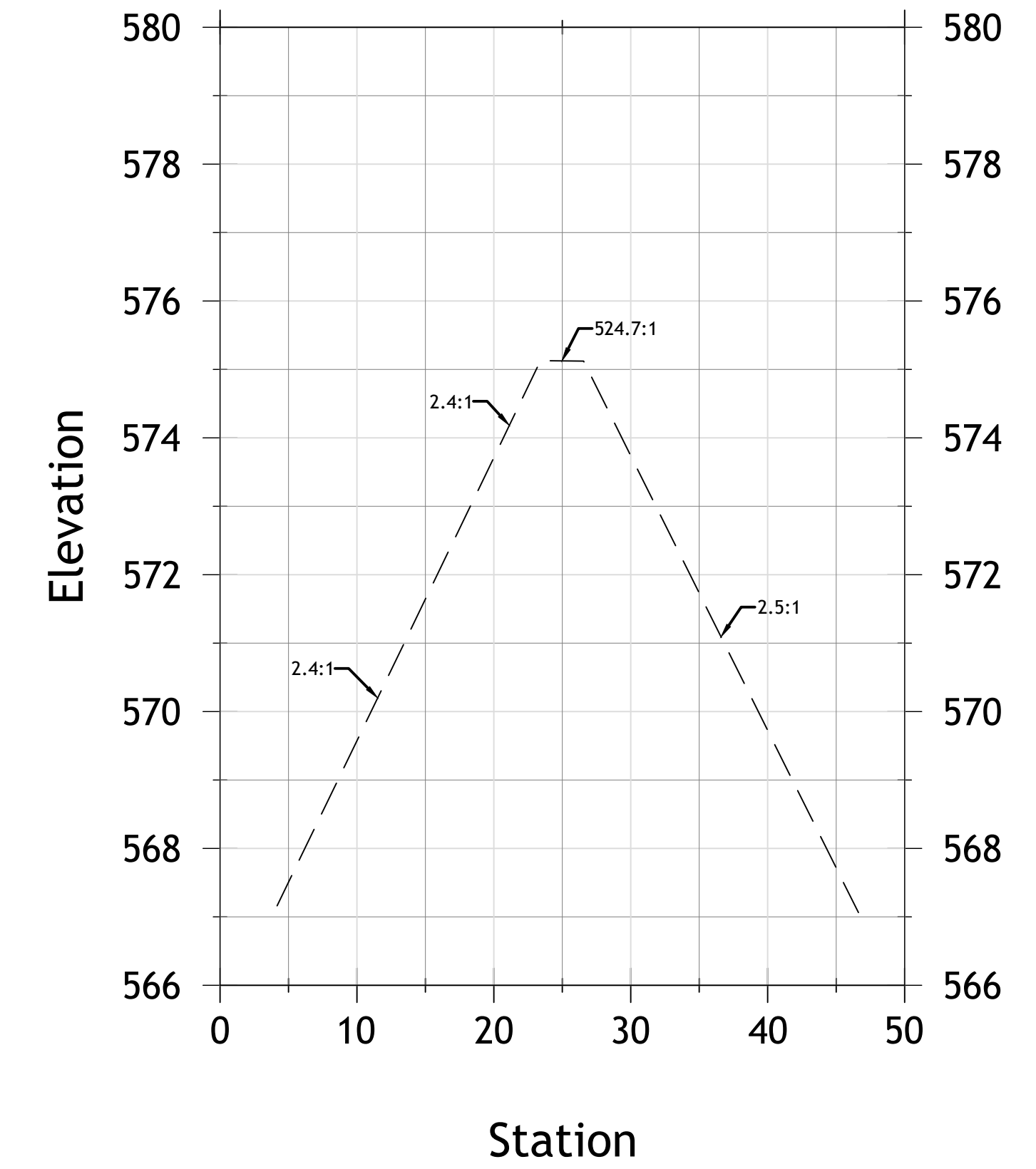
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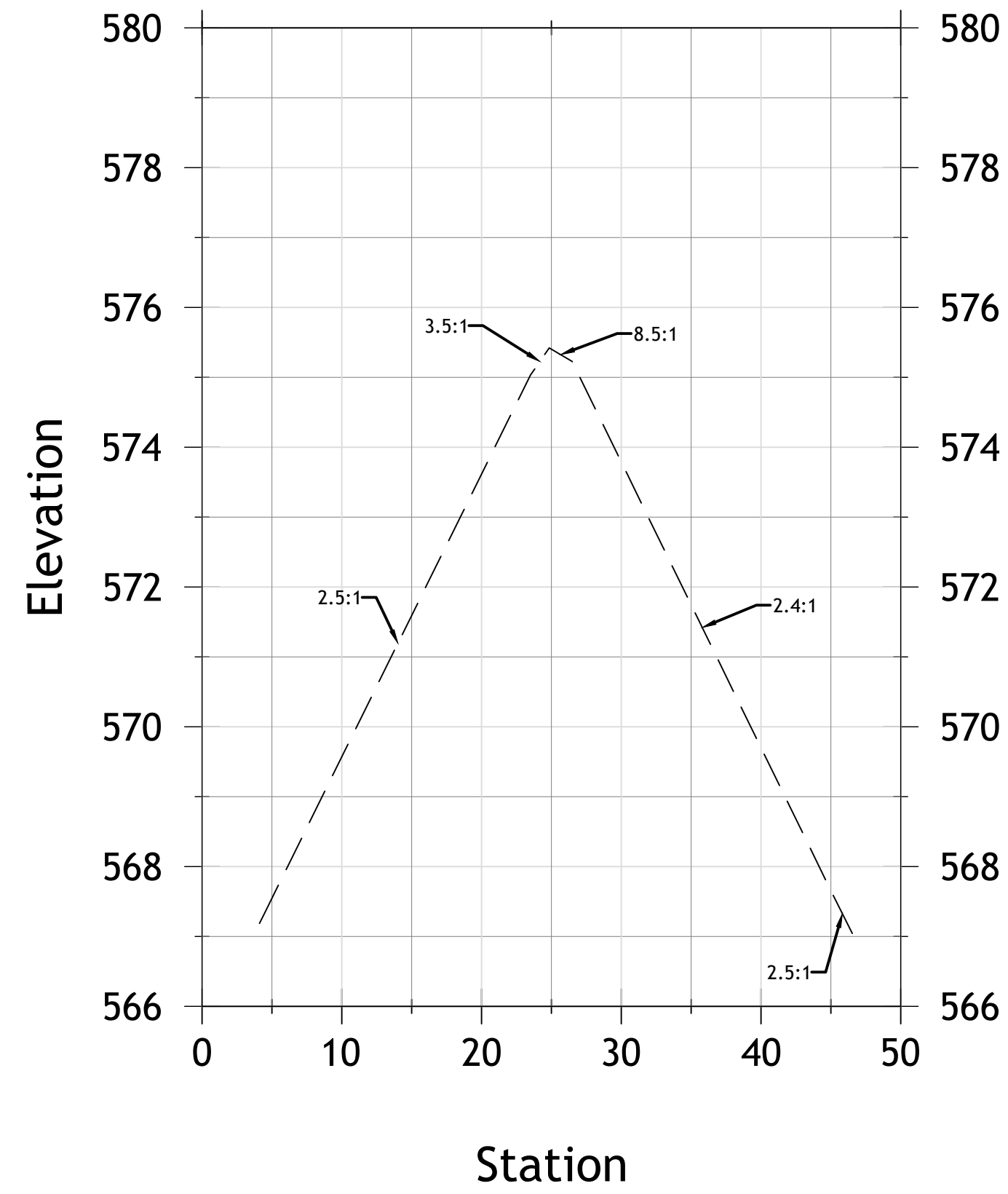
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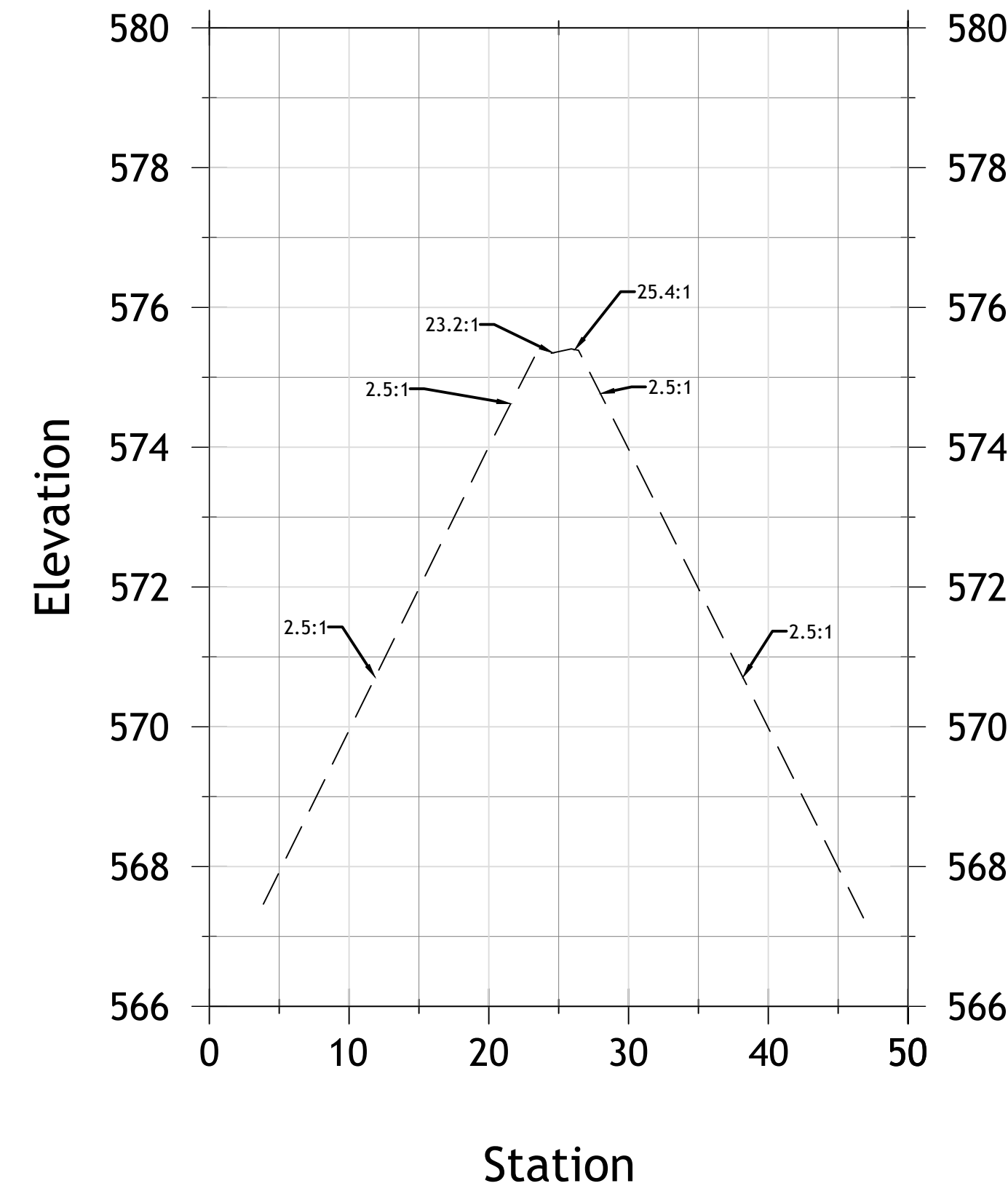
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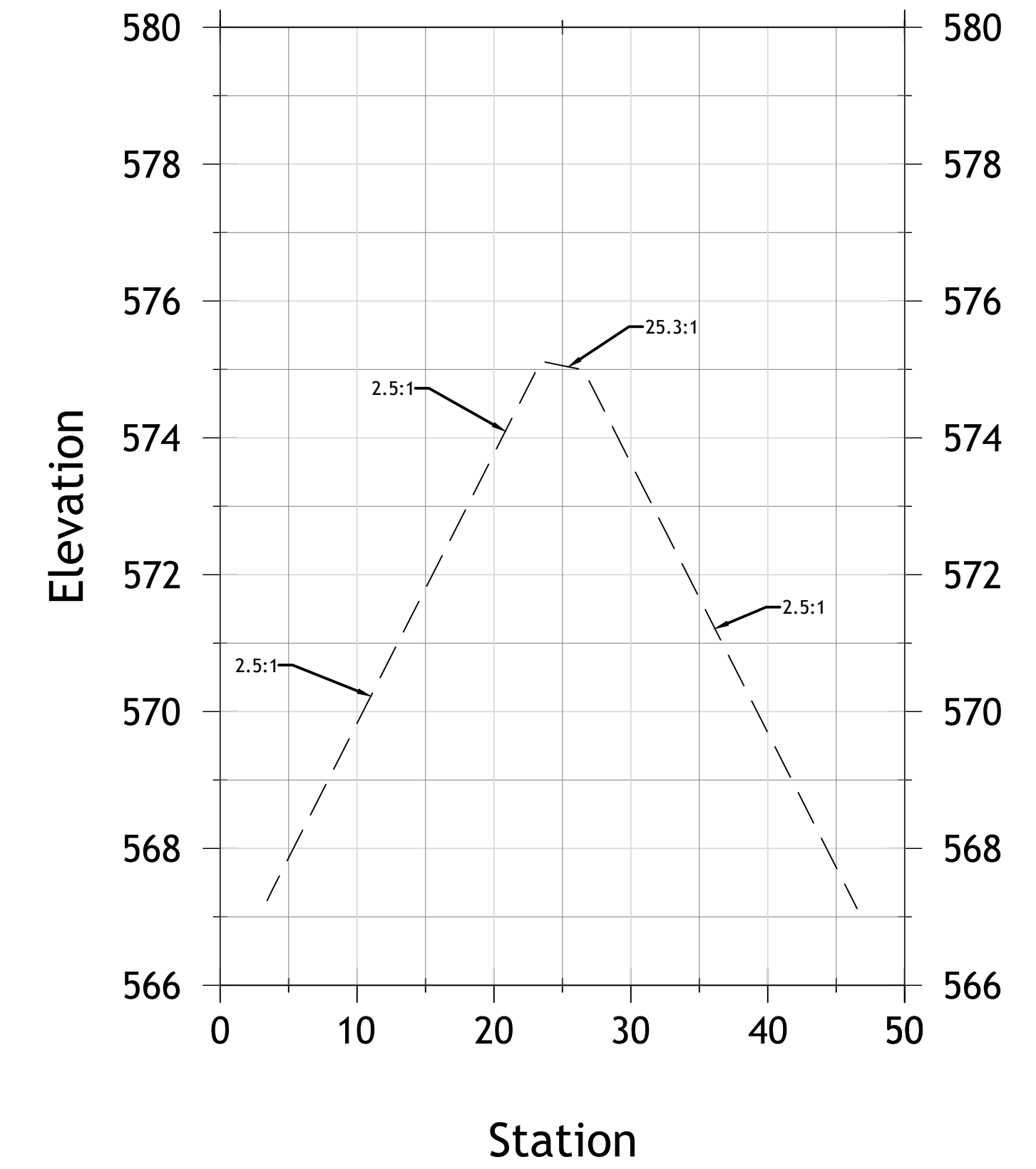
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CORE SHOAL F 2+50

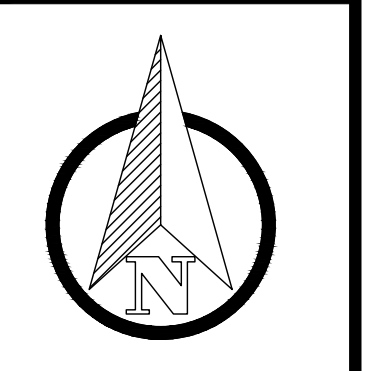


CORE SHOAL F 3+00



PROJECT NUMBER:  
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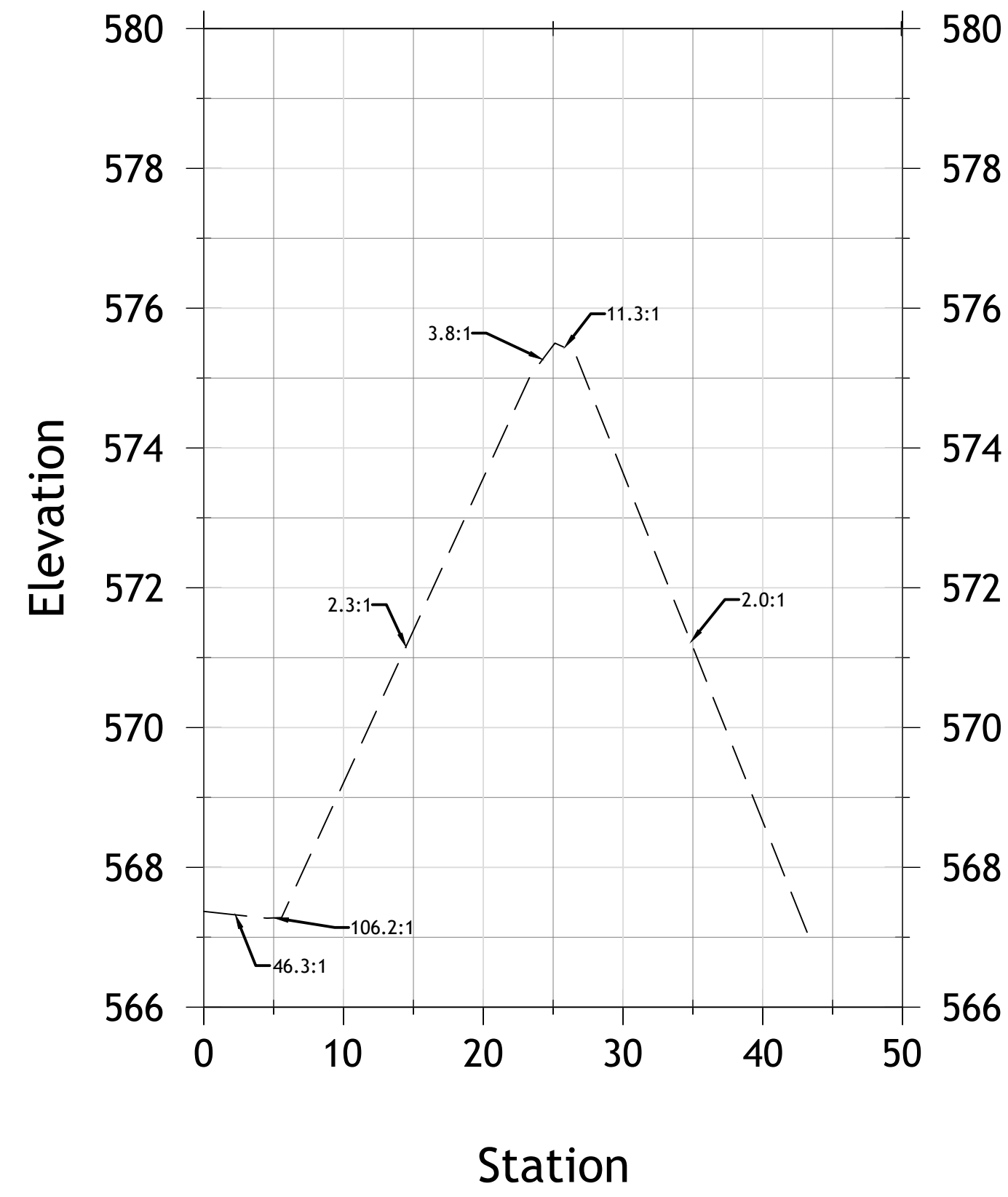
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AS-BUILTS  
CELERON ISLAND HABITAT RESTORATION  
SHOAL F CORE STONE  
THE DETROIT RIVER  
WAYNE COUNTY, MICHIGAN

SHEET  
CE8

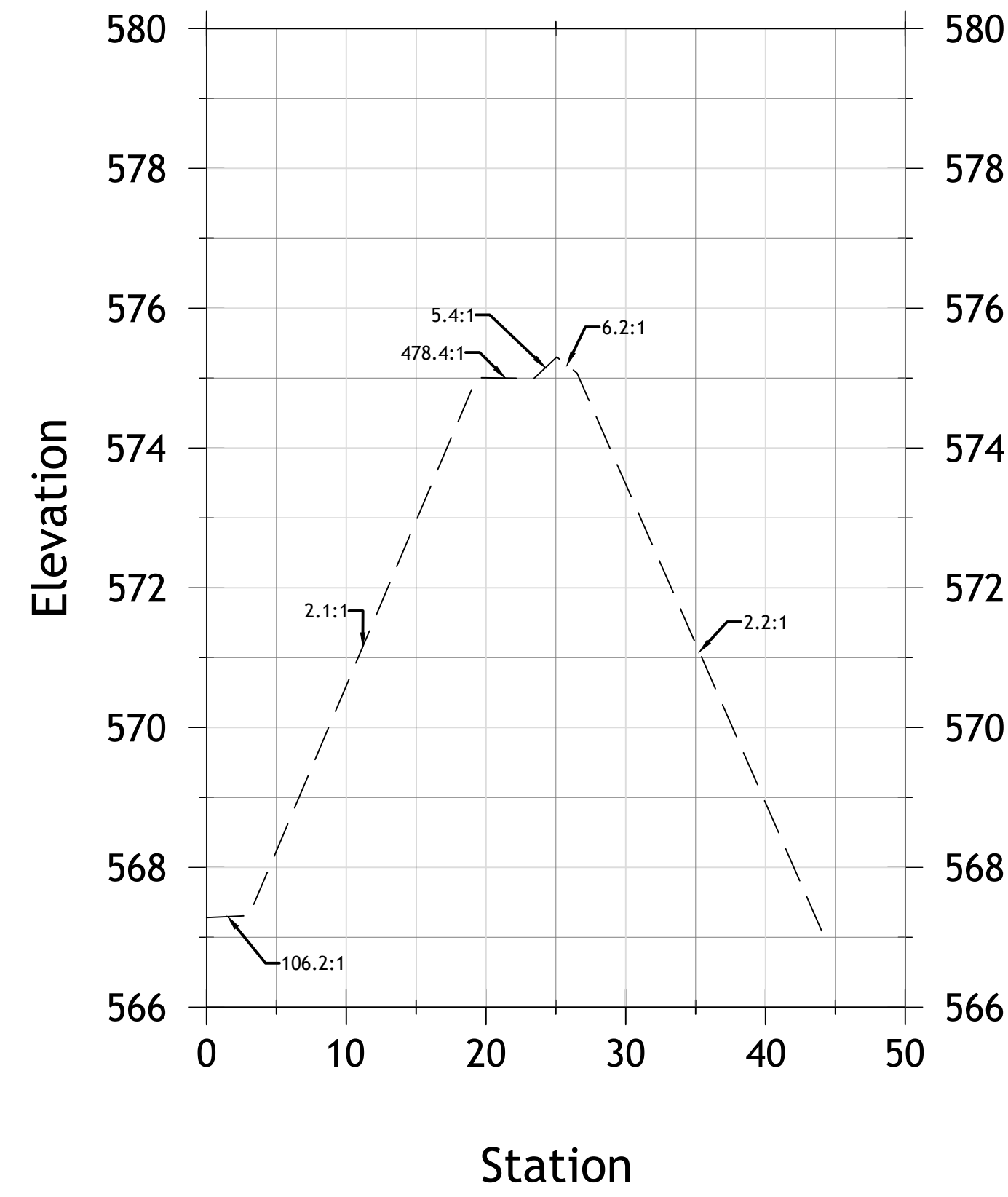




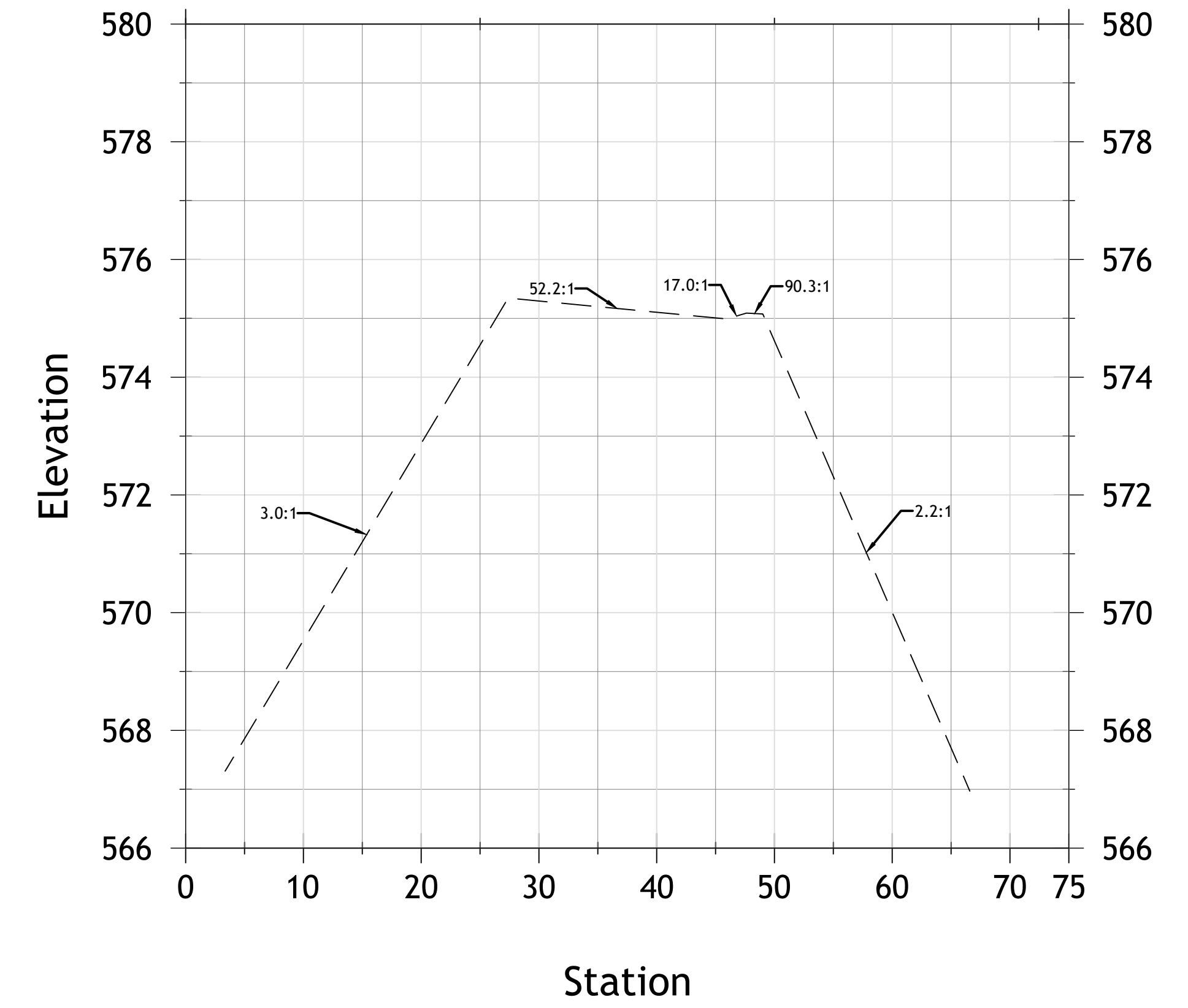
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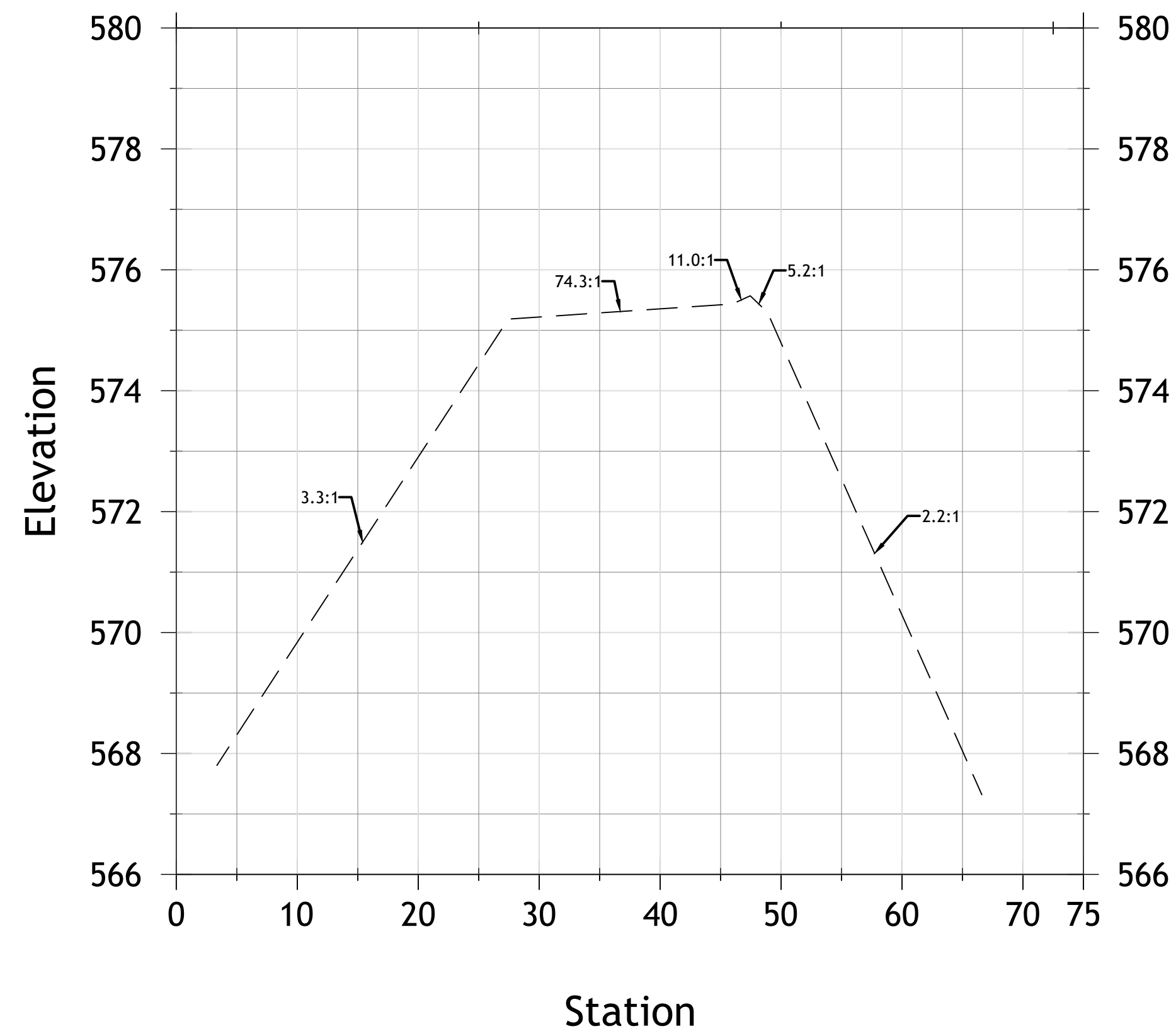
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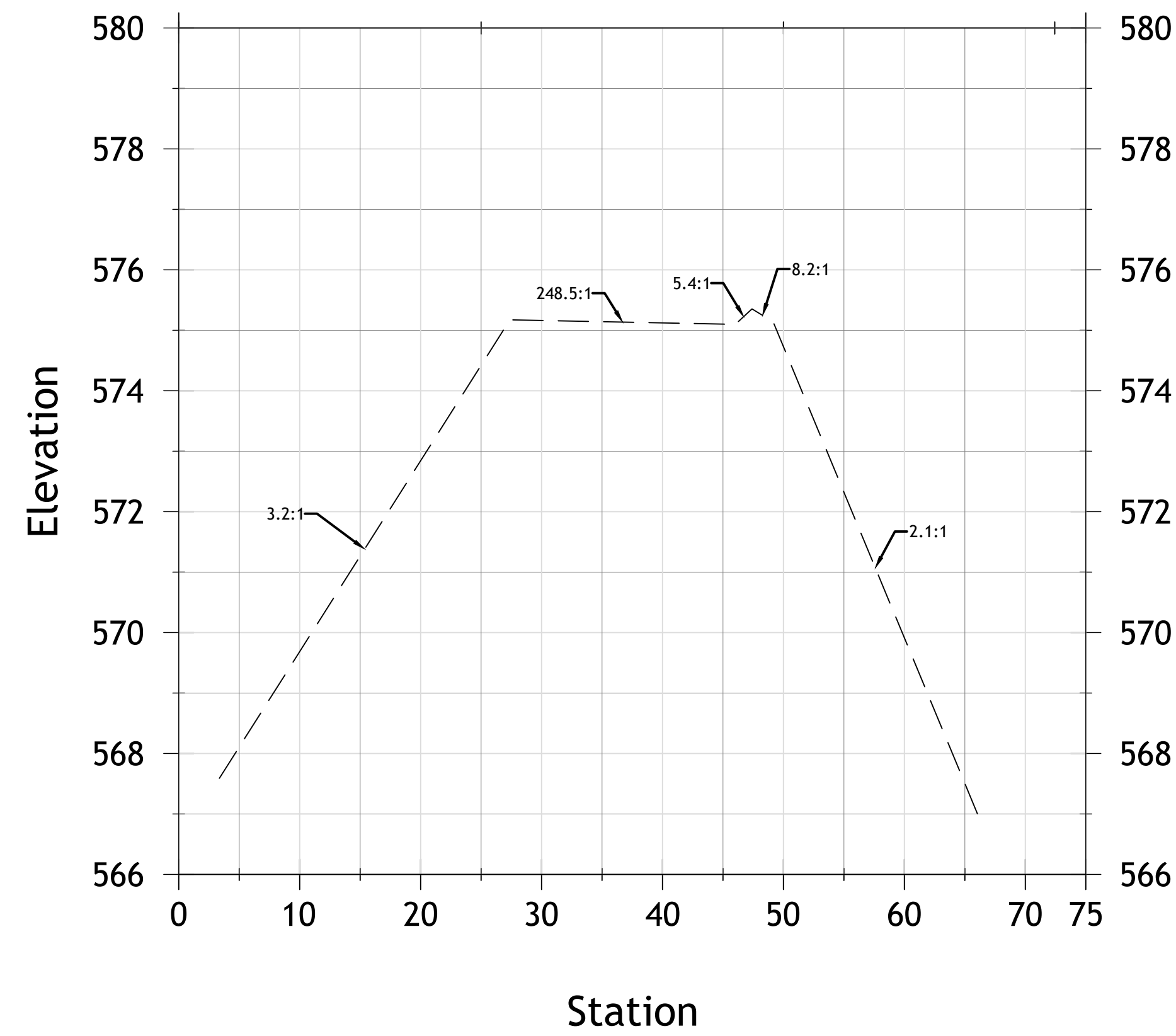
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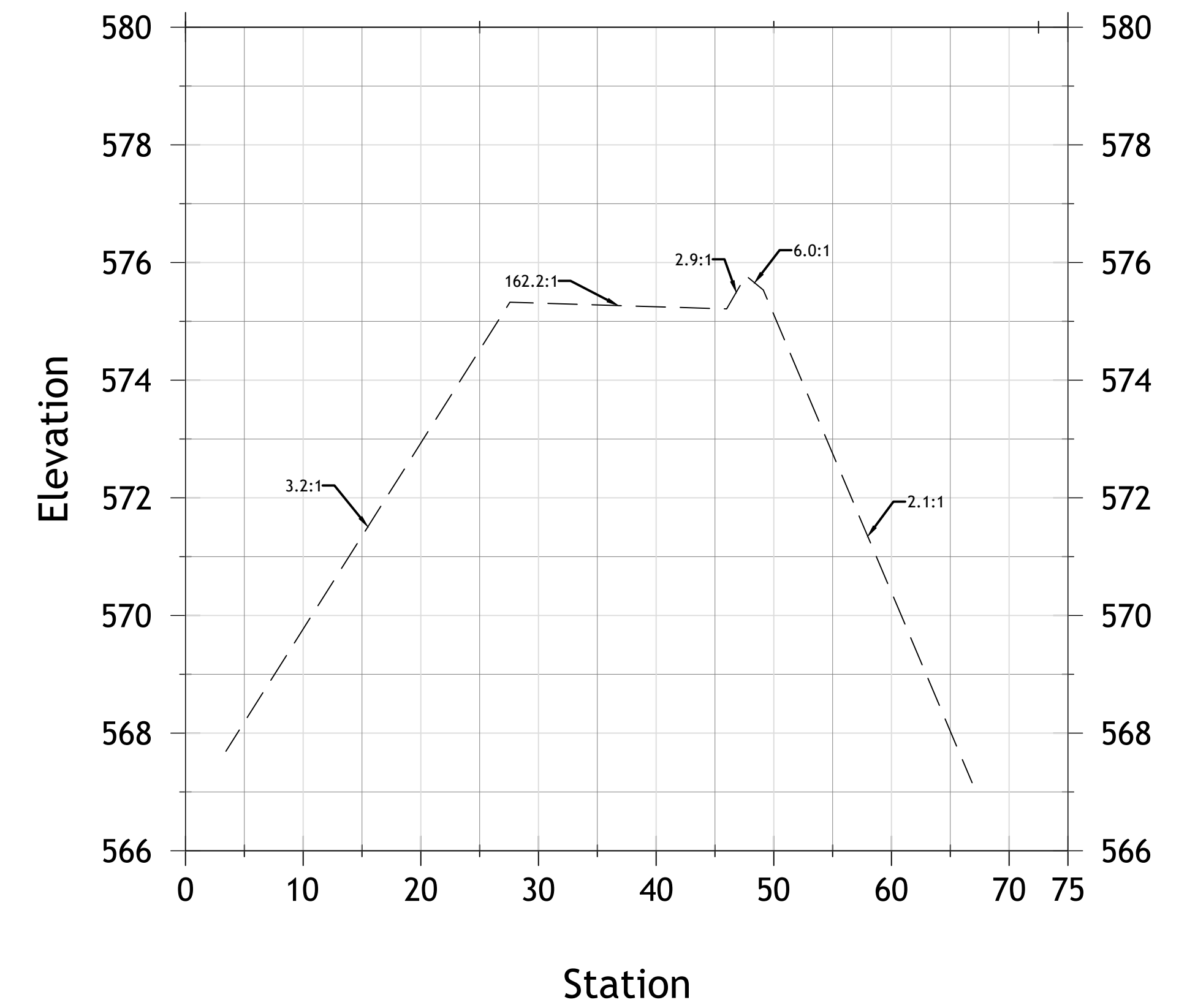
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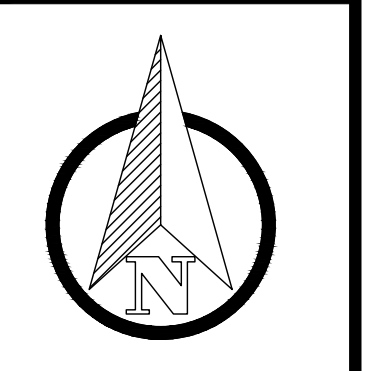


CORE SHOAL G 3+00



PROJECT NUMBER:  
52318  
DATE:  
04/12/19  
SCALE:  
1"=10'  
DESIGNED BY:  
DRAWN BY:  
JAB  
CHECKED BY:  
APPROVED BY:

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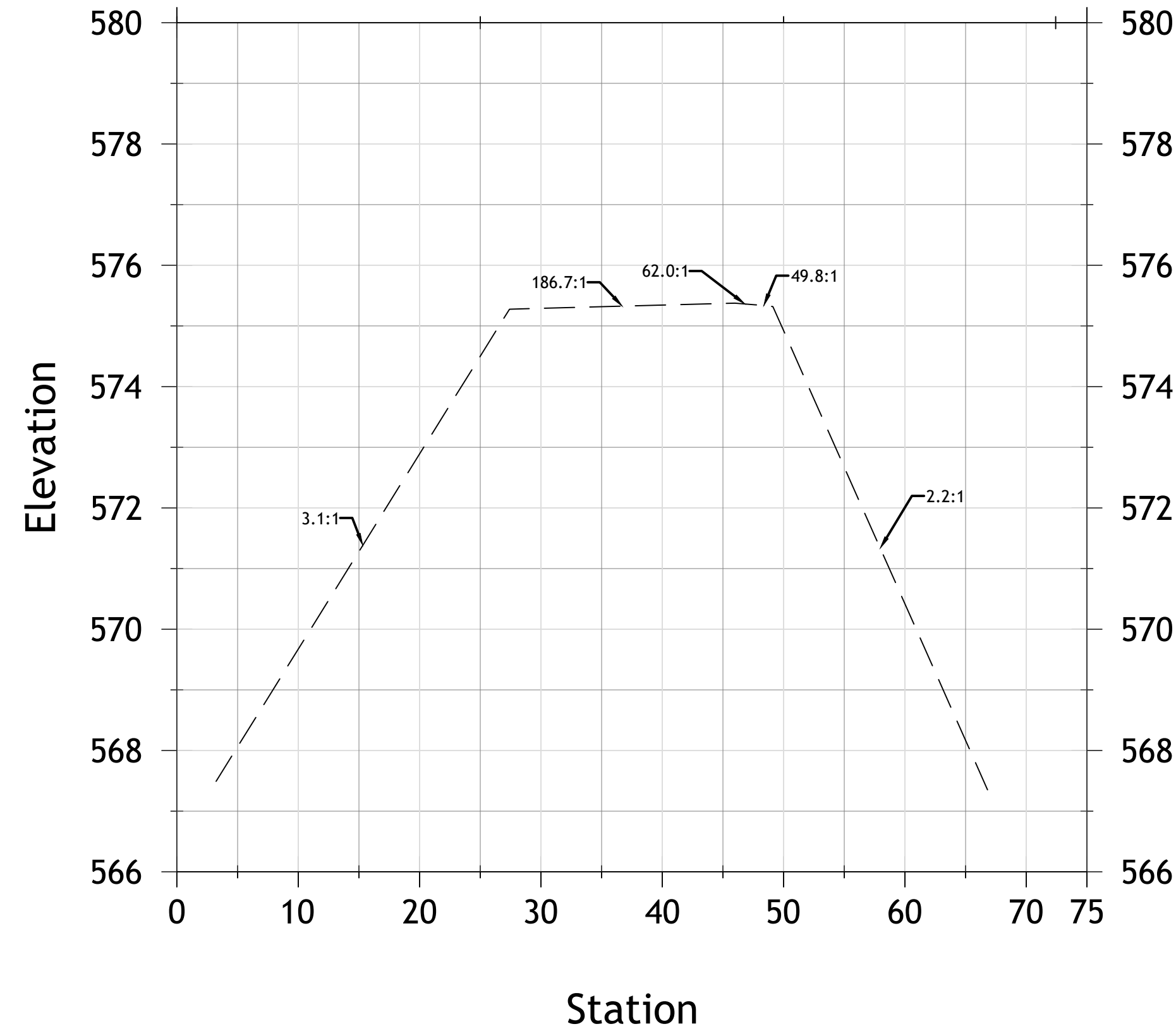


TITLE  
**AS-BUILTS**  
CELERON ISLAND HABITAT RESTORATION  
SHOAL G CORE STONE  
THE DETROIT RIVER  
WAYNE COUNTY, MICHIGAN

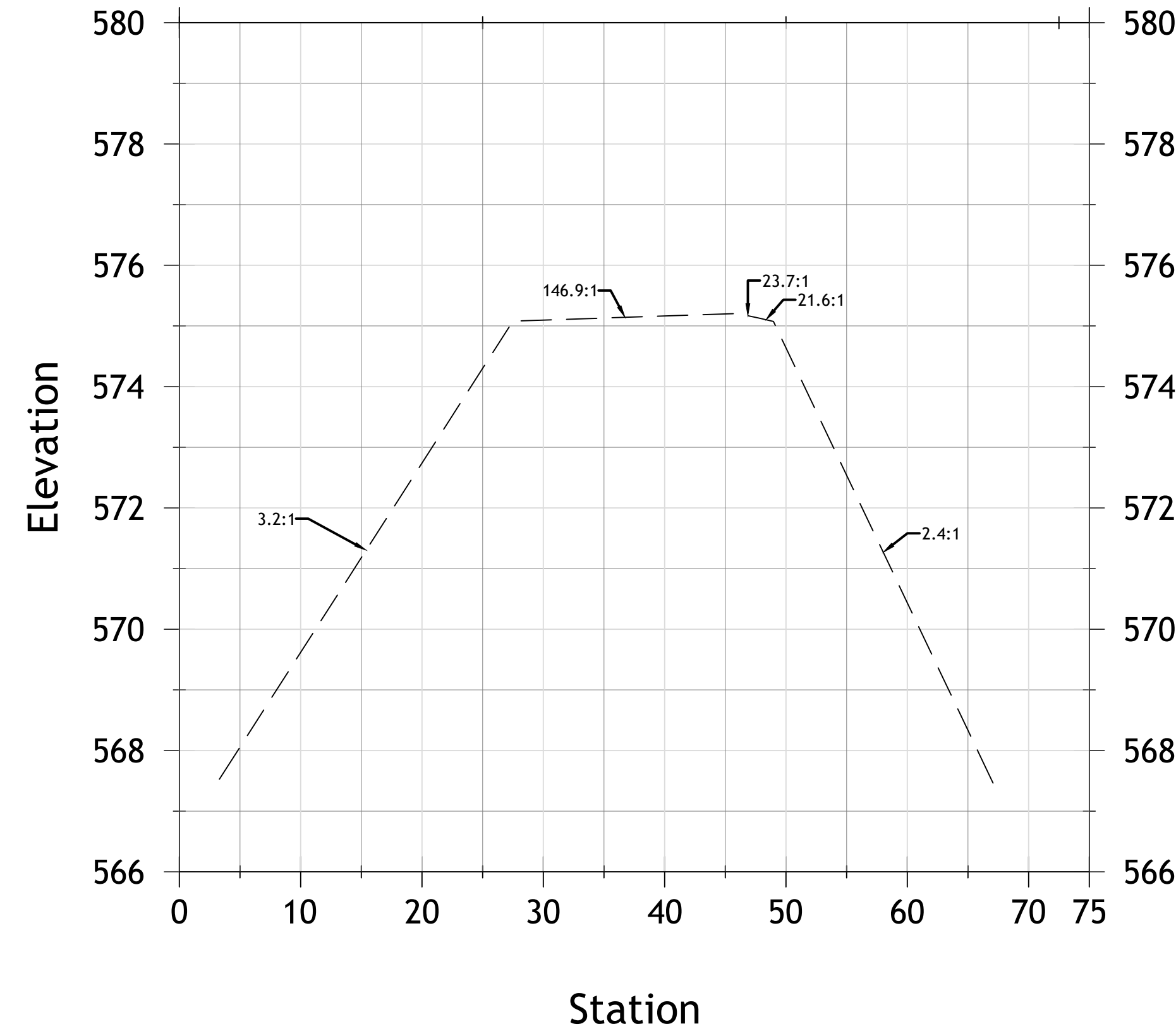
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**CE9**



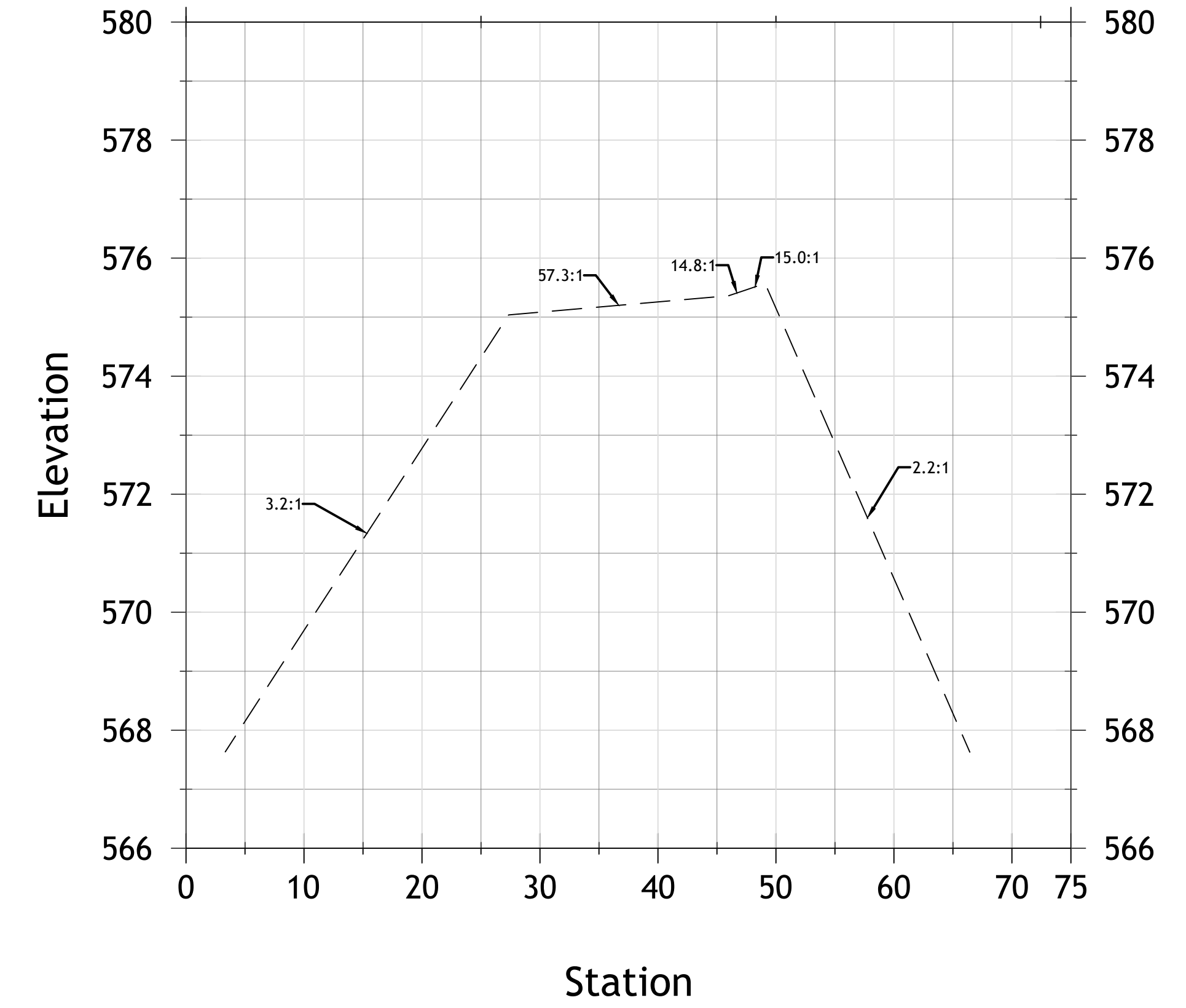
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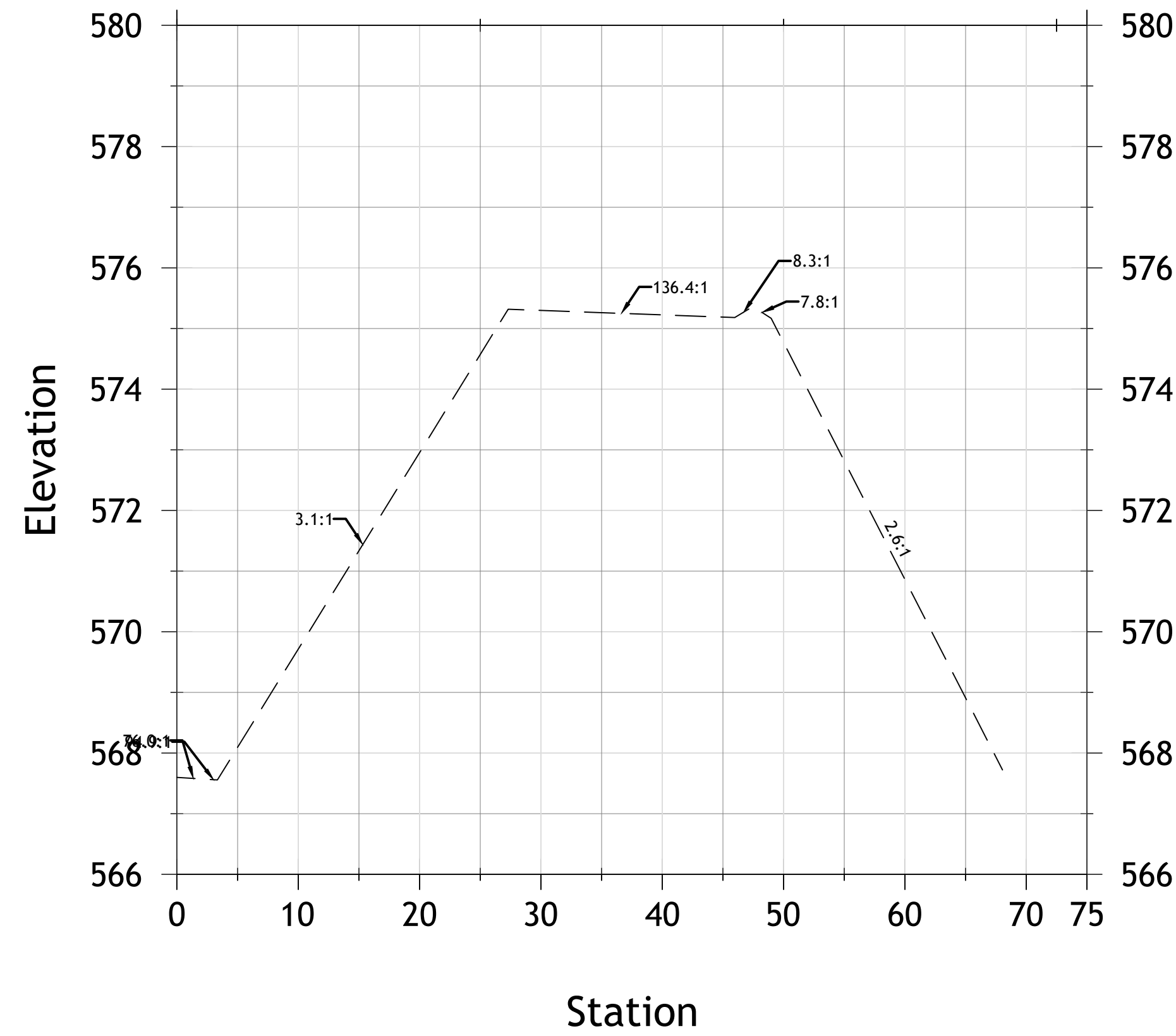
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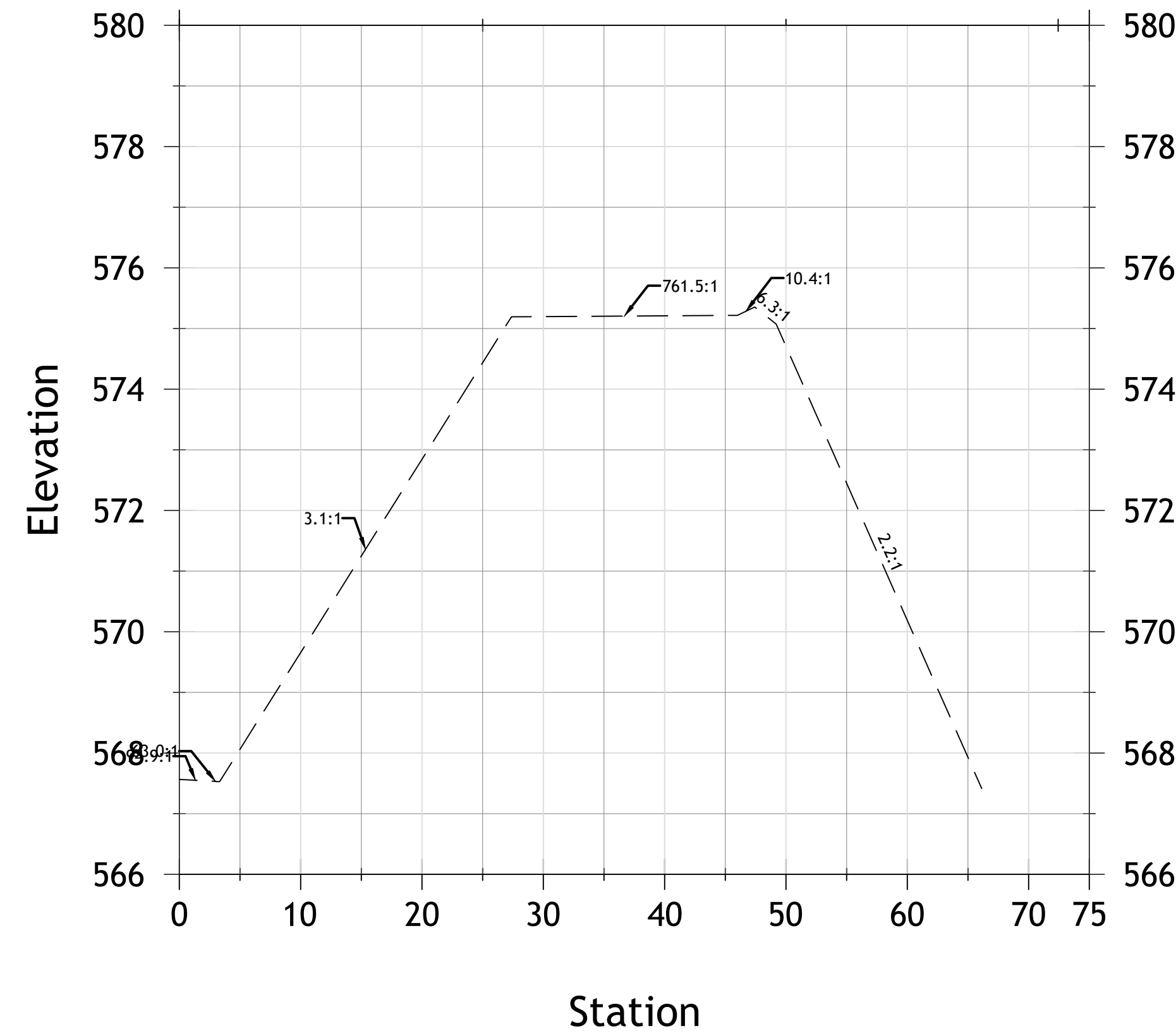
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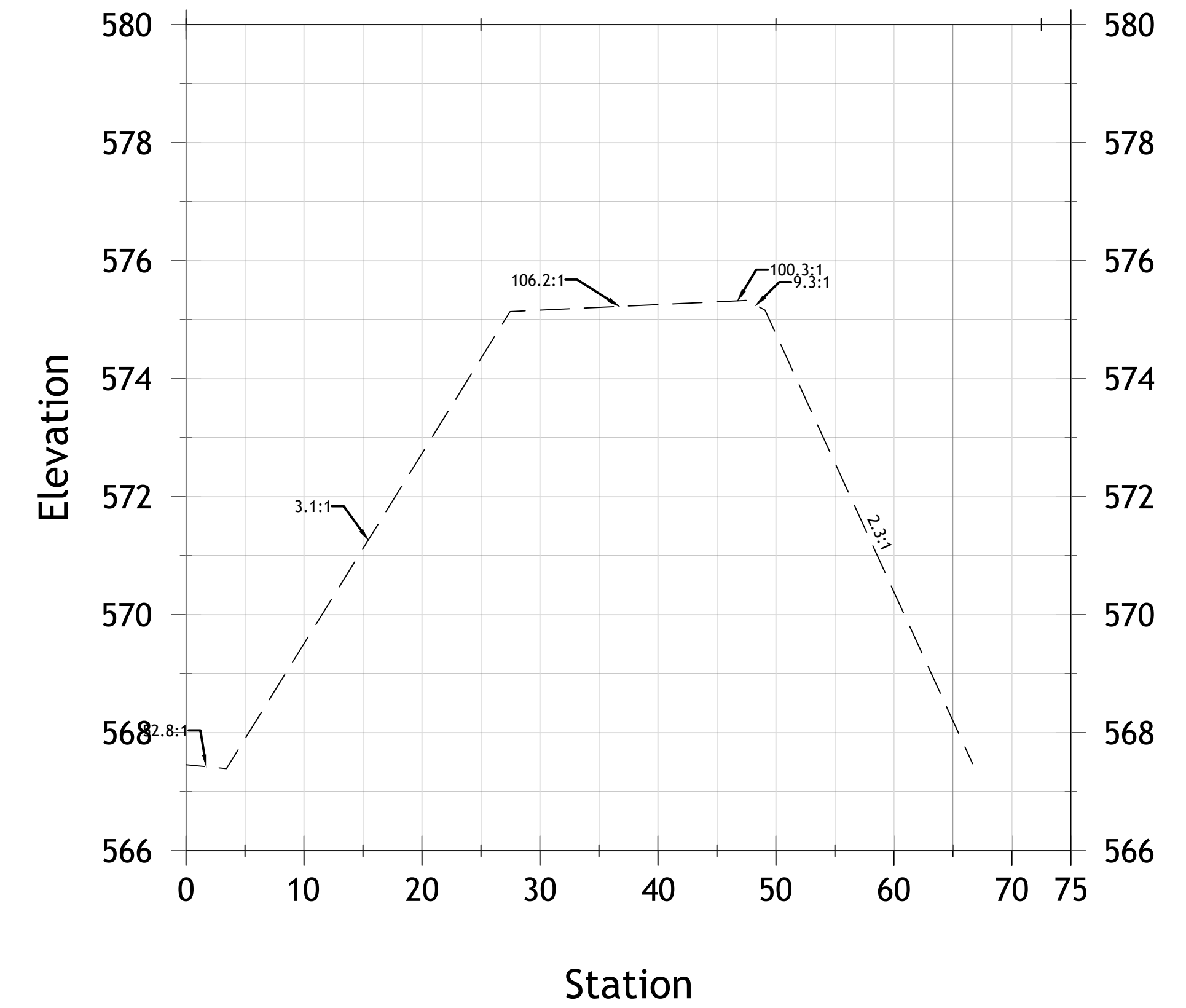
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CORE SHOAL G 5+50



CORE SHOAL G 5+90



PROJECT NUMBER:  
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DATE:  
04/12/19

SCALE:  
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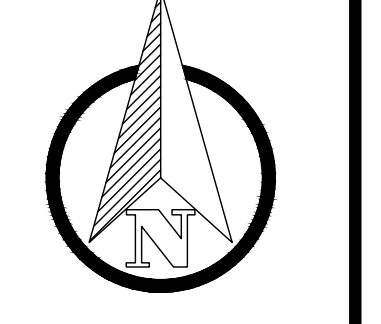
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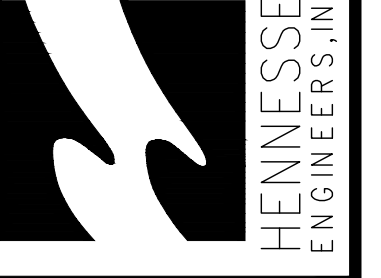
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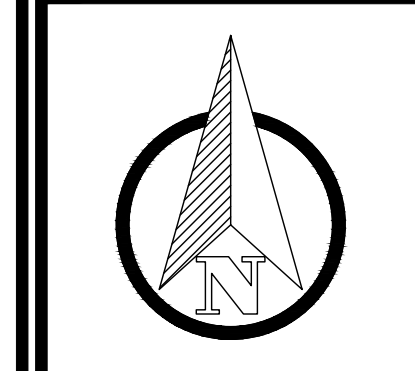


TITLE  
AS-BUILTS  
CELERON ISLAND HABITAT RESTORATION  
SHOAL G CORE STONE  
THE DETROIT RIVER  
WAYNE COUNTY, MICHIGAN

SHEET  
CE10

PROJECT NUMBER:  
52318  
DATE:  
04/12/19  
SCALE:  
1"=10'  
DESIGNED BY:  
DRAWN BY:  
JAB  
CHECKED BY:  
APPROVED BY:

REVISIONS

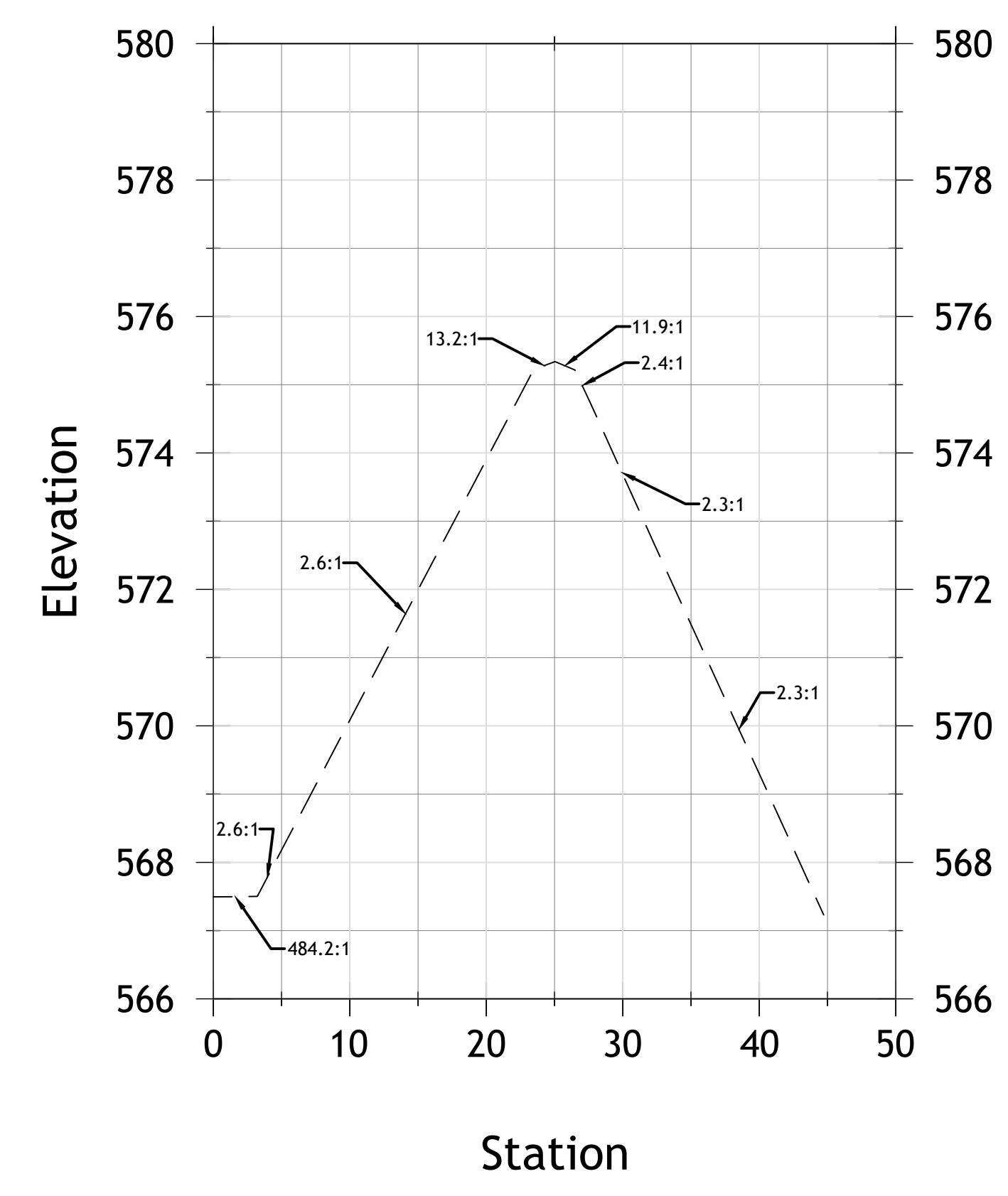


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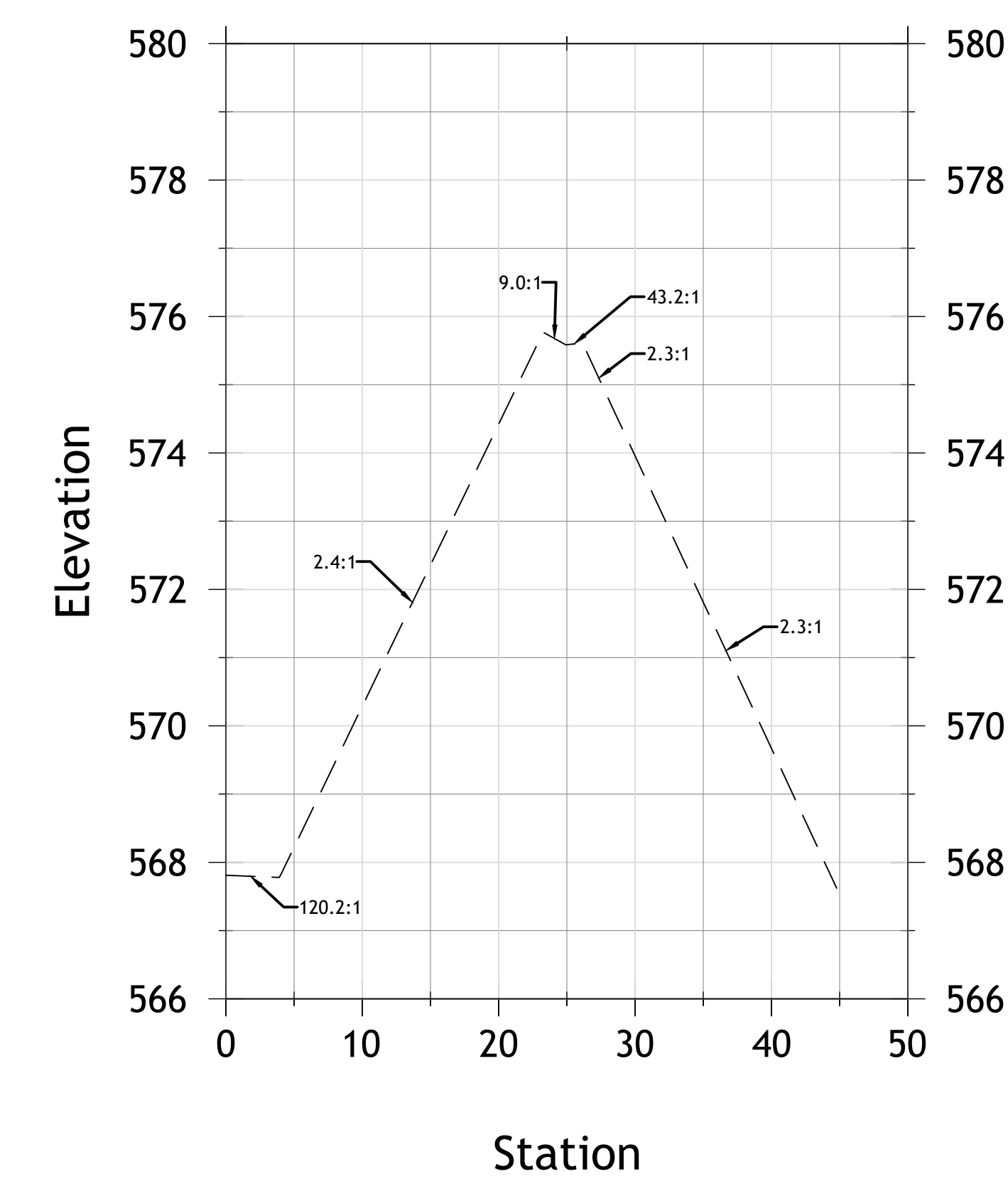
TITLE  
AS-BUILTS  
CELERON ISLAND HABITAT RESTORATION  
SHOAL G CORE STONE  
THE DETROIT RIVER  
WAYNE COUNTY, MICHIGAN

SHEET  
CE11

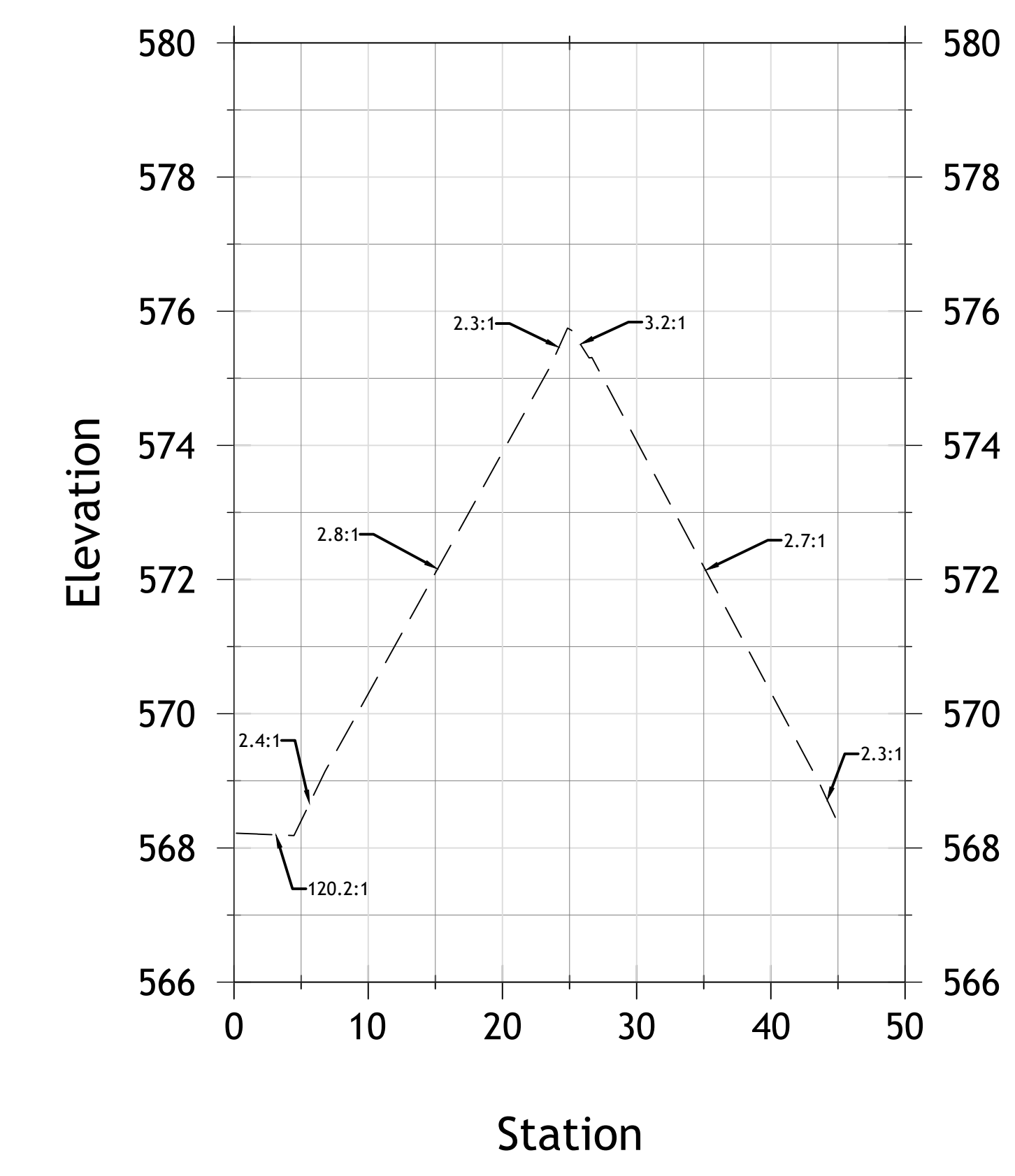
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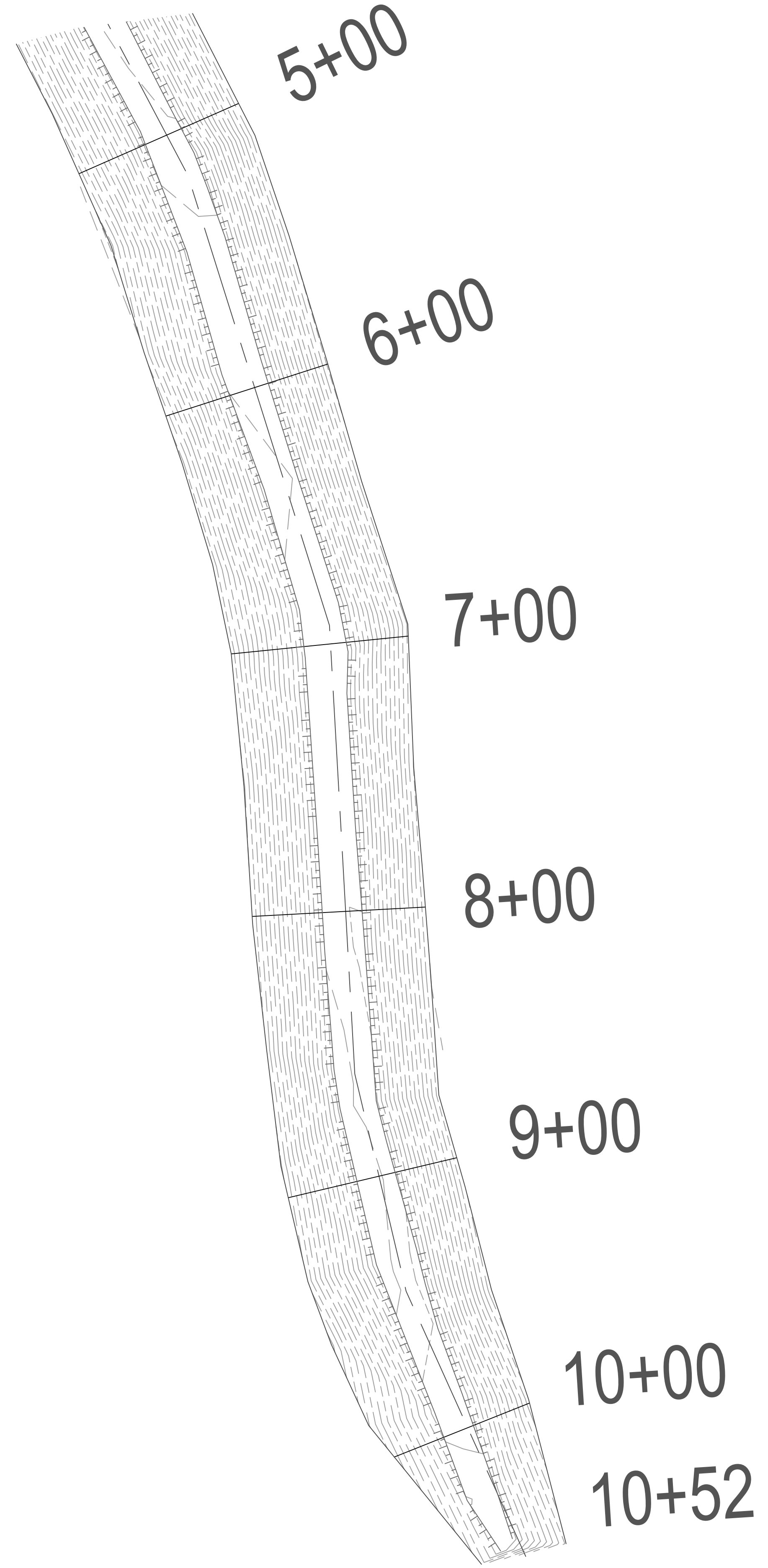
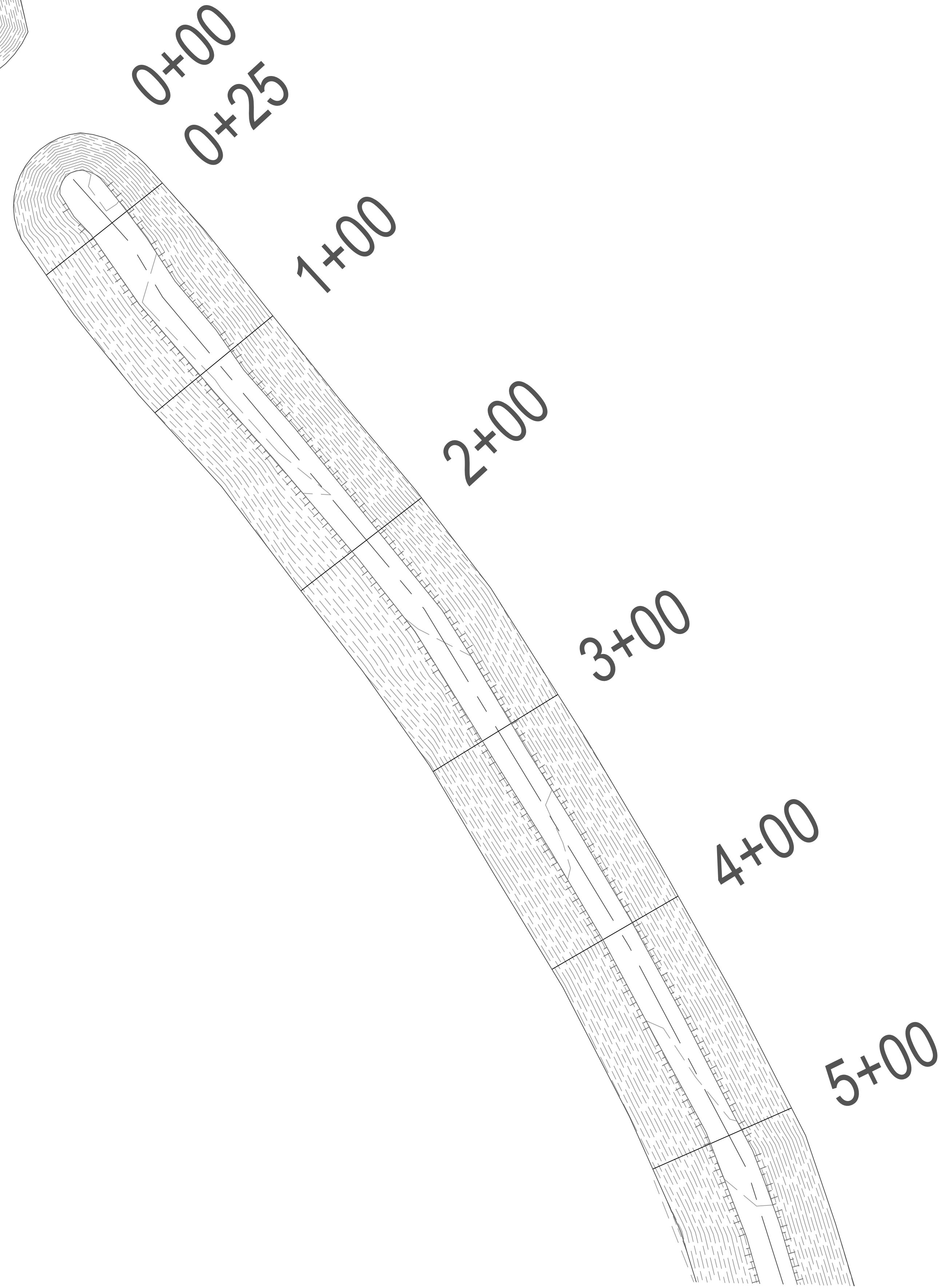
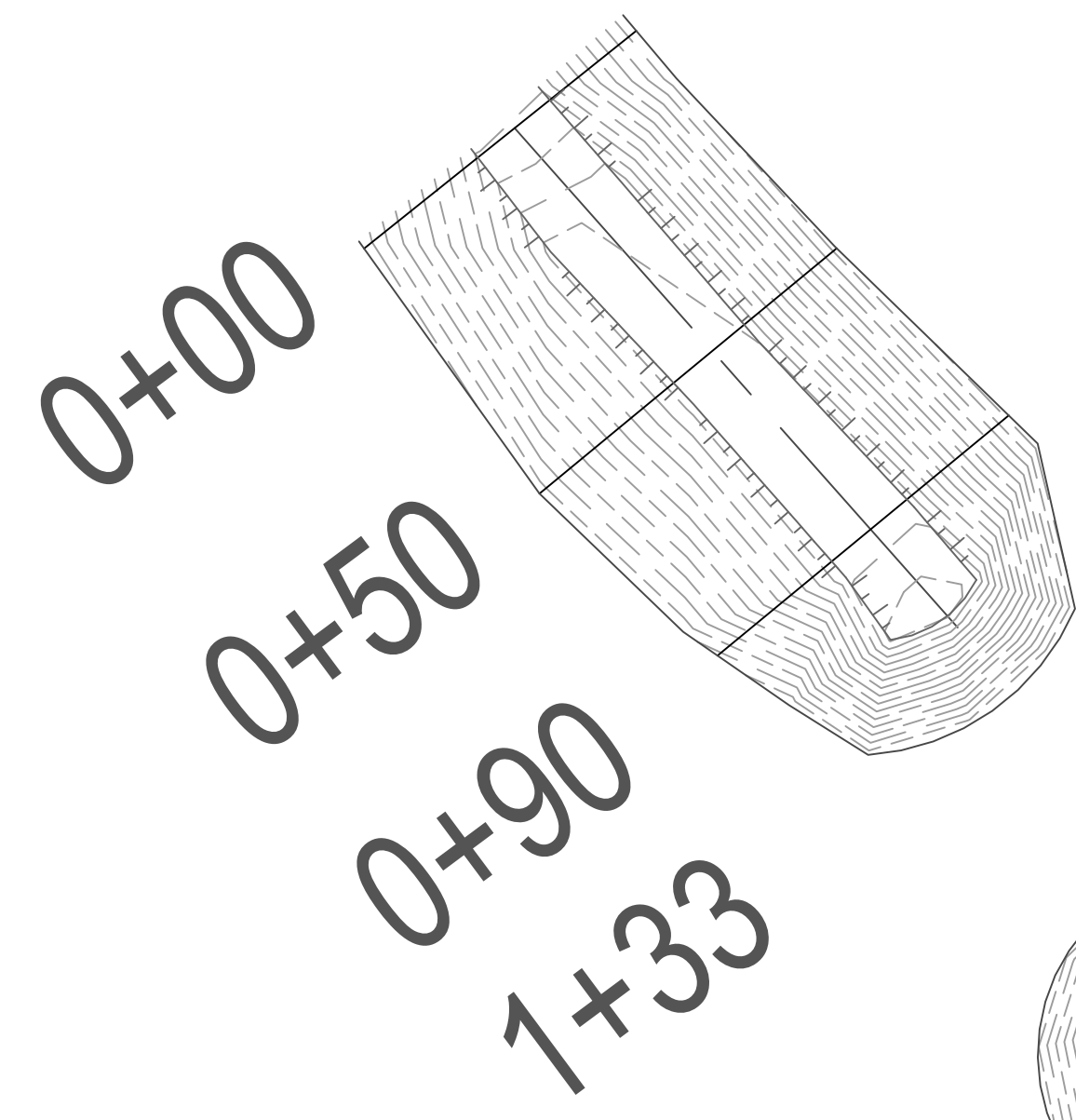
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CORE SHOAL G 7+50







PROJECT NUMBER:  
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DATE:  
10/31/19

SCALE:  
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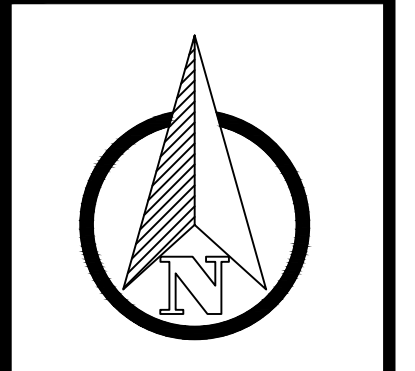
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DRAWN BY:  
JAB

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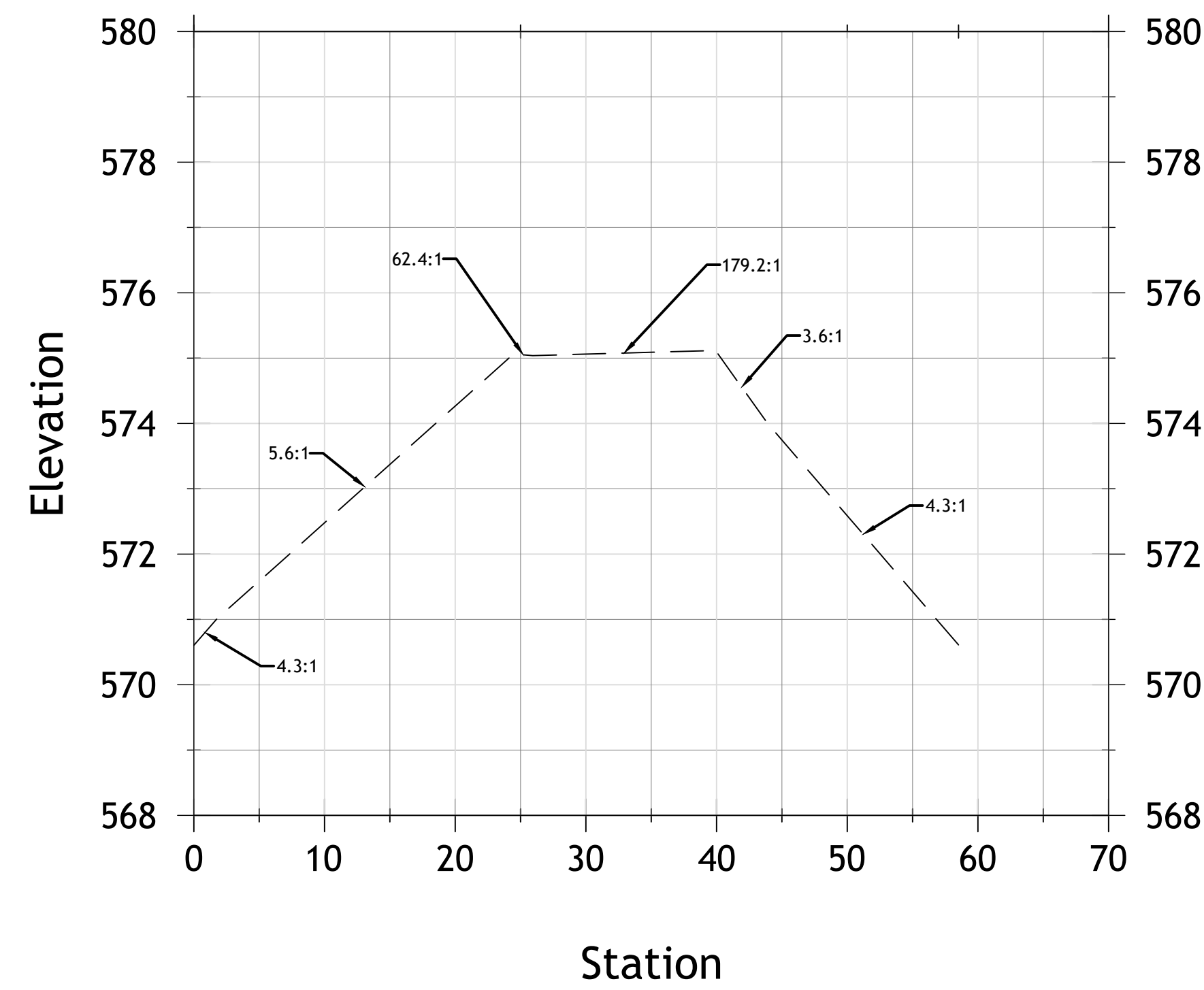
**AS-BUILTS**

TITLE  
CELERON ISLAND HABITAT RESTORATION  
NORTH SHOAL / EXT. CORE STONE  
THE DETROIT RIVER  
WAYNE COUNTY, MICHIGAN

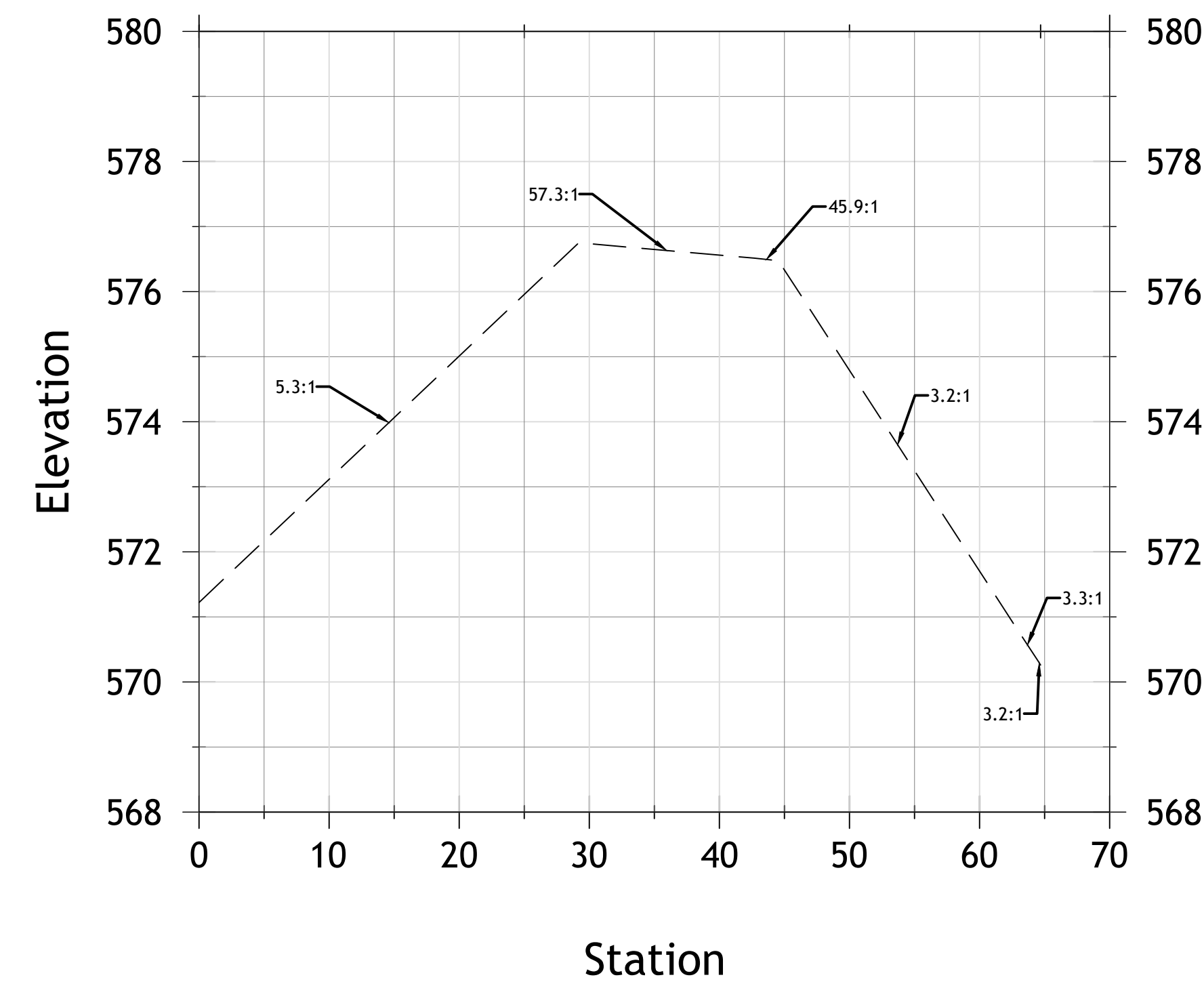
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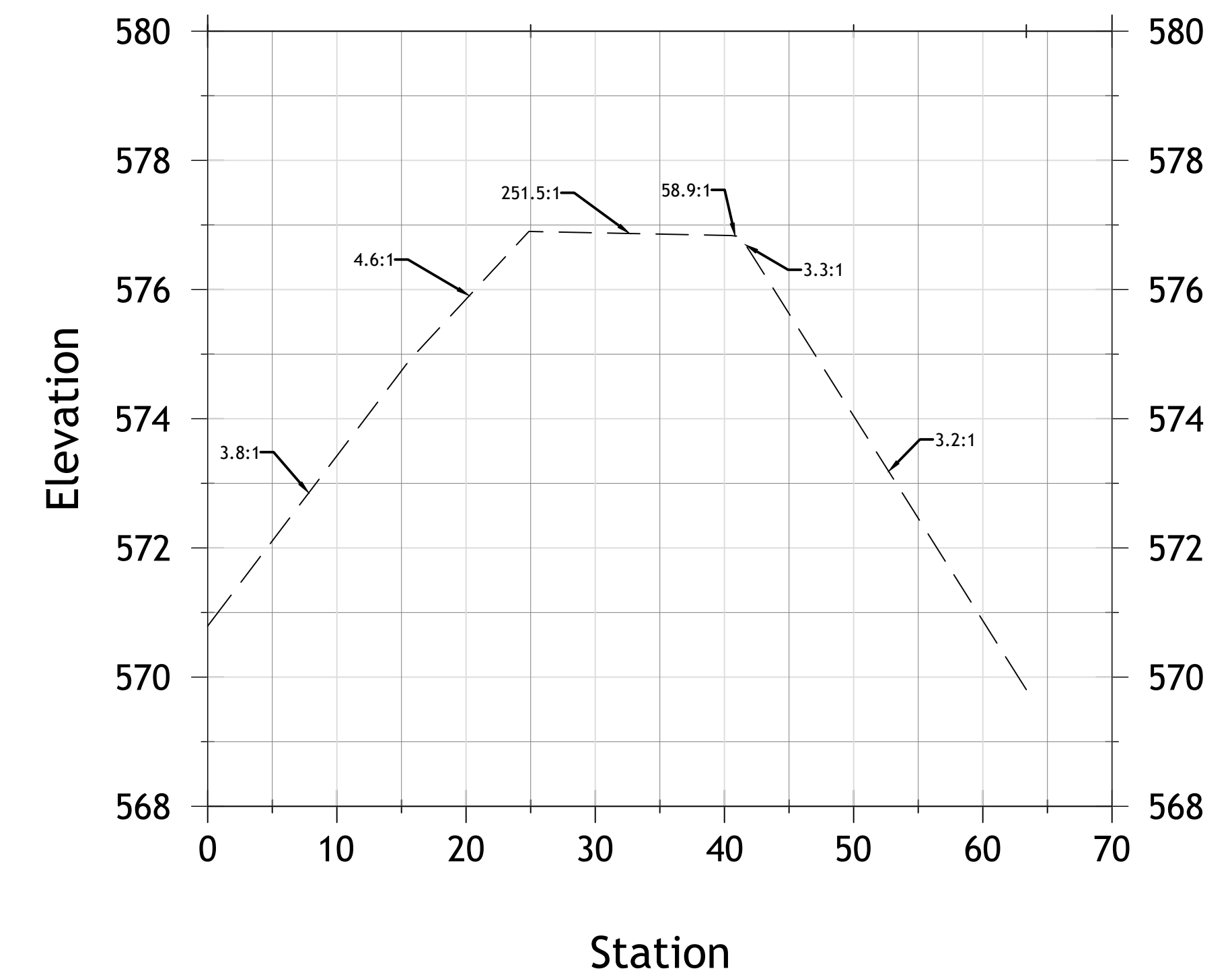
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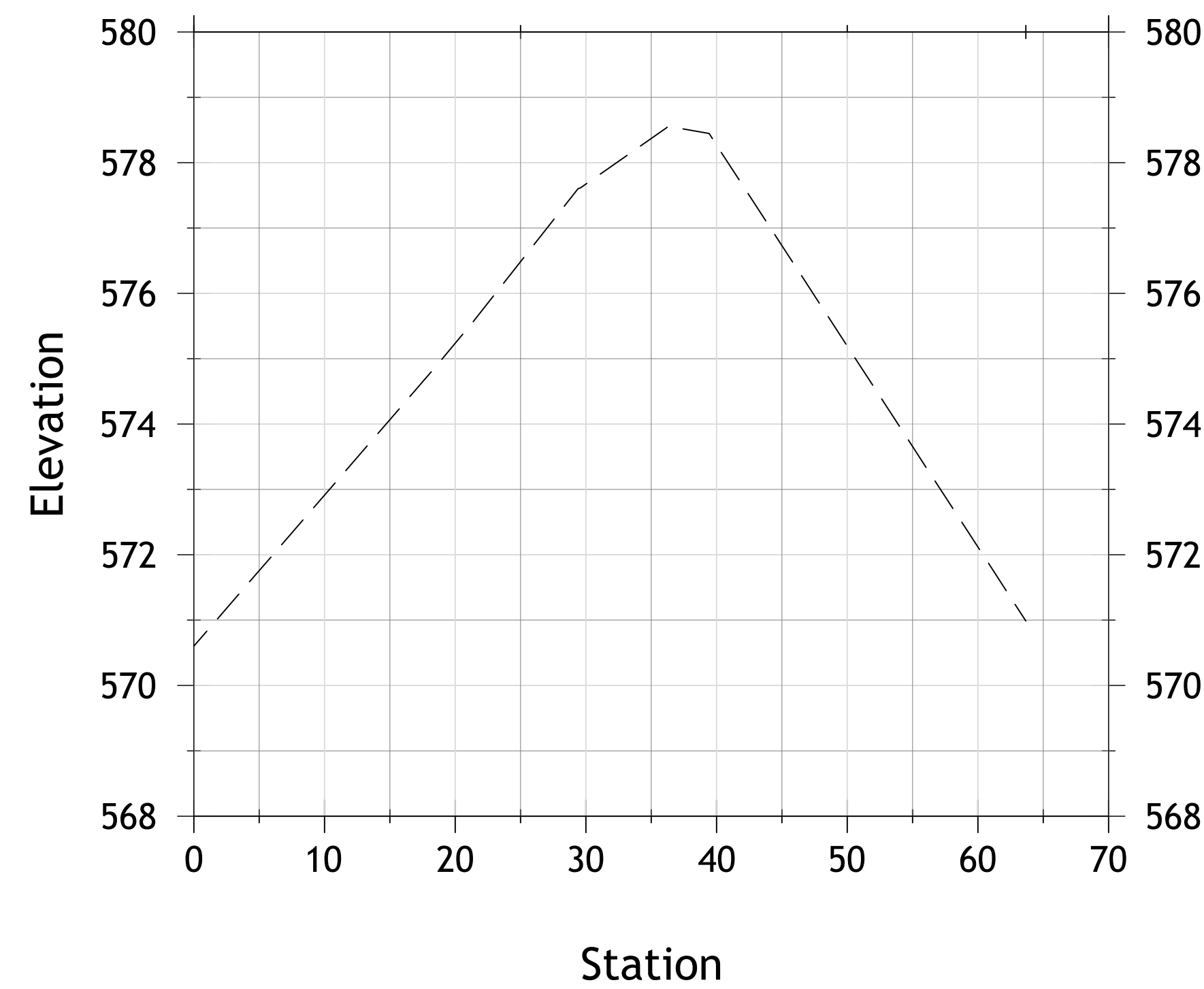
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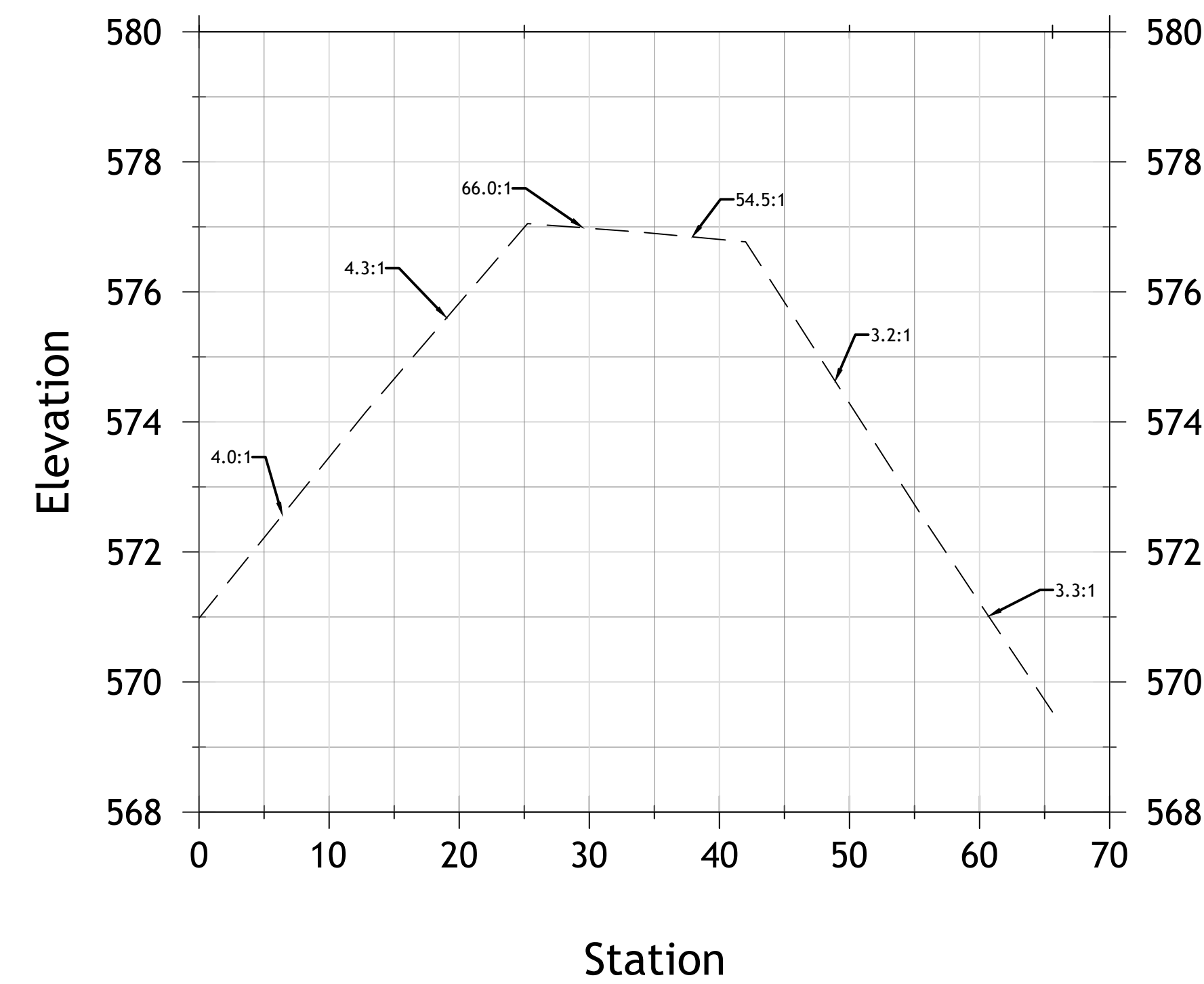
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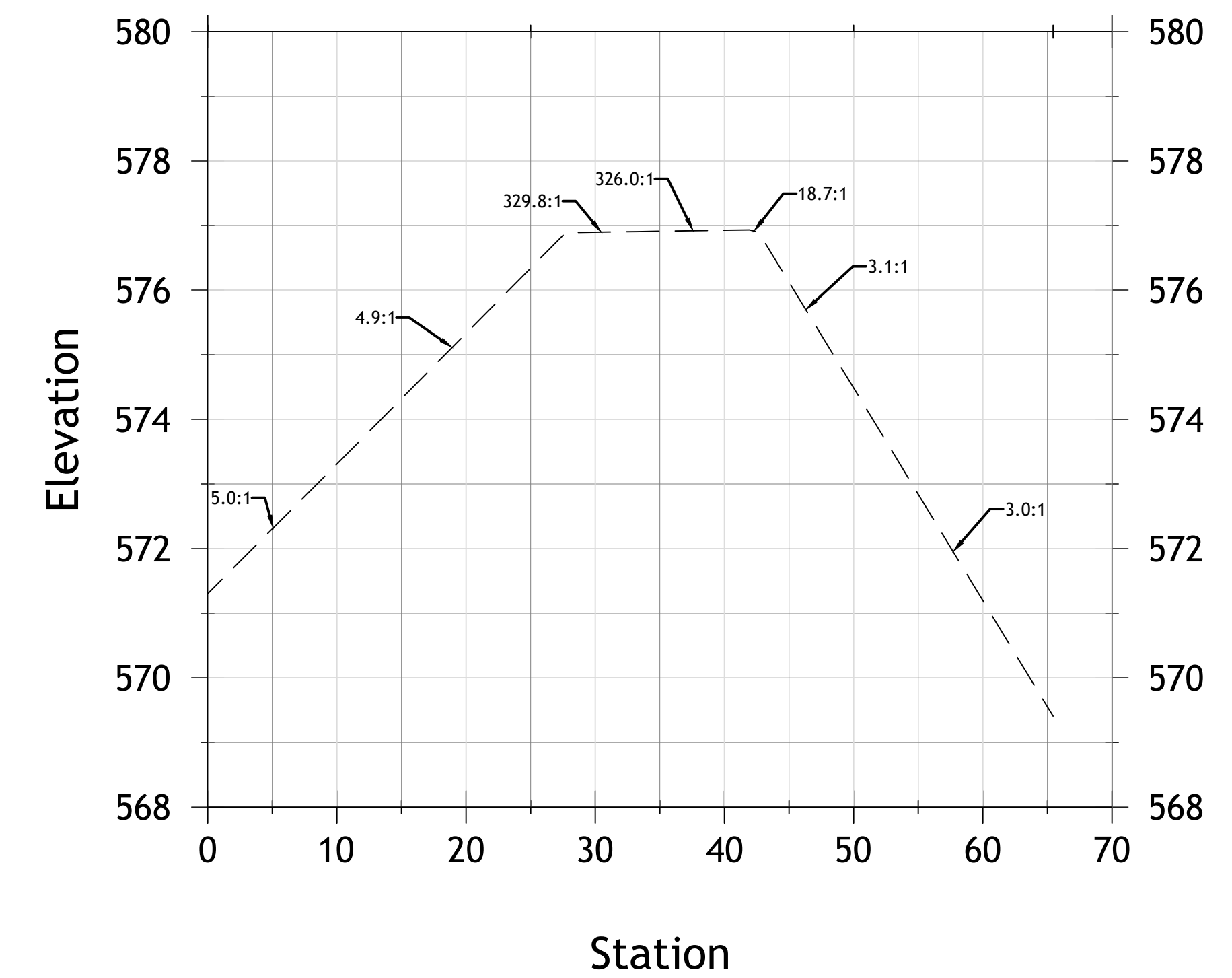
NORTH ISLAND SHOAL 0+25



NORTH ISLAND SHOAL 1+00



NORTH ISLAND SHOAL 2+00



PROJECT NUMBER:  
52318

DATE:  
06/27/19

SCALE:  
1"=10'

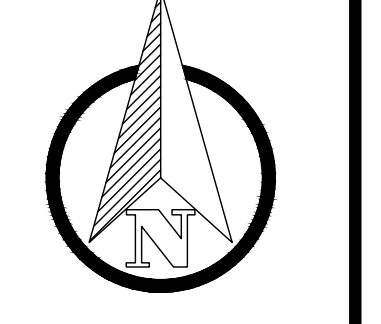
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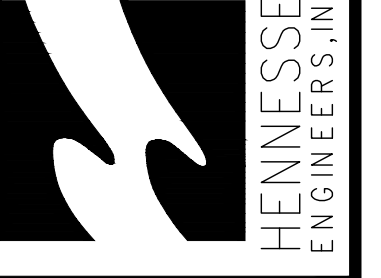
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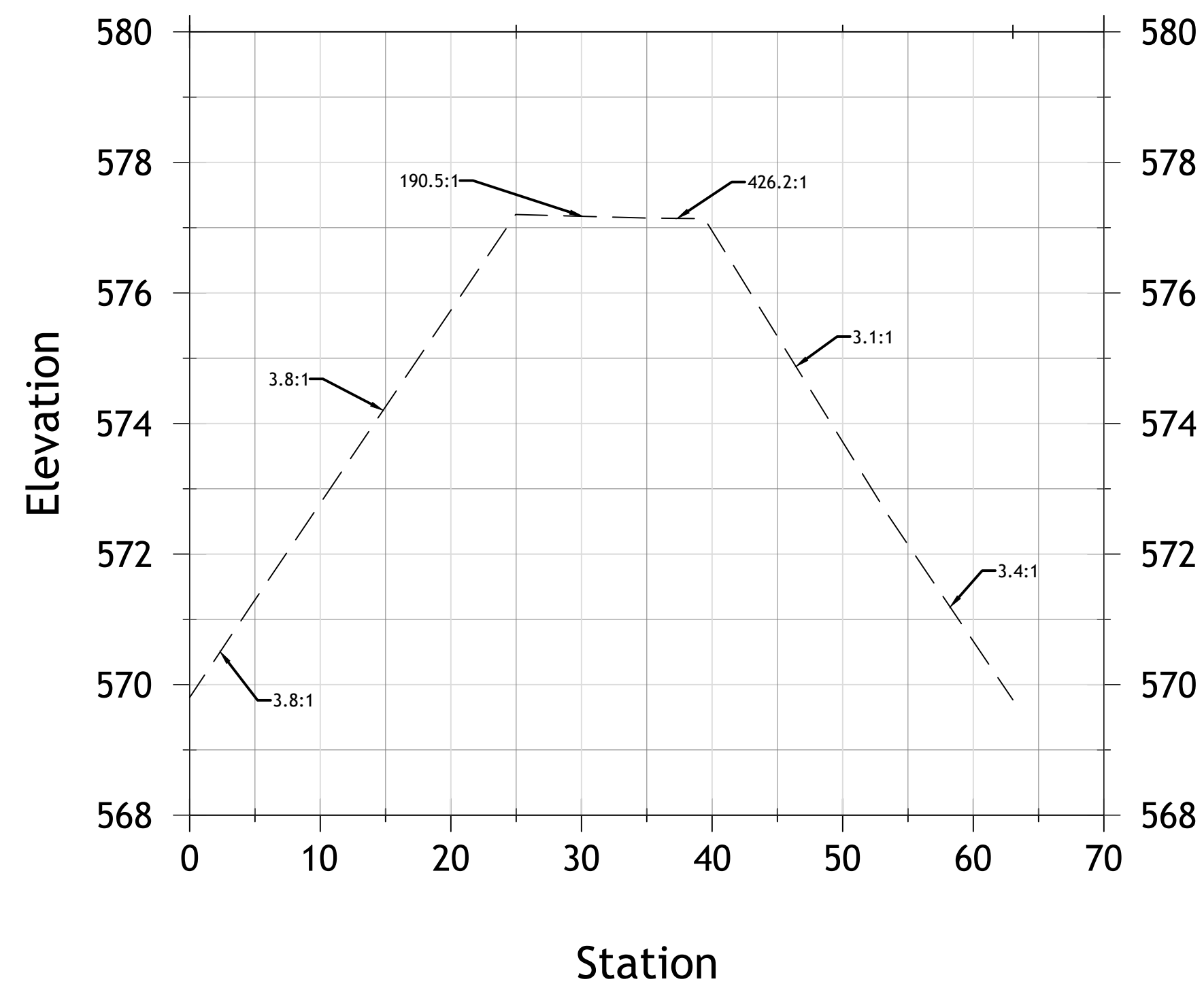


TITLE  
AS-BUILTS  
CELERON ISLAND HABITAT RESTORATION  
NORTH ISLAND SHOAL CORE  
THE DETROIT RIVER  
WAYNE COUNTY, MICHIGAN

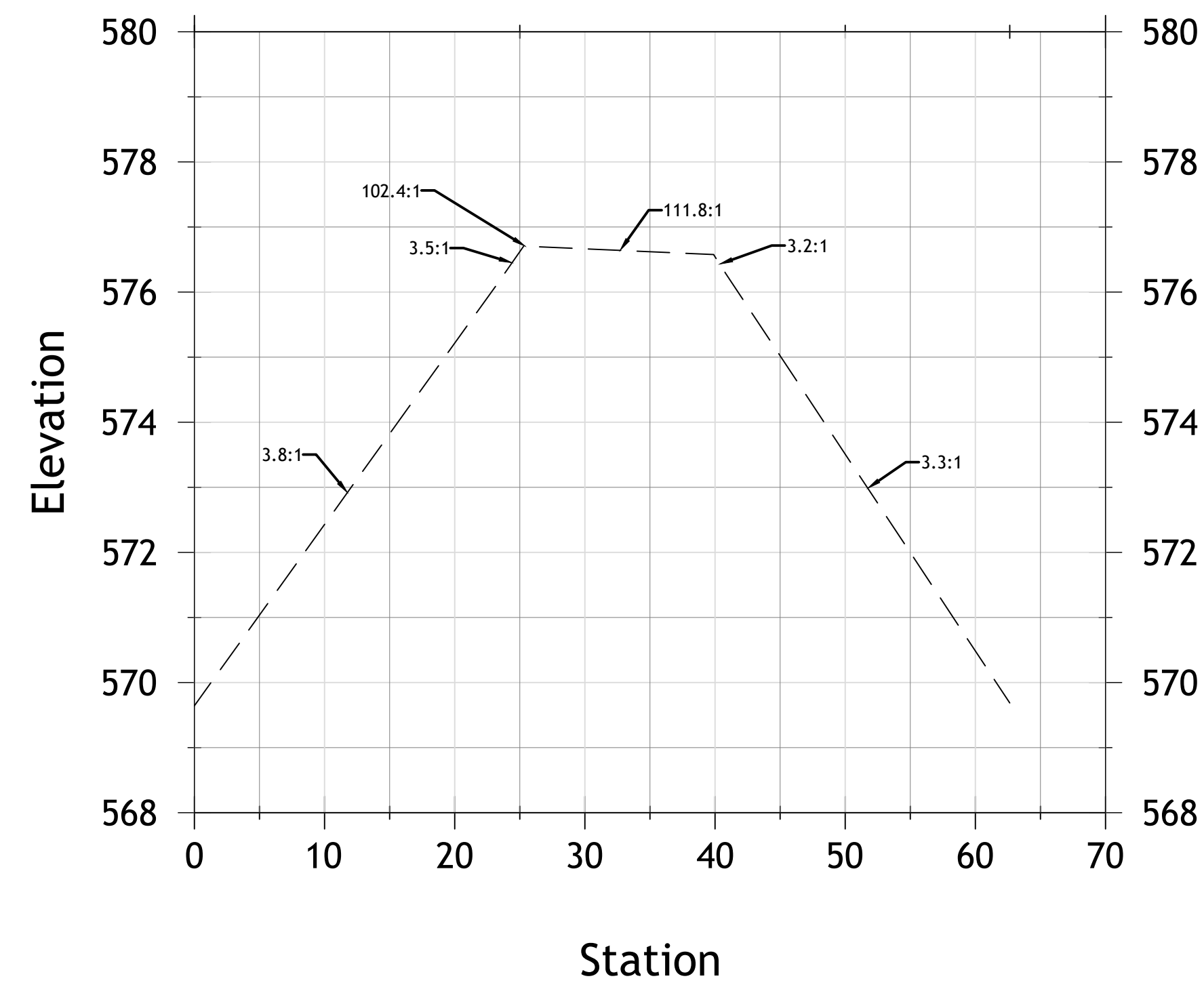
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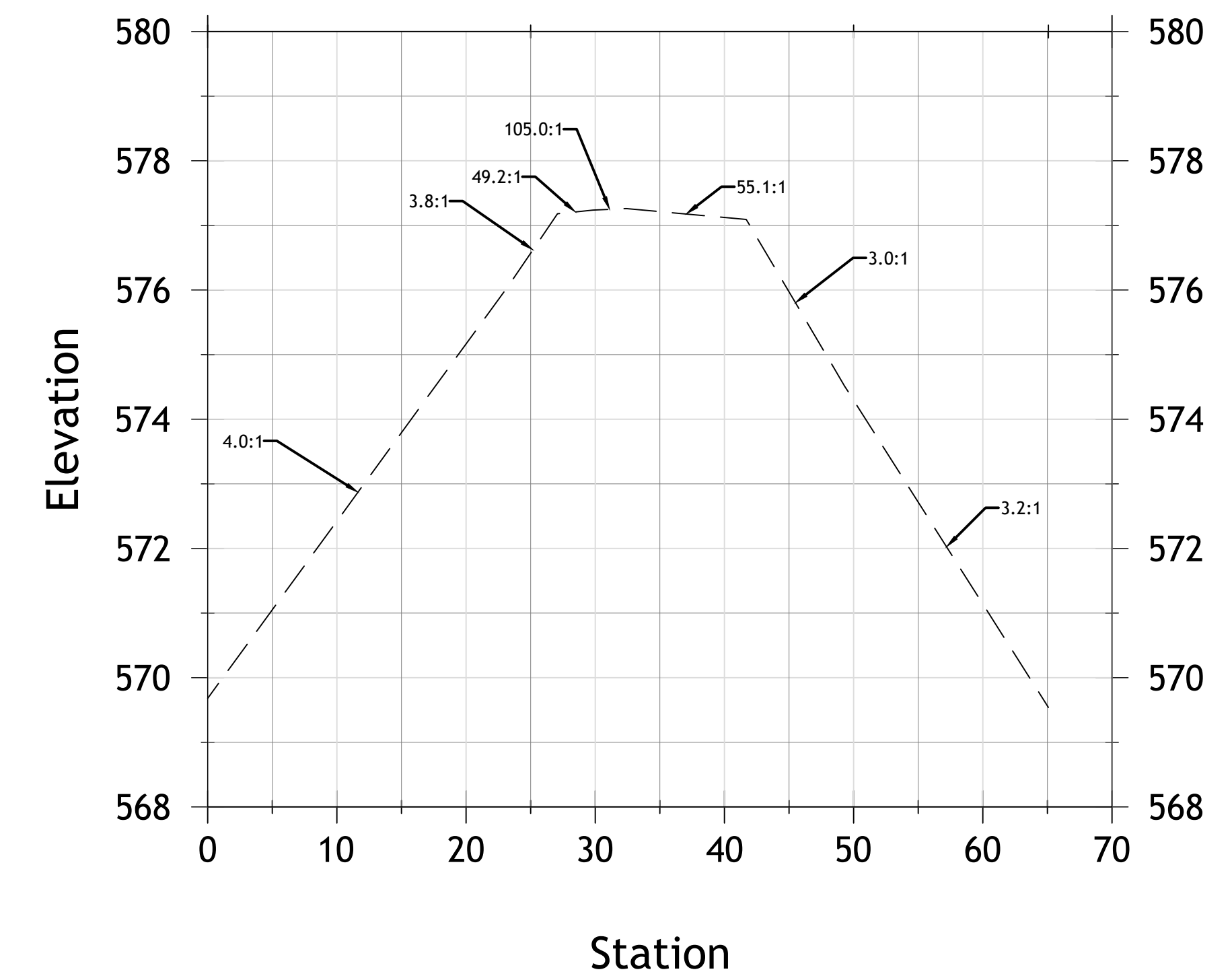
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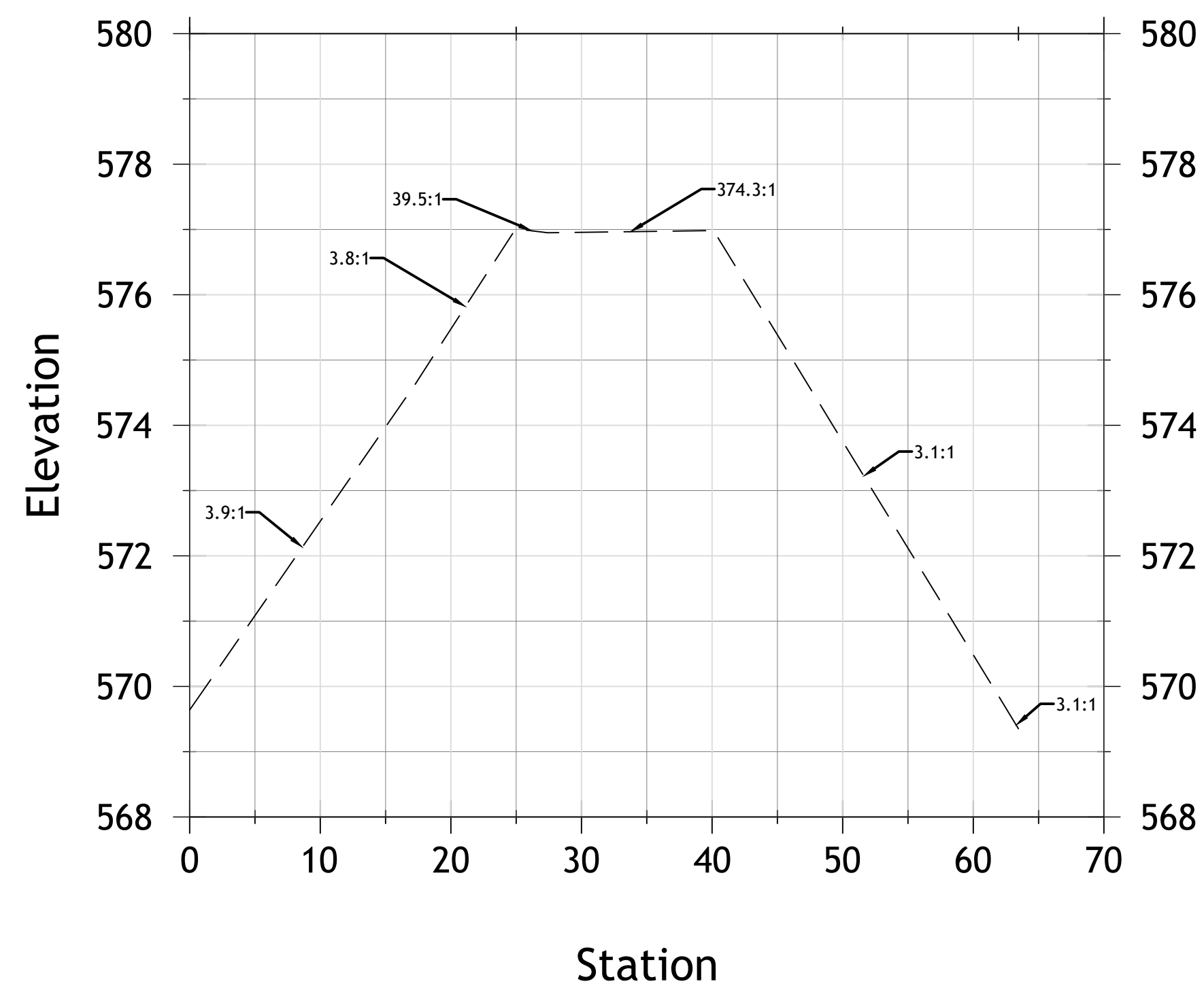
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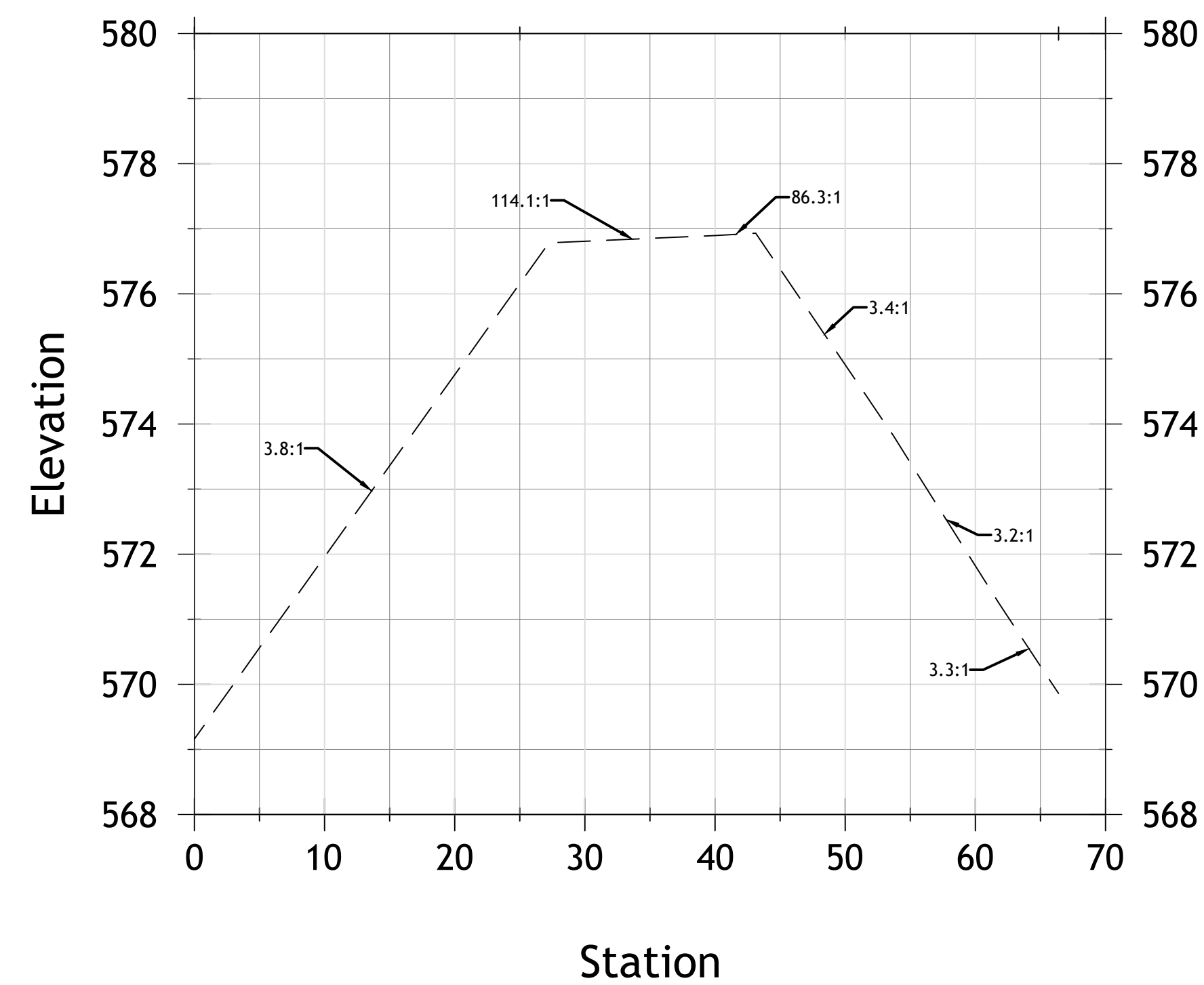
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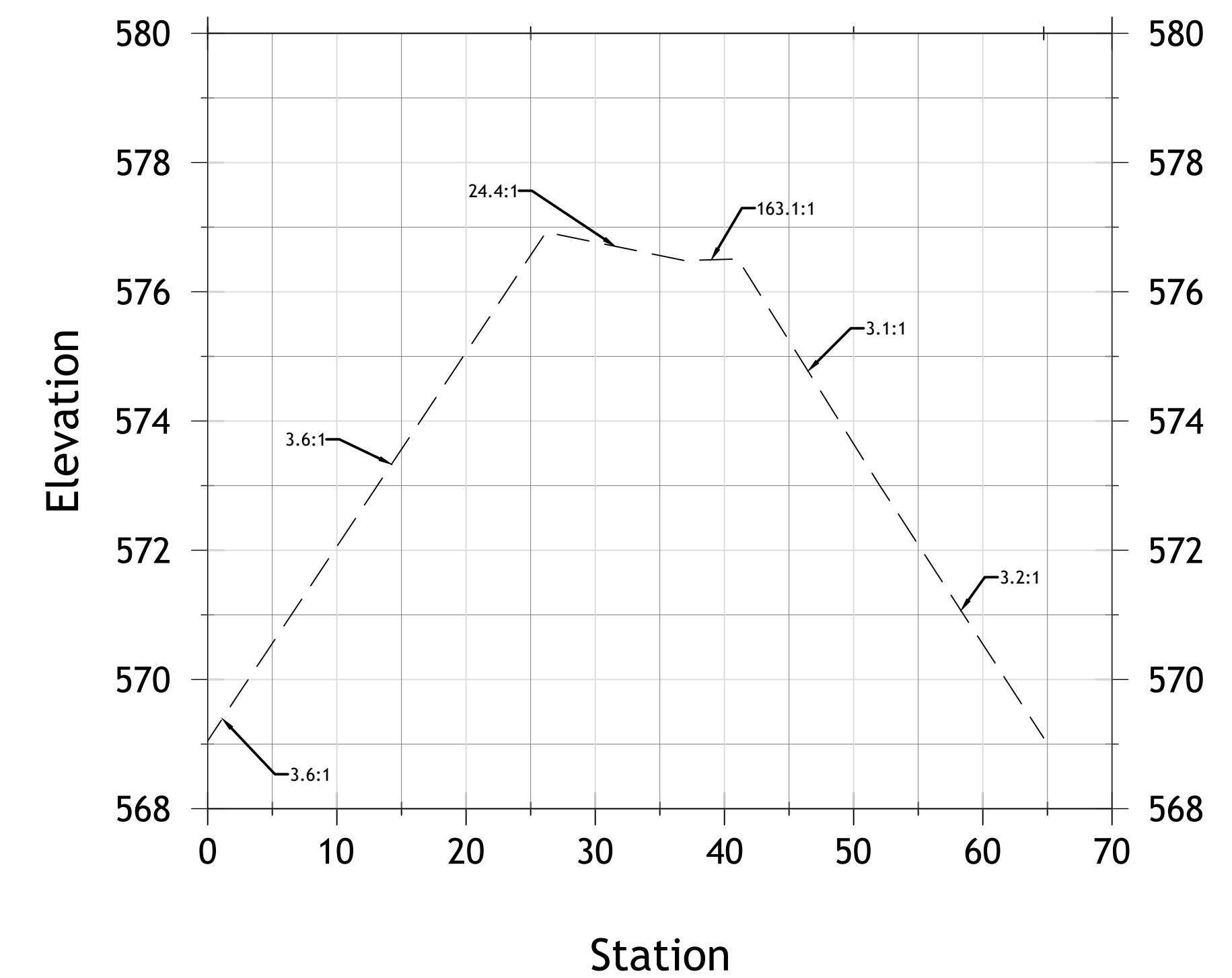
NORTH ISLAND SHOAL 6+00



NORTH ISLAND SHOAL 7+00

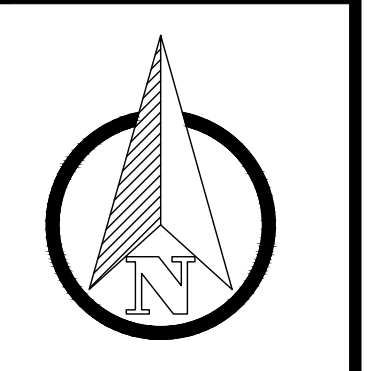


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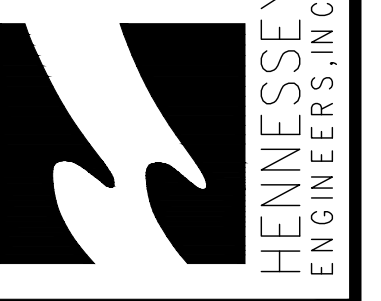


PROJECT NUMBER:  
52318  
DATE:  
06/27/19  
SCALE:  
1"=10'  
DESIGNED BY:  
DRAWN BY:  
JAB  
CHECKED BY:  
APPROVED BY:

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SOUTHGATE, MI 48195  
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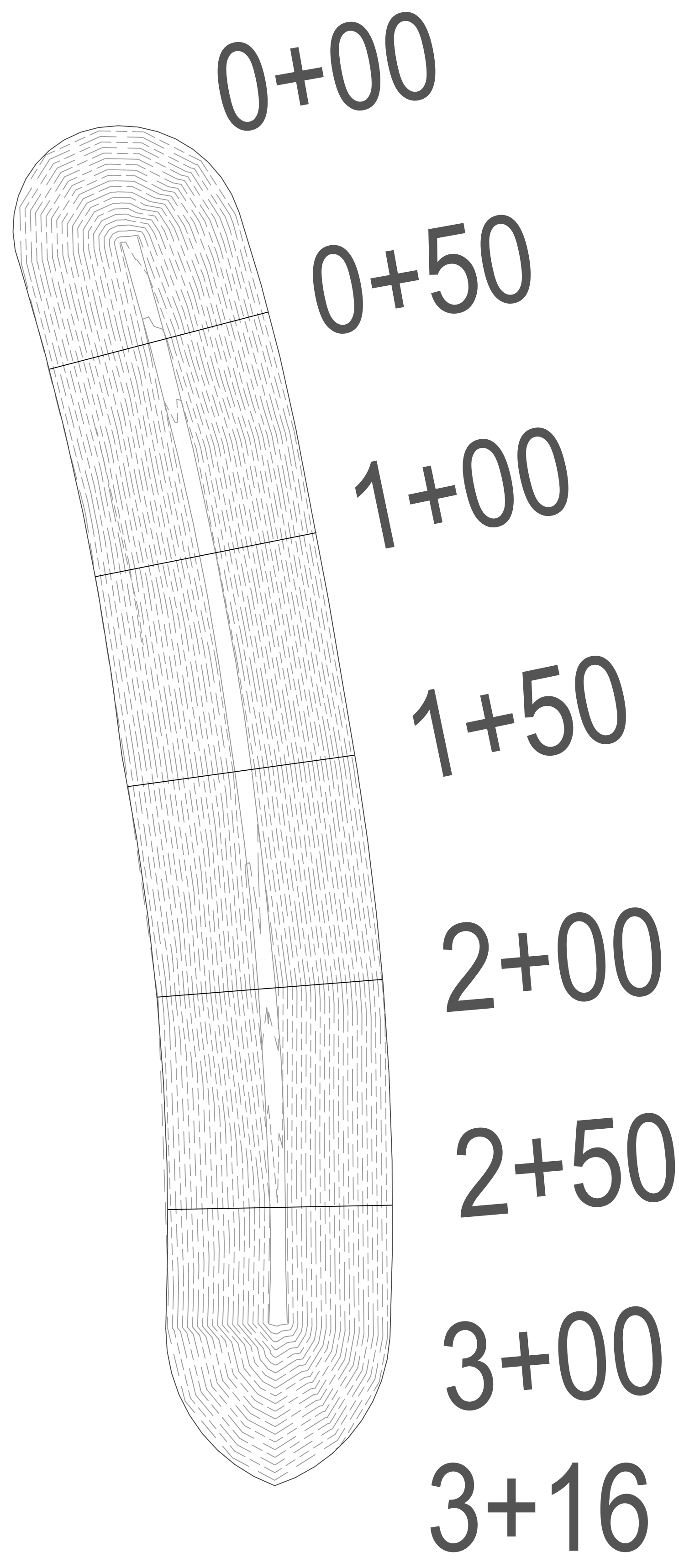


TITLE  
AS-BUILTS  
CELERON ISLAND HABITAT RESTORATION  
NORTH ISLAND SHOAL CORE  
THE DETROIT RIVER  
WAYNE COUNTY, MICHIGAN

SHEET  
CE13







PROJECT NUMBER:  
52318

DATE:  
10/31/19

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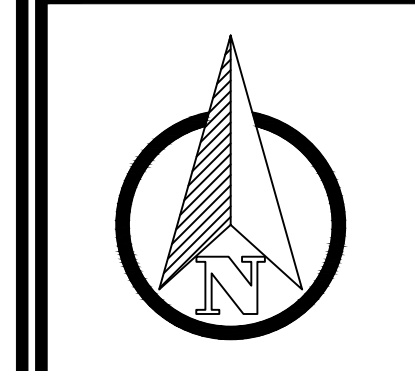
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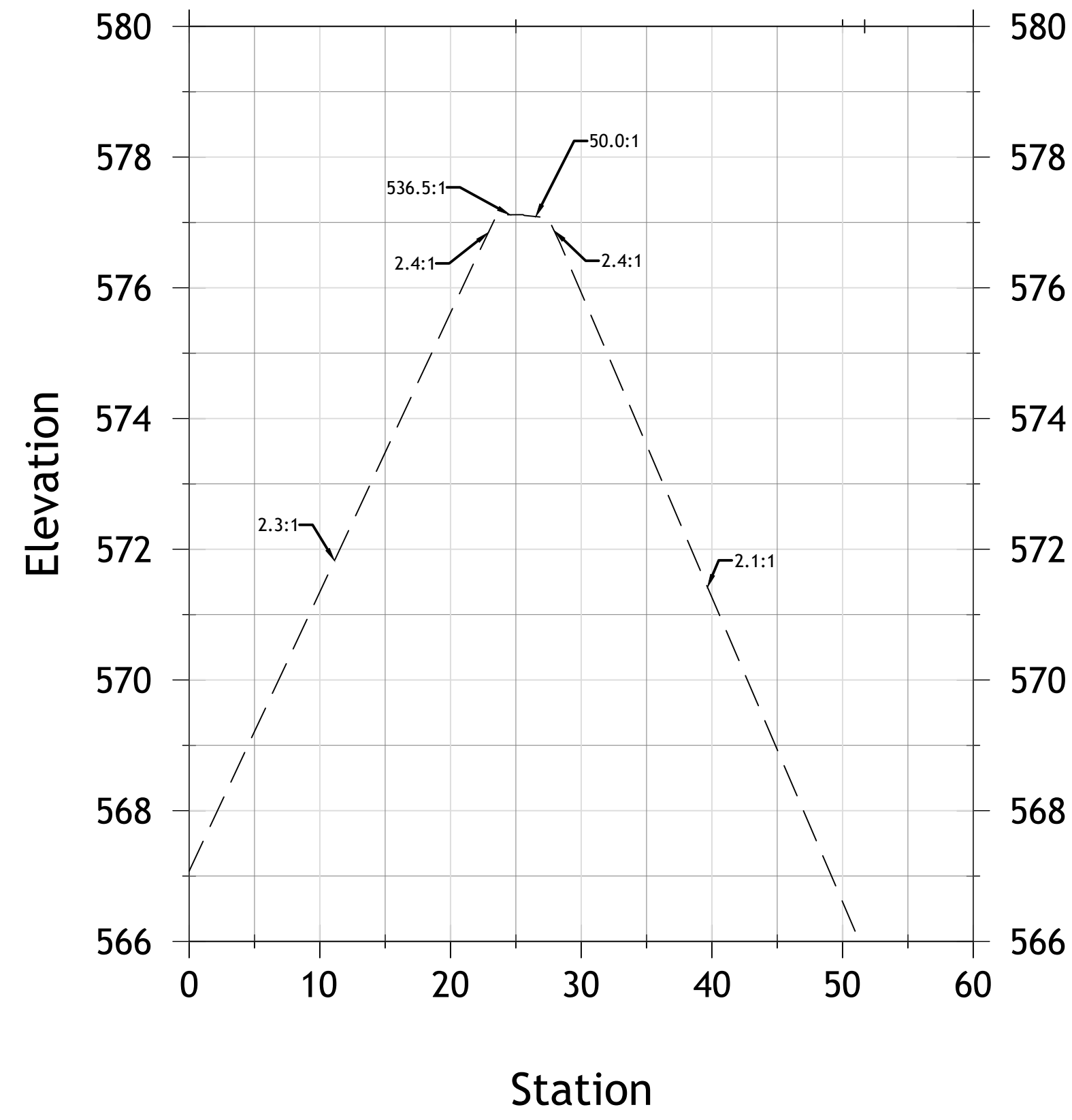
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TITLE

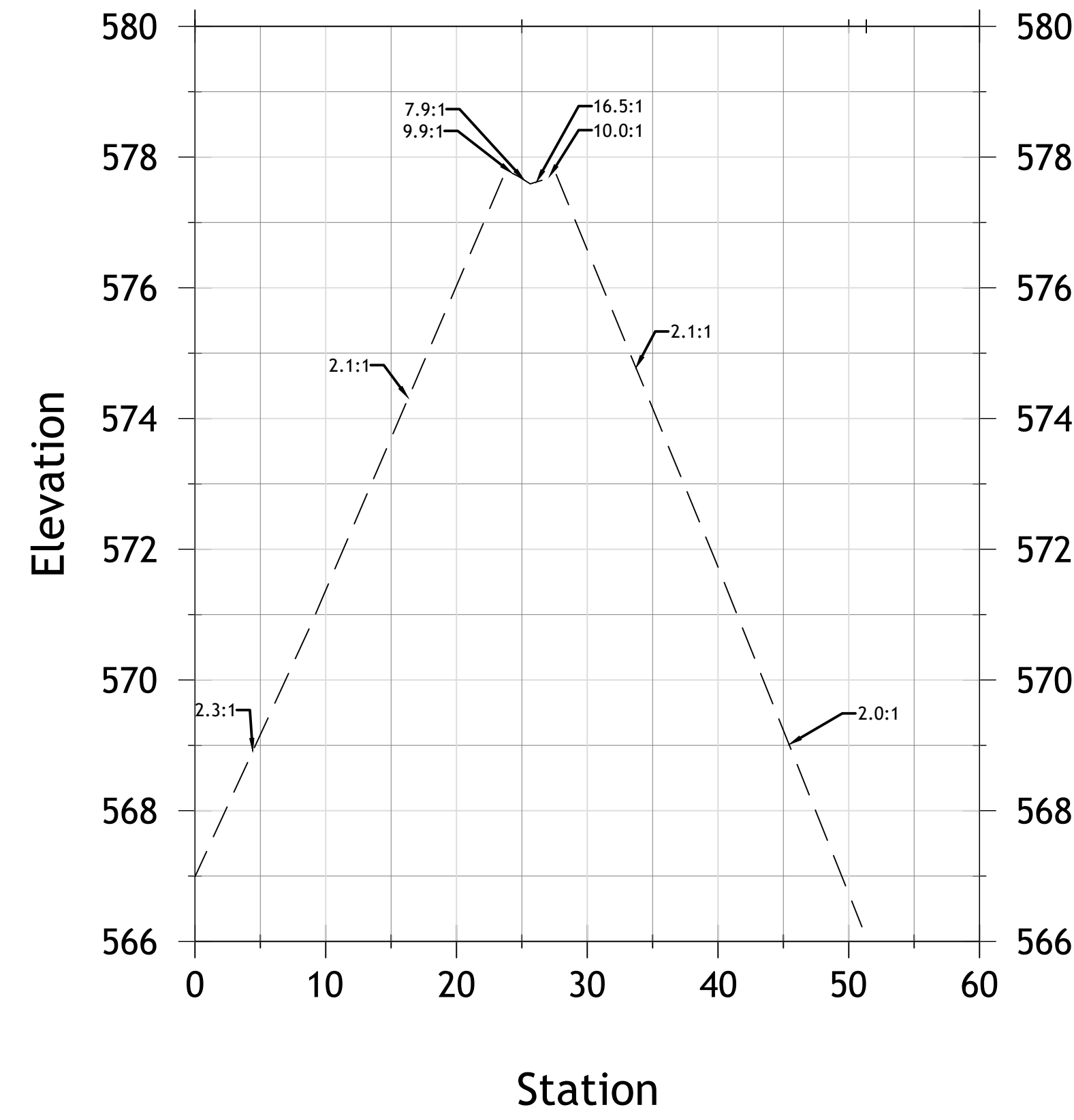
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CELERON ISLAND HABITAT RESTORATION  
SHOAL ARMOR STONE  
THE DETROIT RIVER  
WAYNE COUNTY, MICHIGAN

SHEET  
CE15A

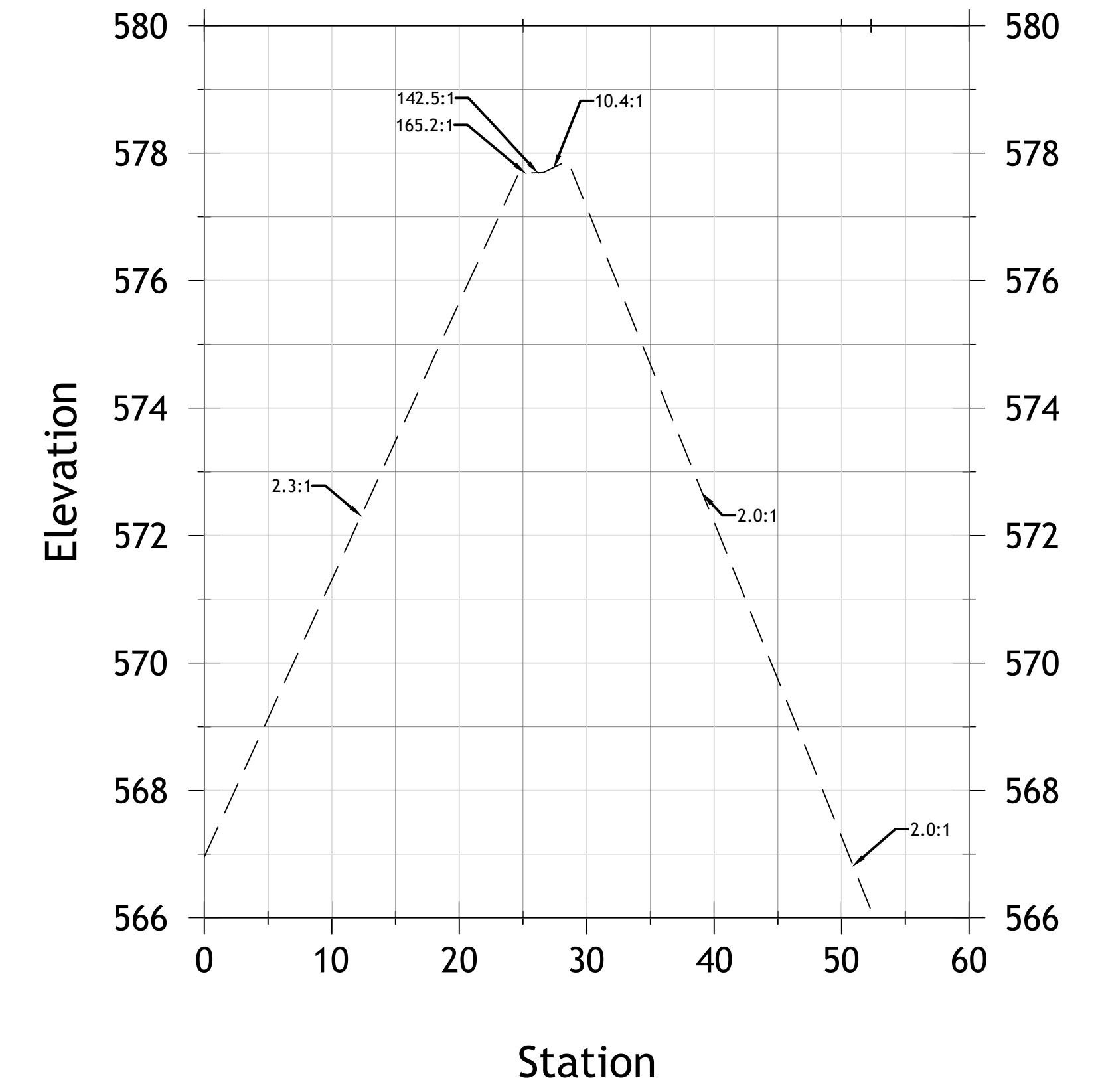
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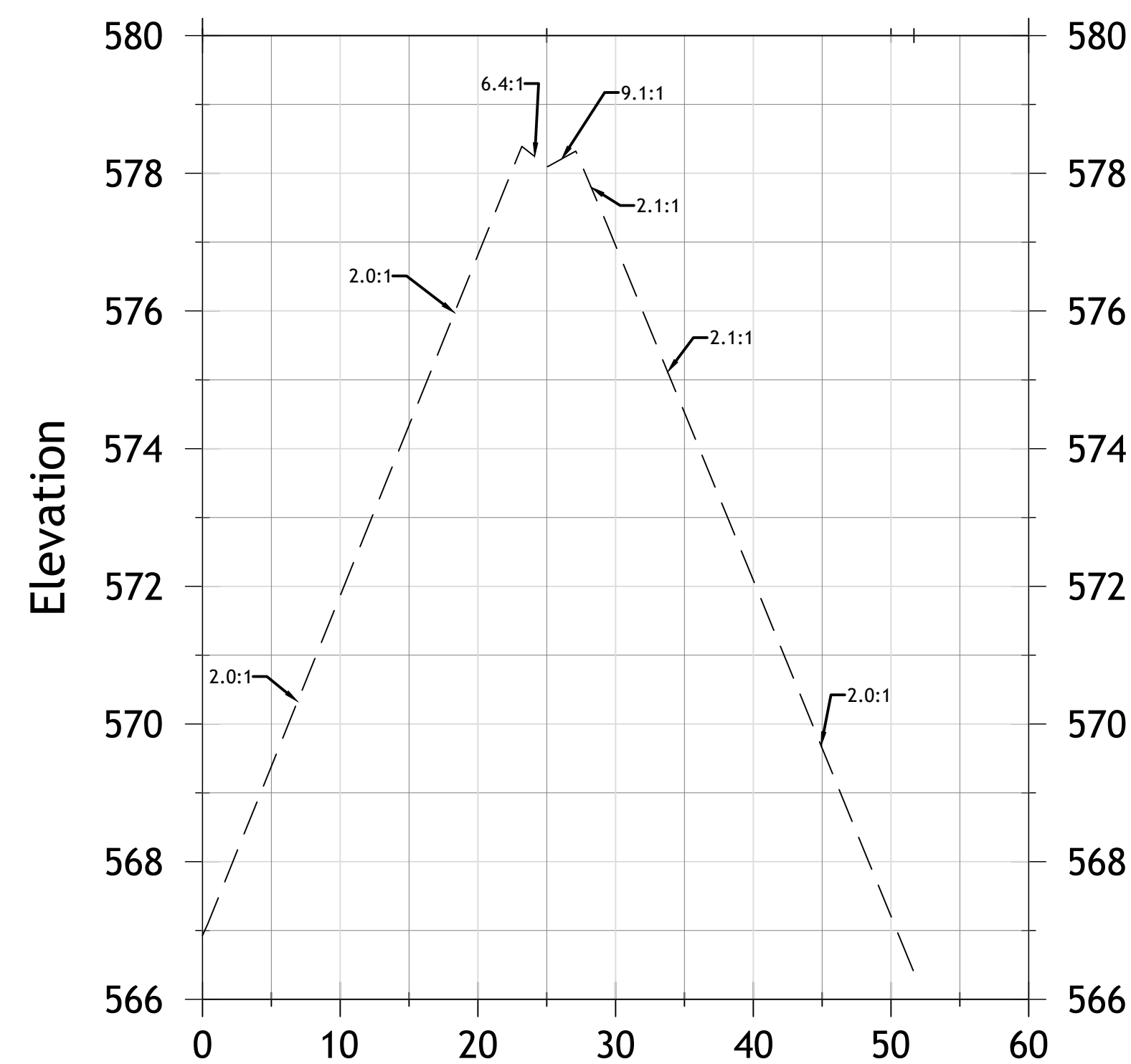
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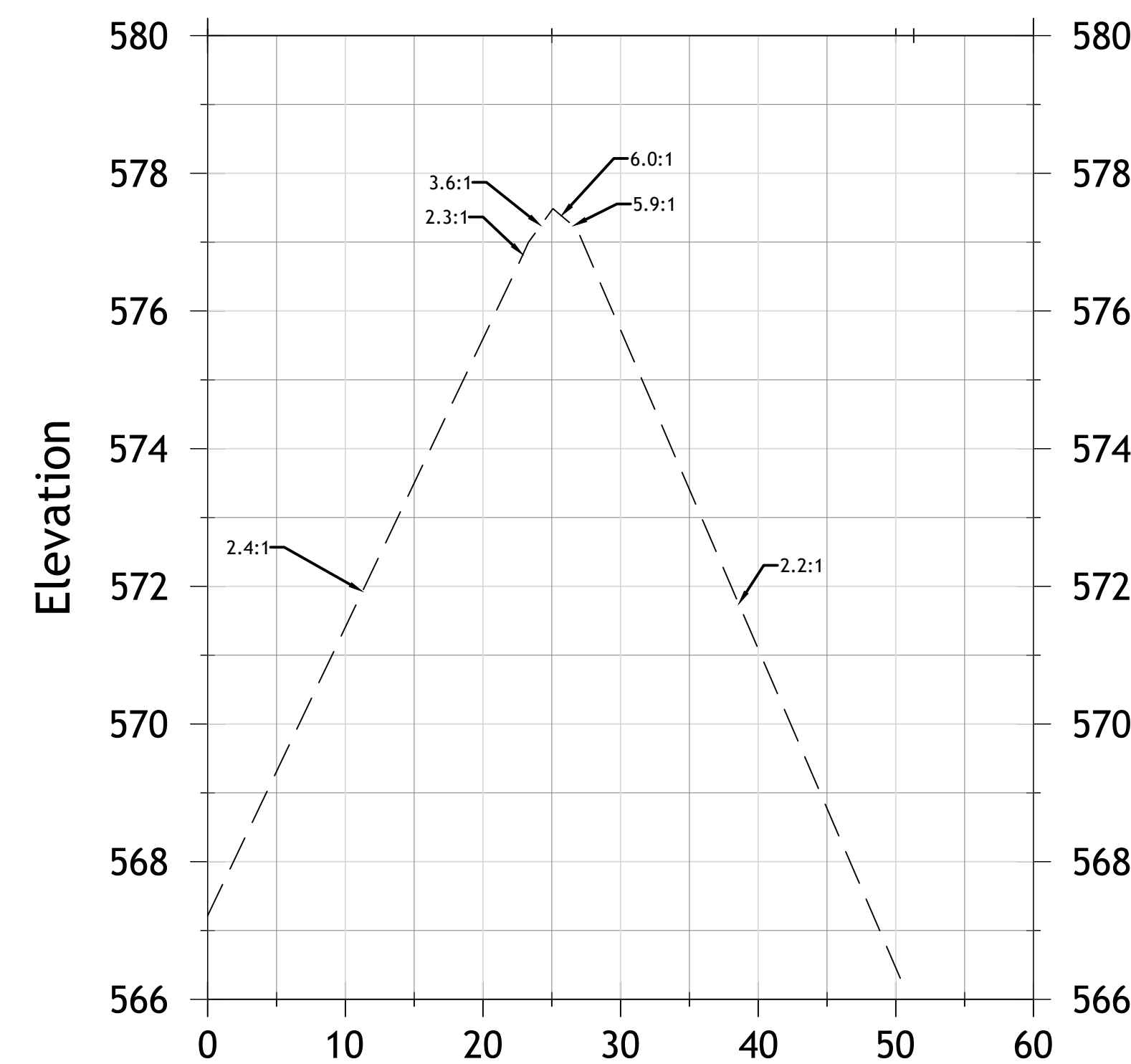
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ARMOR SHOAL A 2+00



ARMOR SHOAL A 2+50



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DATE:  
10/17/19

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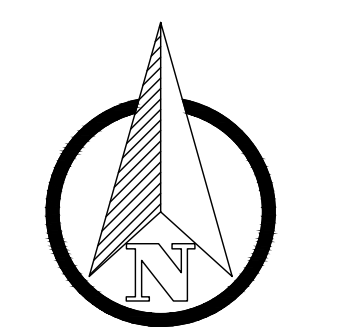
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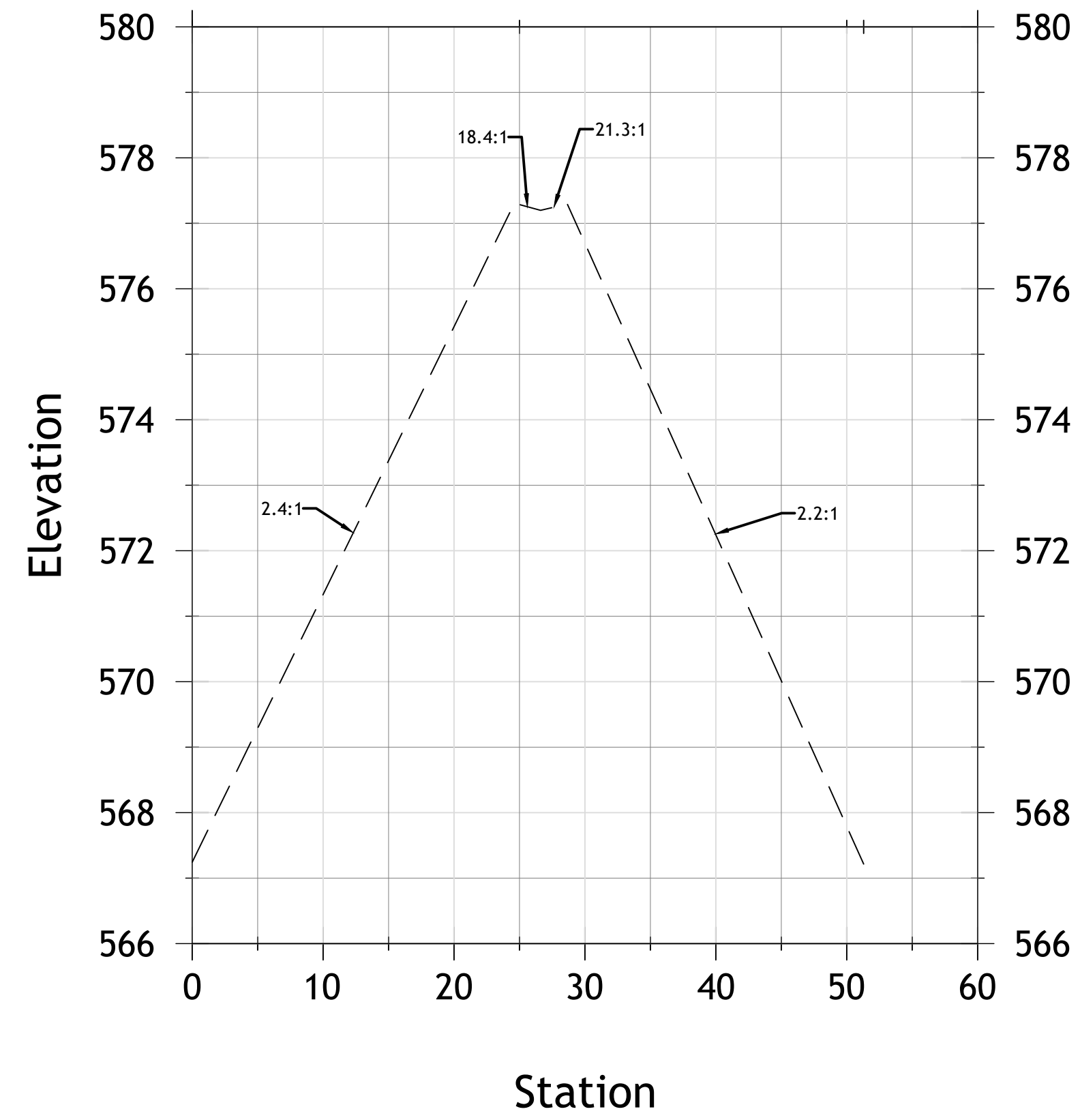
TITLE  
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CELERON ISLAND HABITAT RESTORATION  
SHOAL A ARMOR STONE  
THE DETROIT RIVER  
WAYNE COUNTY, MICHIGAN

SHEET  
CE15

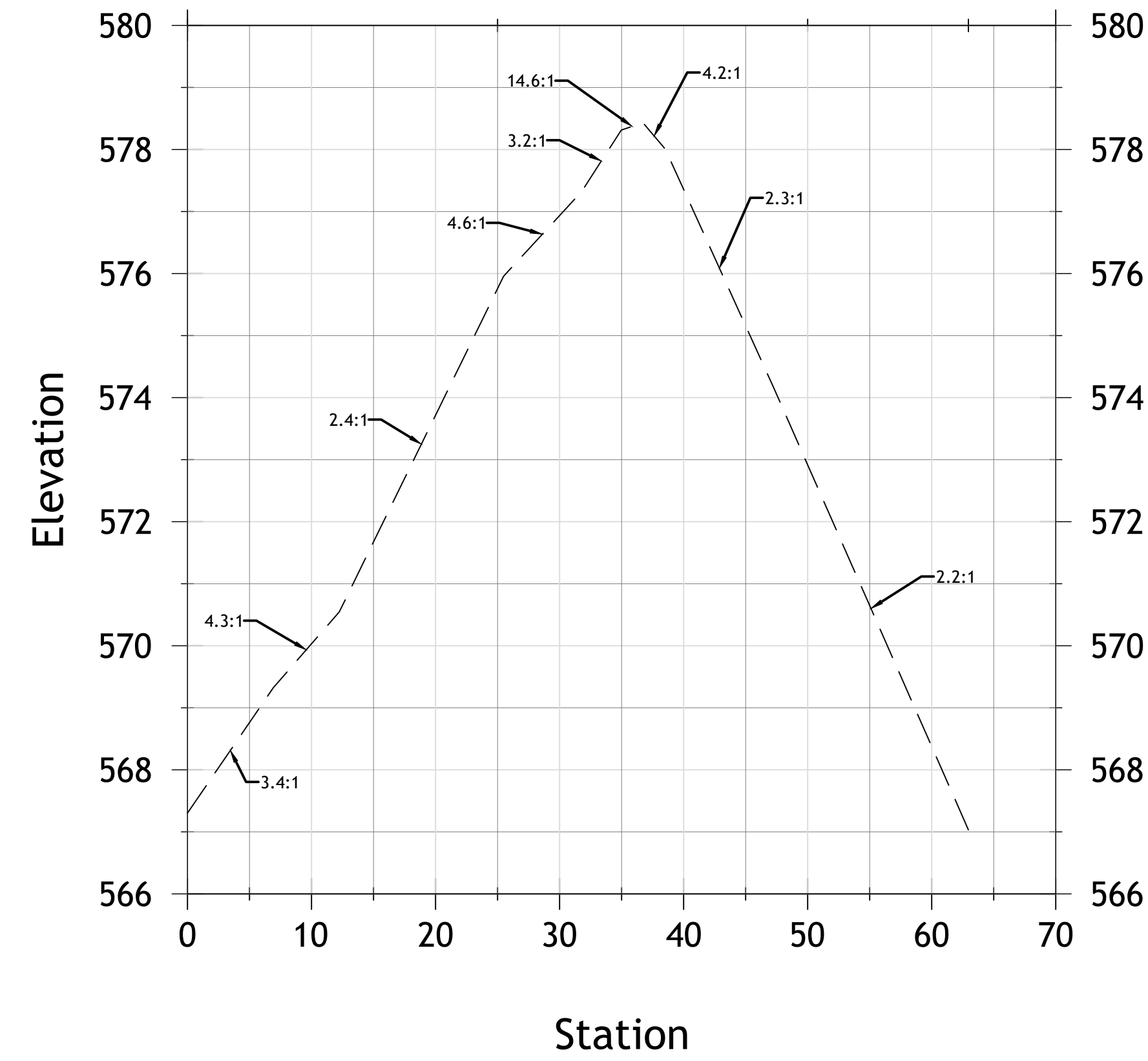




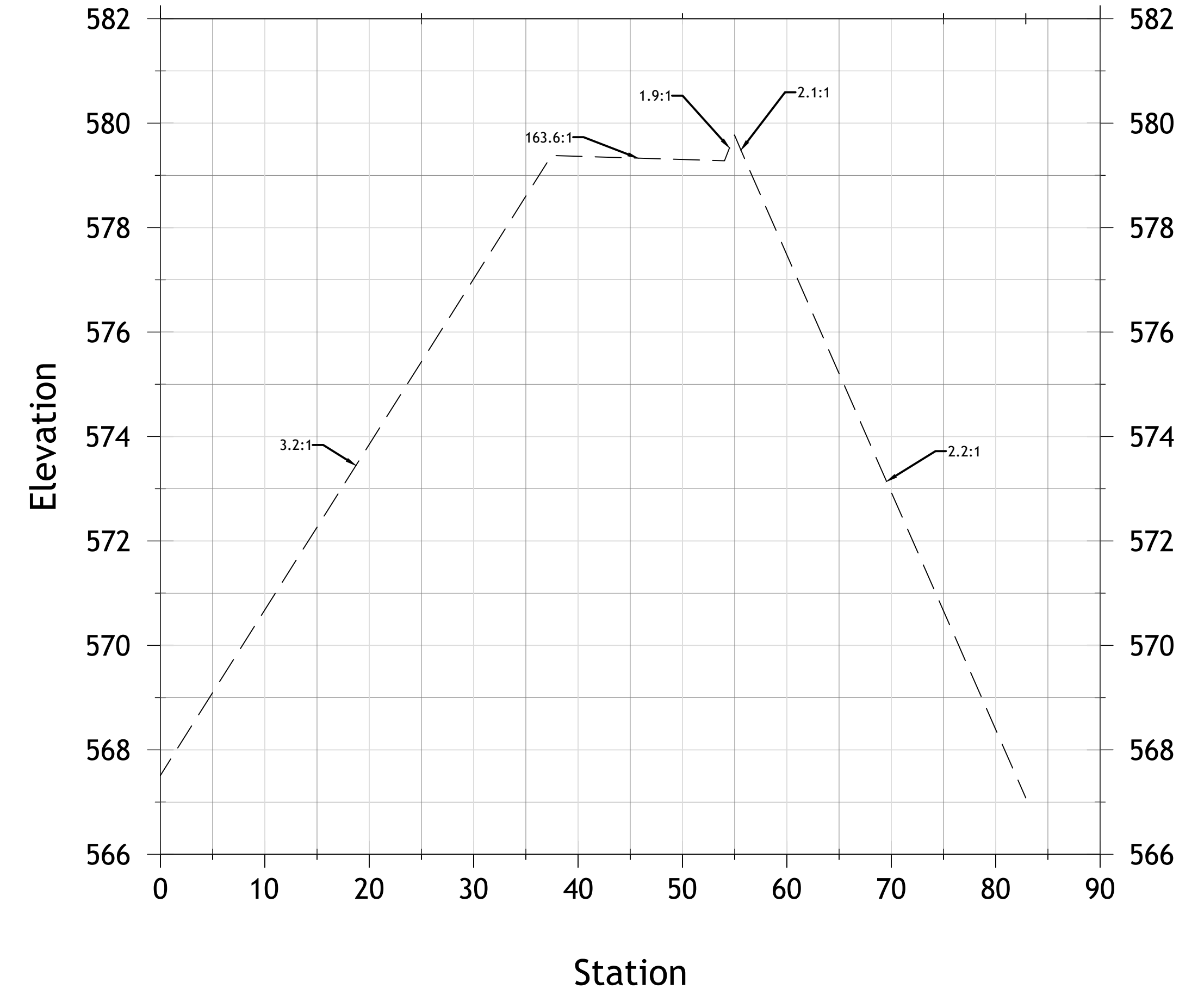
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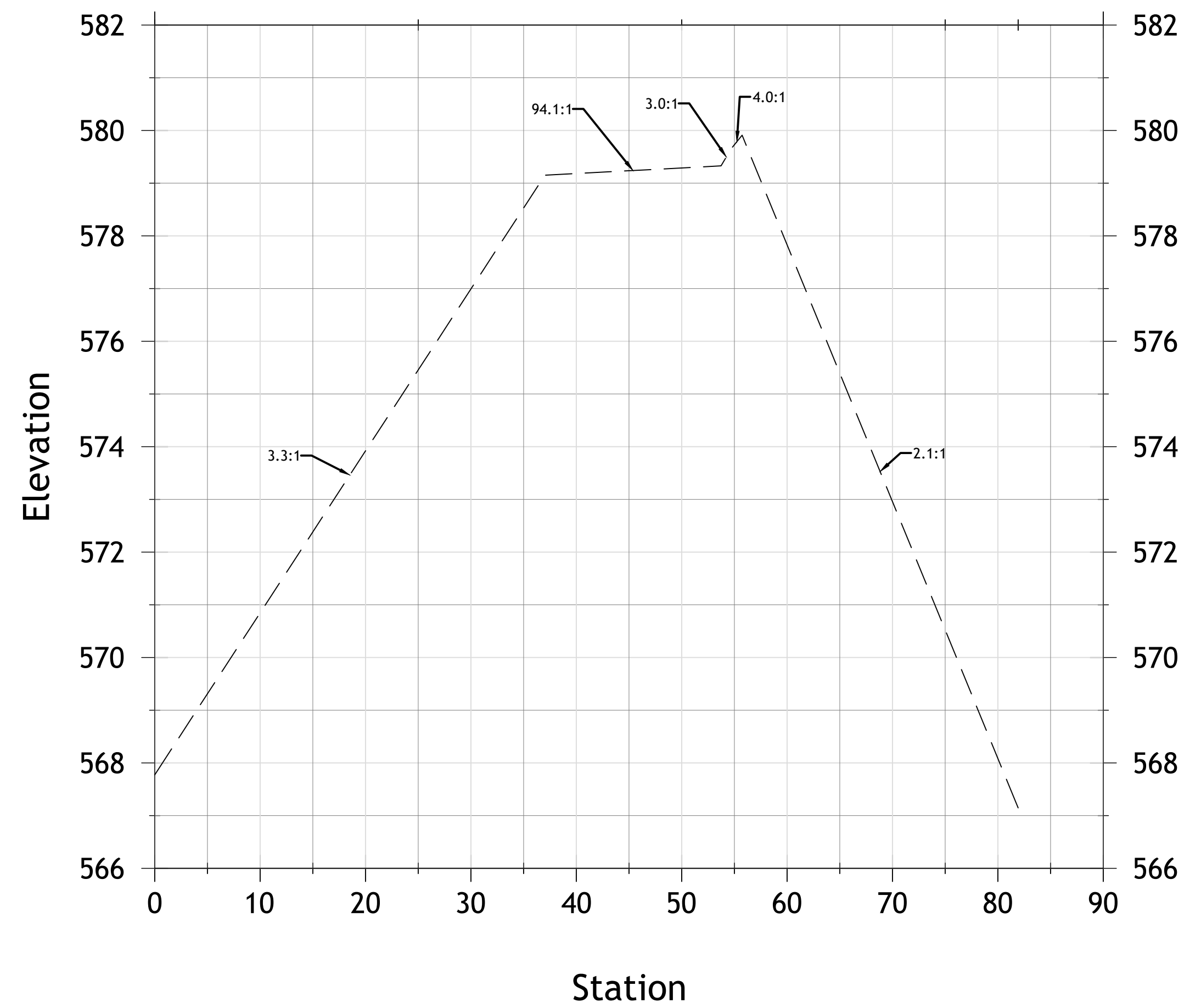
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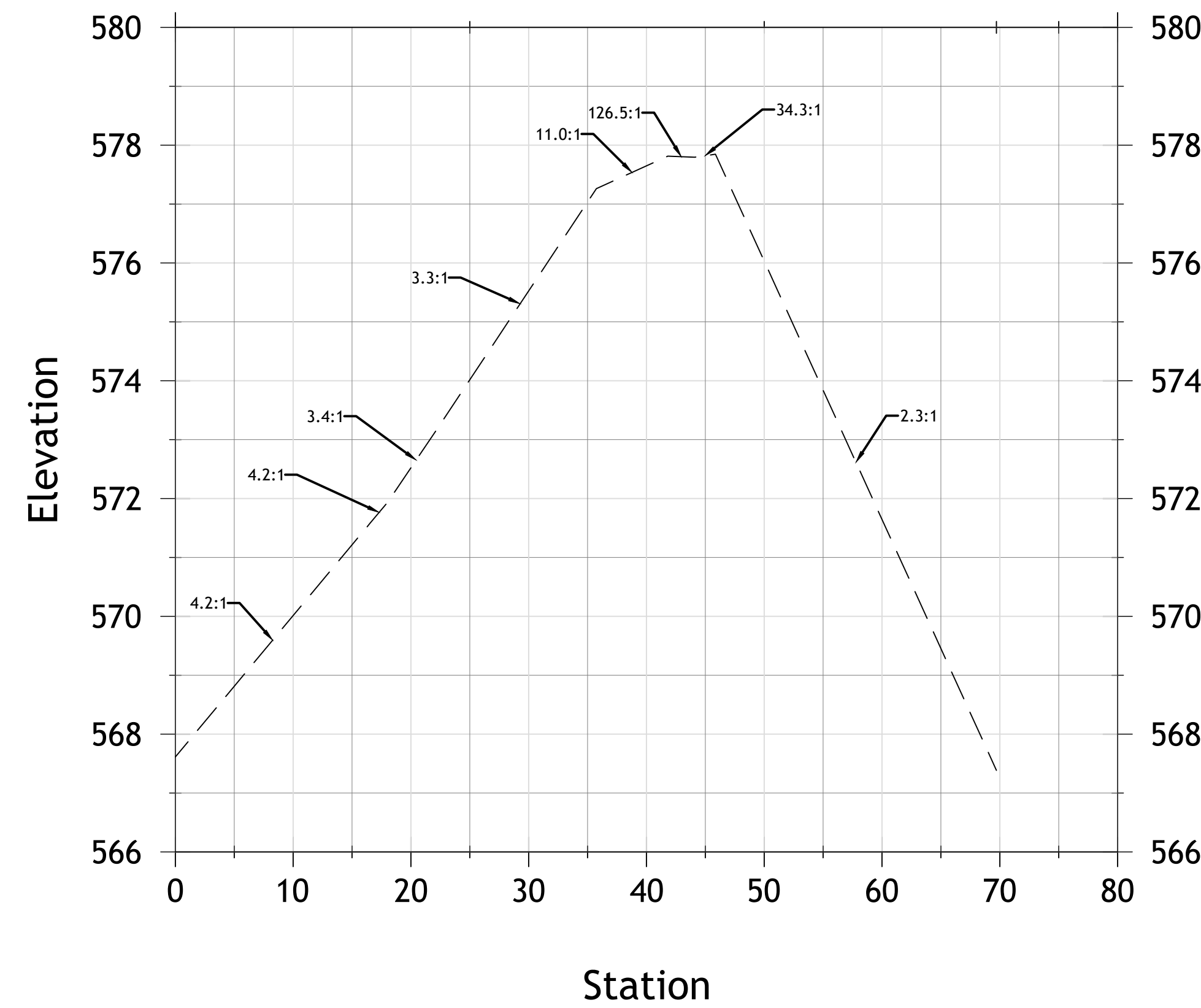
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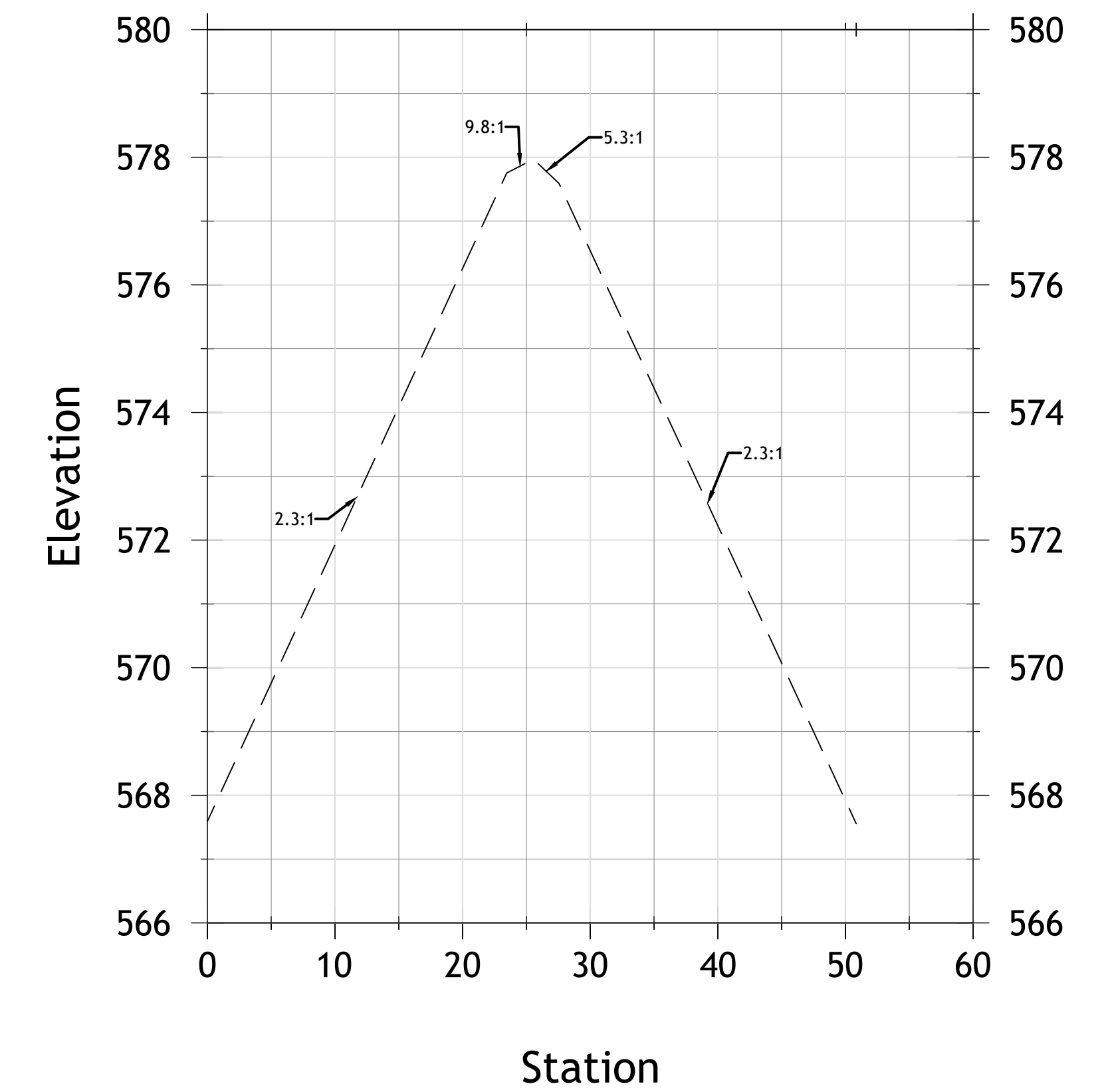
ARMOR SHOAL B 2+00



ARMOR SHOAL B 2+50



ARMOR SHOAL B 3+00



PROJECT NUMBER:  
52318

DATE:  
10/21/19

SCALE:  
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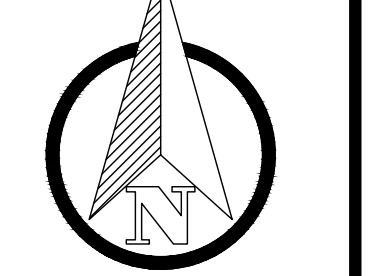
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TITLE  
AS-BUILTS  
CELERON ISLAND HABITAT RESTORATION  
SHOAL B ARMOR STONE  
THE DETROIT RIVER  
WAYNE COUNTY, MICHIGAN

SHEET  
CE16

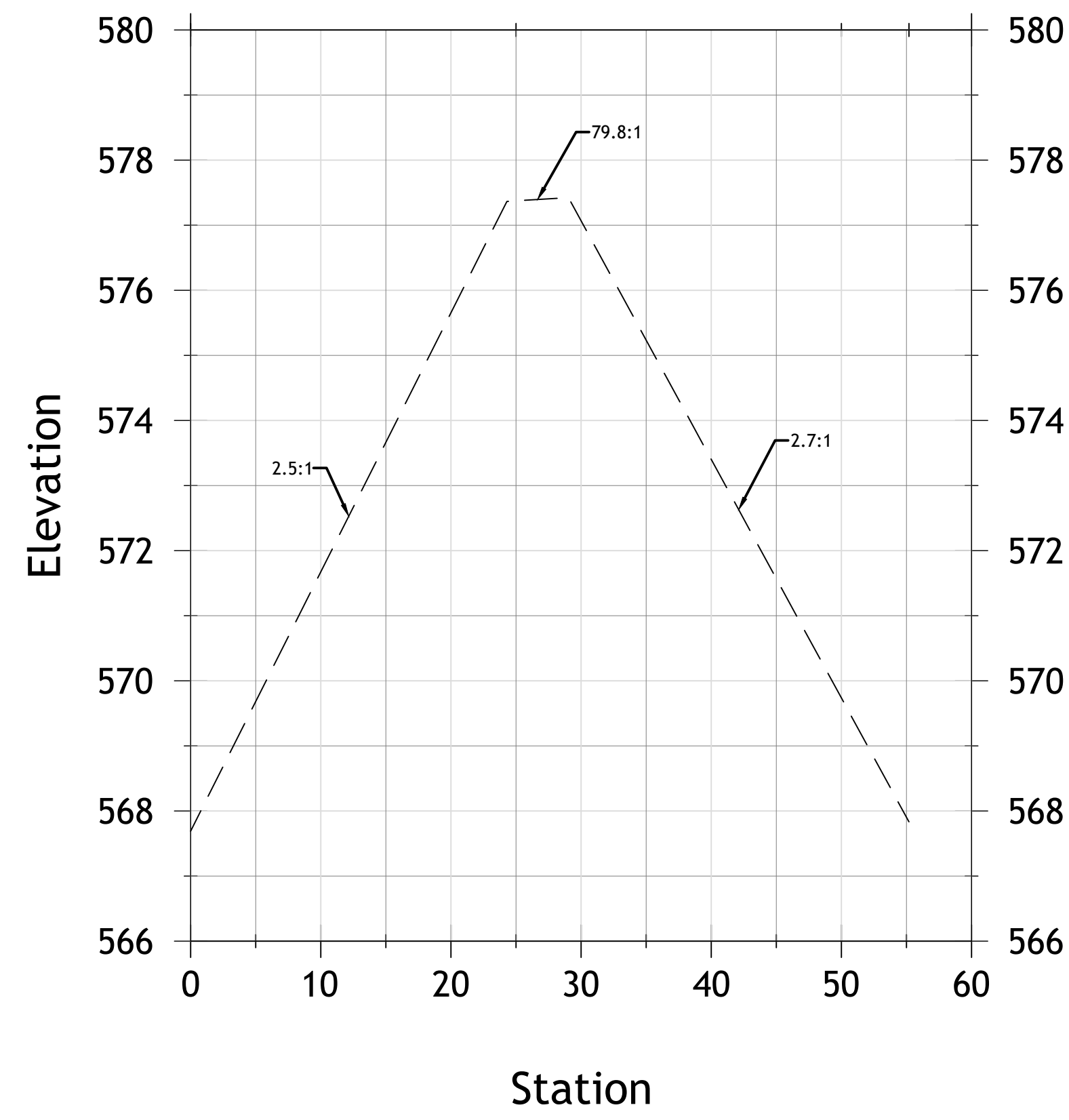




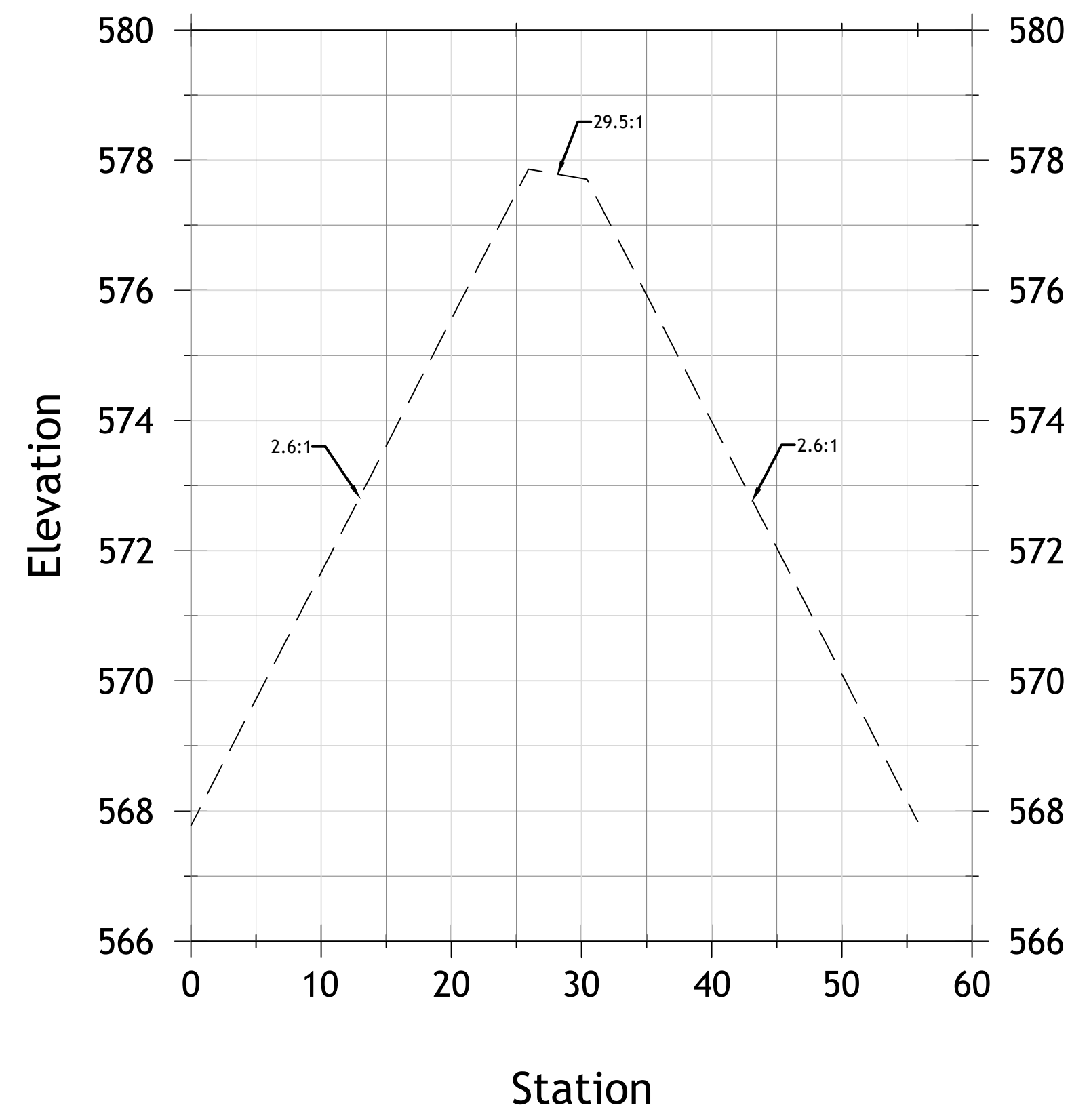




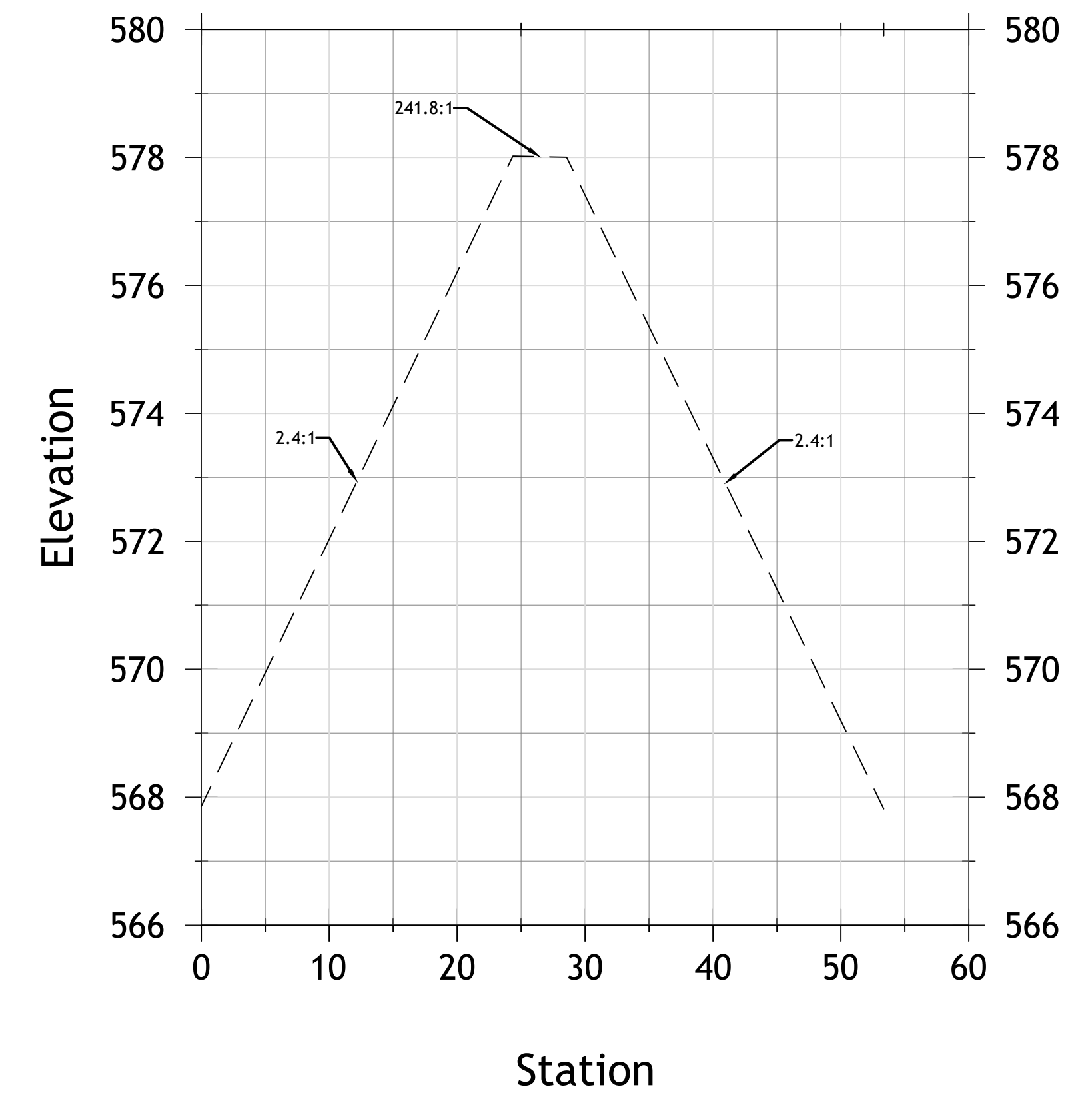
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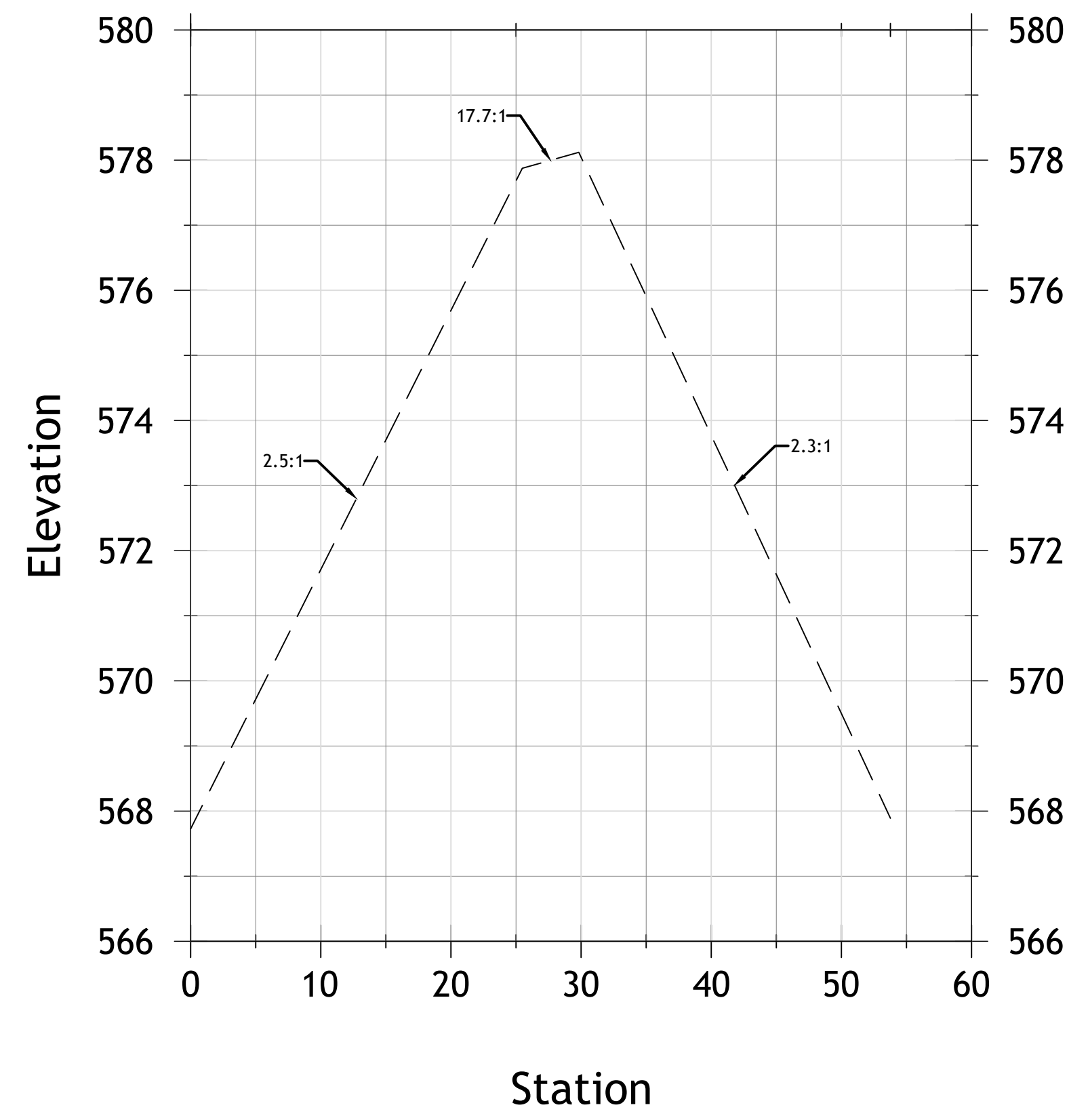
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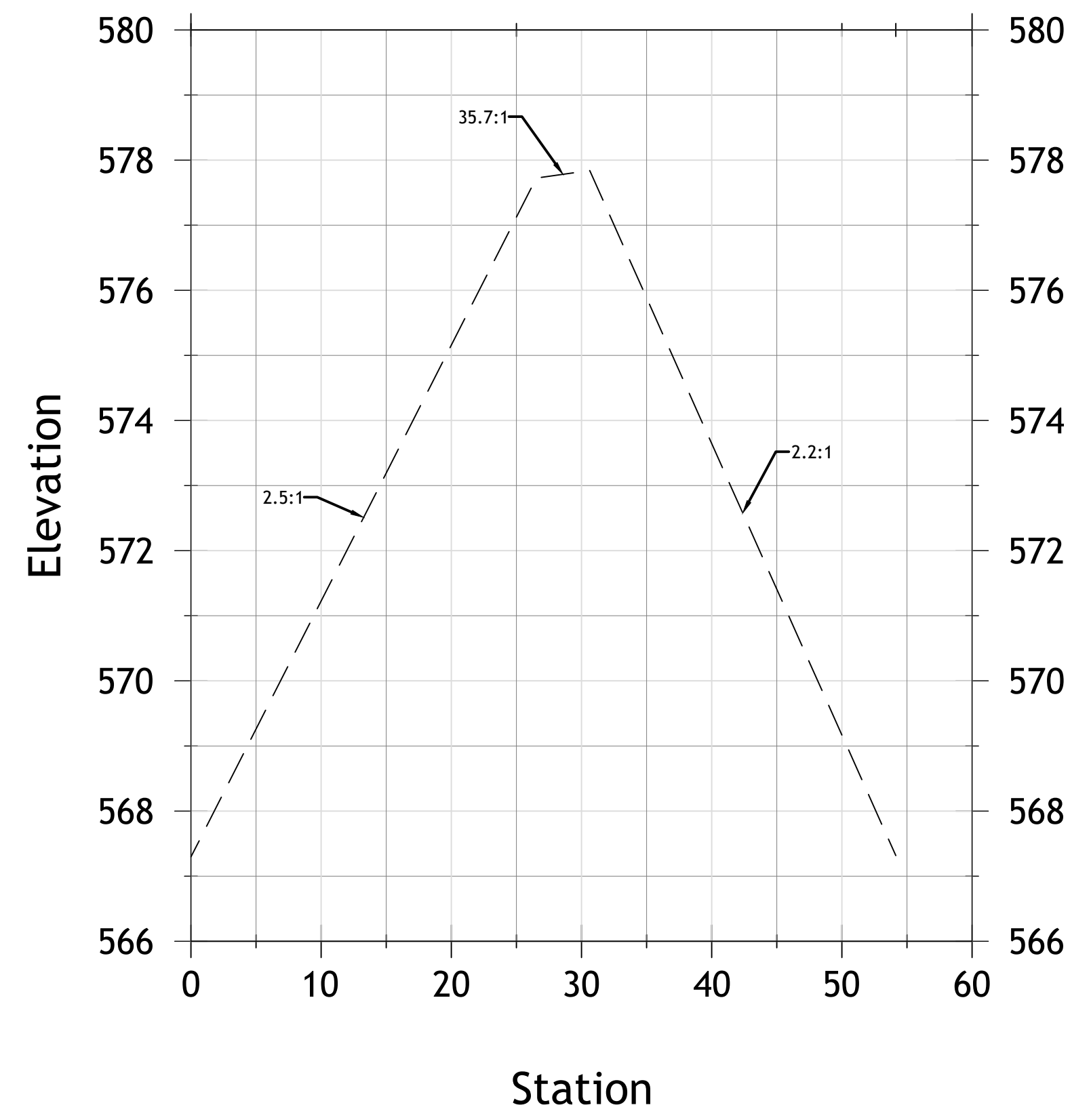
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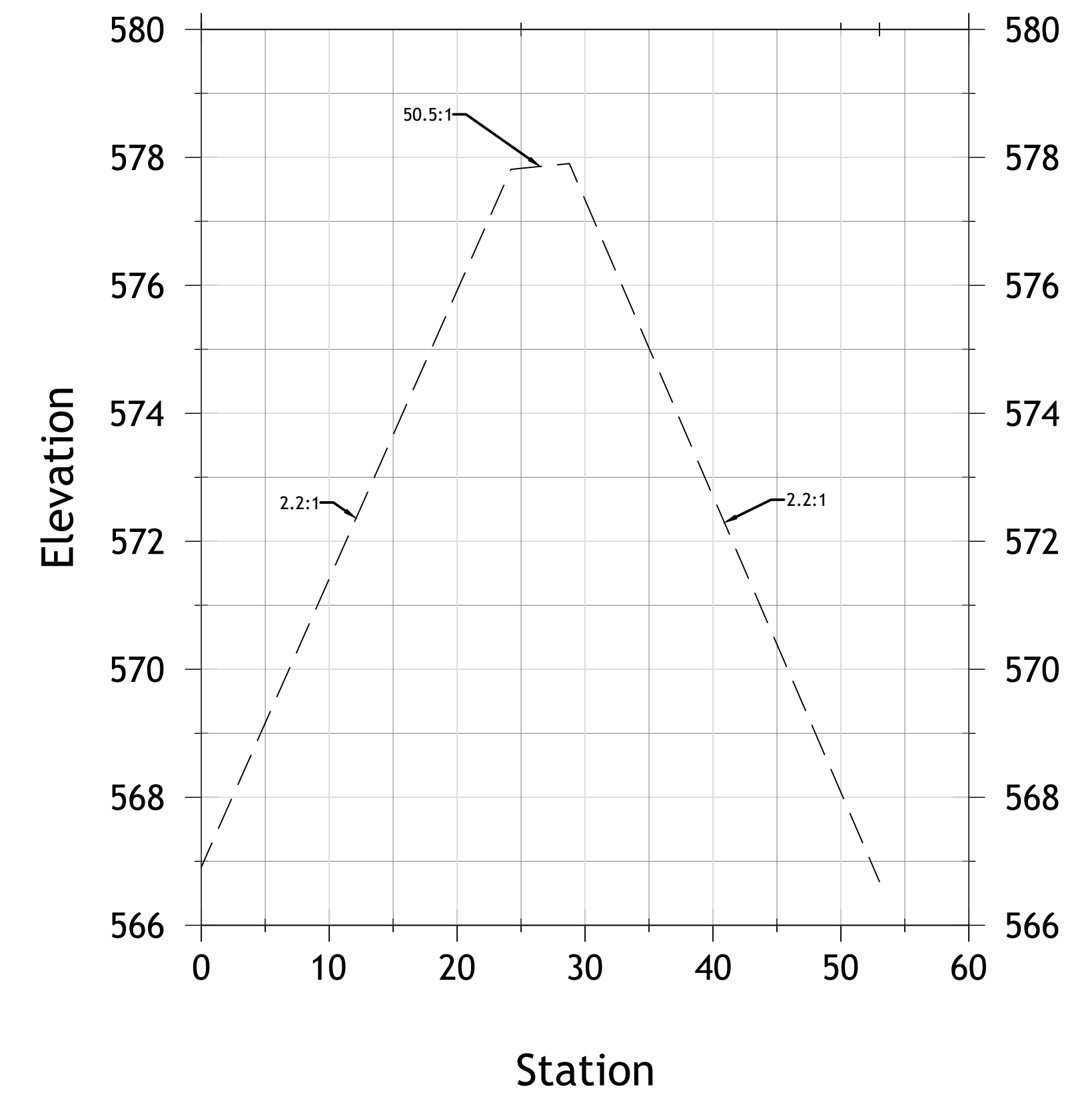
ARMOR SHOAL C 2+00



ARMOR SHOAL C 2+50



ARMOR SHOAL C 3+00



PROJECT NUMBER:  
52318

DATE:  
10/21/19

SCALE:  
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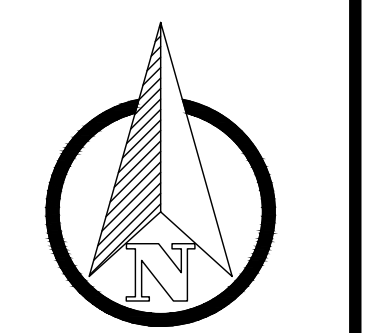
DESIGNED BY:

DRAWN BY:  
JAB

CHECKED BY:

APPROVED BY:

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TITLE  
**AS-BUILTS**  
CELERON ISLAND HABITAT RESTORATION  
SHOAL C ARMOR STONE  
THE DETROIT RIVER  
WAYNE COUNTY, MICHIGAN

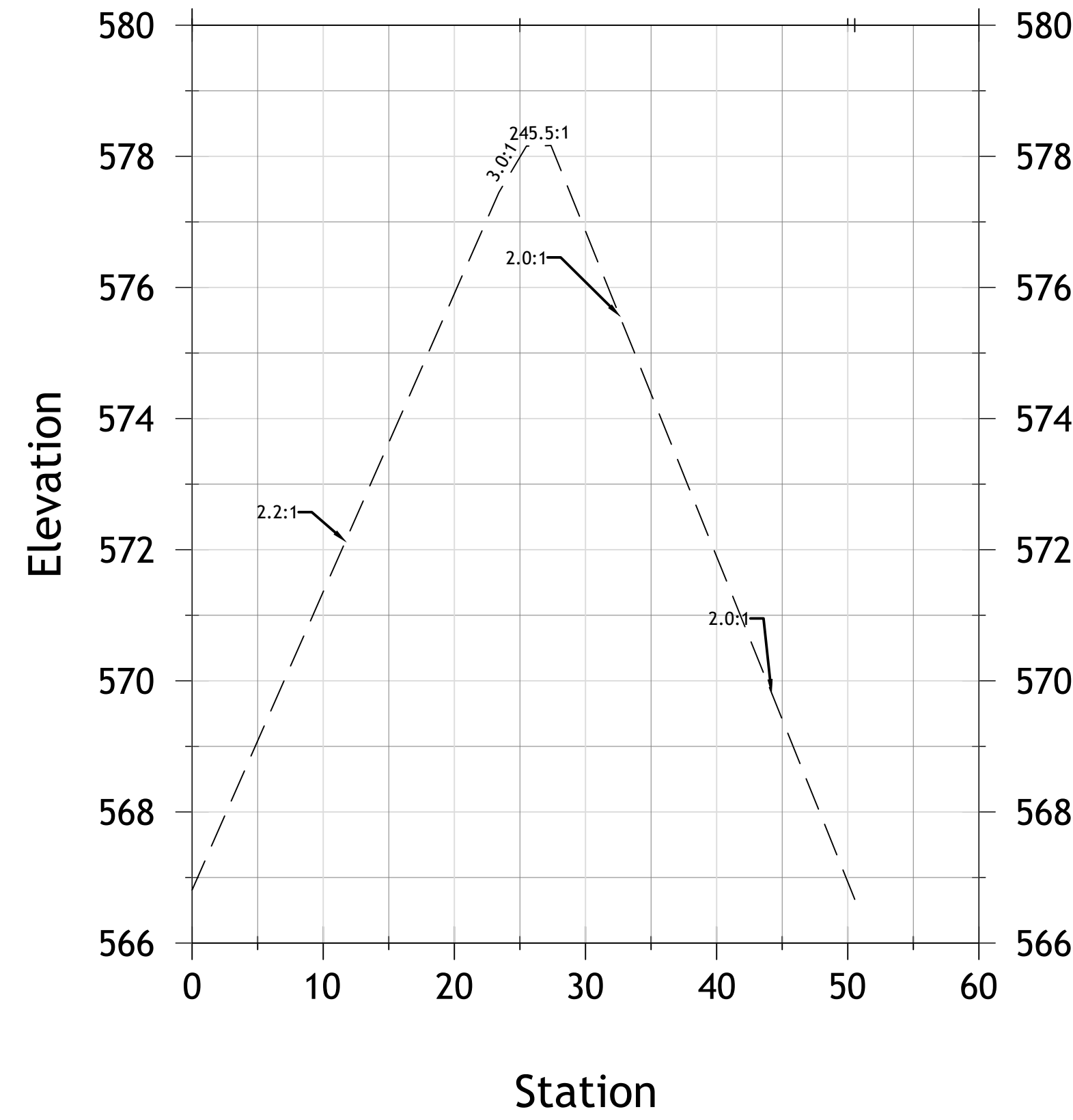
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**CE18**



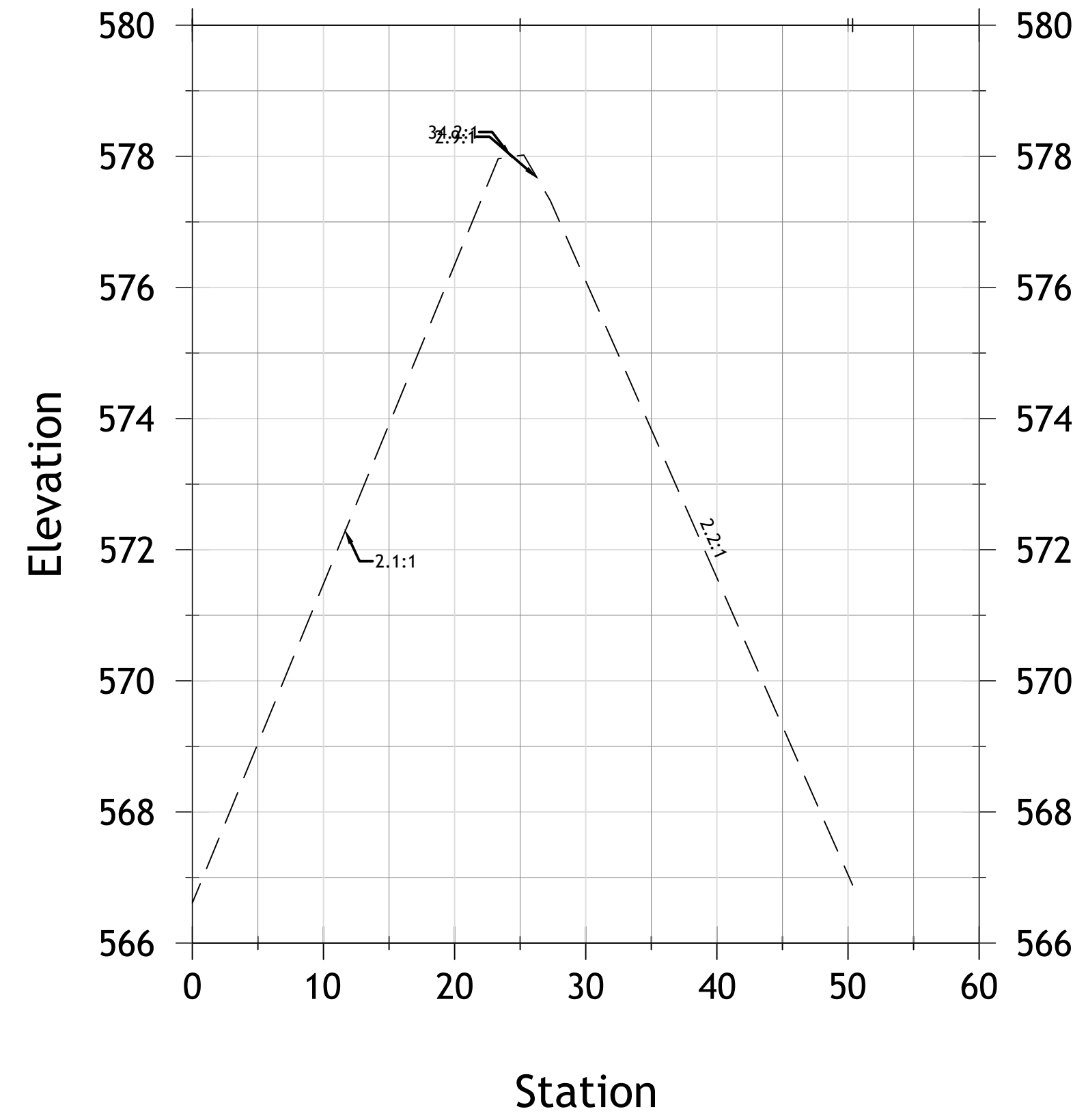




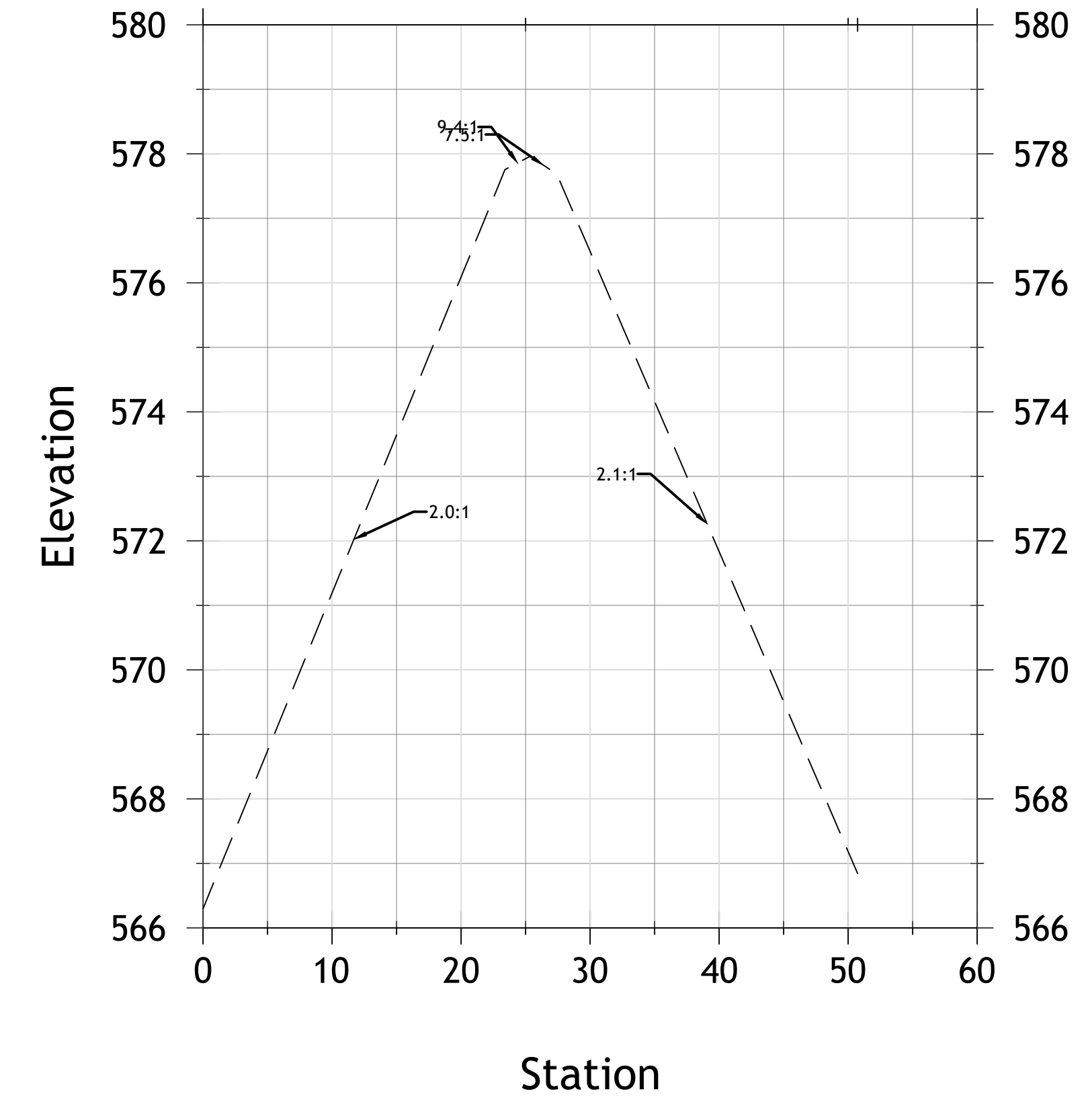
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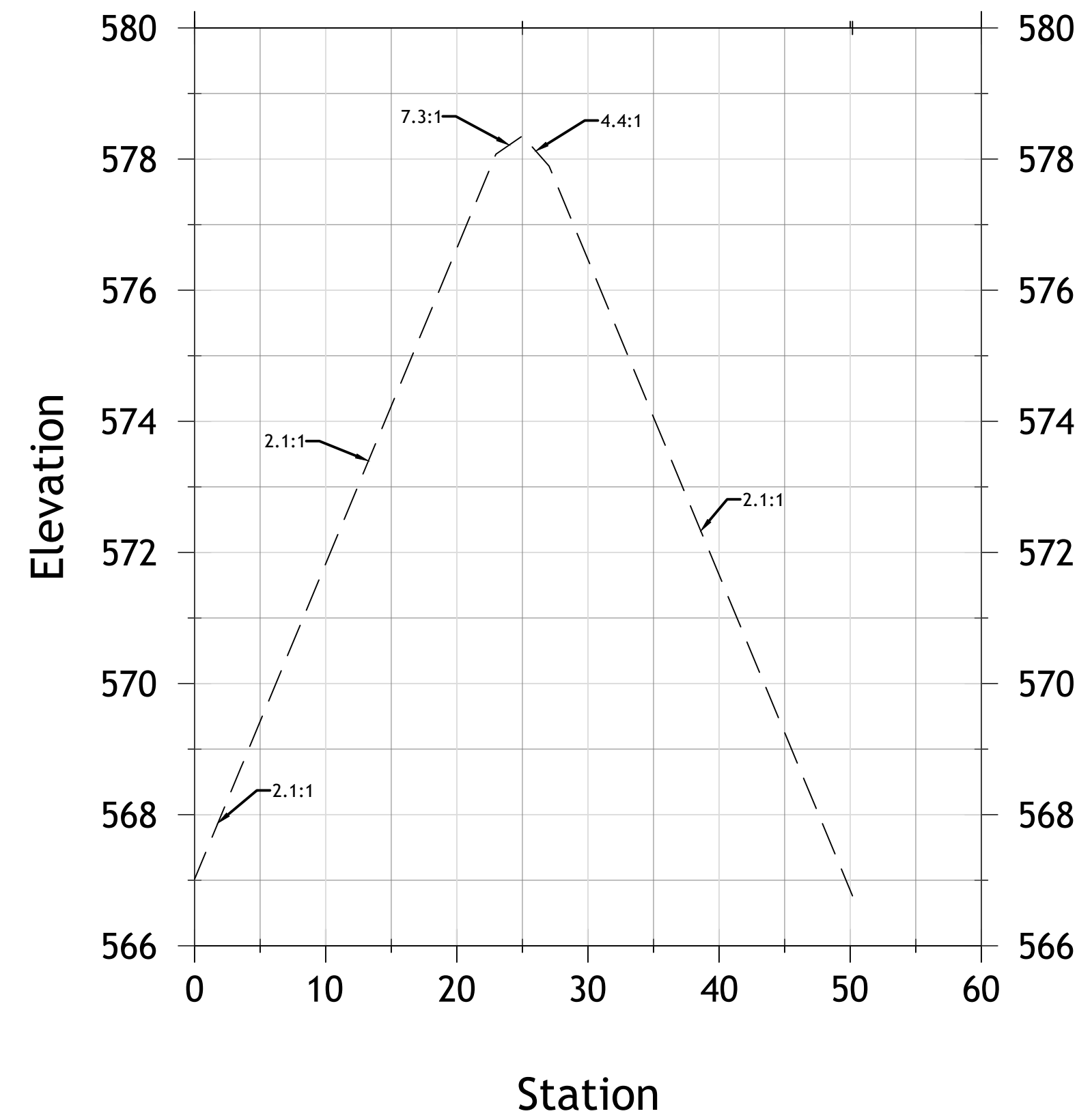
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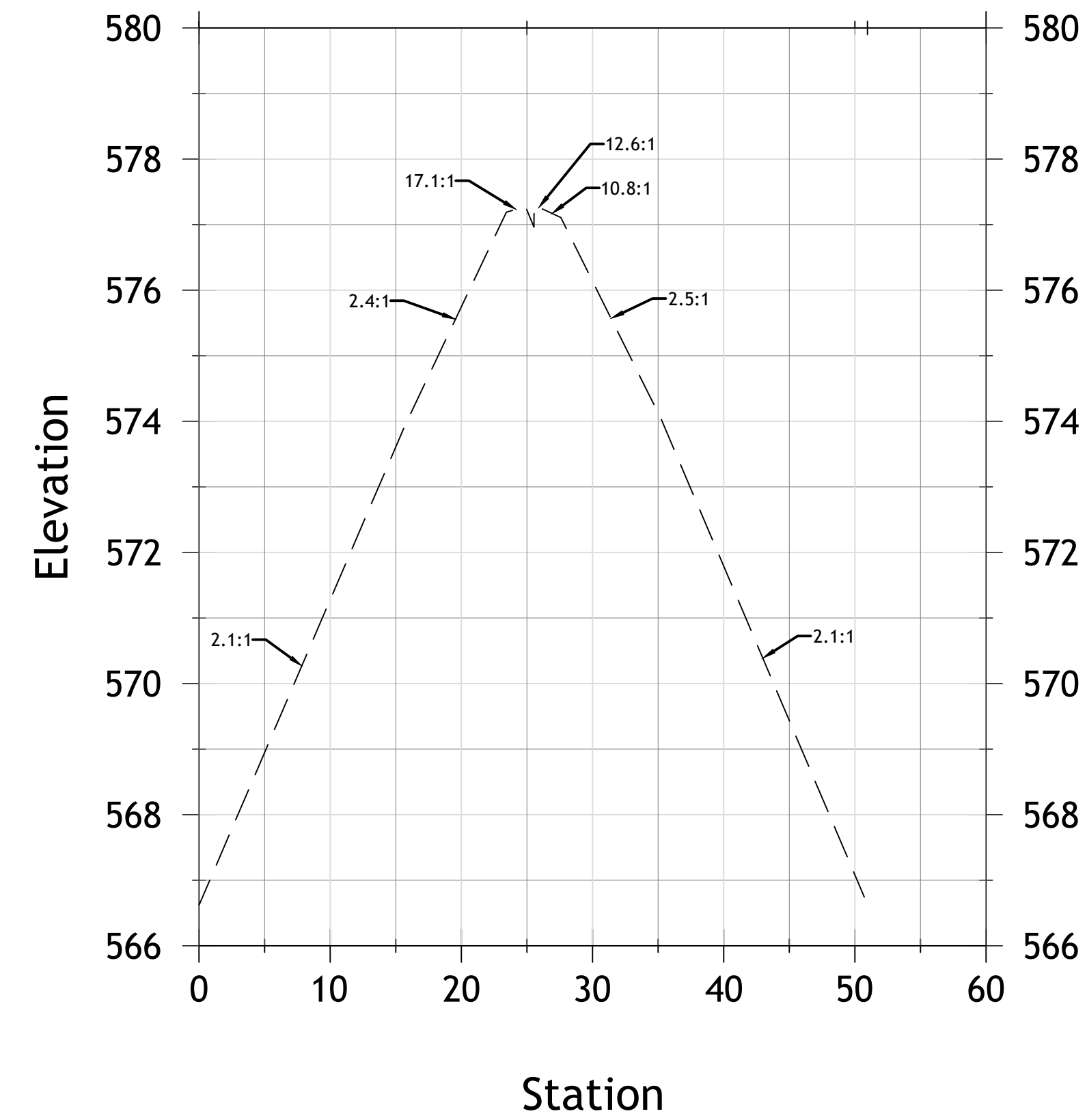
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ARMOR SHOAL D 2+00



ARMOR SHOAL D 2+40



PROJECT NUMBER:  
52318

DATE:  
10/21/19

SCALE:  
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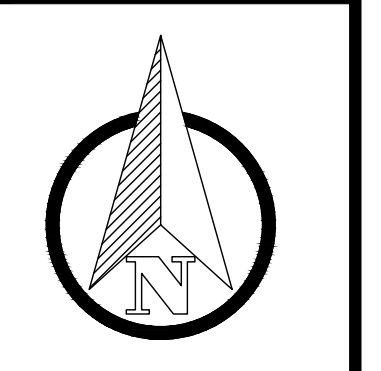
DESIGNED BY:

DRAWN BY:  
JAB

CHECKED BY:

APPROVED BY:

REVISIONS



ENGINEERING FOR RESULTS  
 13500 REECK ROAD  
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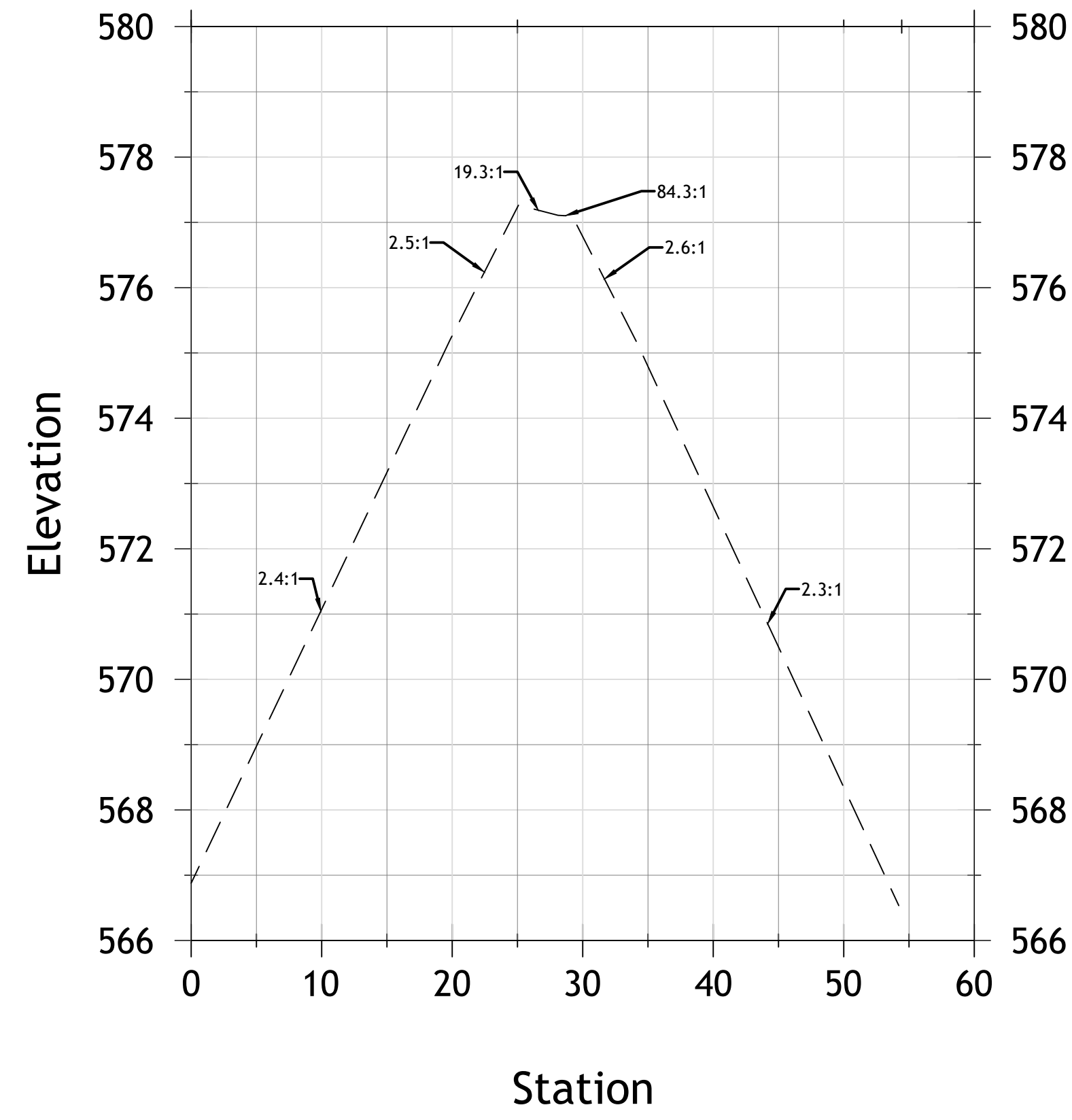
TITLE  
**AS-BUILTS**  
 CELERON ISLAND HABITAT RESTORATION  
 SHOAL D ARMOR STONE  
 THE DETROIT RIVER  
 WAYNE COUNTY, MICHIGAN

SHEET  
**CE20**

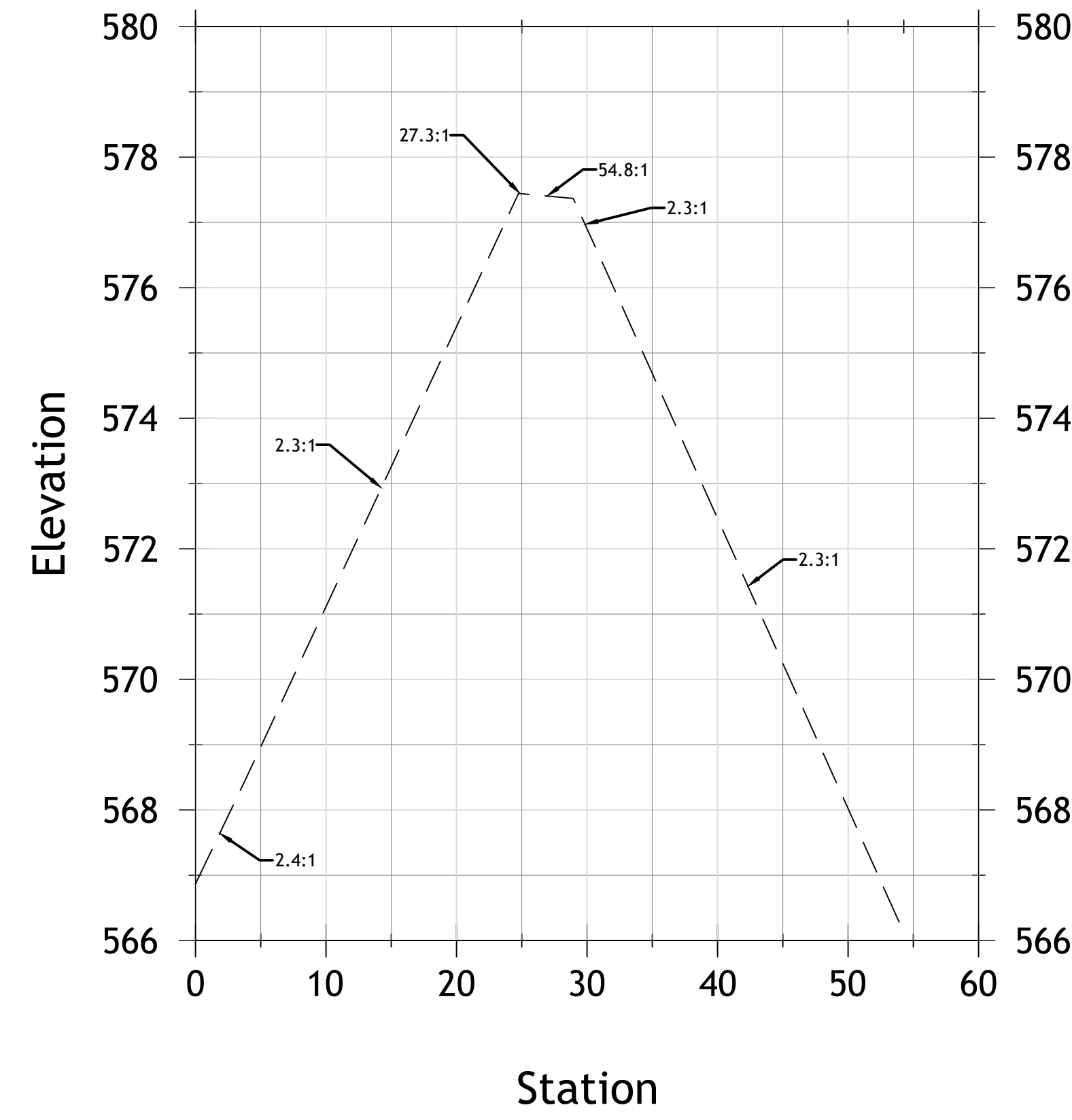




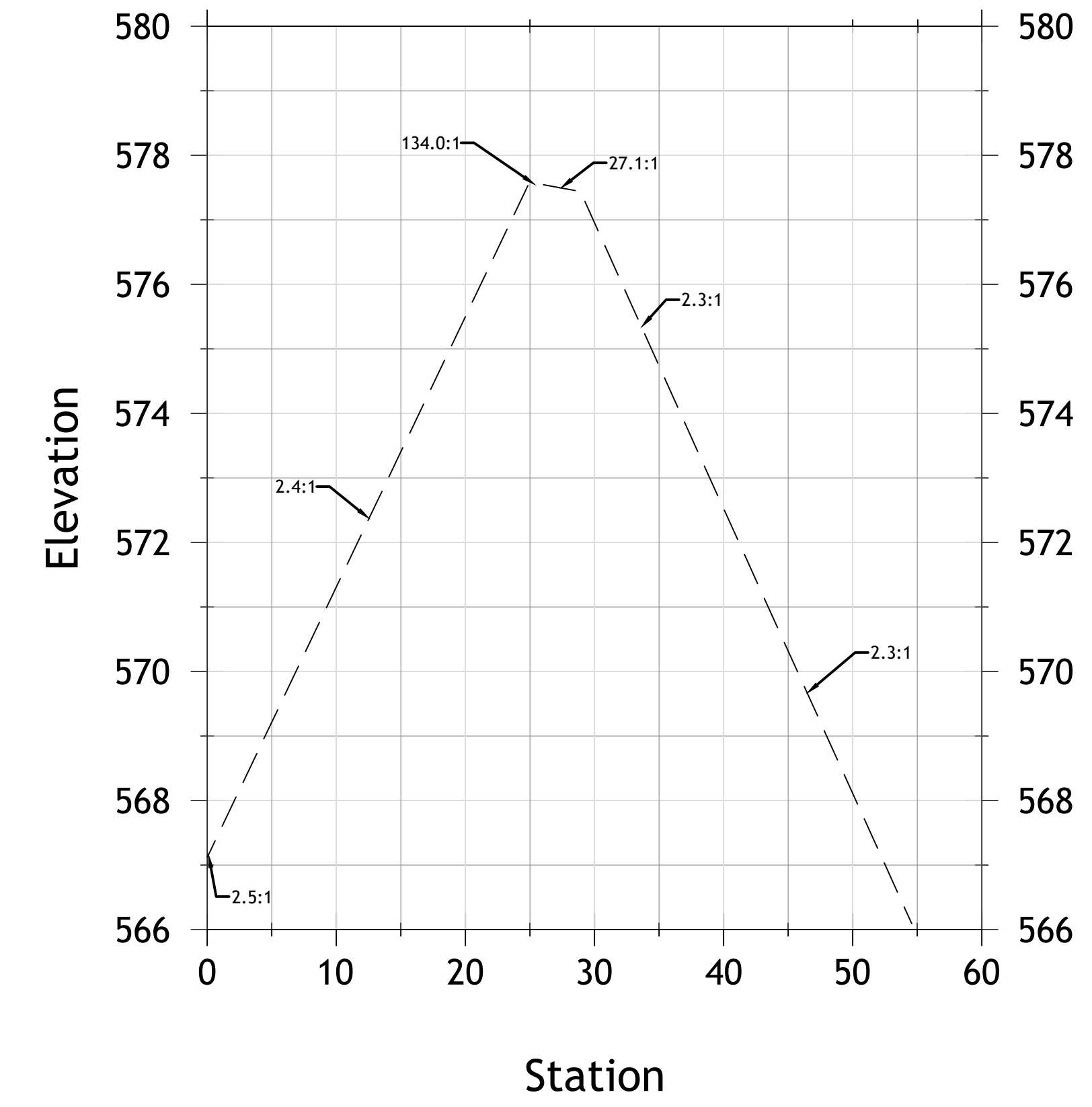
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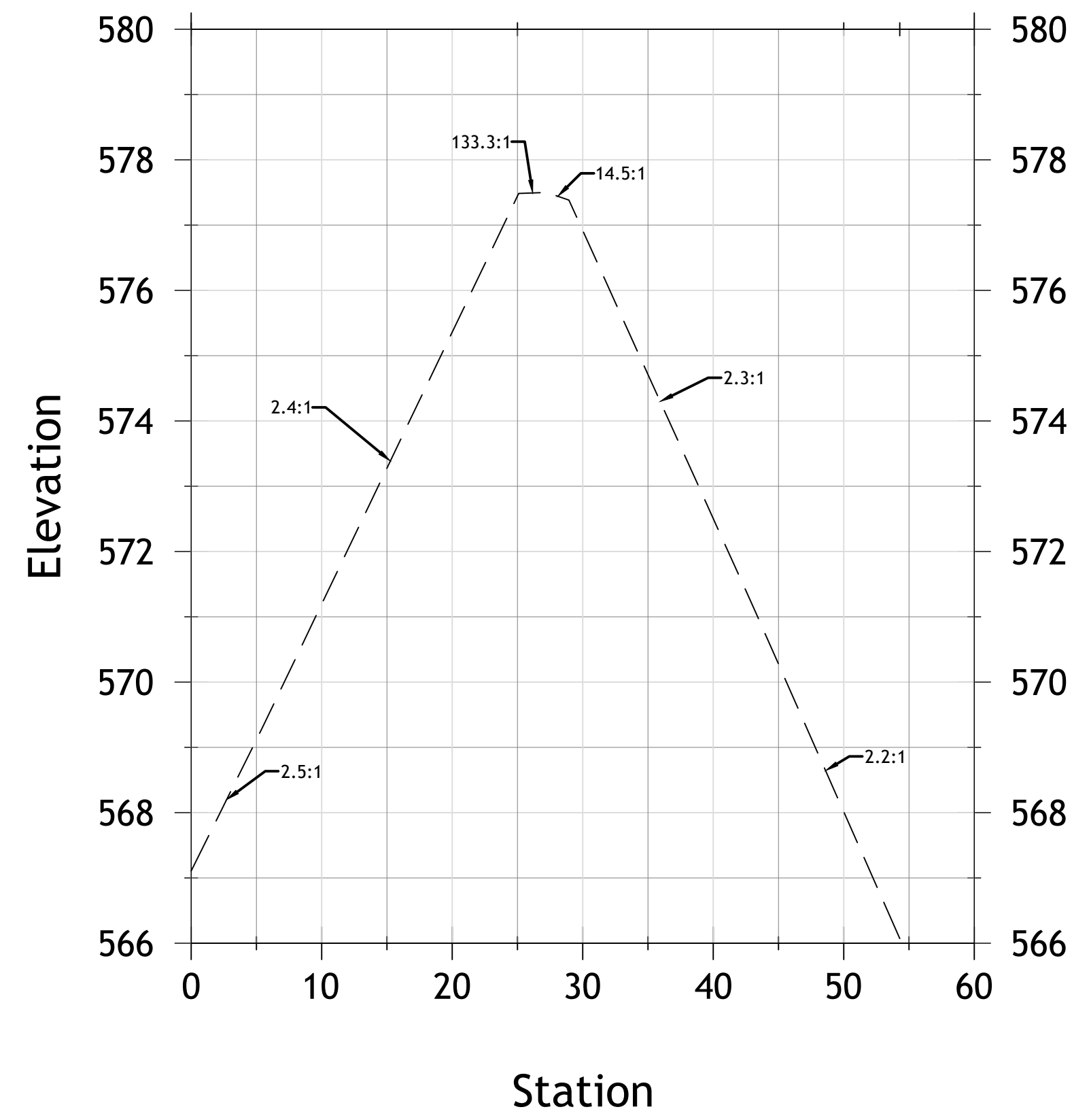
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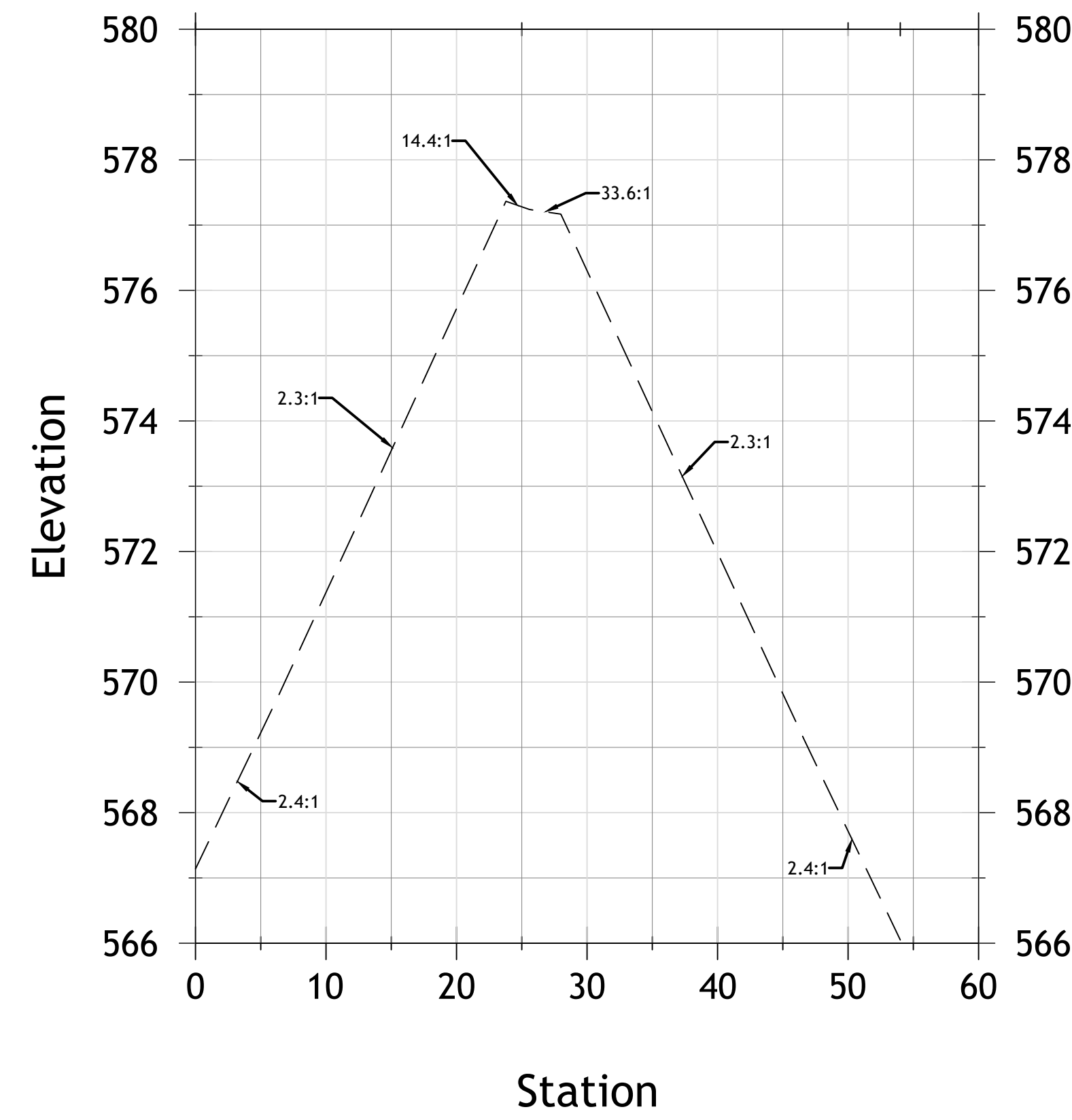
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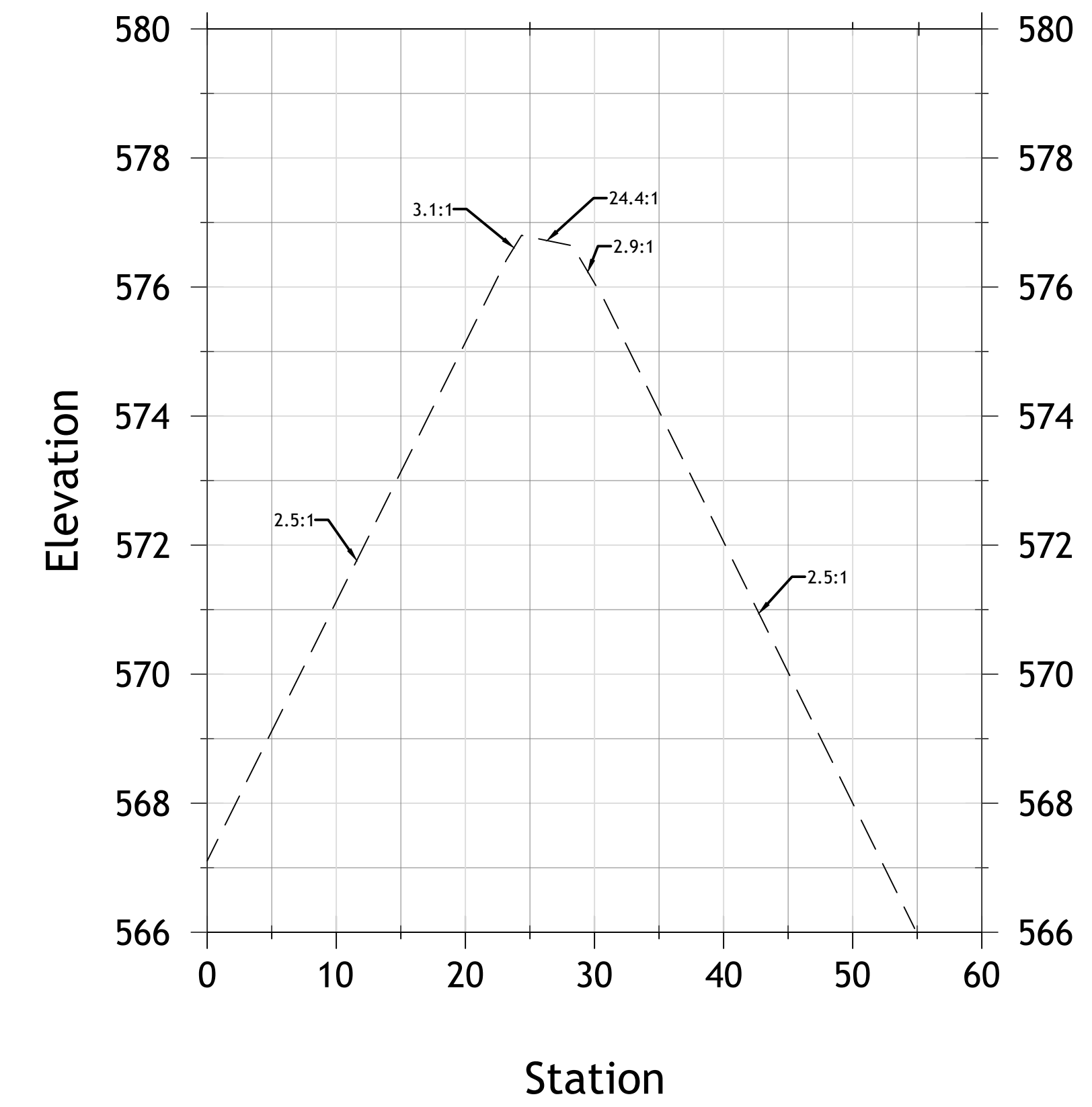
ARMOR SHOAL E 2+00



ARMOR SHOAL E 2+50



ARMOR SHOAL E 3+00



PROJECT NUMBER:  
52318

DATE:  
10/21/19

SCALE:  
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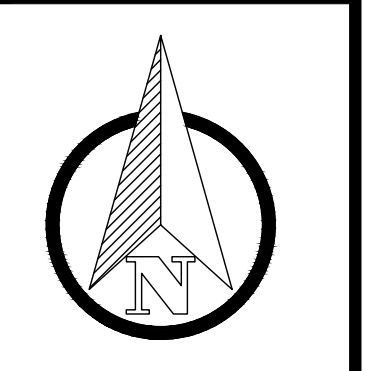
DESIGNED BY:

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JAB

CHECKED BY:

APPROVED BY:

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ENGINEERING FOR RESULTS  
13500 REECK ROAD  
SOUTHGATE, MI 48195  
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TITLE  
AS-BUILTS  
CELERON ISLAND HABITAT RESTORATION  
SHOAL E ARMOR STONE  
THE DETROIT RIVER  
WAYNE COUNTY, MICHIGAN

SHEET  
CE21





PROJECT NUMBER:  
52318

DATE:  
10/21/19

SCALE:  
1"=10'

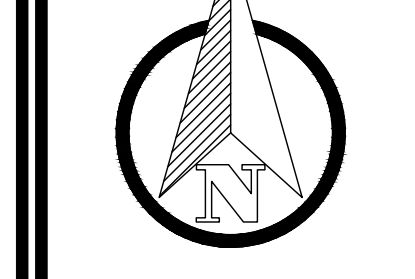
DESIGNED BY:

DRAWN BY:  
JAB

CHECKED BY:

APPROVED BY:

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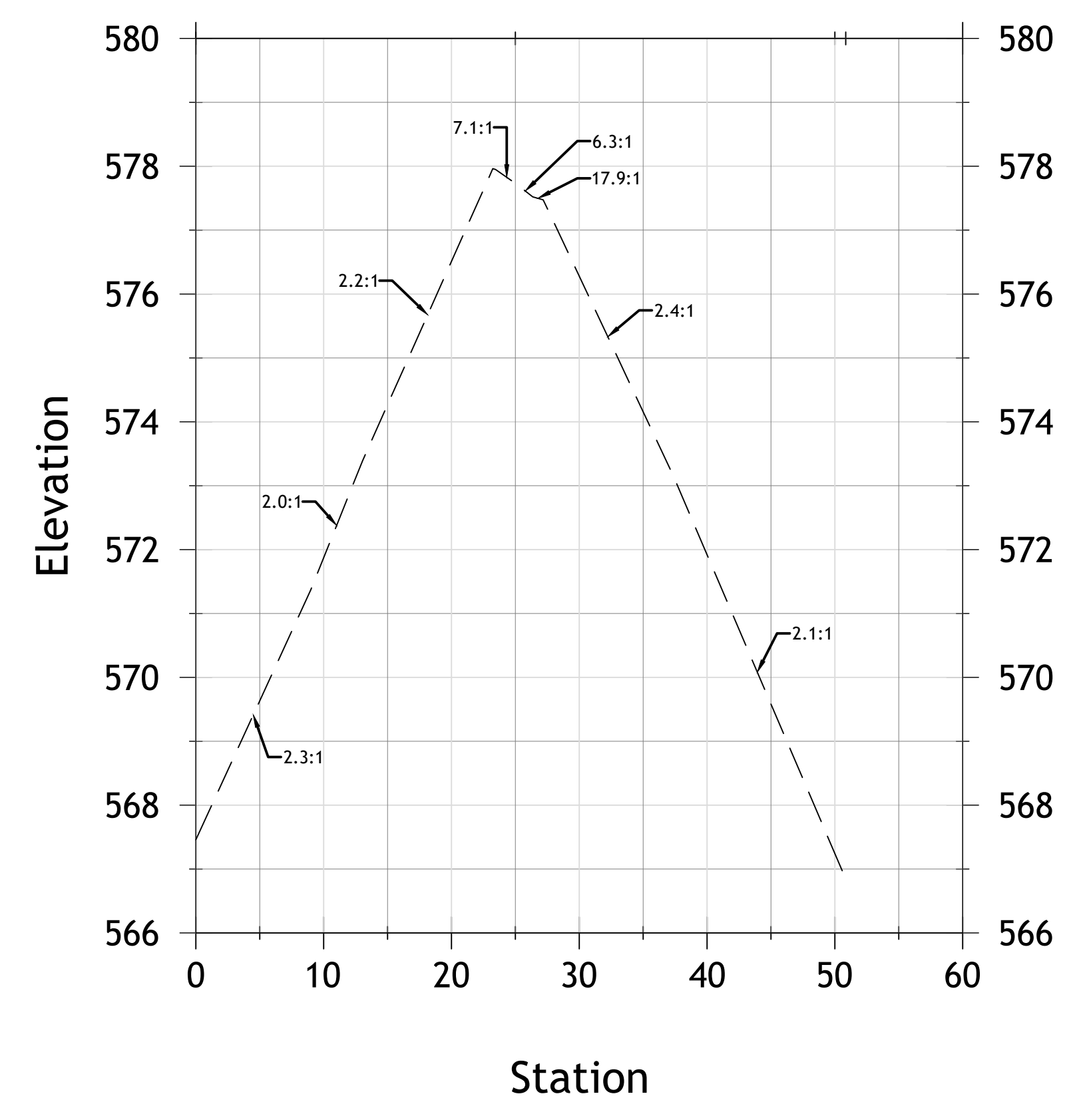
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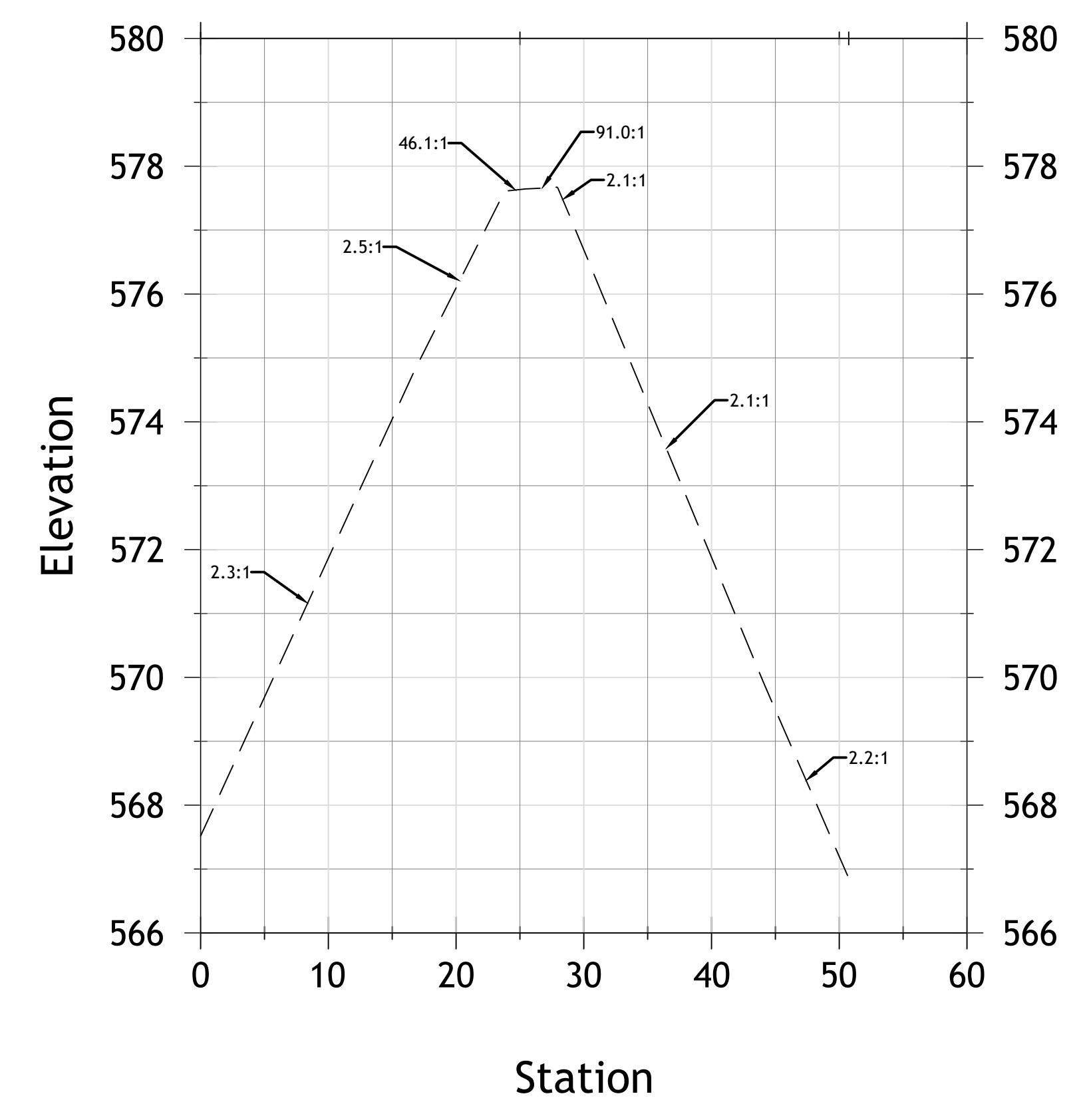
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CELERON ISLAND HABITAT RESTORATION  
SHOAL F ARMOR STONE  
THE DETROIT RIVER  
WAYNE COUNTY, MICHIGAN

SHEET  
**CE22**

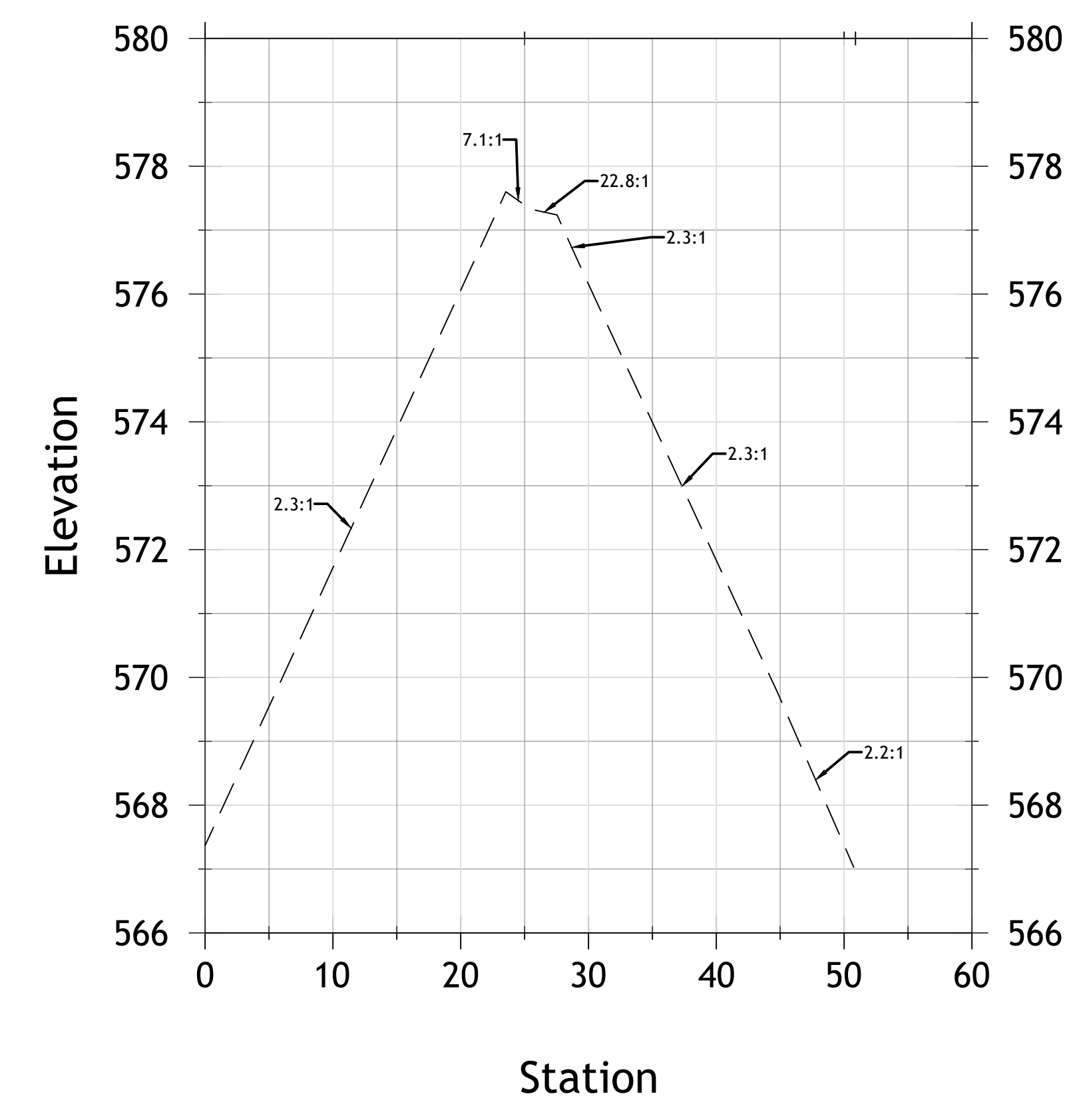
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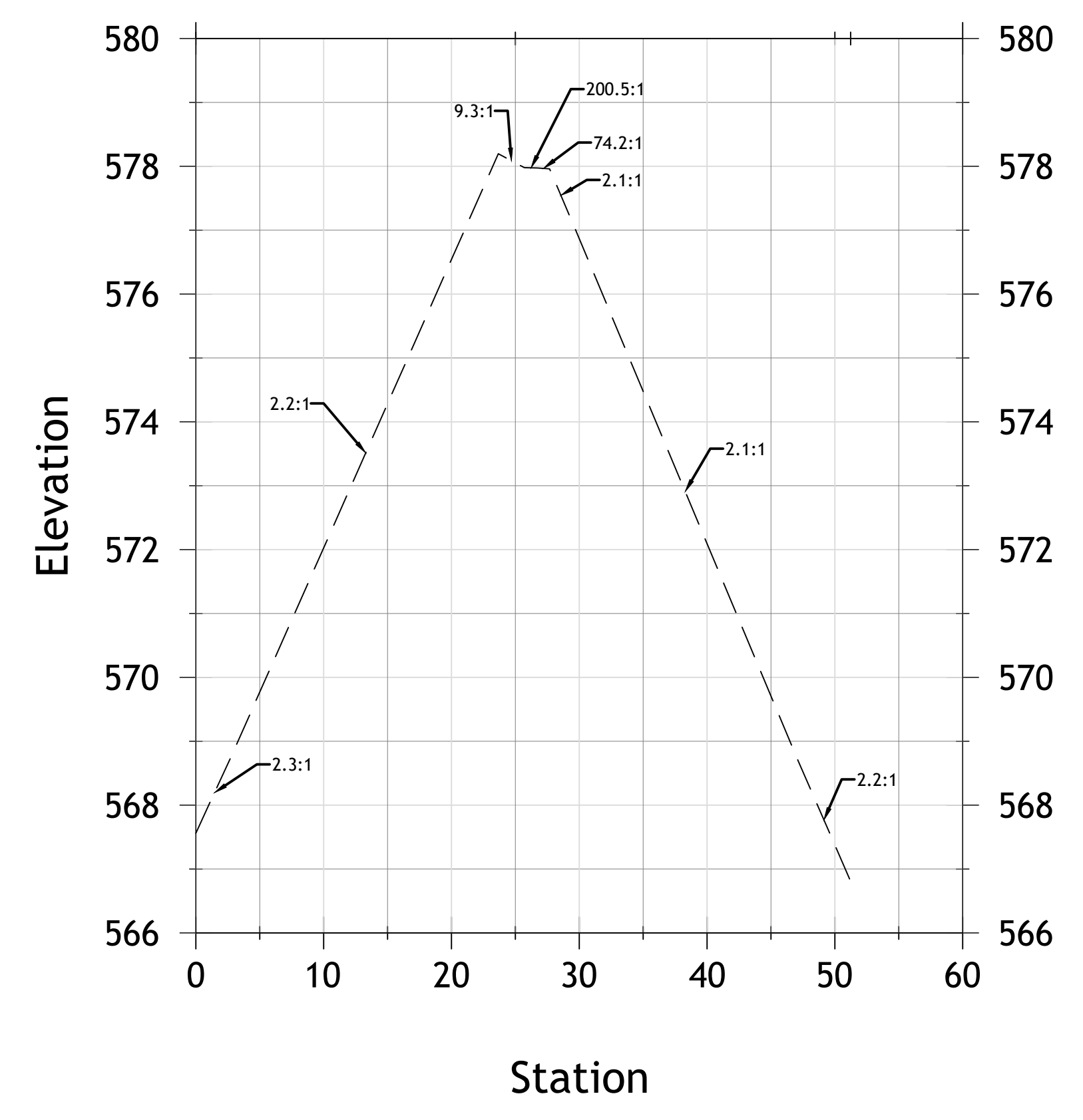
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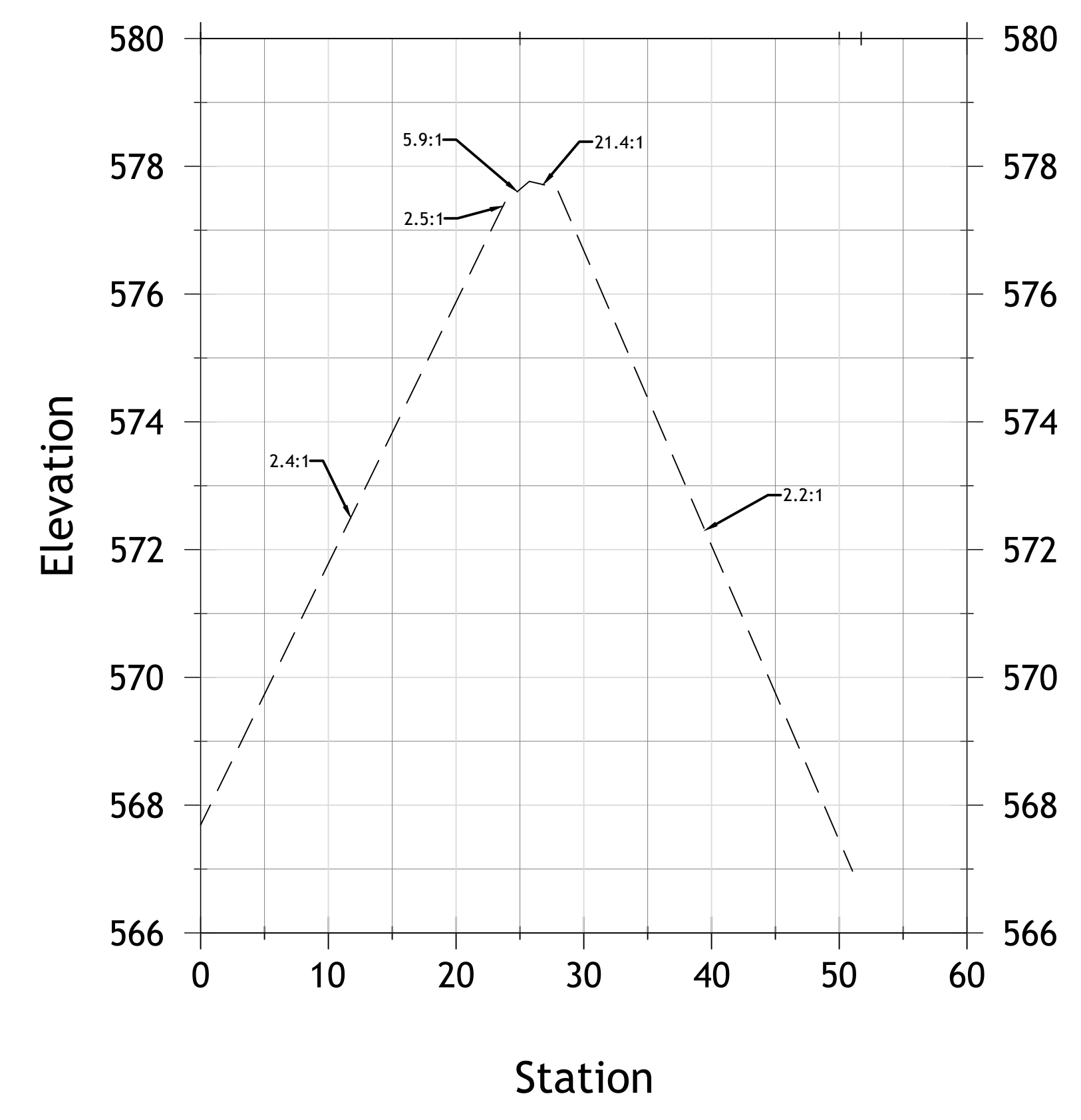
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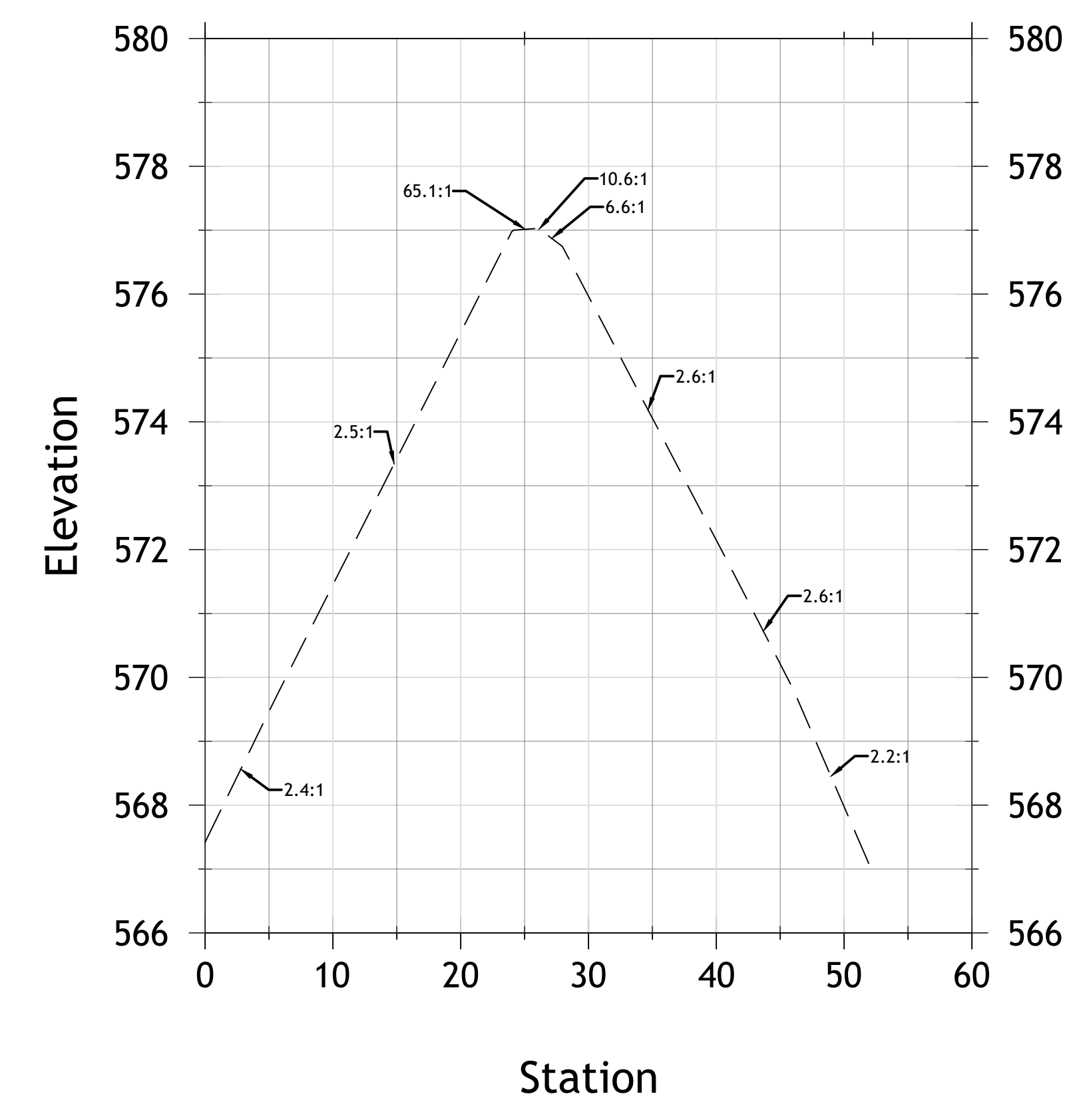
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ARMOR SHOAL F 2+50



ARMOR SHOAL F 2+90

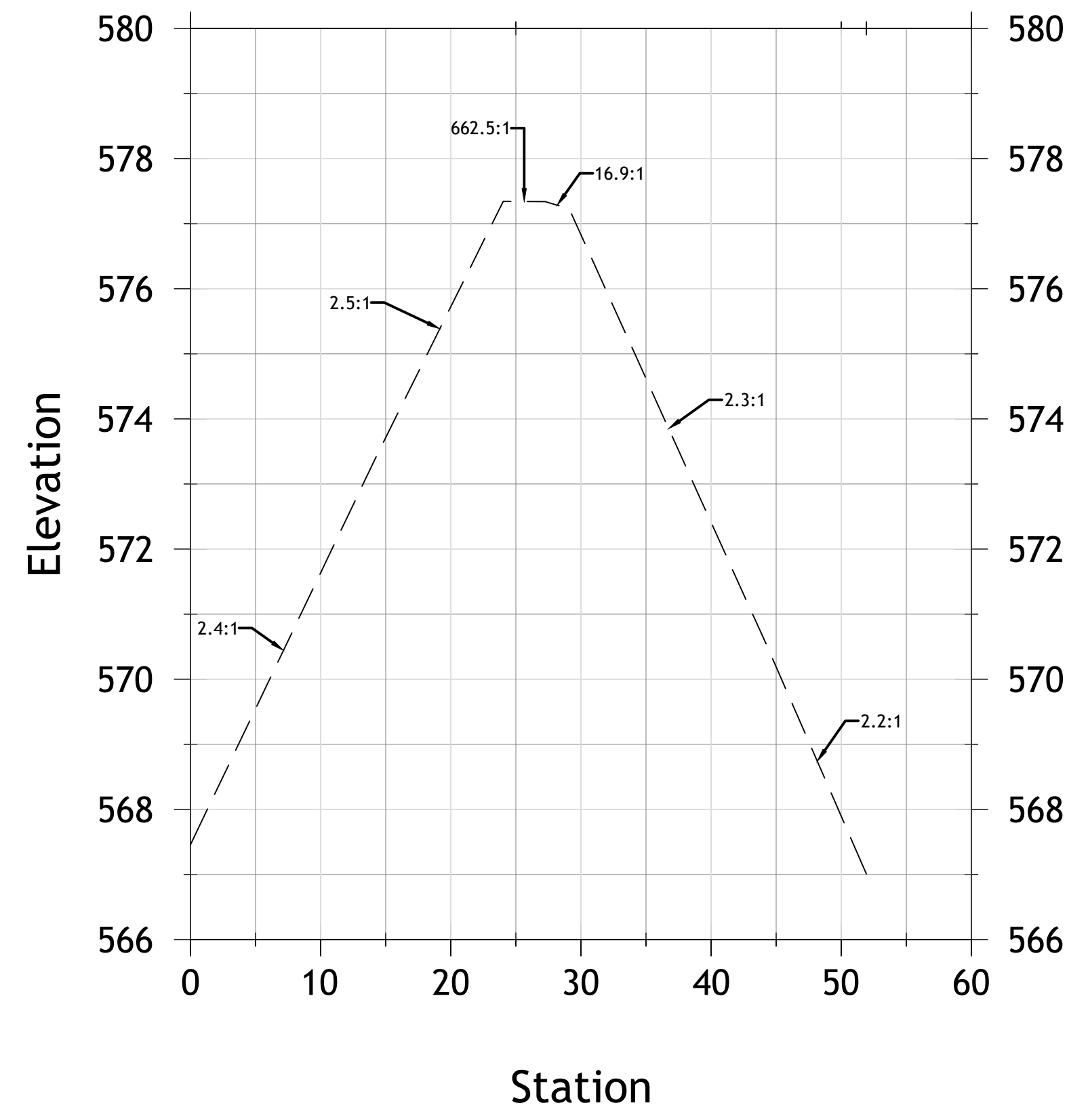




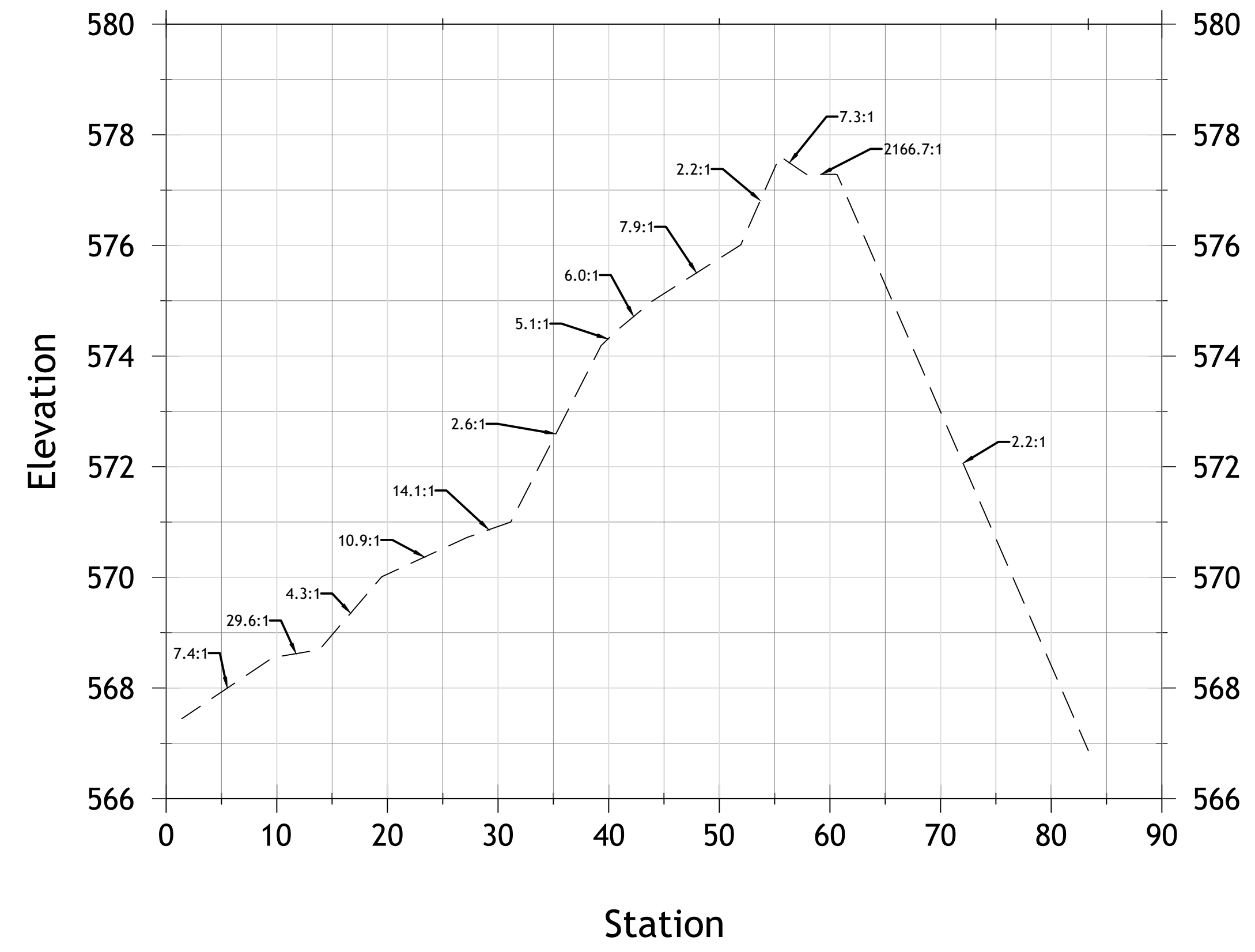




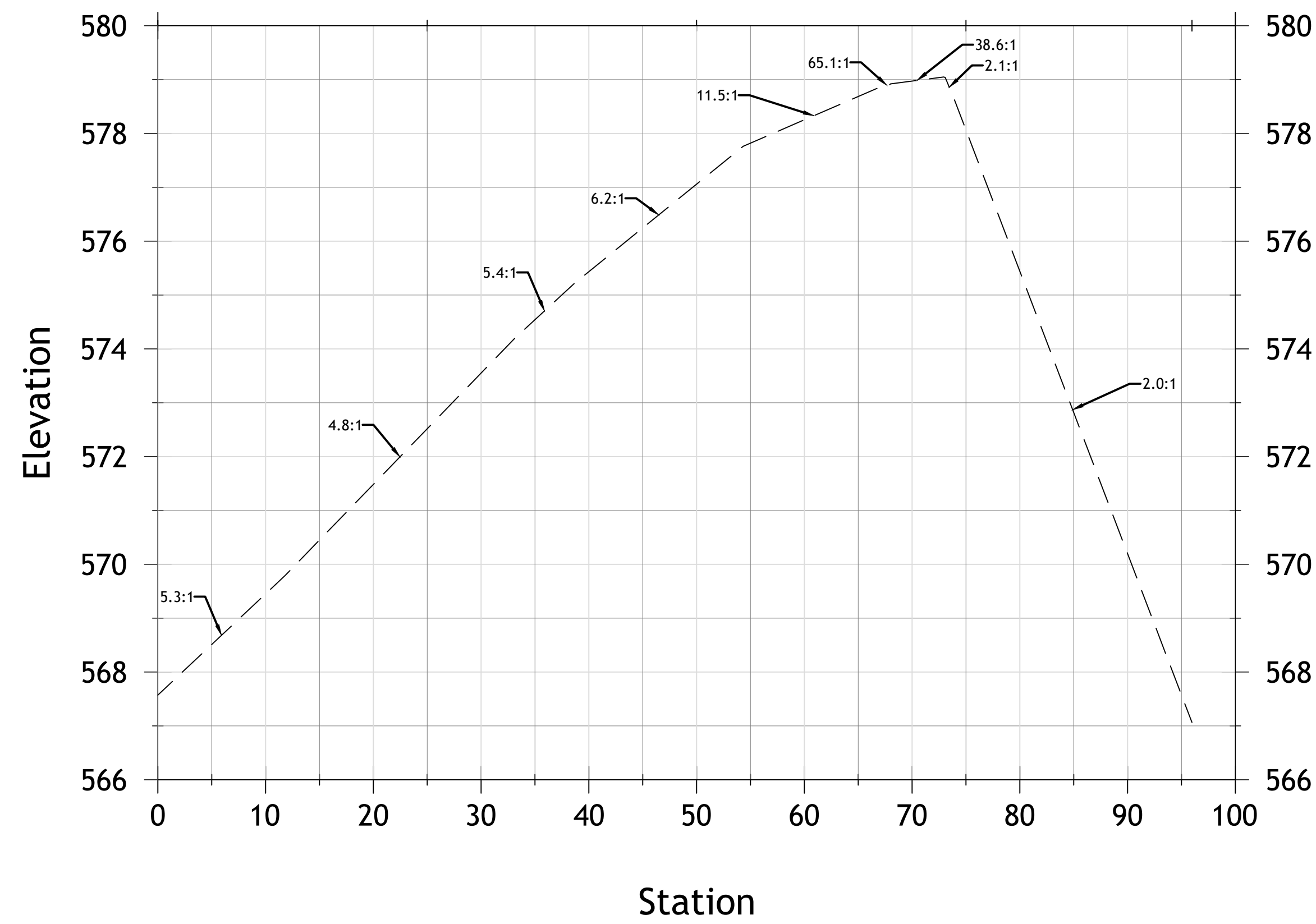
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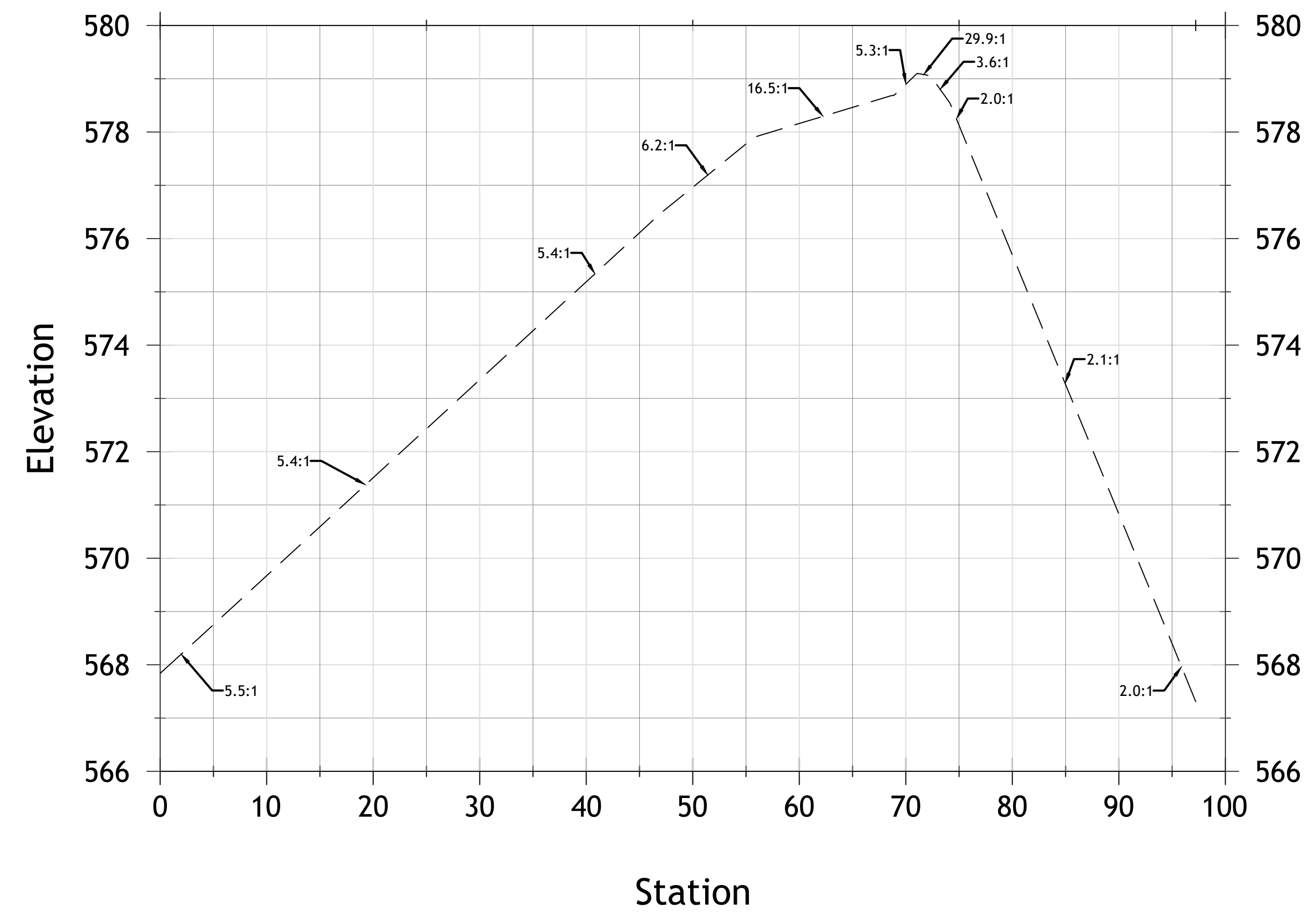
ARMOR SHOAL G 1+00



ARMOR SHOAL G 1+50



ARMOR SHOAL G 2+00



PROJECT NUMBER:  
52318

DATE:  
10/21/19

SCALE:  
1"=10'

DESIGNED BY:

DRAWN BY:  
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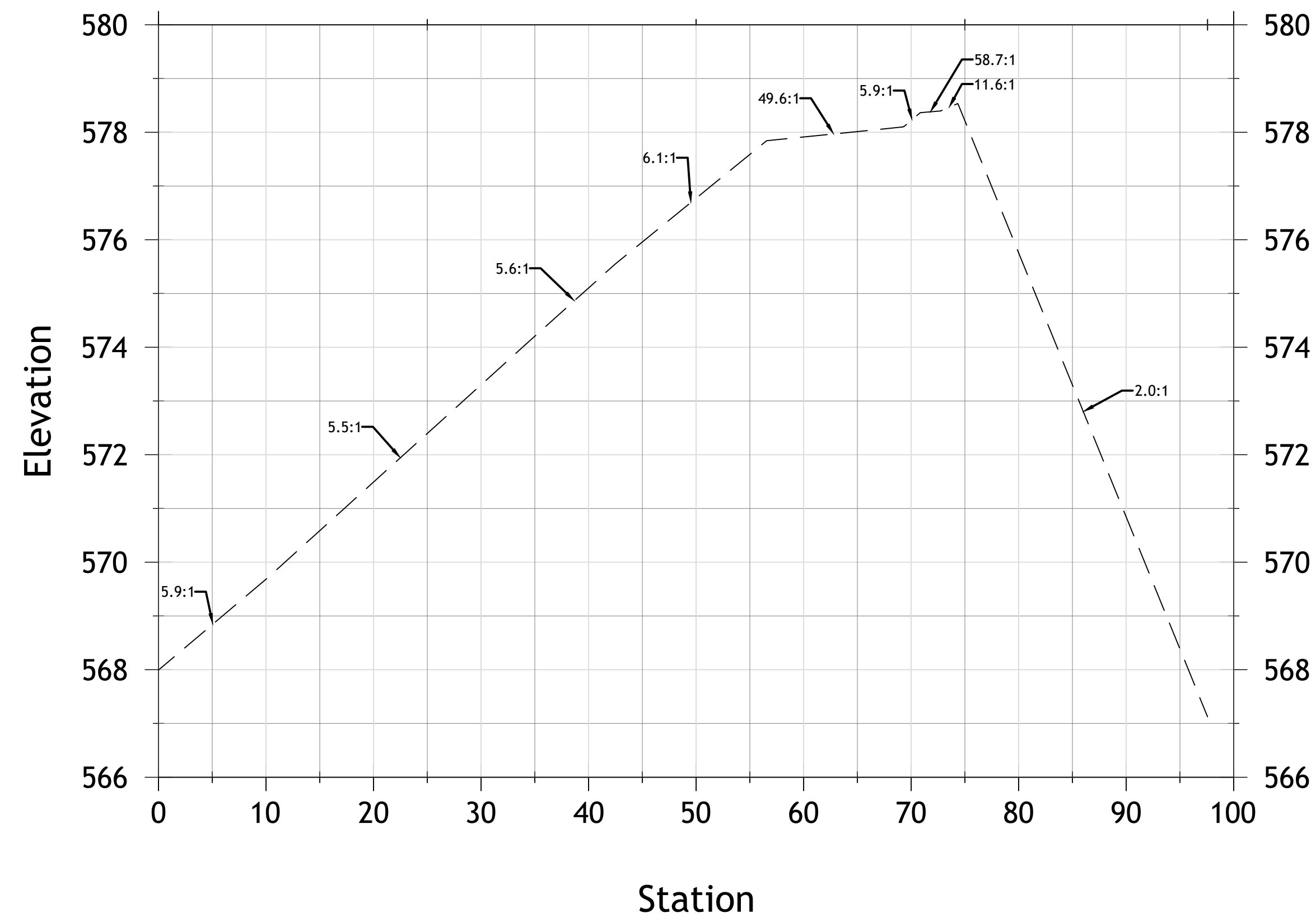
AS-BUILTS

CELERON ISLAND HABITAT RESTORATION  
SHOAL G ARMOR STONE  
THE DETROIT RIVER  
WAYNE COUNTY, MICHIGAN

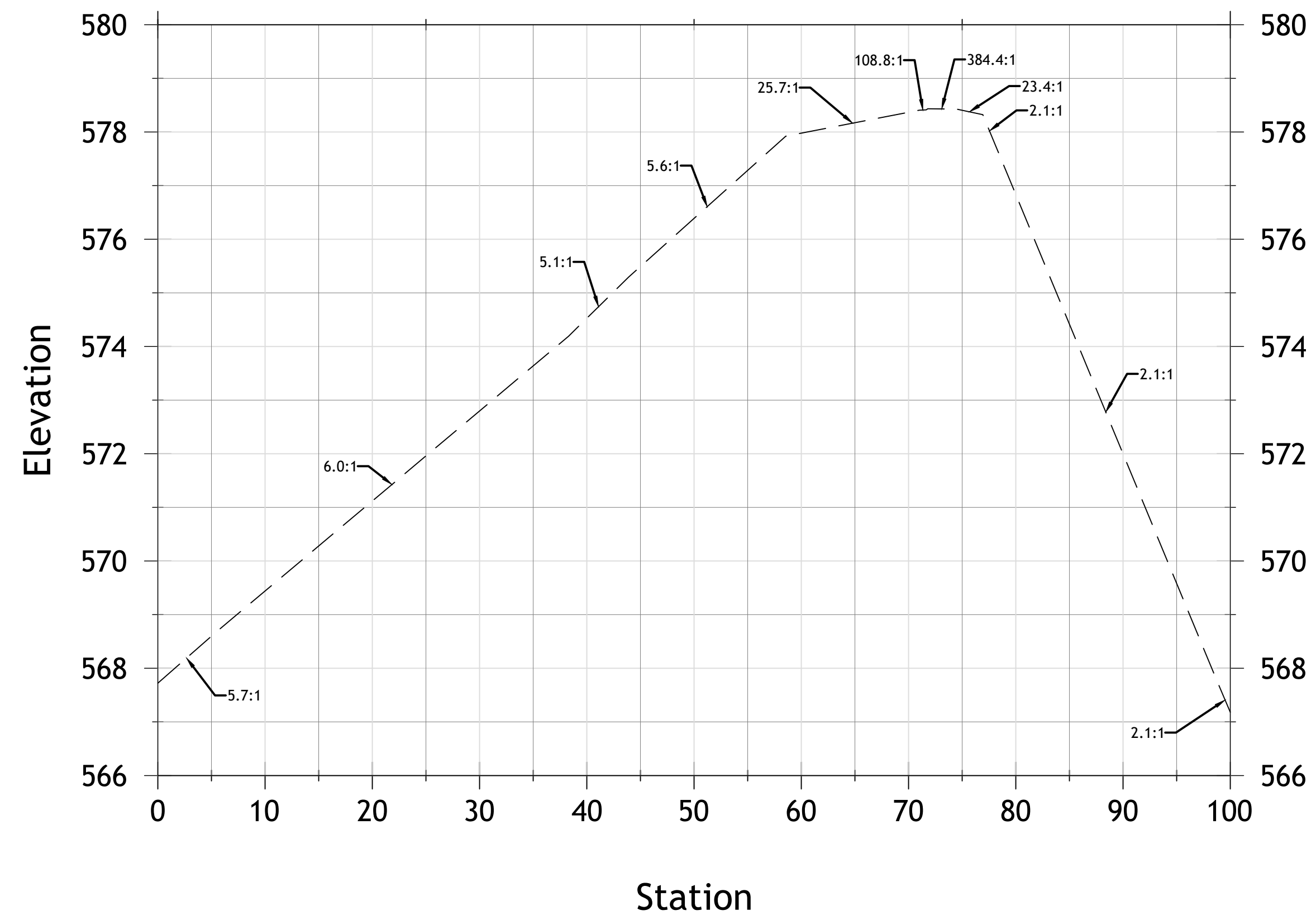
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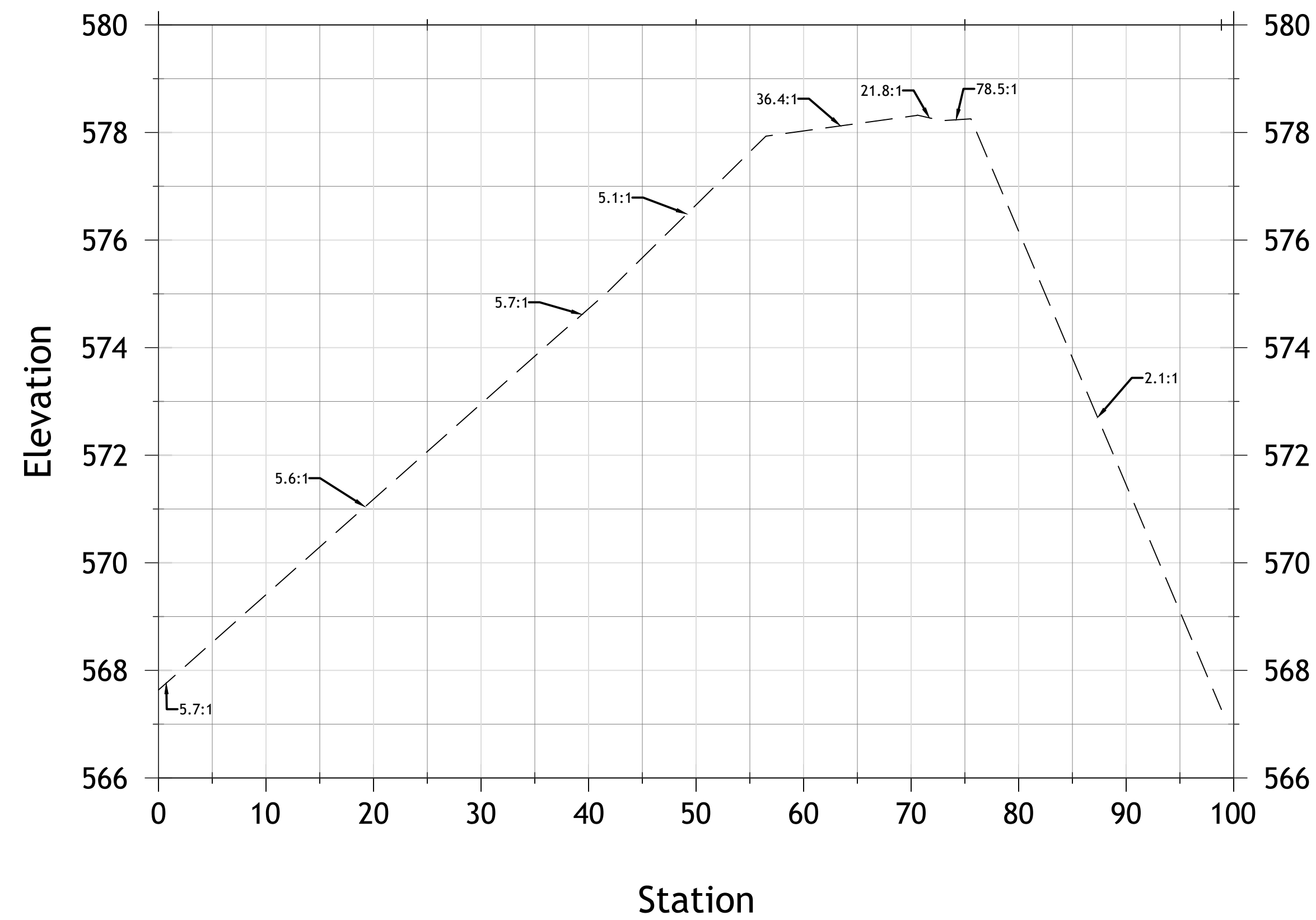
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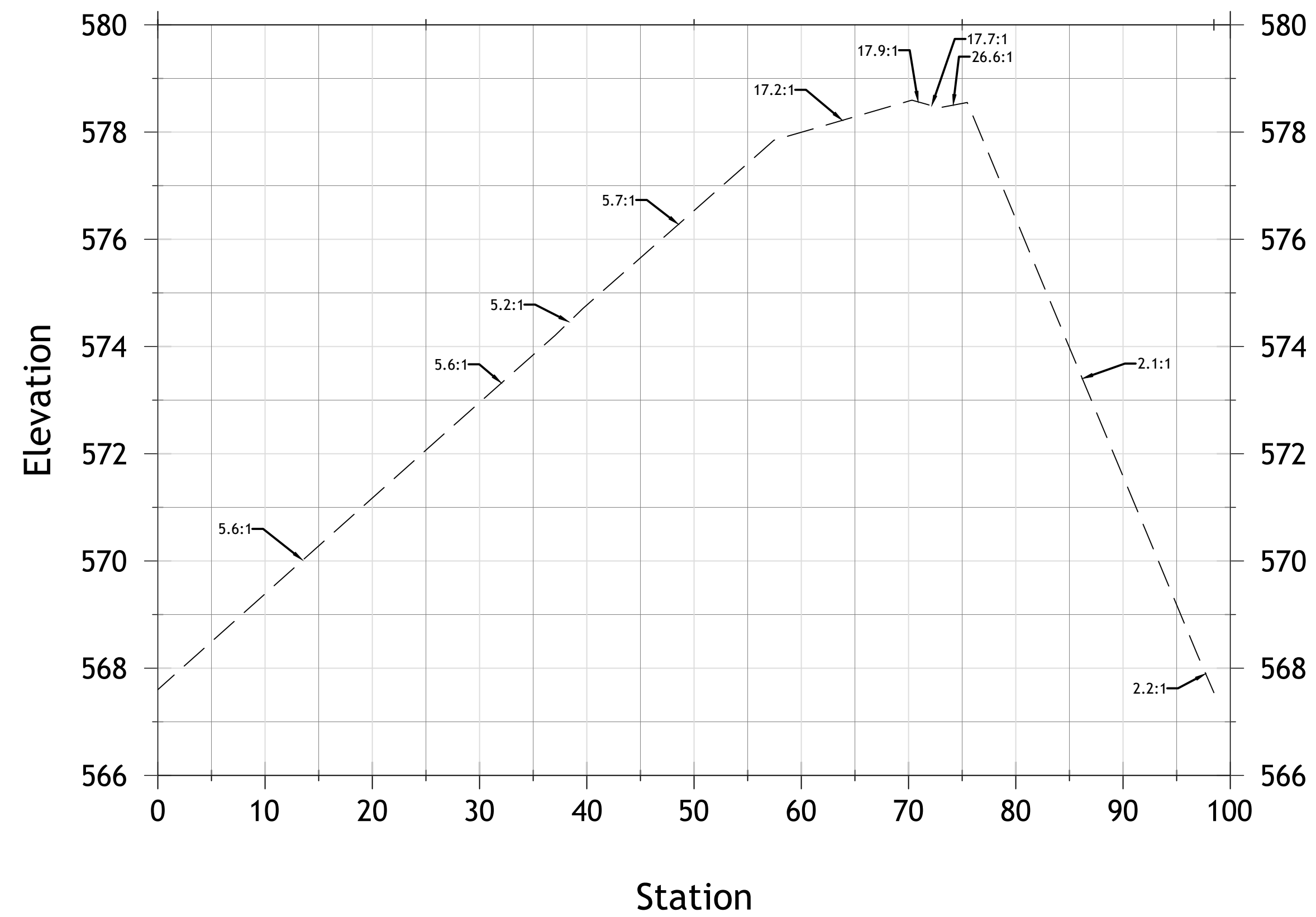
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ARMOR SHOAL G 3+50



ARMOR SHOAL G 4+00



PROJECT NUMBER:  
52318

DATE:  
10/21/19

SCALE:  
1"=10'

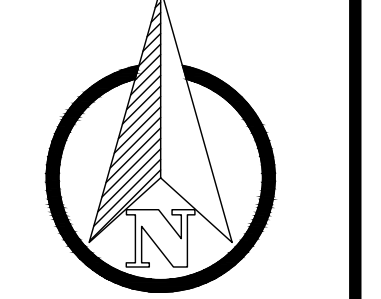
DESIGNED BY:

DRAWN BY:  
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APPROVED BY:

REVISIONS



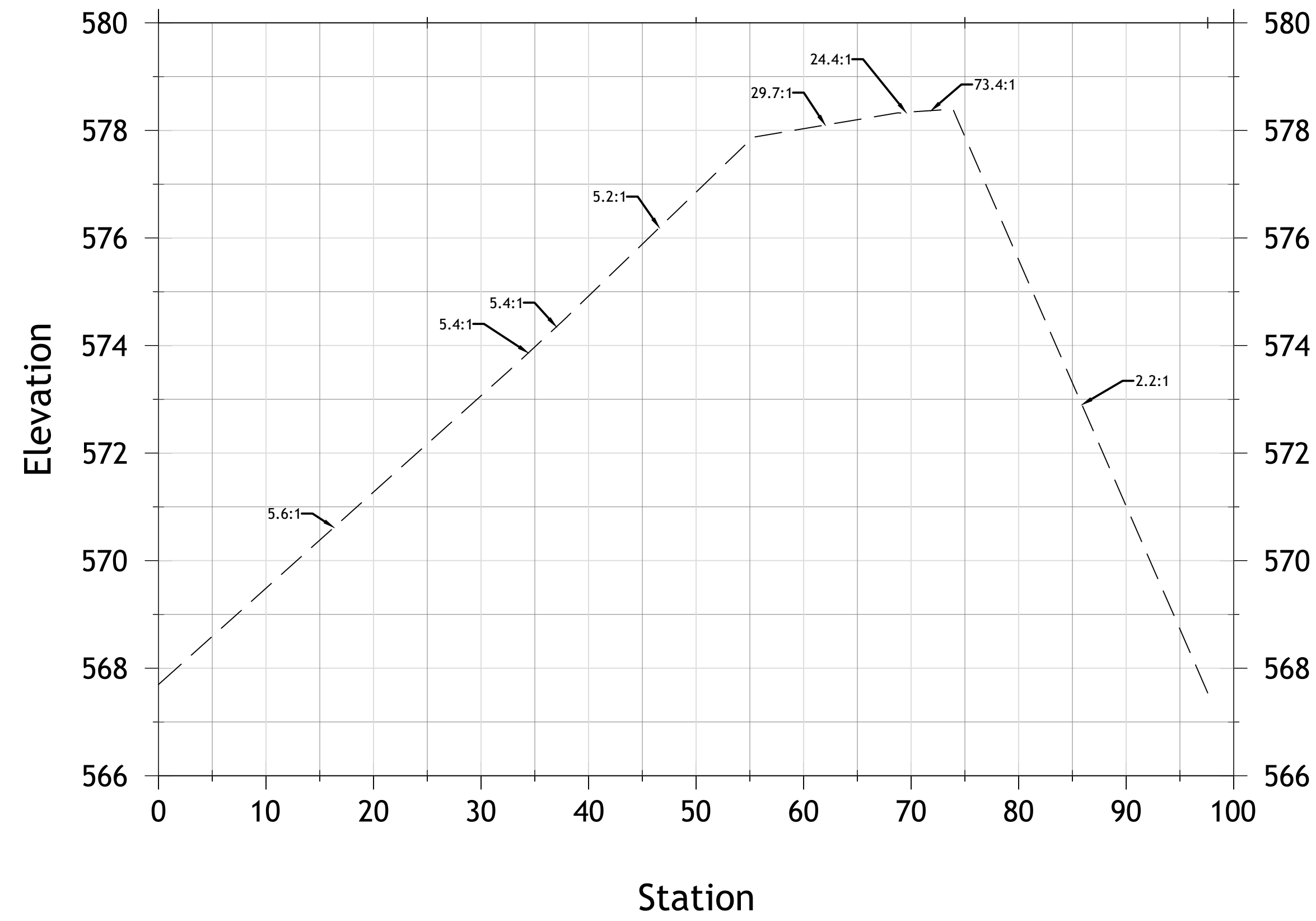
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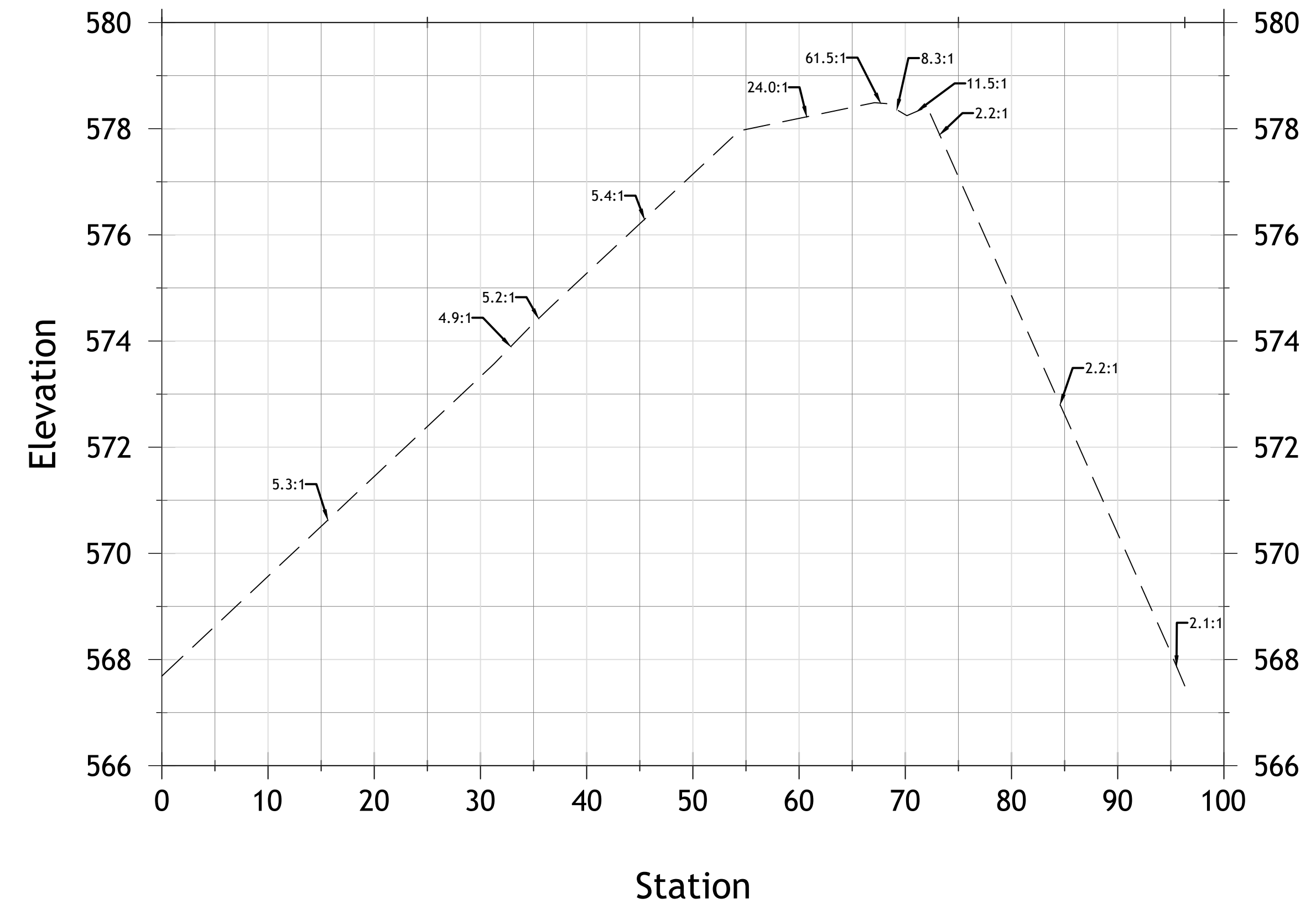
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CELERON ISLAND HABITAT RESTORATION  
SHOAL G ARMOR STONE  
THE DETROIT RIVER  
WAYNE COUNTY, MICHIGAN

SHEET  
CE24

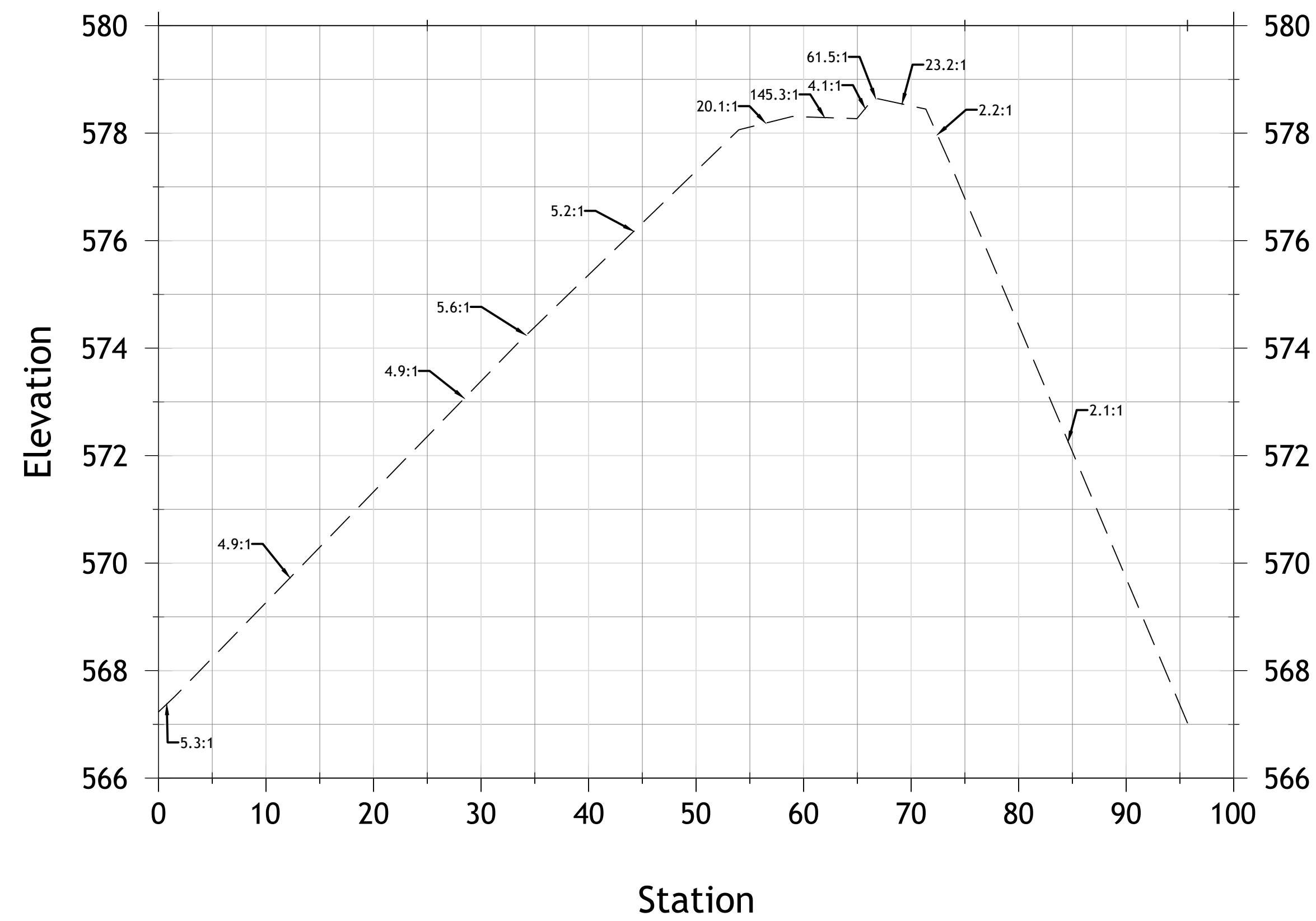
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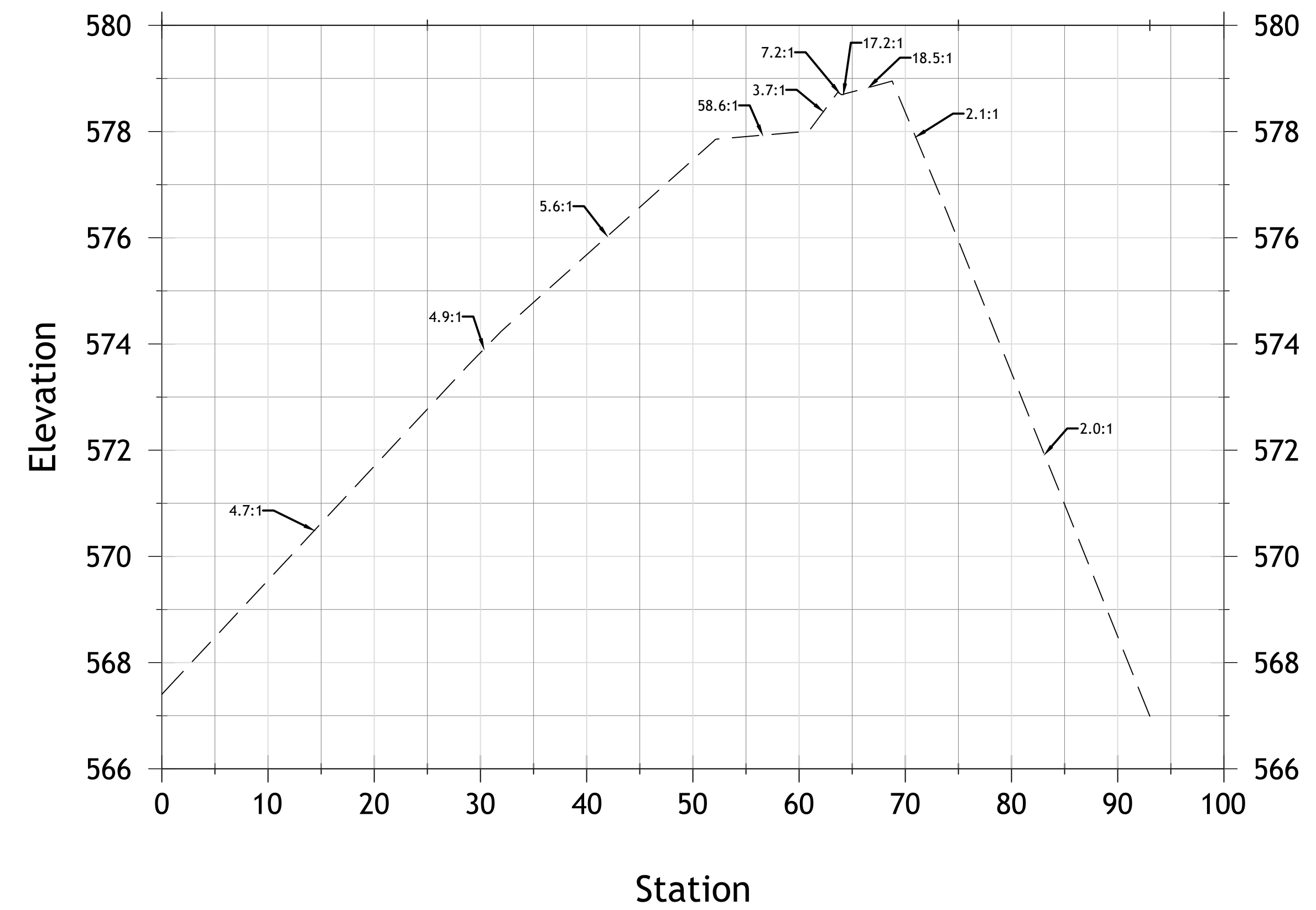
ARMOR SHOAL G 5+00



ARMOR SHOAL G 5+50



ARMOR SHOAL G 6+00



PROJECT NUMBER:  
52318

DATE:  
10/21/19

SCALE:  
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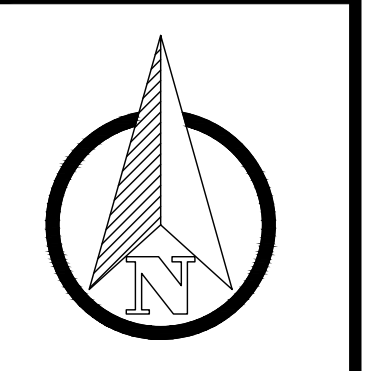
DESIGNED BY:

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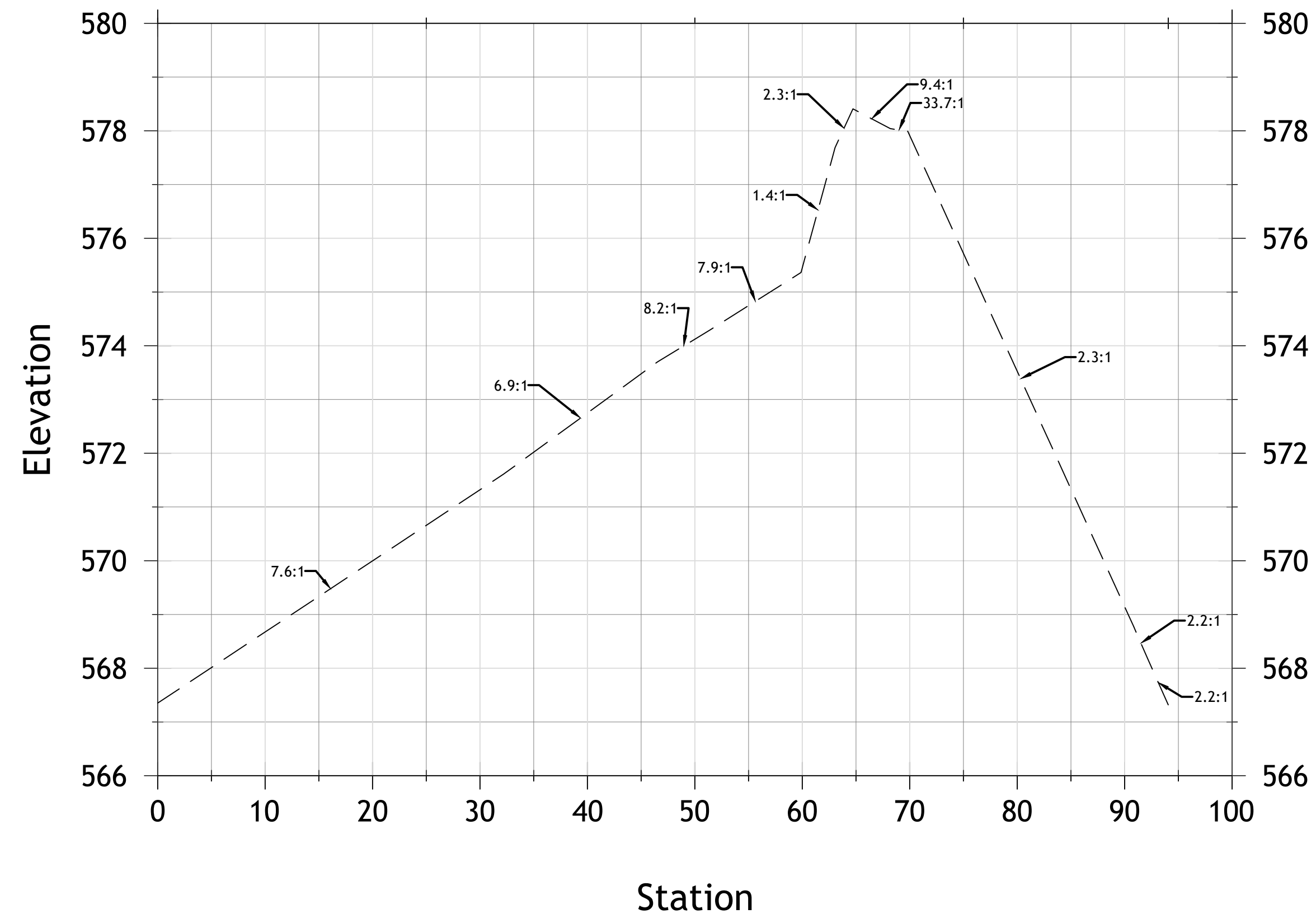


TITLE  
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CELERON ISLAND HABITAT RESTORATION  
SHOAL G ARMOR STONE  
THE DETROIT RIVER  
WAYNE COUNTY, MICHIGAN

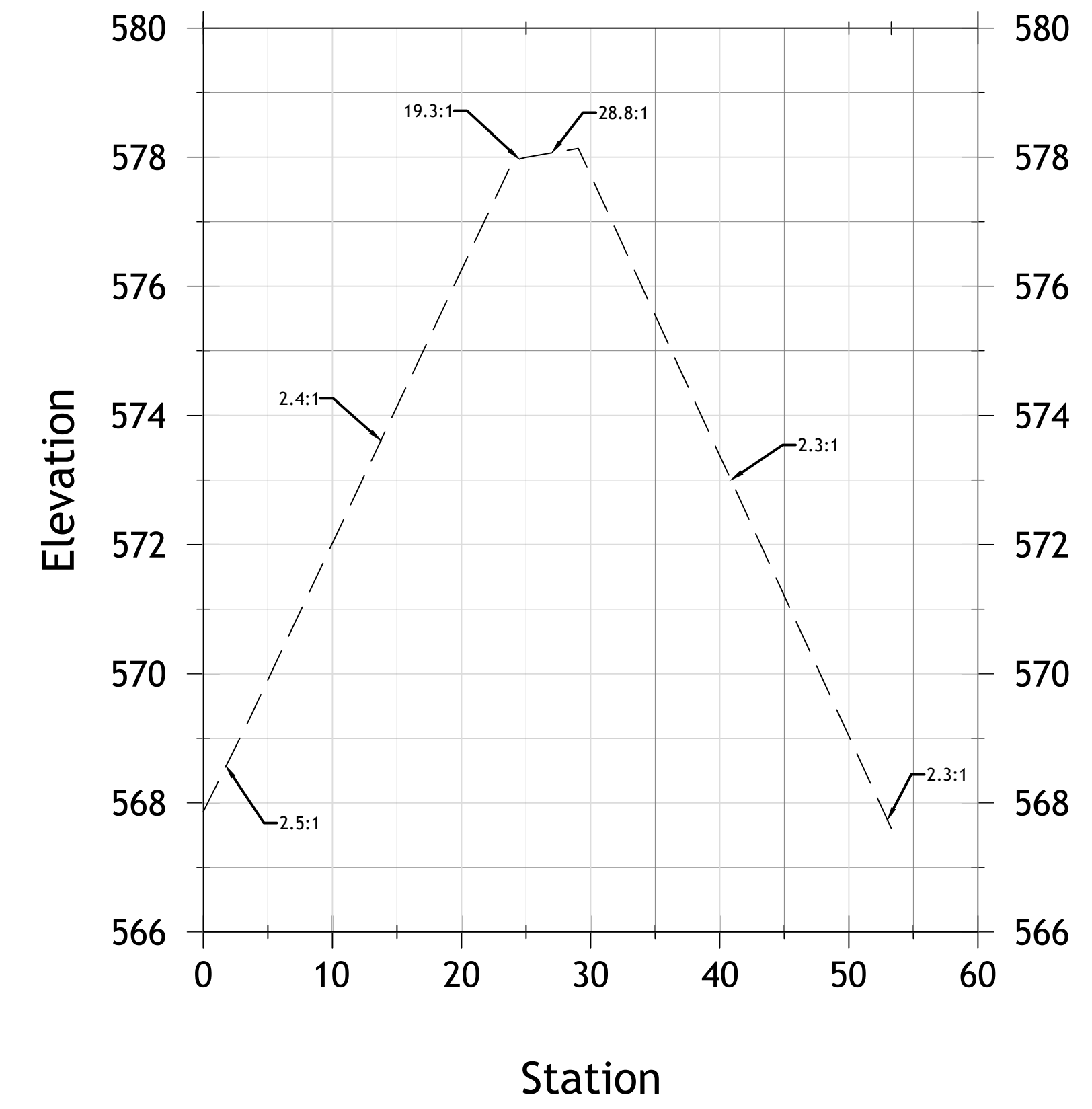
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CE25



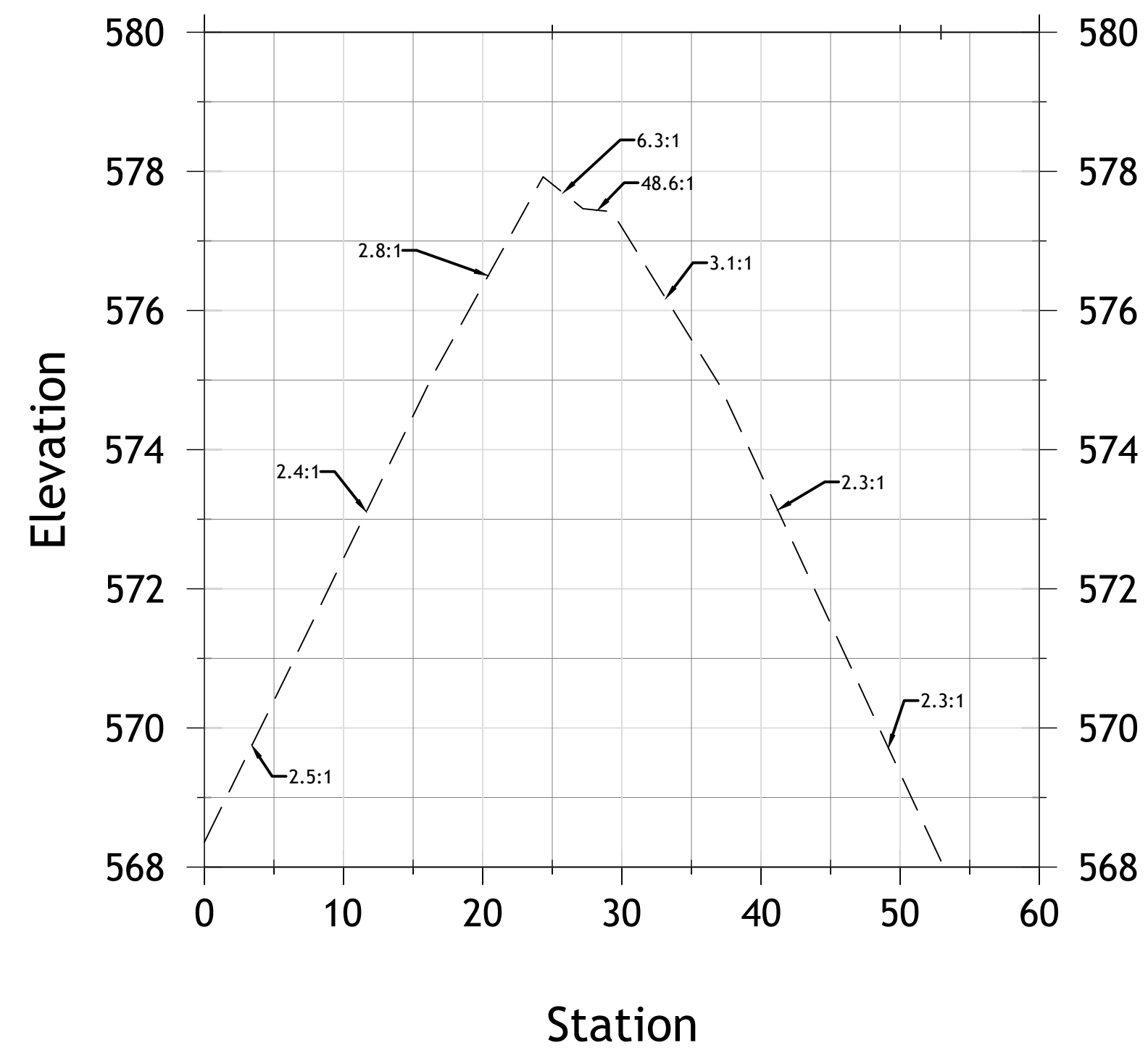
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ARMOR SHOAL G 7+00

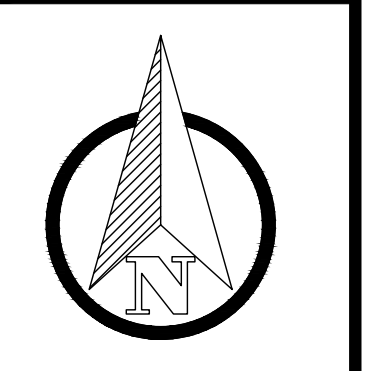


ARMOR SHOAL G 7+50



PROJECT NUMBER:  
52318  
DATE:  
10/21/19  
SCALE:  
1"=10'  
DESIGNED BY:  
DRAWN BY:  
JAB  
CHECKED BY:  
APPROVED BY:

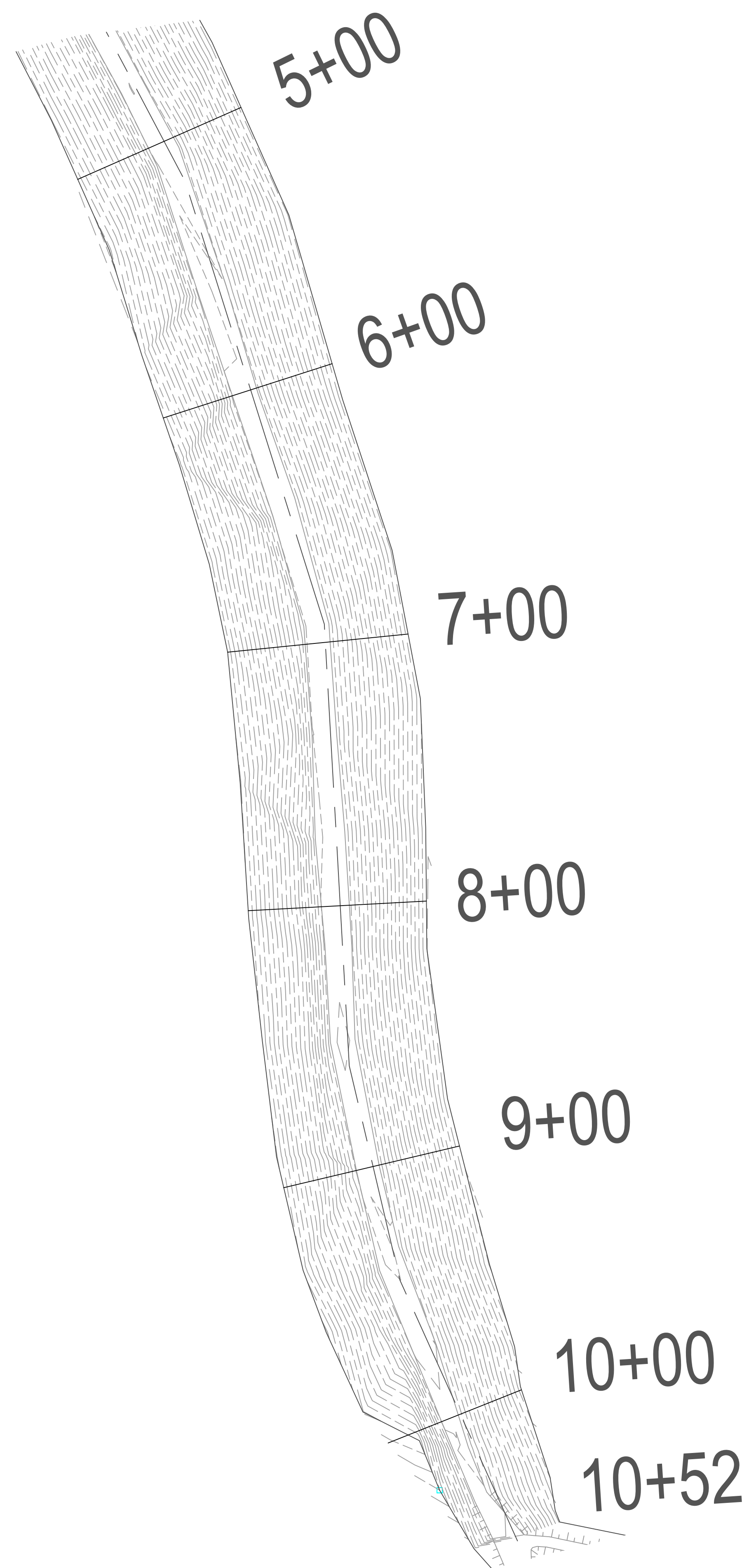
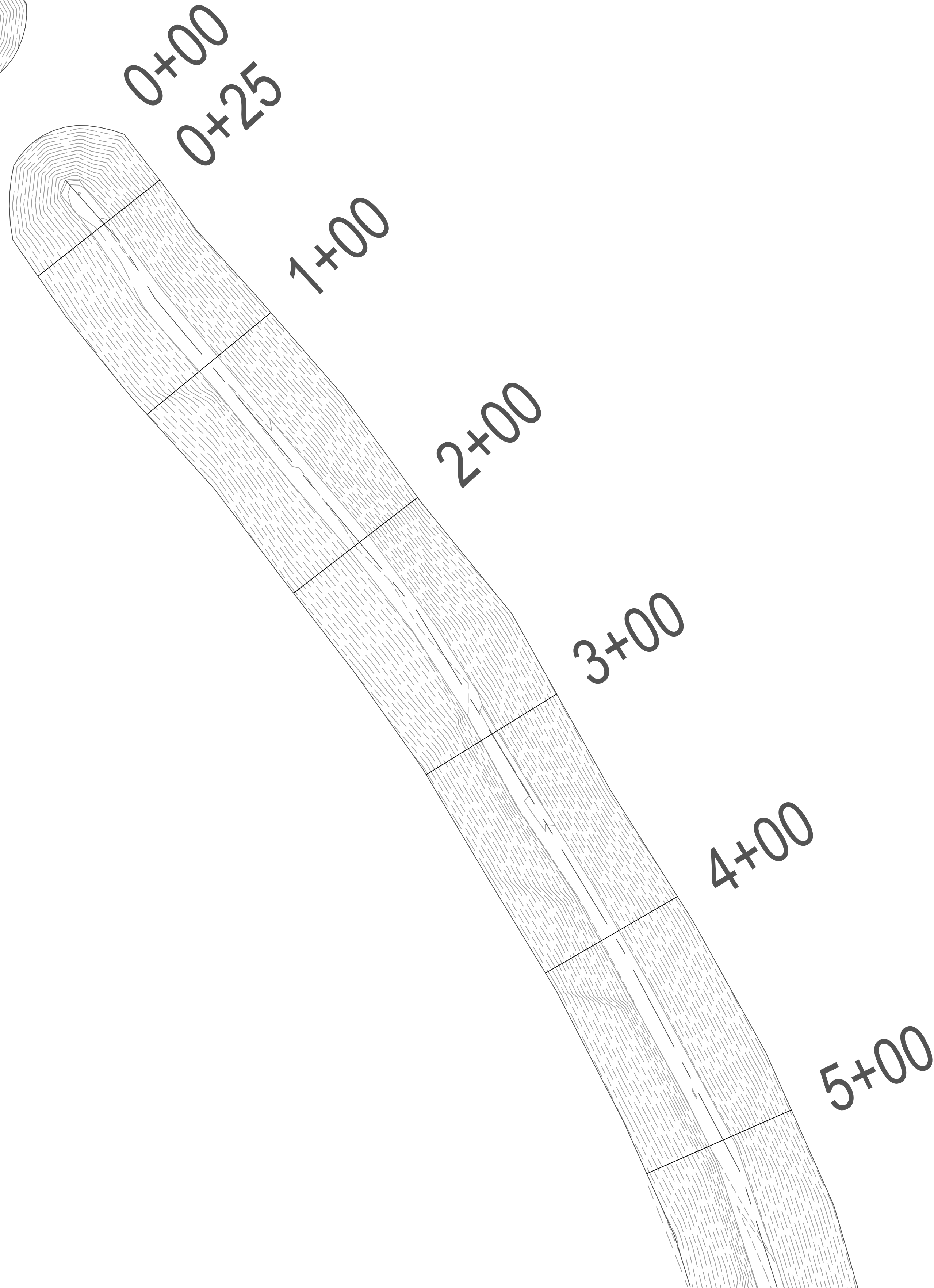
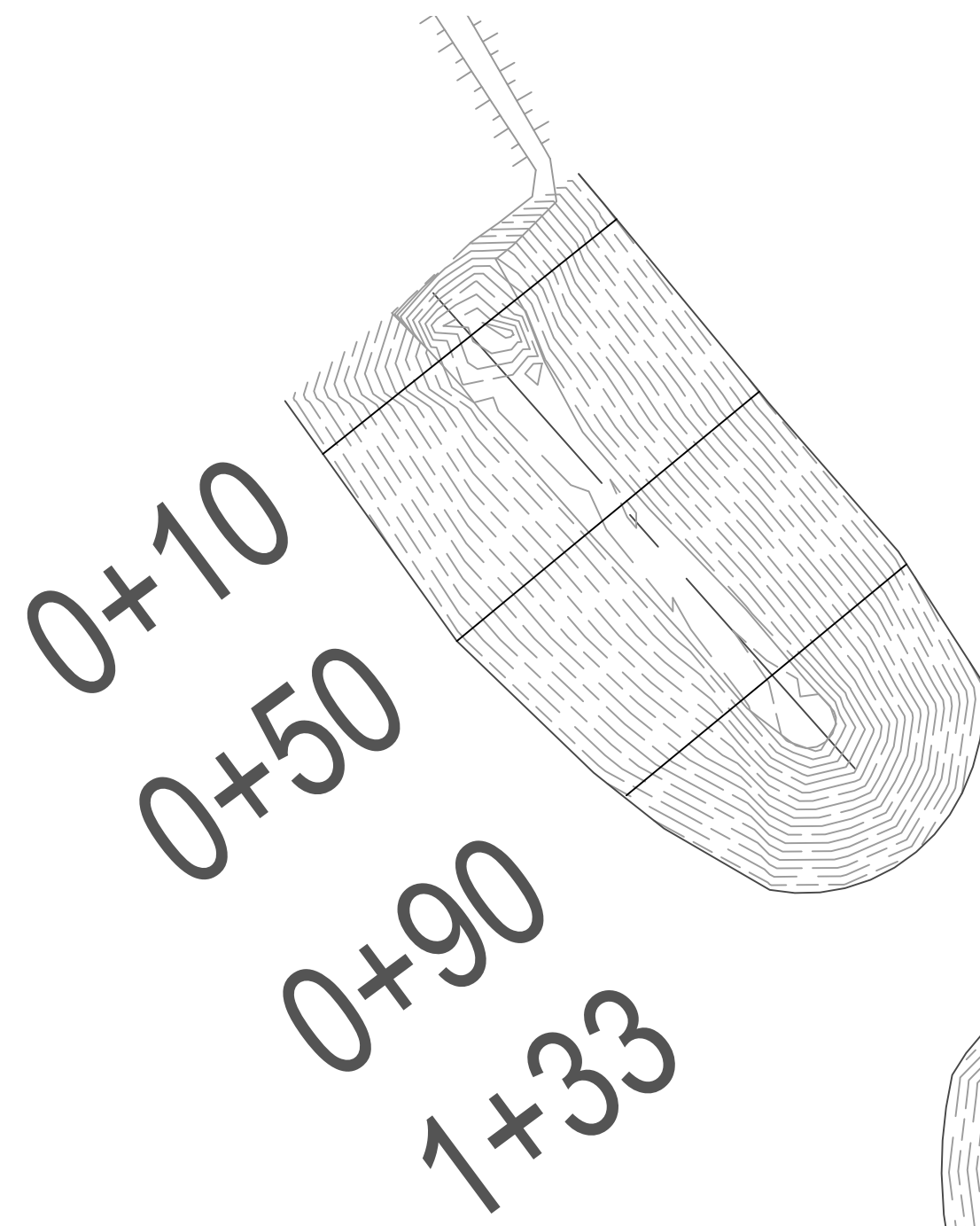
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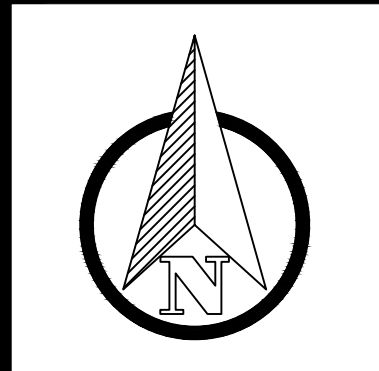
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AS-BUILTS  
CELERON ISLAND HABITAT RESTORATION  
SHOAL G ARMOR STONE  
THE DETROIT RIVER  
WAYNE COUNTY, MICHIGAN

SHEET  
CE26



PROJECT NUMBER:  
52318  
DATE:  
10/31/19  
SCALE:  
1"=20'  
DESIGNED BY:  
DRAWN BY:  
JAB  
CHECKED BY:  
APPROVED BY:

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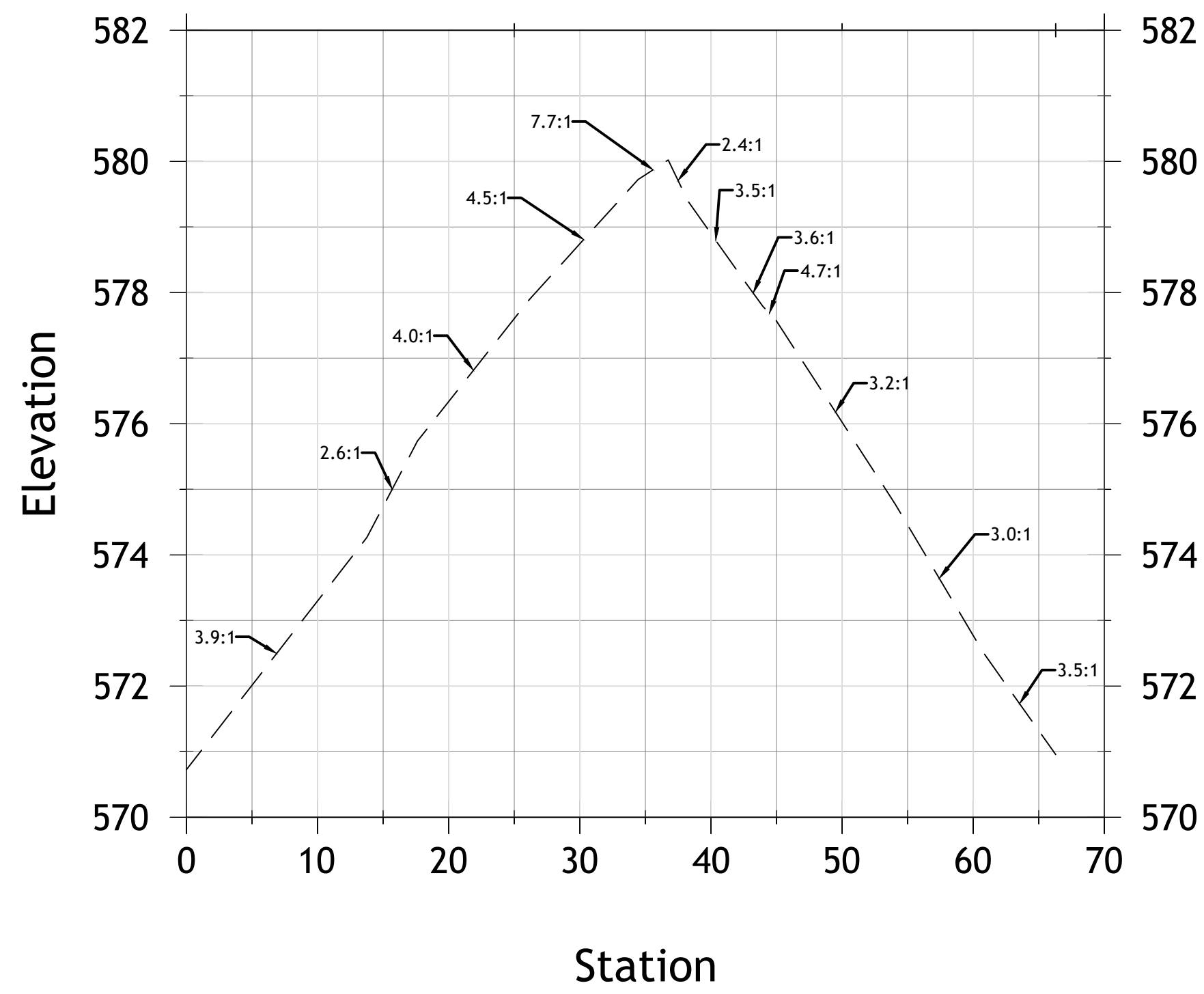


TITLE  
**AS-BUILTS**  
CELERON ISLAND HABITAT RESTORATION  
NORTH SHOAL / EXT. ARMOR STONE  
THE DETROIT RIVER  
WAYNE COUNTY, MICHIGAN

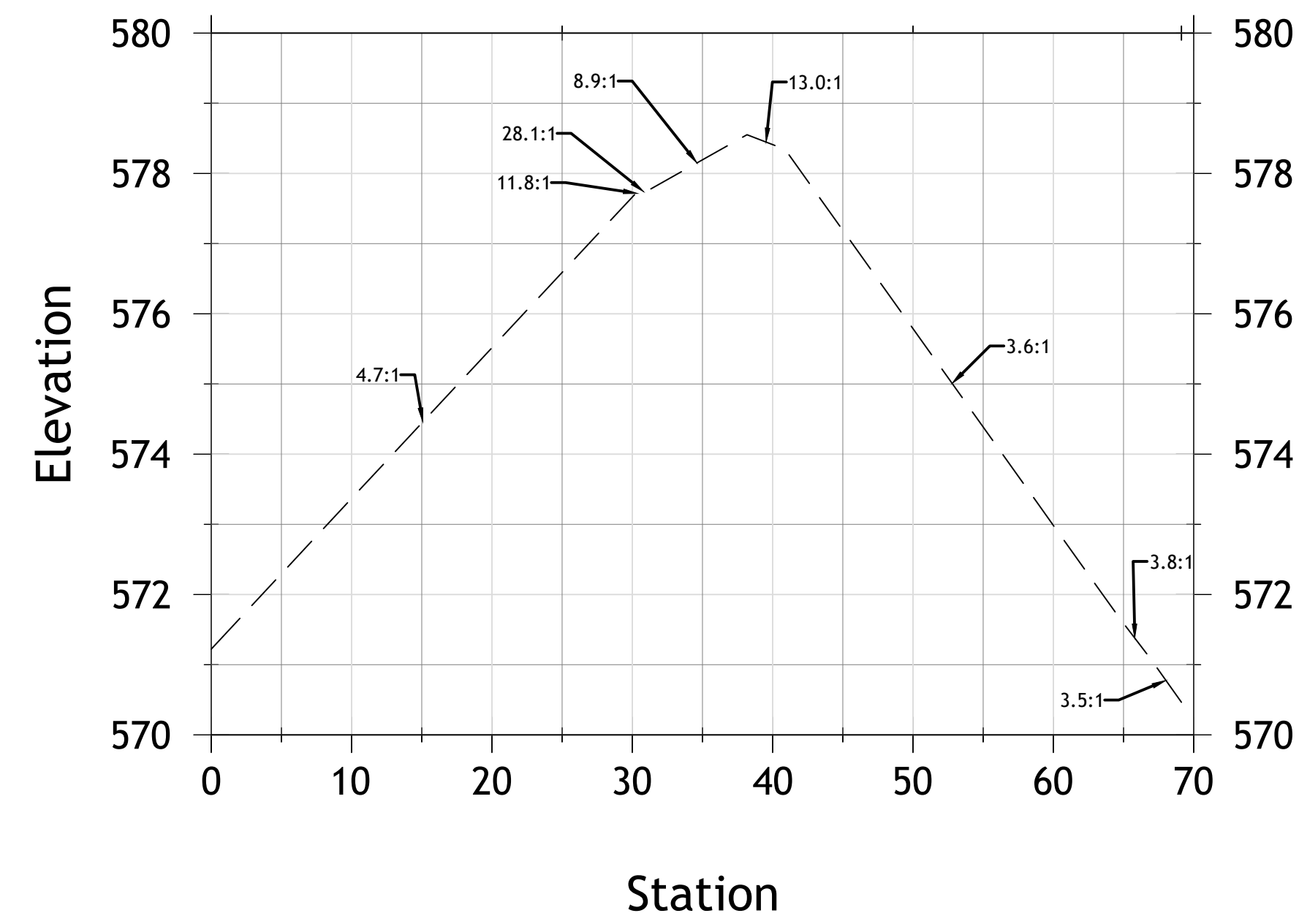
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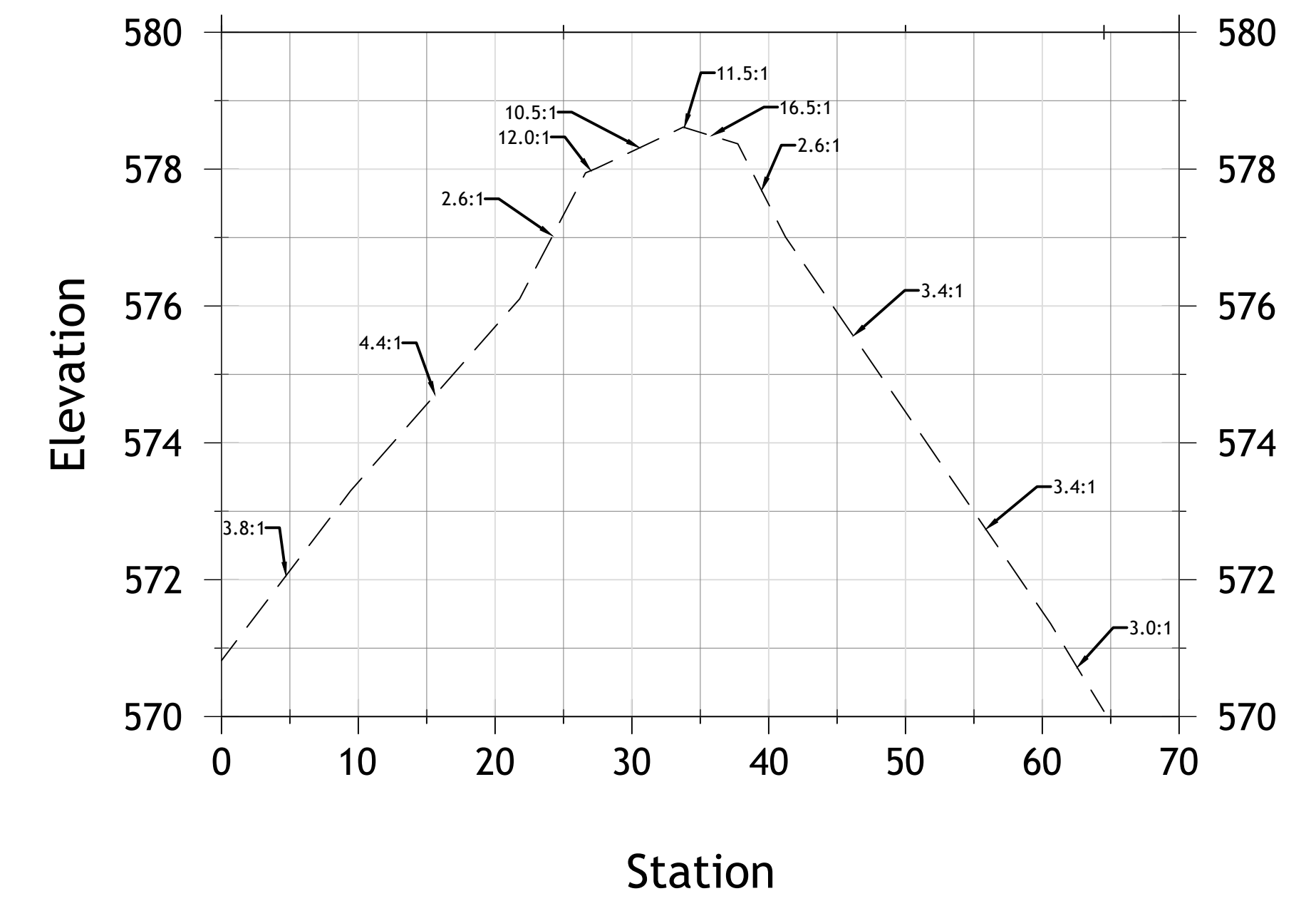
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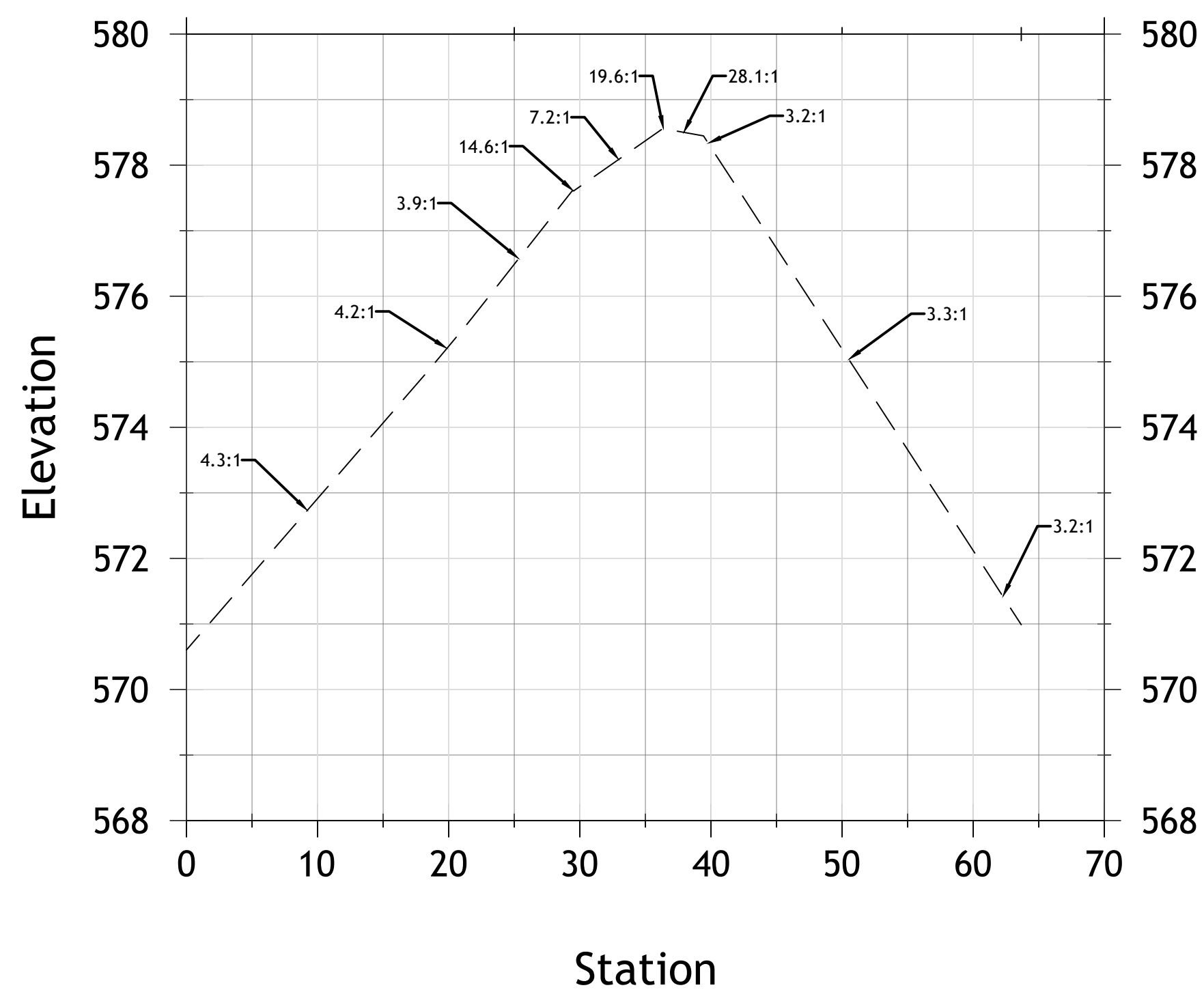
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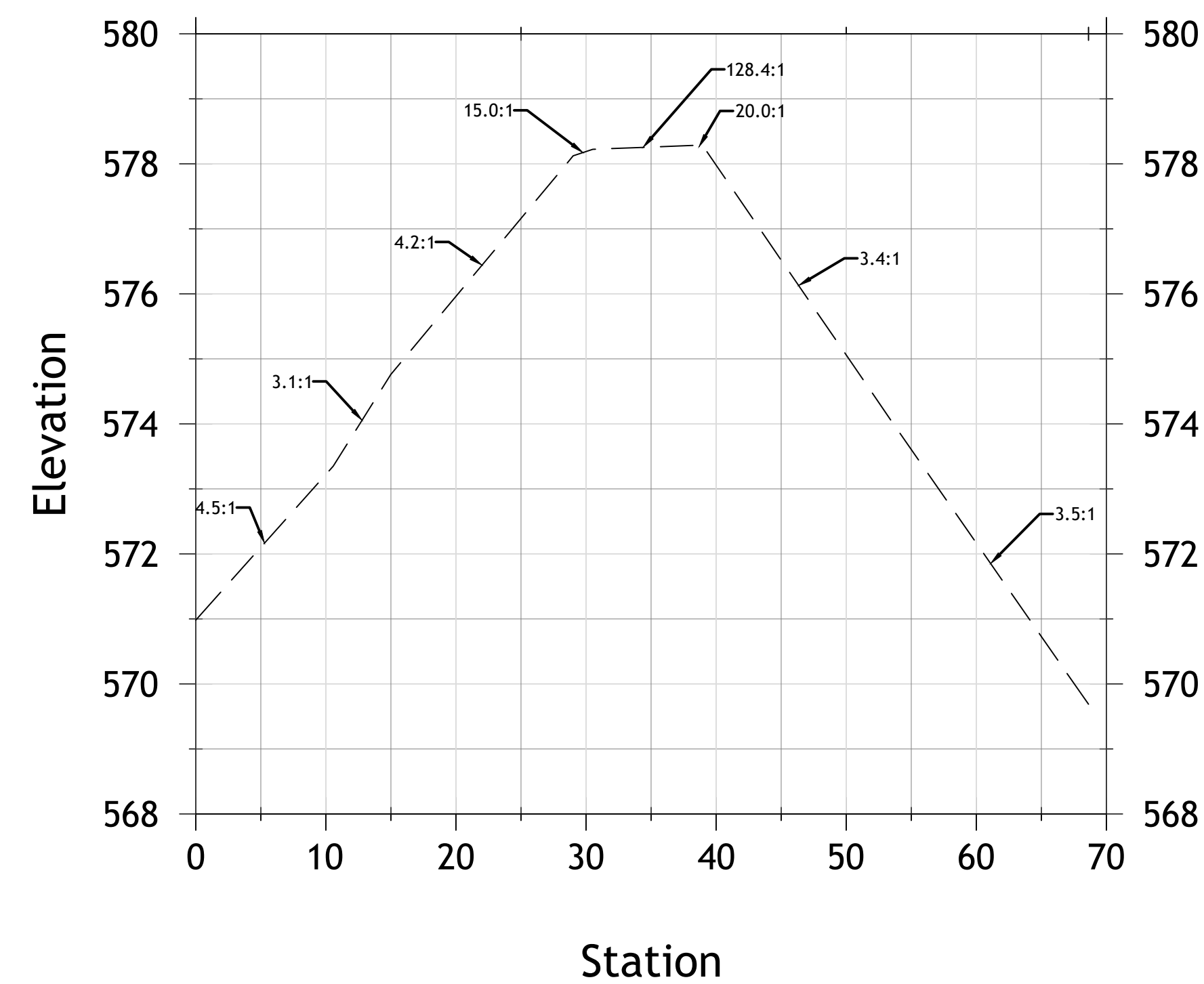
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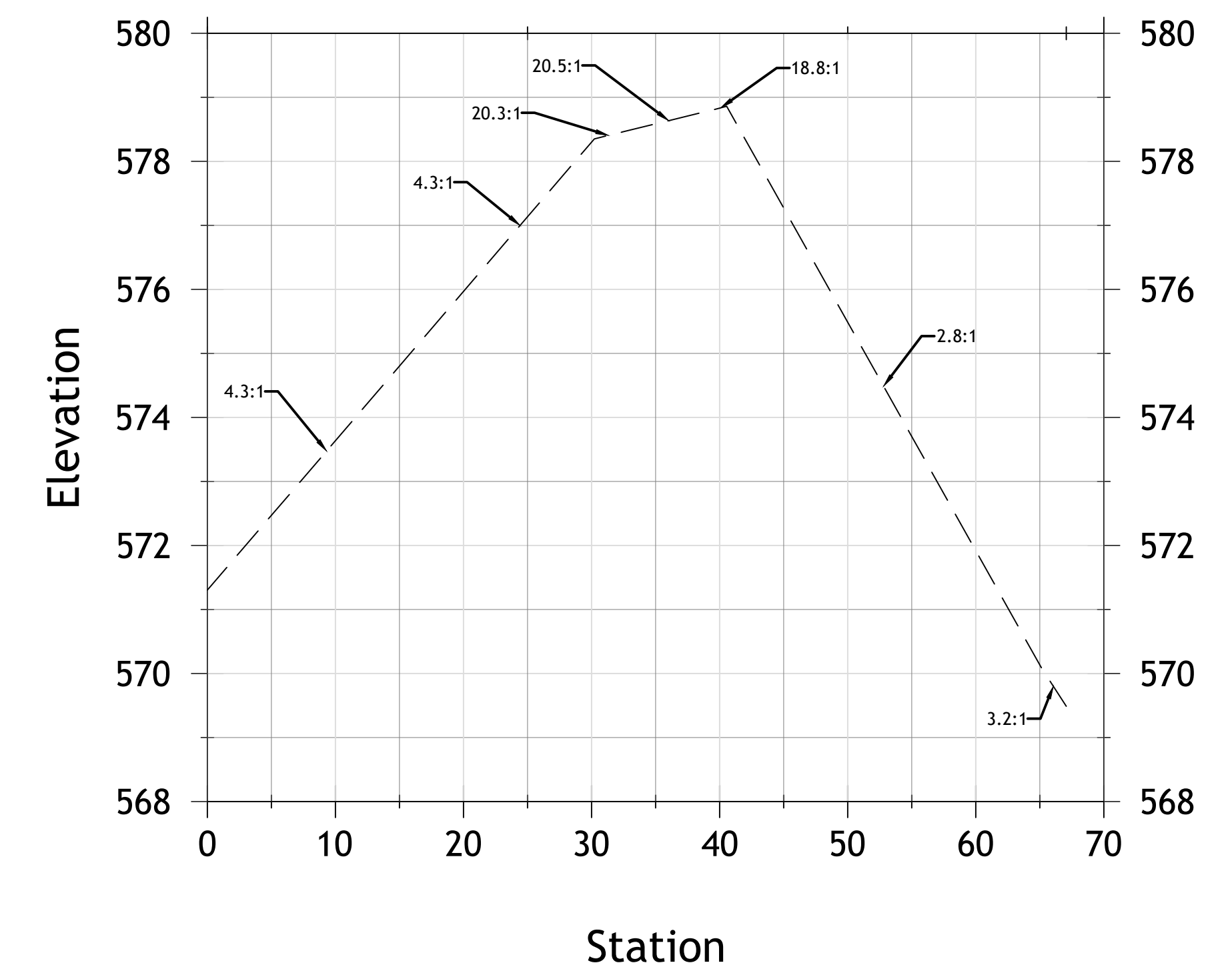
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NORTH ISLAND ARMOR 1+00

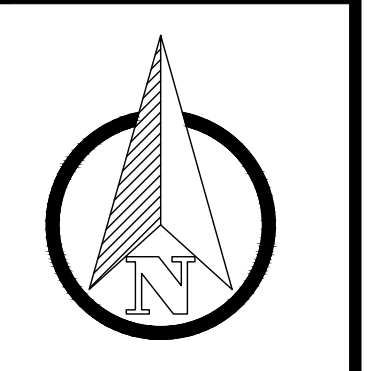


NORTH ISLAND ARMOR 2+00



PROJECT NUMBER:  
52318  
DATE:  
10/21/19  
SCALE:  
1"=10'  
DESIGNED BY:  
DRAWN BY:  
JAB  
CHECKED BY:  
APPROVED BY:

REVISIONS

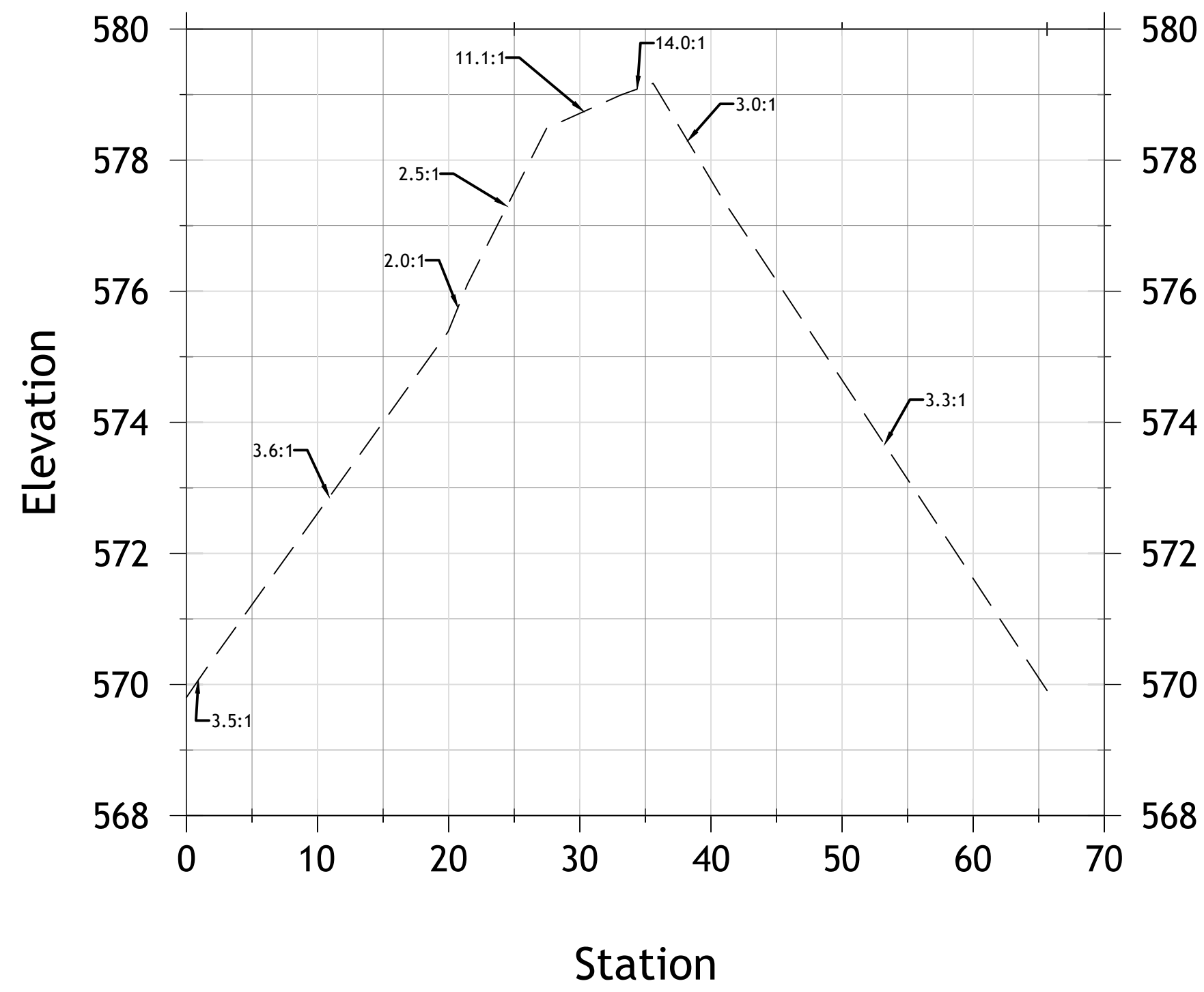



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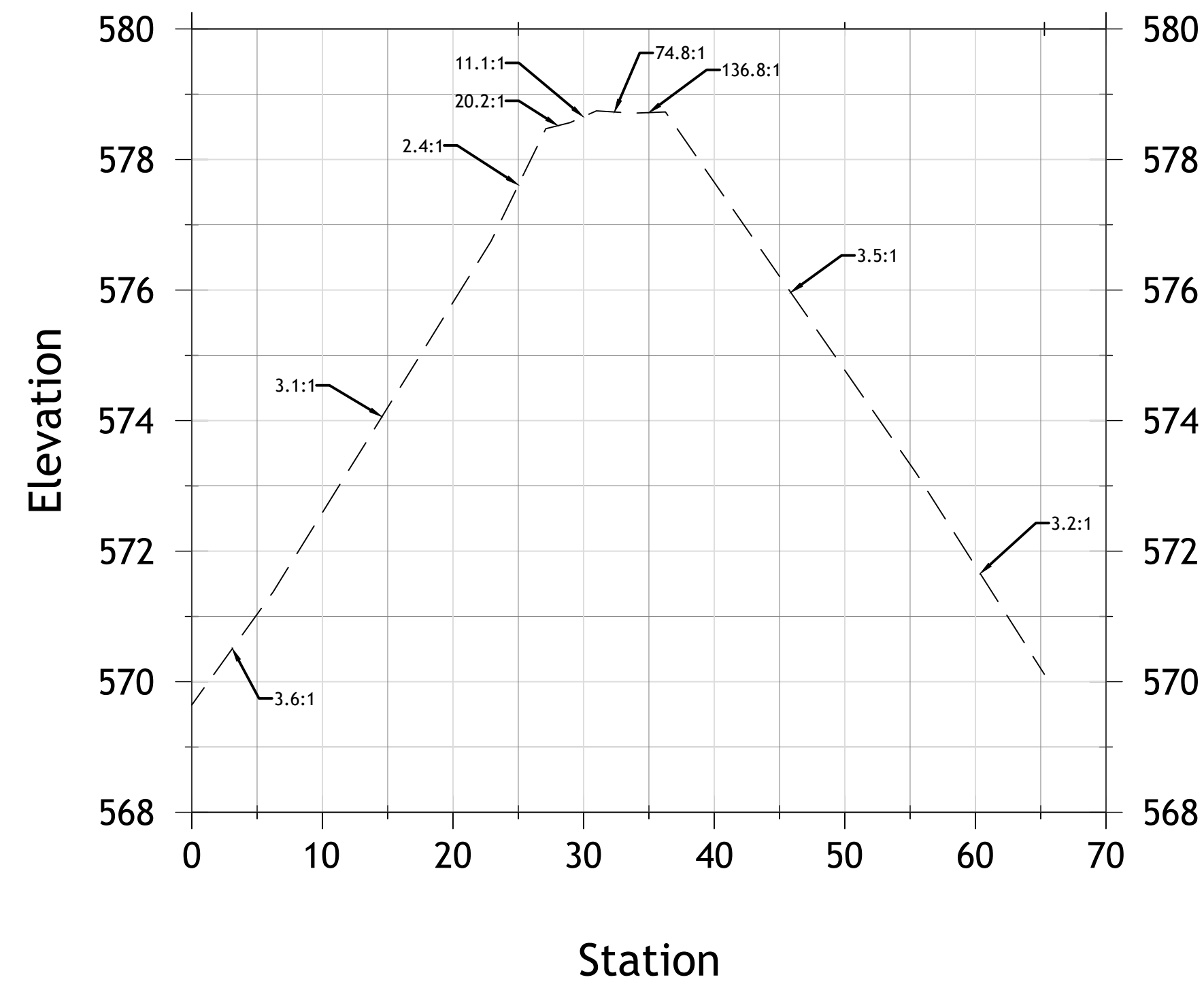
AS-BUILTS  
TITLE  
CELERON ISLAND HABITAT RESTORATION  
NORTH ISLAND SHOAL ARMOR STONE  
THE DETROIT RIVER  
WAYNE COUNTY, MICHIGAN

SHEET  
CE28

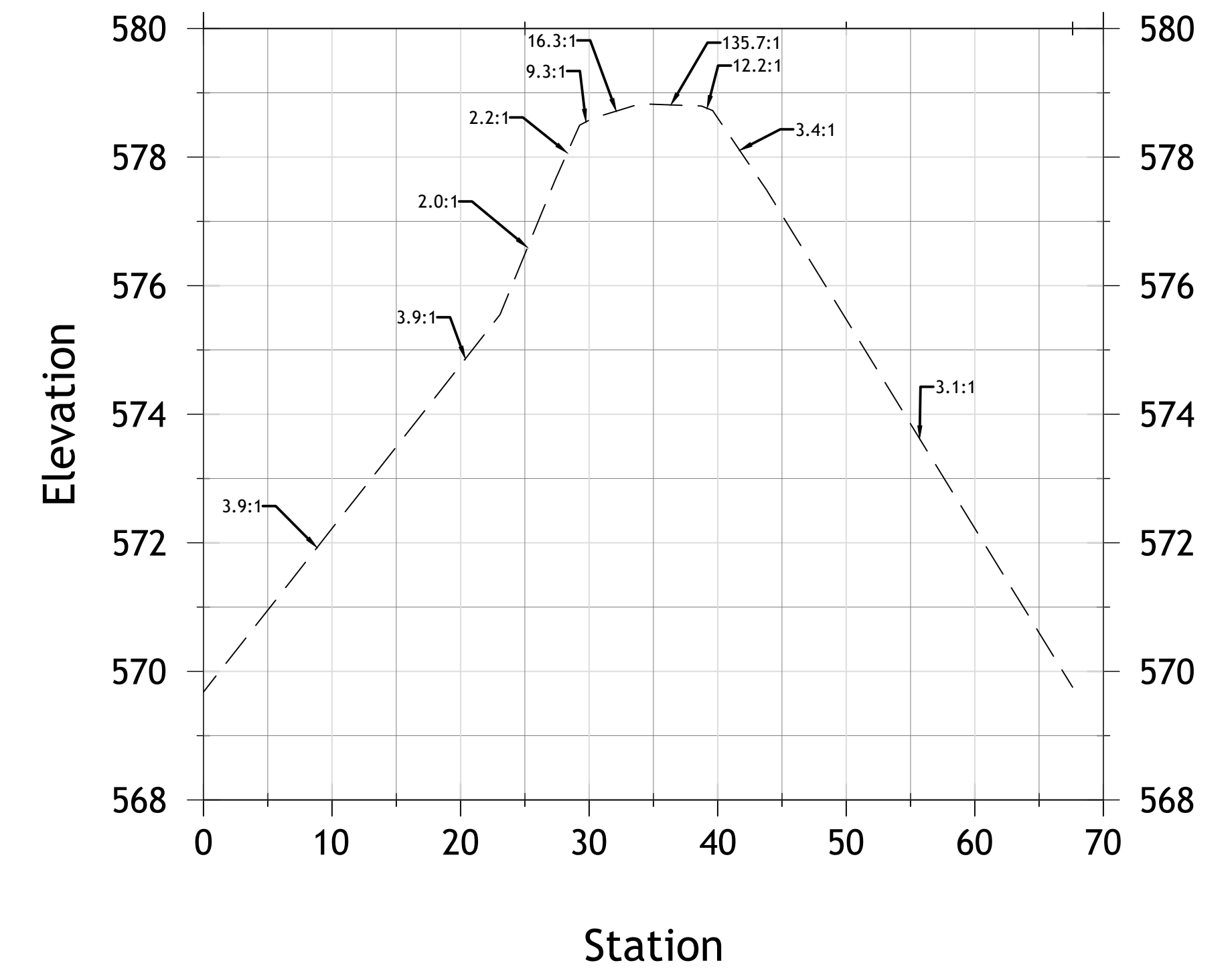
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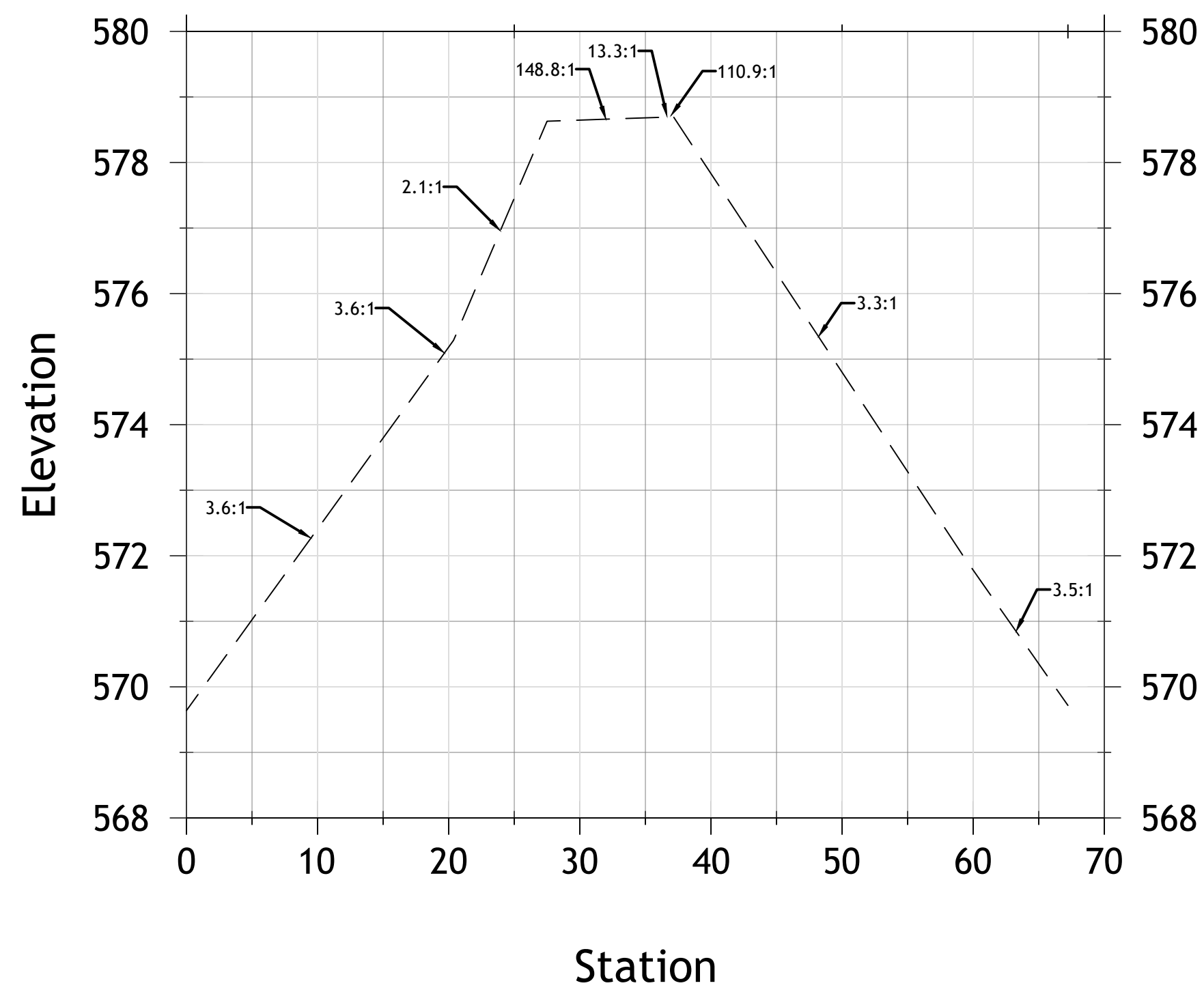
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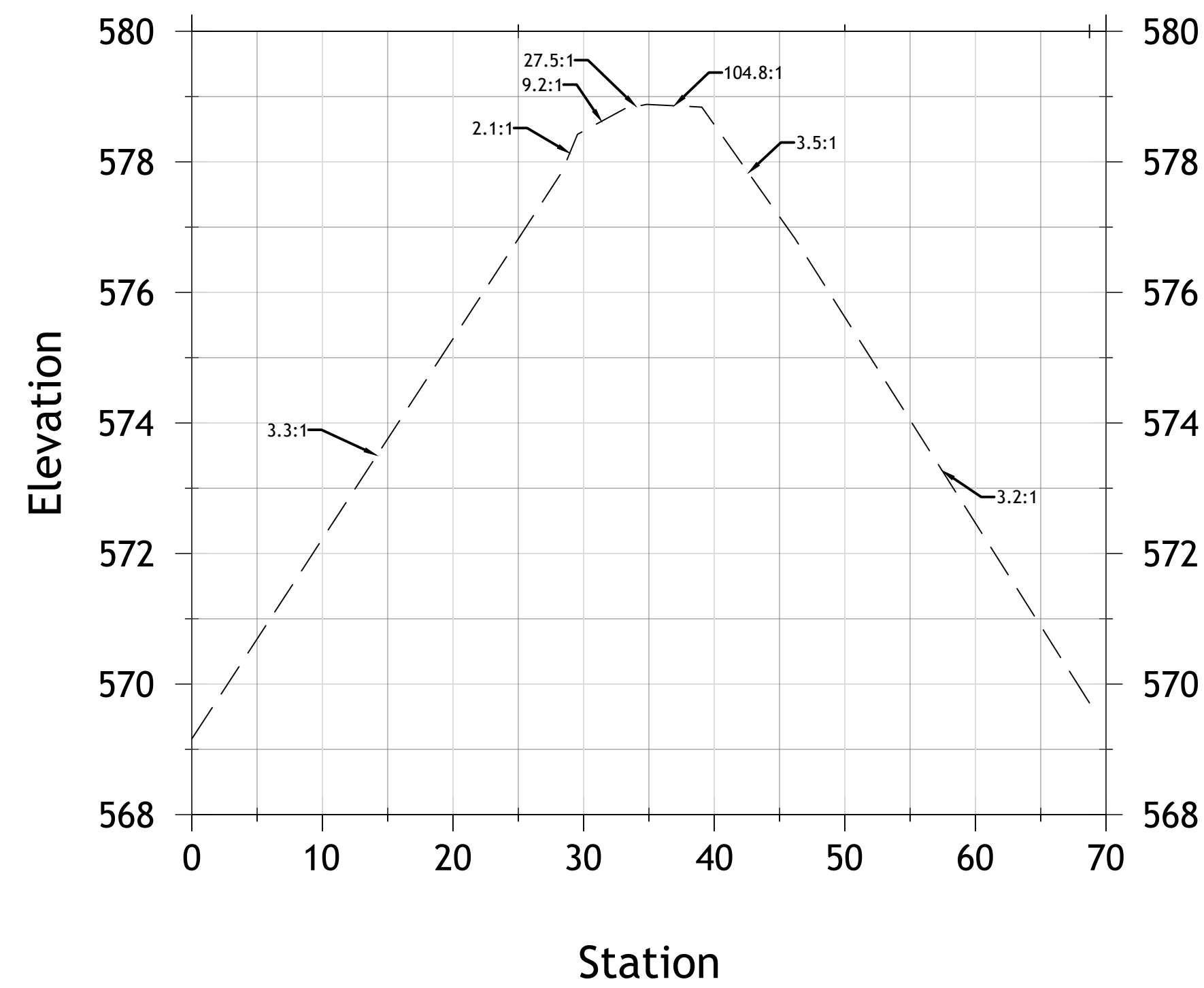
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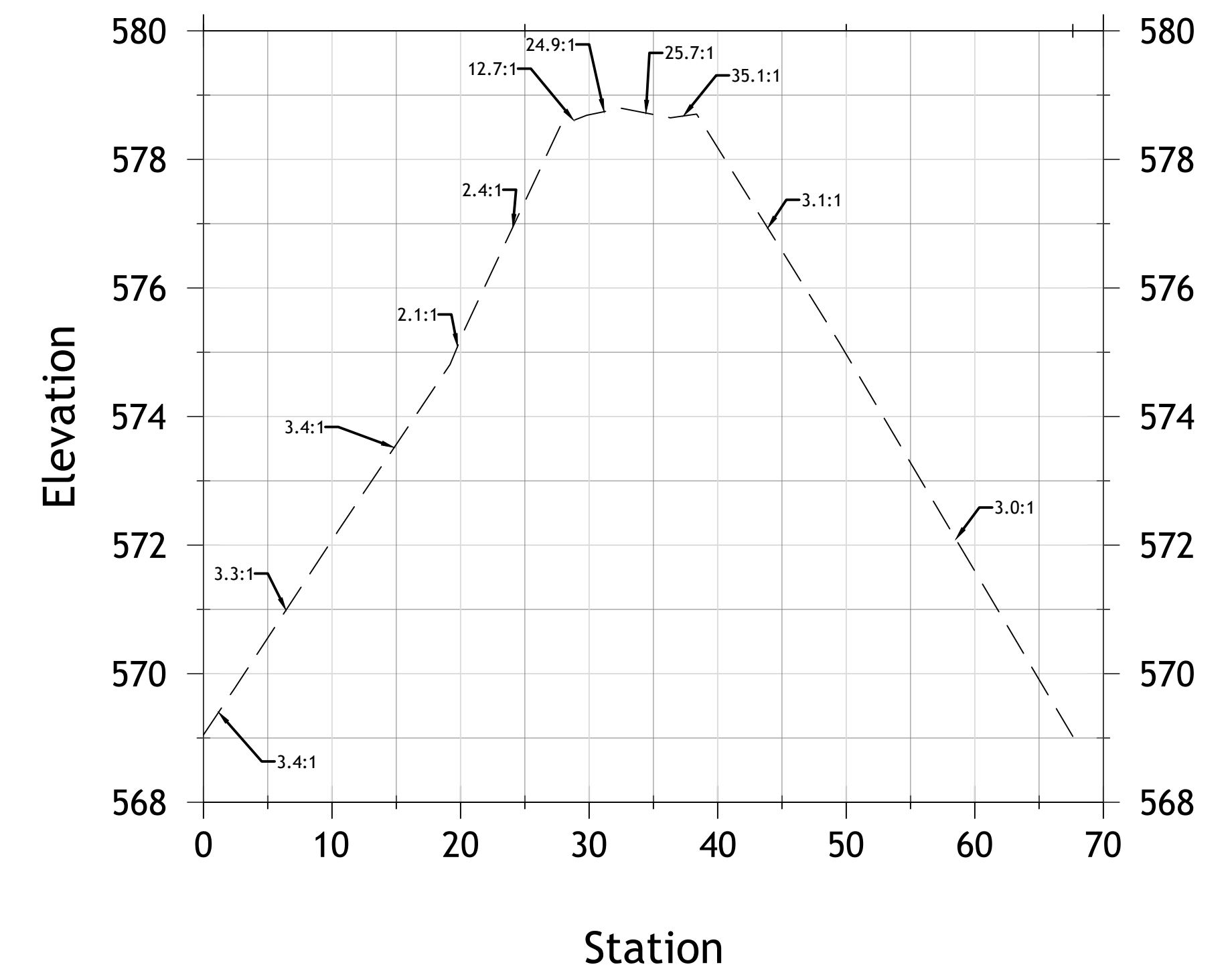
NORTH ISLAND ARMOR 6+00



NORTH ISLAND ARMOR 7+00

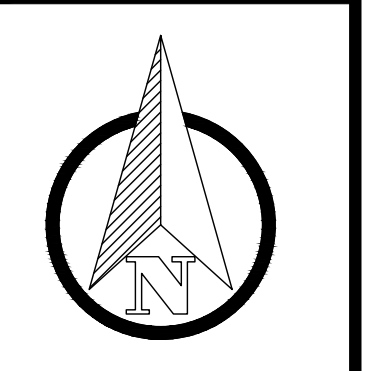


NORTH ISLAND ARMOR 8+00



PROJECT NUMBER:  
52318  
DATE:  
10/21/19  
SCALE:  
1"=10'  
DESIGNED BY:  
DRAWN BY:  
JAB  
CHECKED BY:  
APPROVED BY:

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TITLE  
AS-BUILTS  
CELERON ISLAND HABITAT RESTORATION  
NORTH ISLAND SHOAL ARMOR STONE  
THE DETROIT RIVER  
WAYNE COUNTY, MICHIGAN

SHEET  
CE29





LABEL	X	Y	TYPE
MP1	13448751.14	211027.10	DOUBLE MUDPUPPY & MUSSEL STRUCTURE
MP2	13448031.13	211160.10	MUDPUPPY STRUCTURE
MP3	13447861.22	210987.98	MUDPUPPY STRUCTURE
MP4	13447951.41	210962.90	MUDPUPPY STRUCTURE
MP5	13448019.93	210934.59	MUDPUPPY STRUCTURE
MP6	13448090.29	210894.69	MUDPUPPY STRUCTURE
MP7	13448158.16	210868.97	MUDPUPPY STRUCTURE
MP8	13448228.81	210834.58	MUDPUPPY STRUCTURE
MP9	13448289.72	210809.53	MUDPUPPY STRUCTURE
MP10	13448397.42	210732.06	MUDPUPPY STRUCTURE
MP11	13448607.09	210592.65	MUDPUPPY STRUCTURE

LABEL	X	Y	TYPE
LB1	13448824.89	211432.98	LOG BUNDLE
LB2	13448846.13	211414.27	LOG BUNDLE
LB3	13448871.12	211417.11	LOG BUNDLE
LB4	13448813.88	211199.27	LOG BUNDLE
LB5	13448824.42	211229.57	LOG BUNDLE
LB6	13448840.77	211167.83	LOG BUNDLE
LB7	13448564.35	211012.65	LOG BUNDLE
LB8	13448531.94	211003.67	LOG BUNDLE
LB9	13448292.75	211154.07	LOG BUNDLE
LB10	13448260.96	211136.94	LOG BUNDLE
LB11	13447965.29	211267.83	LOG BUNDLE
LB12	13448004.54	211262.86	LOG BUNDLE
LB13	13447942.21	211247.72	LOG BUNDLE

LABEL	X	Y	TYPE
HL1	13447859.03	210981.72	HABITAT LOG
HL2	13447891.76	210968.14	HABITAT LOG
HL3	13447925.83	210956.86	HABITAT LOG
HL4	13447959.99	210943.38	HABITAT LOG
HL5	13447996.92	210928.45	HABITAT LOG
HL6	13448027.34	210911.16	HABITAT LOG
HL7	13448059.47	210894.70	HABITAT LOG
HL8	13448102.91	210879.08	HABITAT LOG
HL9	13448130.18	210865.58	HABITAT LOG
HL10	13448169.68	210848.83	HABITAT LOG
HL11	13448200.70	210835.71	HABITAT LOG
HL12	13448243.12	210823.54	HABITAT LOG
HL13	13448269.56	210807.07	HABITAT LOG
HL14	13448305.36	210791.72	HABITAT LOG

**LEGEND**

- HABITAT LOG
- MUD PUPPY HABITAT
- PLANTED TREE

PROJECT NUMBER:  
**52318**

DATE:  
**10/31/19**

SCALE:  
**1"=40'**

DESIGNED BY:

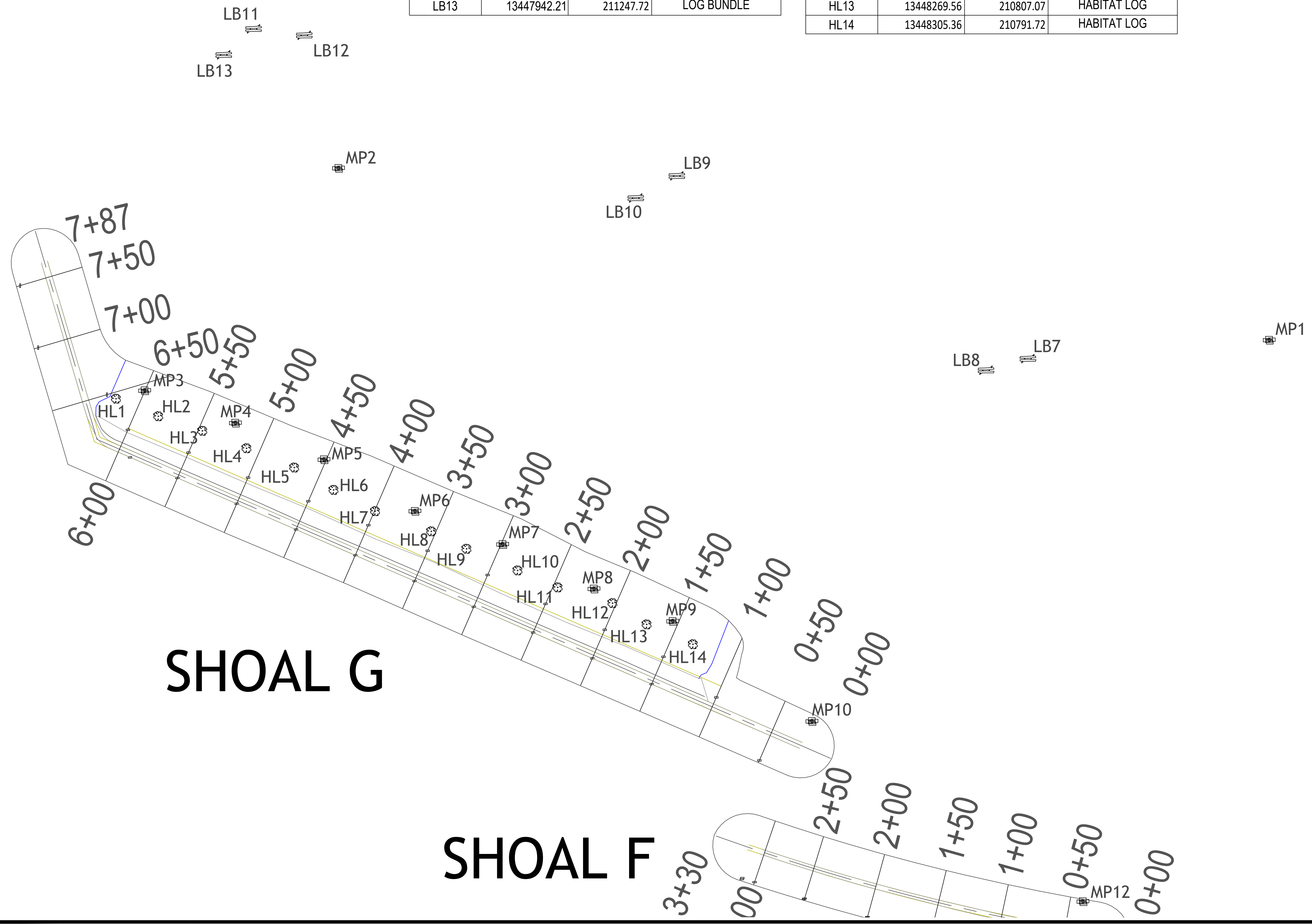
DRAWN BY:  
**JAB**

CHECKED BY:

APPROVED BY:

**REVISIONS**

NO.	DATE	DESCRIPTION



**SHOAL G**

**SHOAL F**

**ENGINEERING FOR RESULTS**  
 13500 REECK ROAD  
 SOUTHGATE, MI 48195  
 (734) 759-1600  
 FAX (734) 282-6566  
 WWW.HENNESSEYENGINEERS.COM

**HENNESSEY ENGINEERS, INC.**

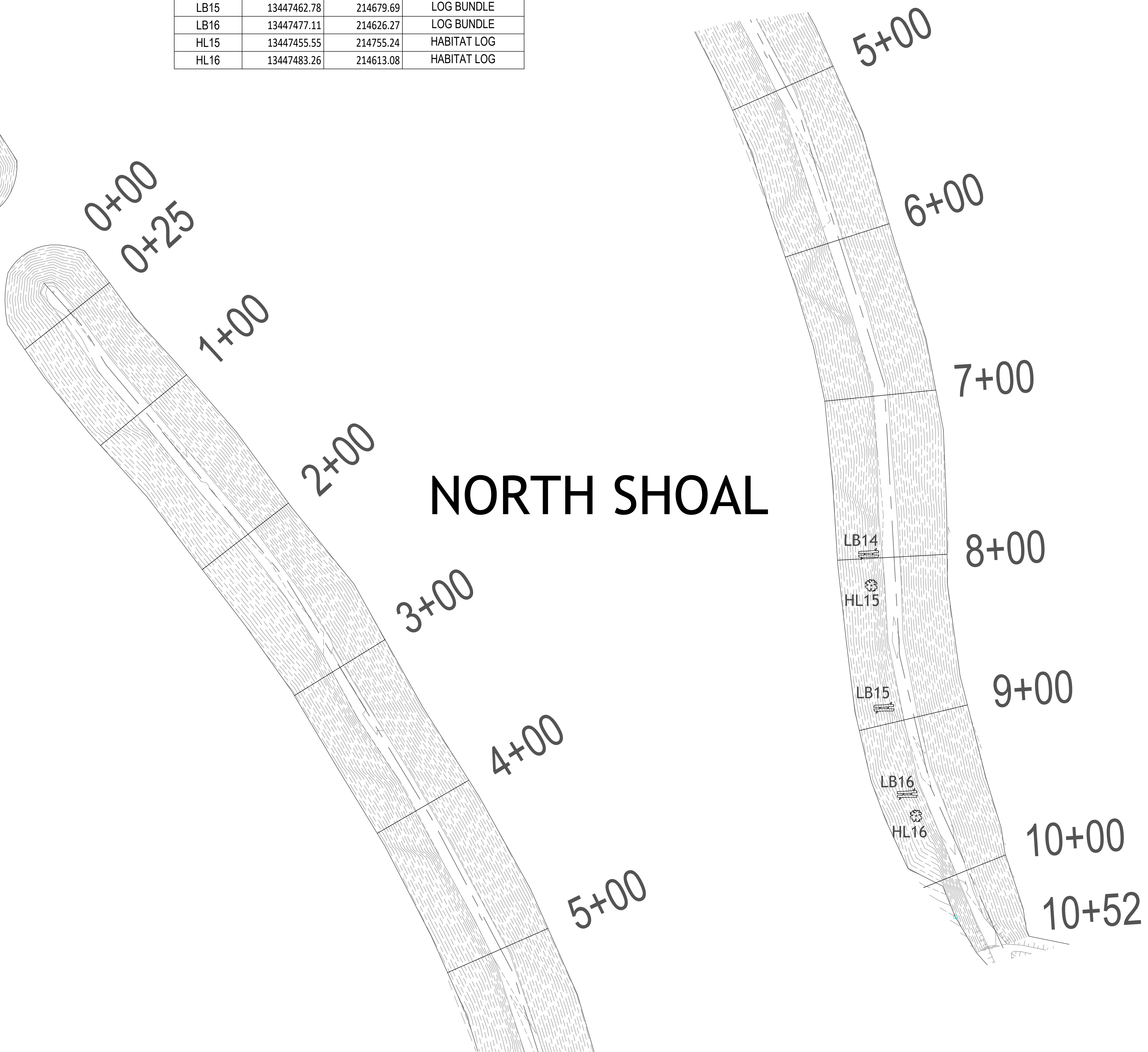
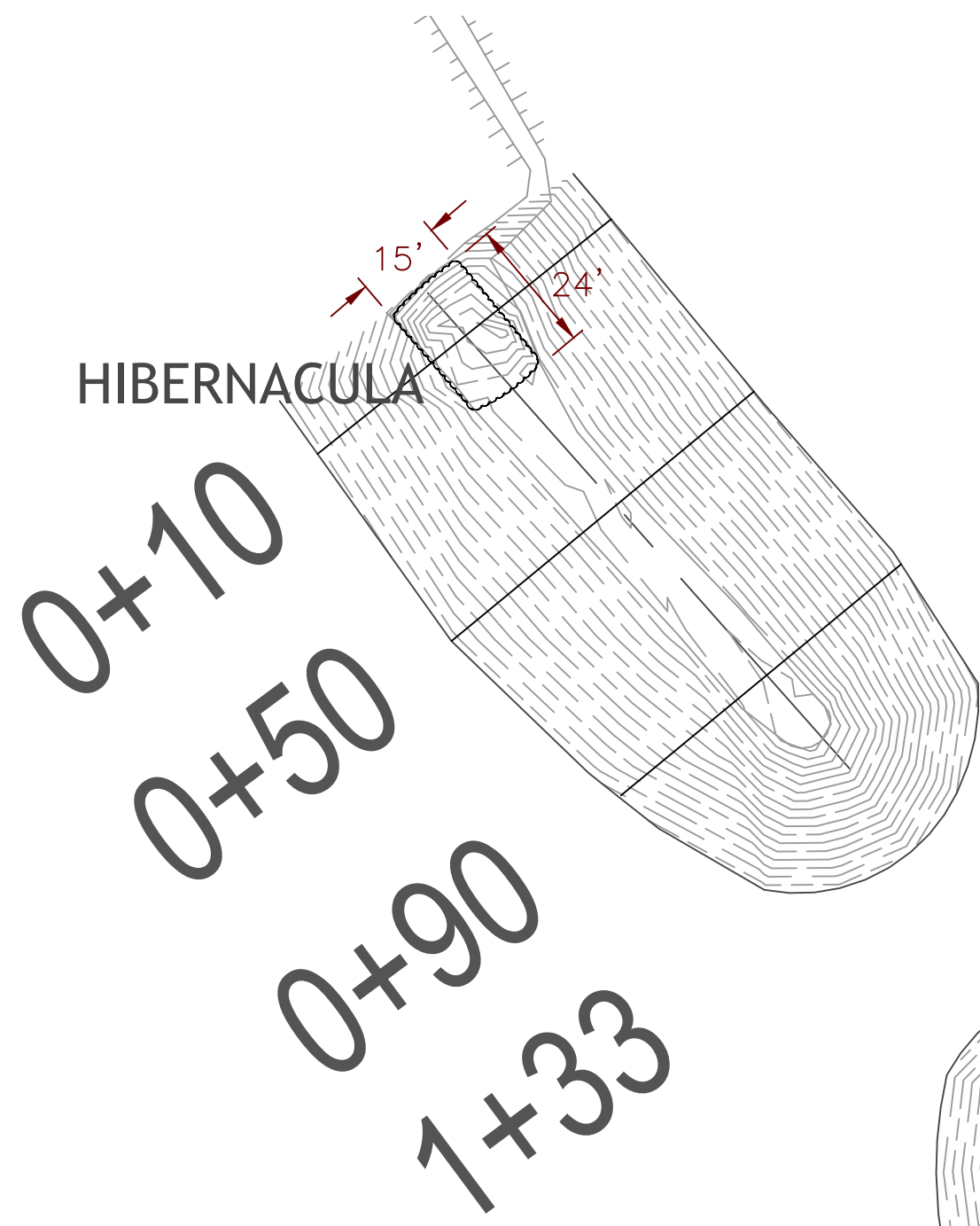
**TITLE**  
**AS-BUILTS**  
 CELERON ISLAND HABITAT RESTORATION  
 ADDITIONAL HABITAT AREAS  
 THE DETROIT RIVER  
 WAYNE COUNTY, MICHIGAN

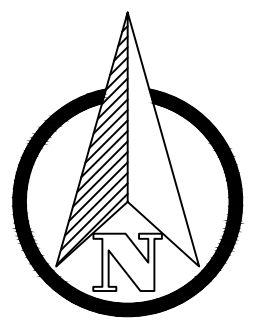

**SHEET**  
**CE31**



LABEL	X	Y	TYPE
LB14	13447453.41	214774.52	LOG BUNDLE
LB15	13447462.78	214679.69	LOG BUNDLE
LB16	13447477.11	214626.27	LOG BUNDLE
HL15	13447455.55	214755.24	HABITAT LOG
HL16	13447483.26	214613.08	HABITAT LOG

LEGEND  
 HABITAT LOG  
 HABITAT BUNDLE



PROJECT NUMBER: 52318  
DATE: 10/31/19  
SCALE: 1"=30'  
DESIGNED BY:  
DRAWN BY: JAB  
CHECKED BY:  
APPROVED BY:  
REVISIONS  
  
ENGINEERING FOR RESULTS  
13500 REECK ROAD  
SOUTHGATE, MI 48195  
(734) 759-1600  
FAX (734) 282-6566  
WWW.HENNESSEYENGINEERS.COM  
 HENNESSEY ENGINEERS, INC.  
**AS-BUILTS**  
**TITLE** CELERON ISLAND HABITAT RESTORATION  
ADDITIONAL HABITAT AREAS  
THE DETROIT RIVER  
WAYNE COUNTY, MICHIGAN  
**SHEET**  
**CE32**