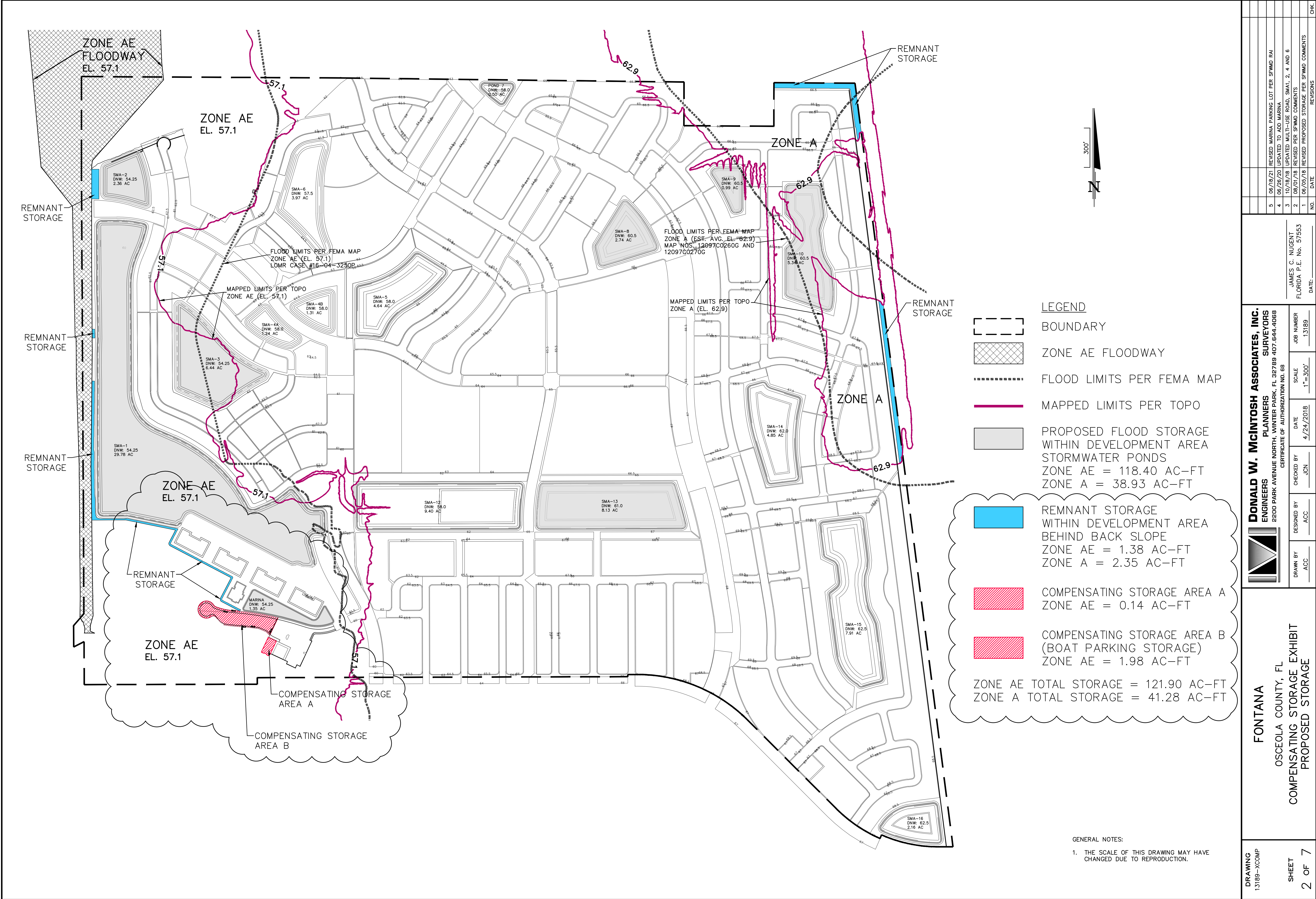


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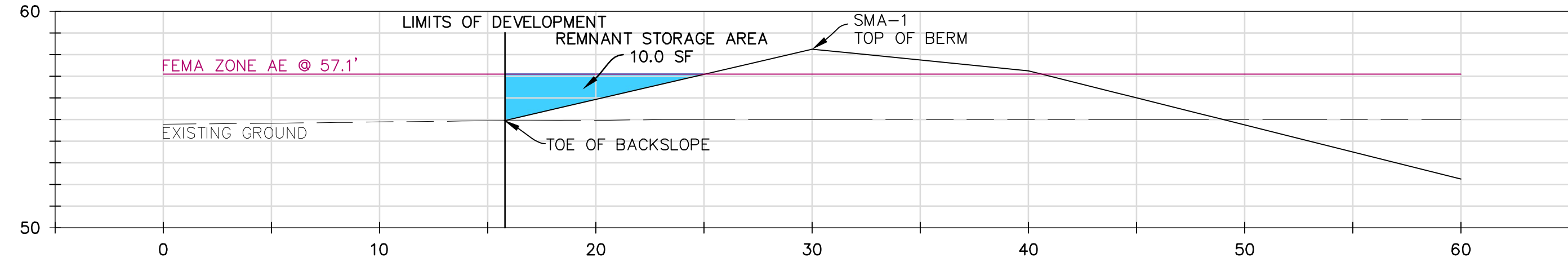
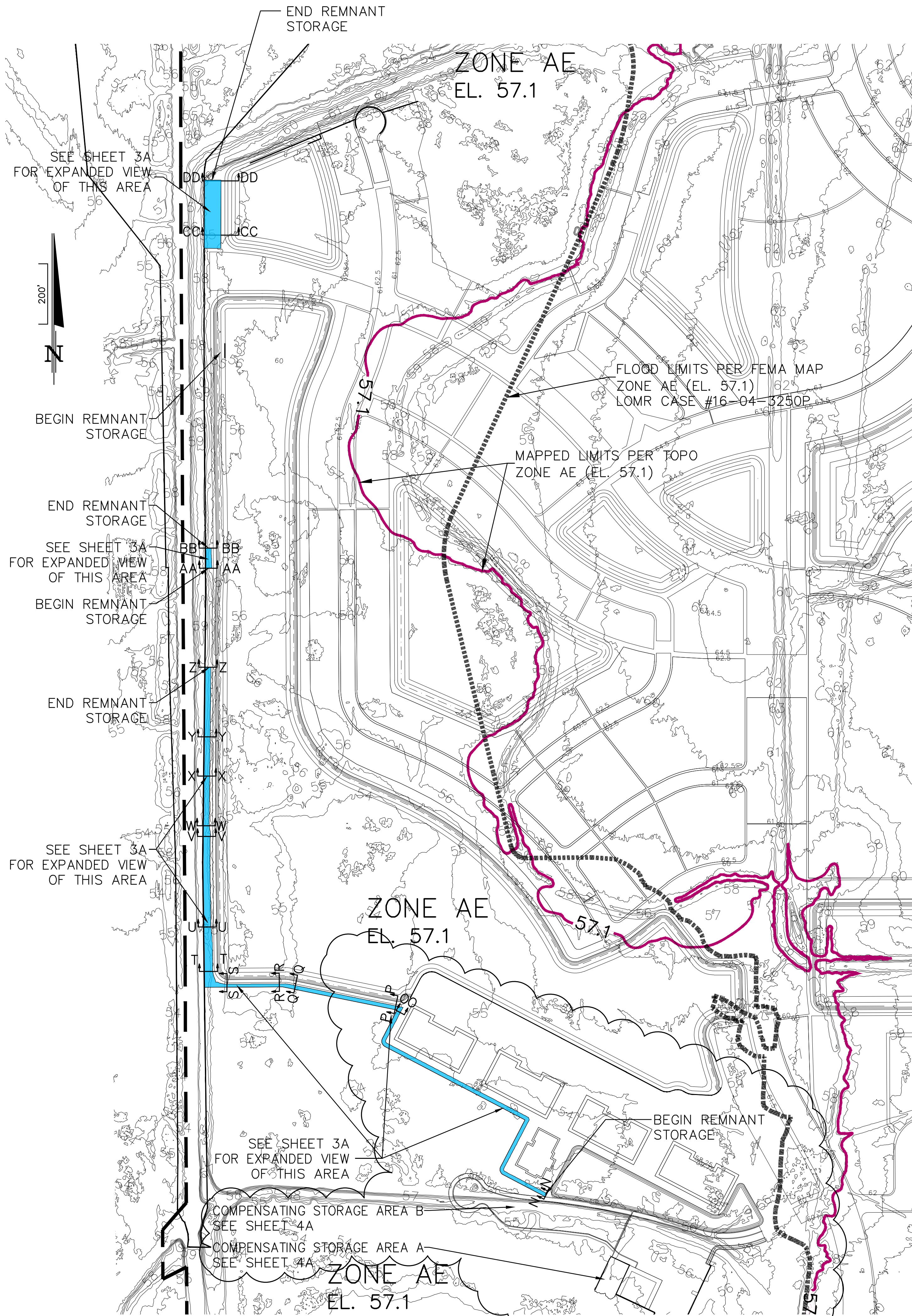


DRAWING 13189-XCOMP	FONTANA OSCEOLA COUNTY, FL COMPENSATING STORAGE EXHIBIT EXISTING STORAGE	 DONALD W. MCINTOSH ASSOCIATES, INC. ENGINEERS 2800 PARK AVENUE NORTH, WINTER PARK, FL 32789 407.644.4088 CERTIFICATE OF AUTHORIZATION NO. 68	DESIGNED BY ACC	CHECKED BY JCN	DATE 4/24/2018	SCALE 1"=300'	JOB NUMBER 13189	JAMES C. NUGENT FLORIDA P.E. No. 57553 DATE: _____	REVISIONS		
									NO.	DATE	CHK.
									1	08/07/18	REVISED PER SFMD COMMENTS
									2	10/18/18	UPDATED MULTI-USE ROAD, SMAI, 2, 4 AND 6
3	06/26/20	UPDATED TO ADD MARINA									
4	06/18/21	REVISED MARINA PARKING LOT PER SFMD RAI									

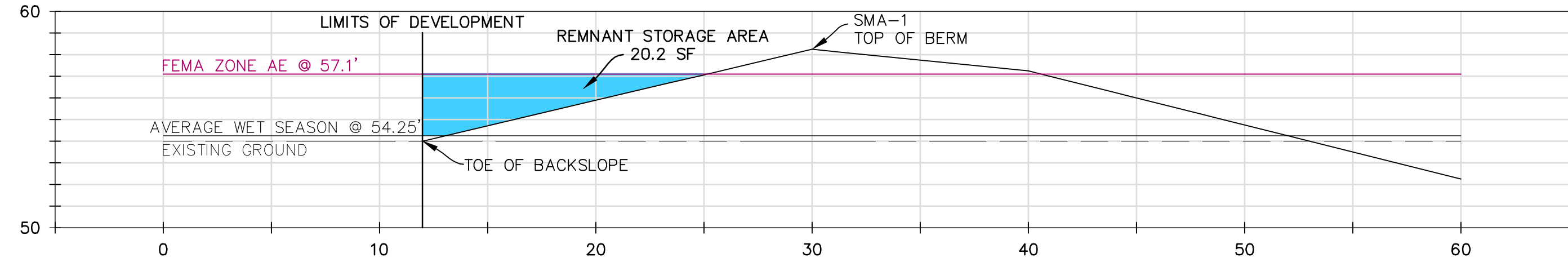
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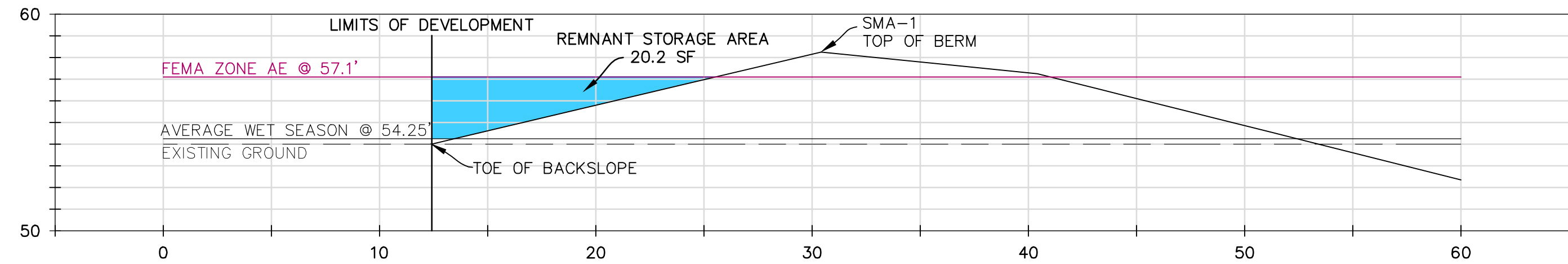
DONALD W. MCINTOSH ASSOCIATES, INC. RESERVES THE EXCLUSIVE COPYRIGHT AND PROPERTY RIGHTS TO THIS DRAWING WHICH MAY NOT BE REPRODUCED, CHANGED, OR COPIED IN ANY FORM OR MANNER, NOR CAN IT BE ASSIGNED TO ANY PARTY WITHOUT DONALD W. MCINTOSH ASSOCIATES, INC.'S WRITTEN CONSENT.



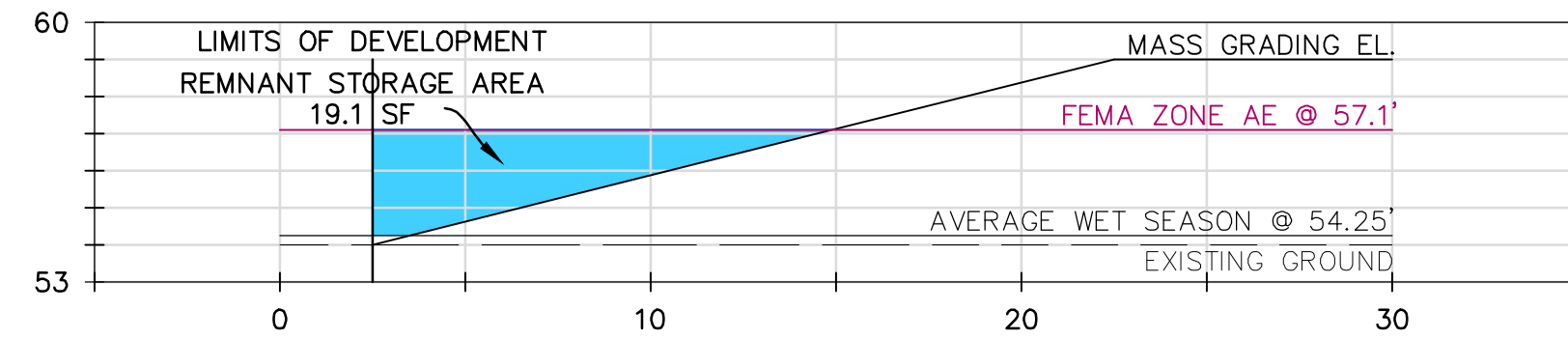
SECTION R-R
1"=5'



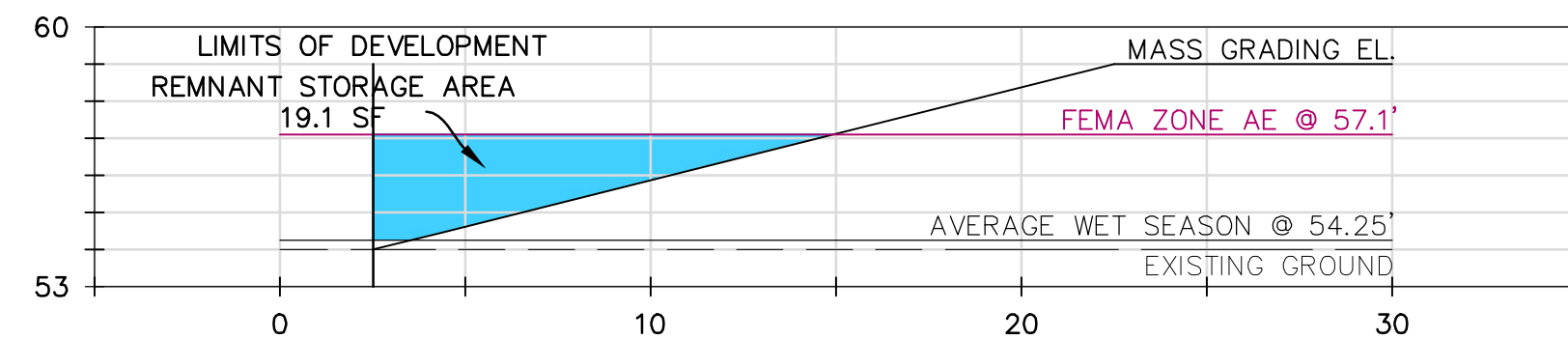
SECTION Q-Q
1"=5'



SECTION P-P
1"=5'



SECTION O-O
1"=5'

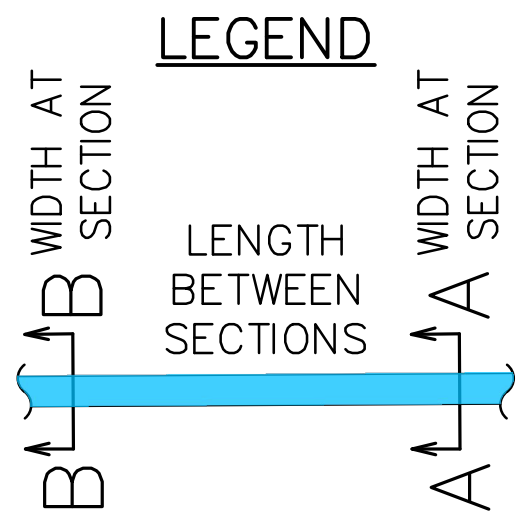
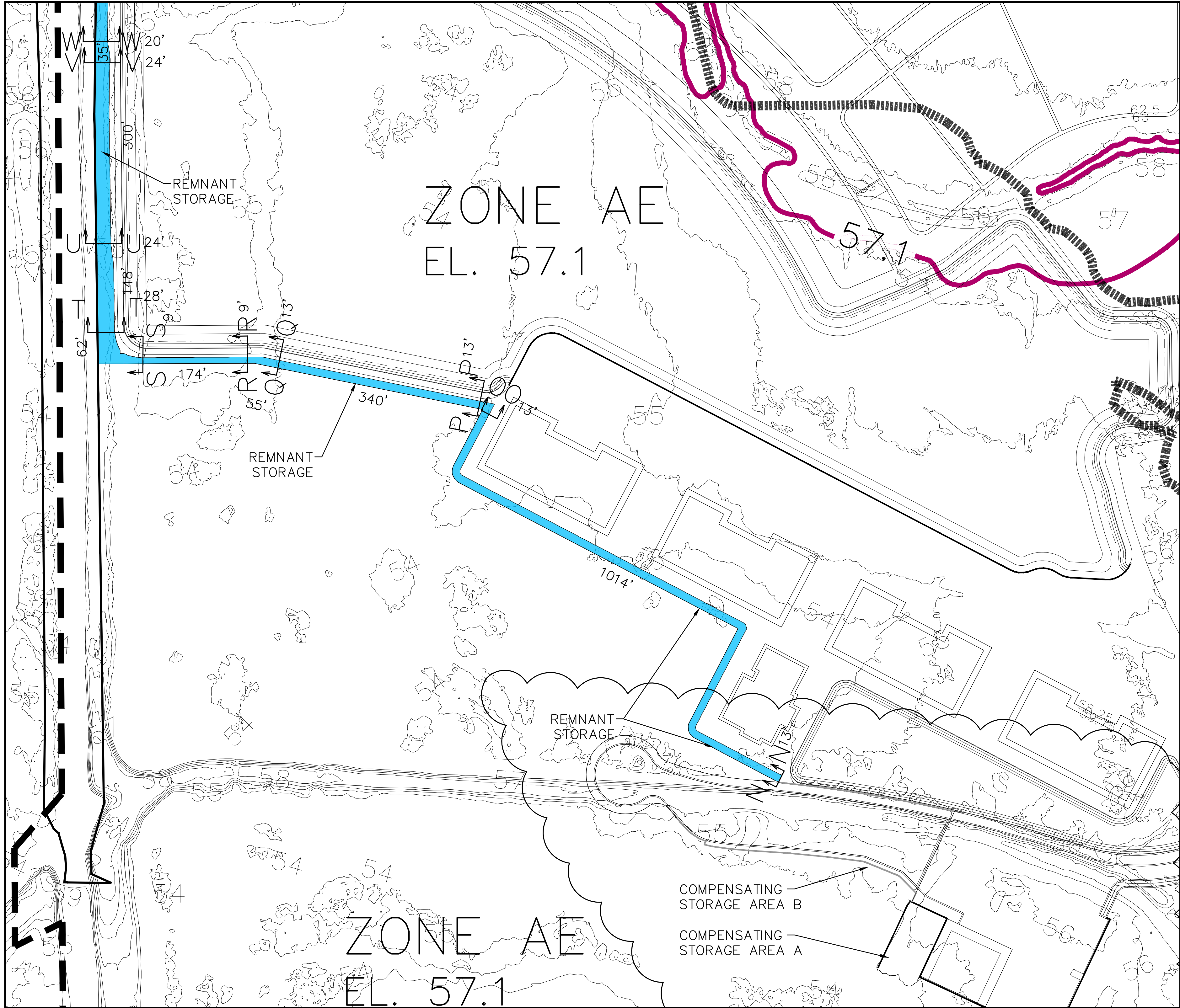
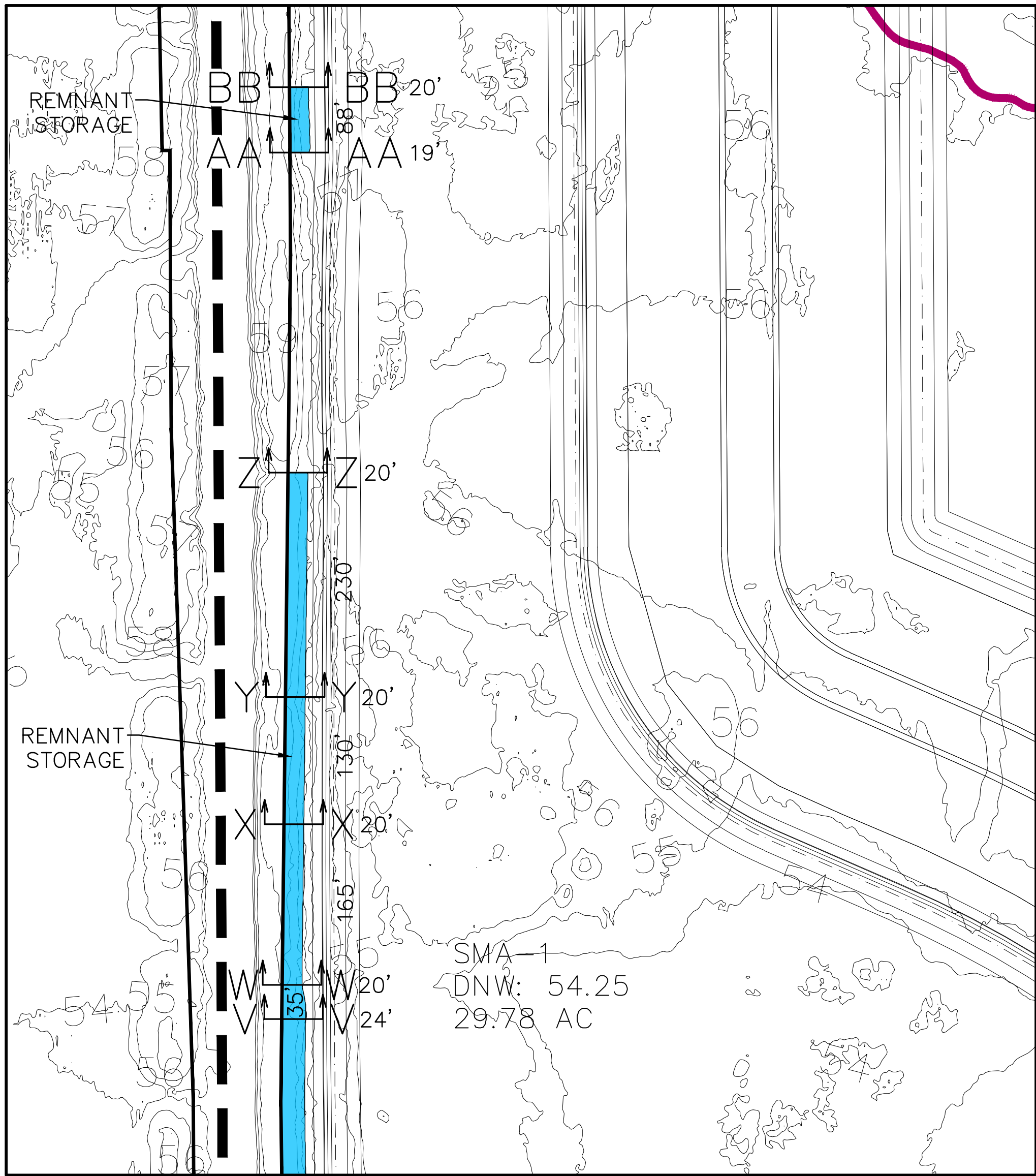
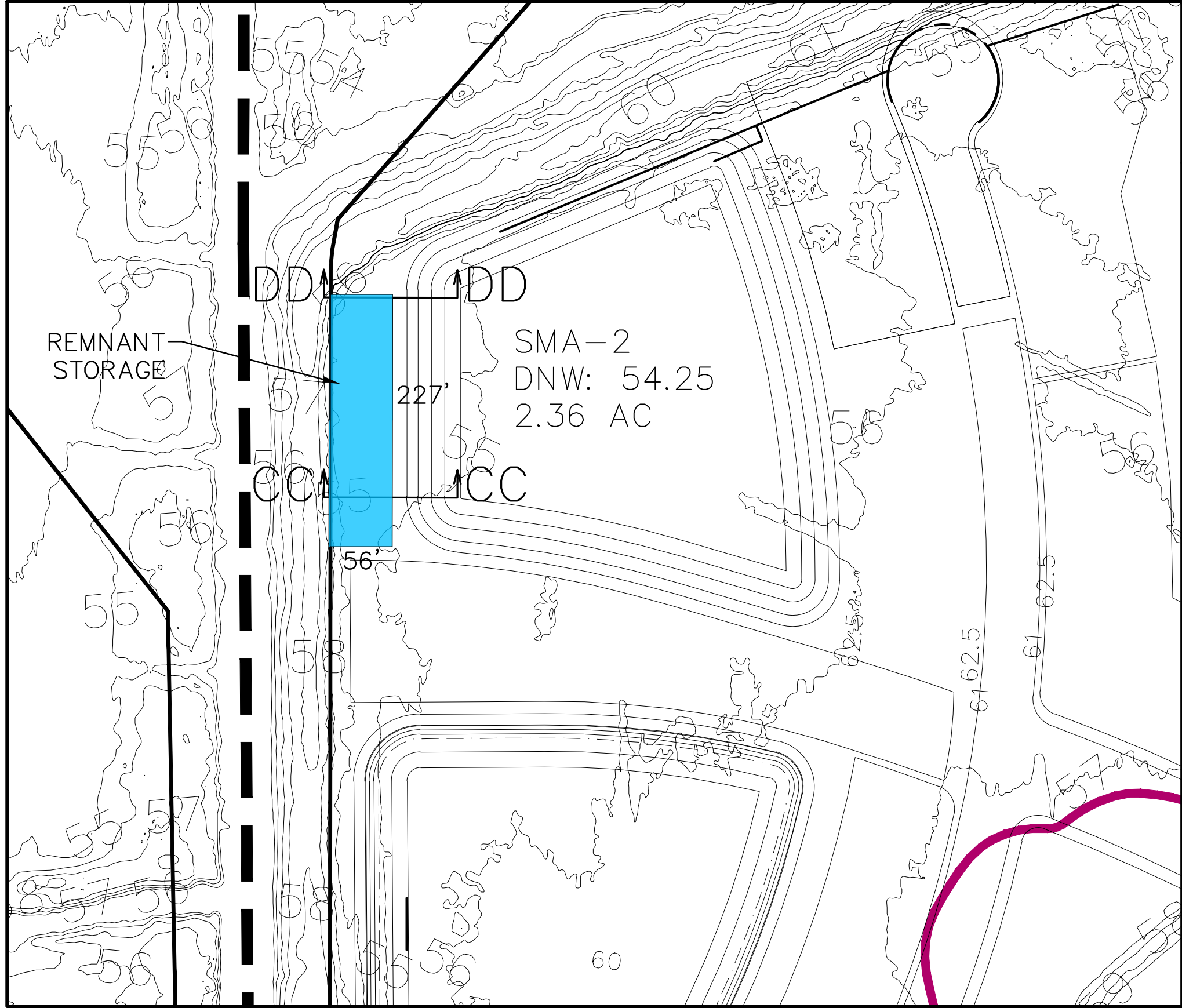


SECTION N-N
1"=5'

- GENERAL NOTES:
1. THE SCALE OF THIS DRAWING MAY HAVE CHANGED DUE TO REPRODUCTION.
 2. ALL ELEVATIONS ARE IN NAVD88 DATUM.

DONALD W. MCINTOSH ASSOCIATES, INC. ENGINEERS 2200 PARK AVENUE NORTH, WINTER PARK, FL 32789 407.644.4088 CERTIFICATE OF AUTHORIZATION NO. 68	FONTANA OSCEOLA COUNTY, FL ZONE AE REMNANT STORAGE BEHIND BACKSLOPE	DRAWING 13189-XCOMP	SHEET 3 OF 7	DESIGNED BY ACC	CHECKED BY JCN	DATE 06/04/18	SCALE AS SHOWN	JOB NUMBER 13189	JAMES C. NUGENT FLORIDA P.E. No. 57553 DATE: _____	NO. _____ DATE: _____ REVISIONS	CHK.																		
				AS SHOWN	13189																								
				06/04/18	AS SHOWN																								
				13189																									
REVISIONS <table border="1"><thead><tr><th>NO.</th><th>DATE</th><th>REVISIONS</th></tr></thead><tbody><tr><td>1</td><td>06/05/18</td><td>ADDED SHEET PER SFWD COMMENTS</td></tr><tr><td>2</td><td>08/07/18</td><td>REVISED PER SFWD COMMENTS</td></tr><tr><td>3</td><td>10/19/18</td><td>UPDATED MULTI-USE ROAD, SMA1, 2, 4 AND 6</td></tr><tr><td>4</td><td>06/26/20</td><td>UPDATED TO ADD MARINA</td></tr><tr><td>4</td><td>06/18/21</td><td>REVISED MARINA PARKING LOT PER SFWD RA</td></tr></tbody></table>												NO.	DATE	REVISIONS	1	06/05/18	ADDED SHEET PER SFWD COMMENTS	2	08/07/18	REVISED PER SFWD COMMENTS	3	10/19/18	UPDATED MULTI-USE ROAD, SMA1, 2, 4 AND 6	4	06/26/20	UPDATED TO ADD MARINA	4	06/18/21	REVISED MARINA PARKING LOT PER SFWD RA
NO.	DATE	REVISIONS																											
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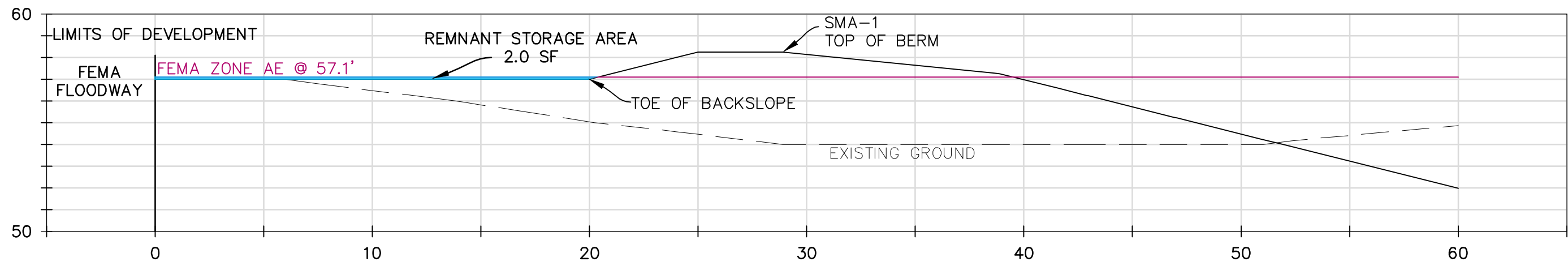
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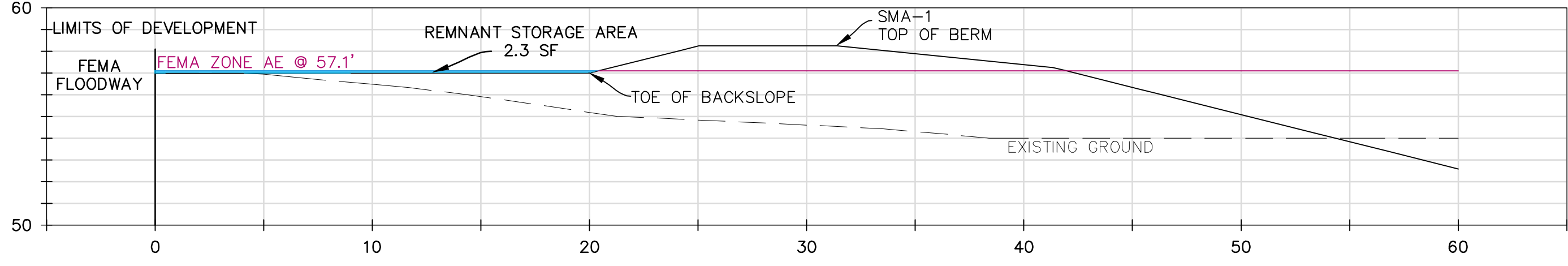
- GENERAL NOTES:
1. THE SCALE OF THIS DRAWING MAY HAVE CHANGED DUE TO REPRODUCTION.
 2. ALL ELEVATIONS ARE IN NAVD88 DATUM.

DONALD W. MCINTOSH ASSOCIATES, INC. ENGINEERS 2200 PARK AVENUE NORTH, WINTER PARK, FL 32789 407.644.4088 CERTIFICATE OF AUTHORIZATION NO. 68		PLANNERS SURVEYORS JAMES C. NUGENT FLORIDA P.E. No. 57553 DATE: _____	
DESIGNED BY ACC	CHECKED BY JCN	DATE 6/4/2018	JOB NUMBER 13189
DRAWING 13189-XCOMP		SHEET 3A OF 7	
FONTANA OSCEOLA COUNTY, FL ZONE AE REMNANT STORAGE BEHIND BACKSLOPE		NO. DATE REVISIONS 5 06/18/21 REVISED MARINA PARKING LOT PER SFWD RAI 4 06/26/20 UPDATED TO ADD MARINA 3 10/19/18 UPDATED MULTI-USE ROAD, SMA1, 2, 4 AND 6 2 08/07/18 REVISED SHEET PER SFWD COMMENTS 1 06/09/18 ADDED SHEET PER SFWD COMMENTS	

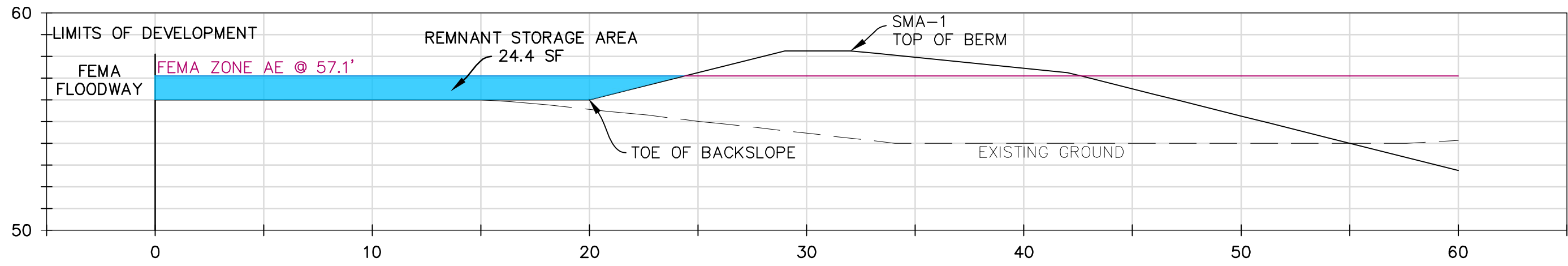
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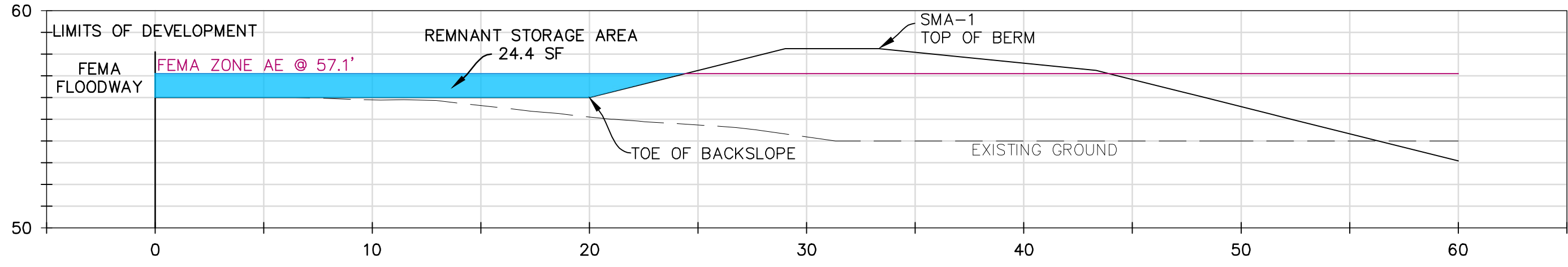
SECTION X-X
1"=5'



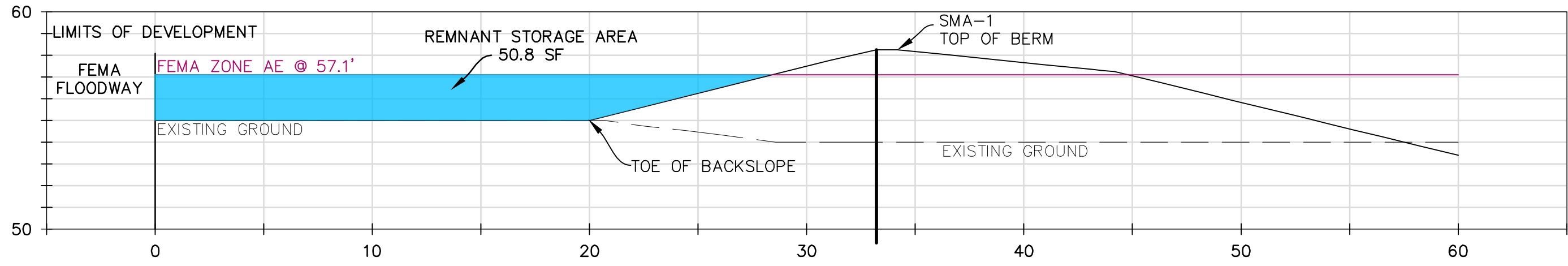
SECTION W-W
1"=5'



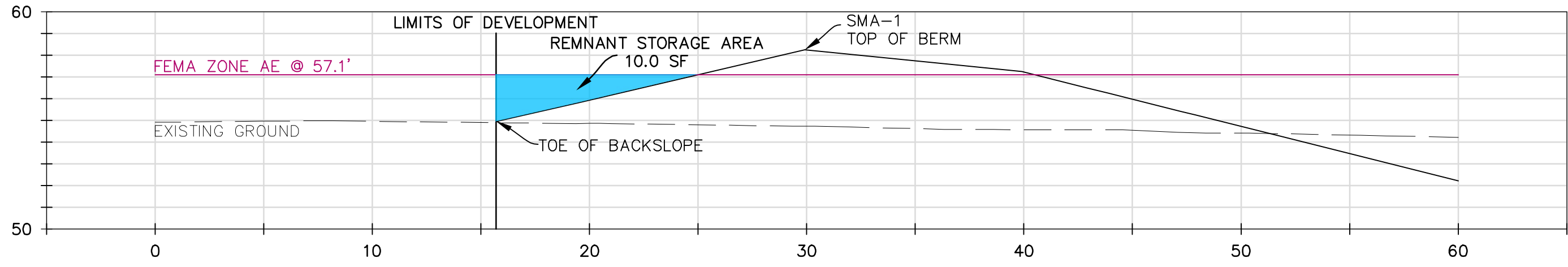
SECTION V-V
1"=5'



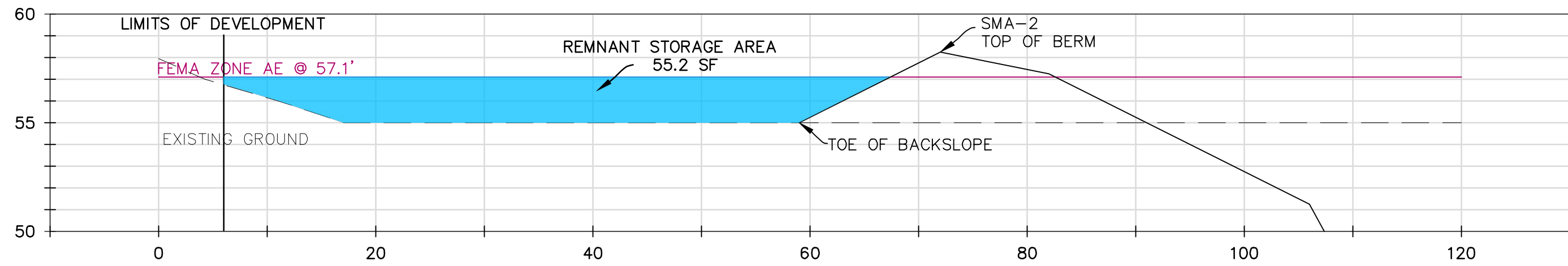
SECTION U-U
1"=5'



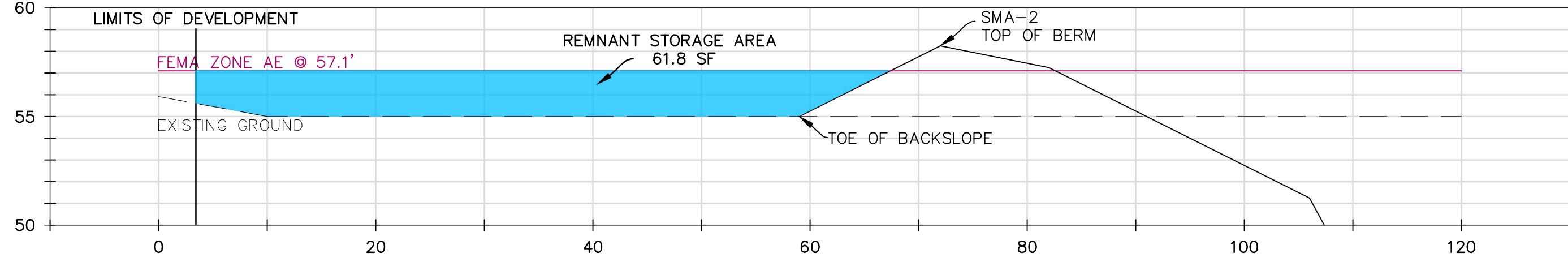
SECTION T-T
1"=5'



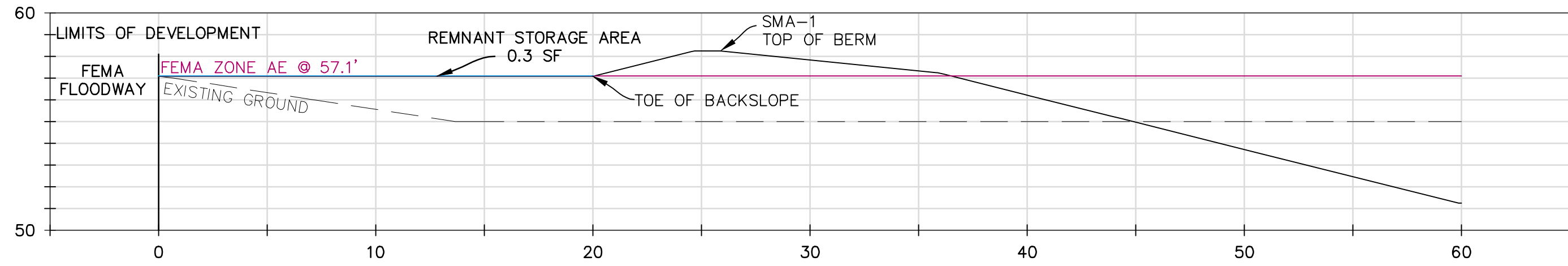
SECTION S-S
1"=5'



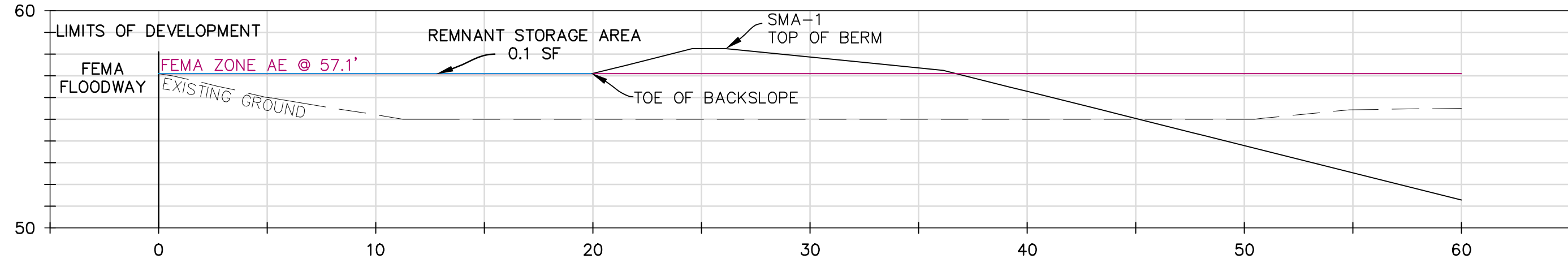
SECTION DD-DD
1"=10'



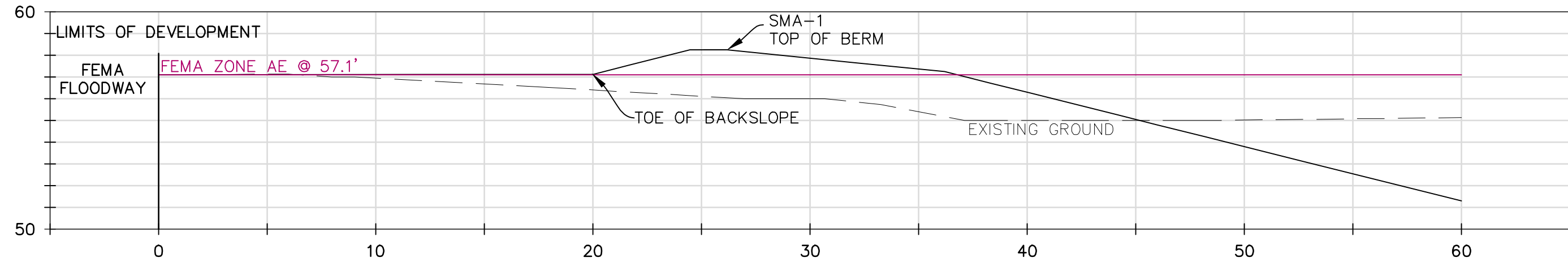
SECTION CC-CC
1"=10'



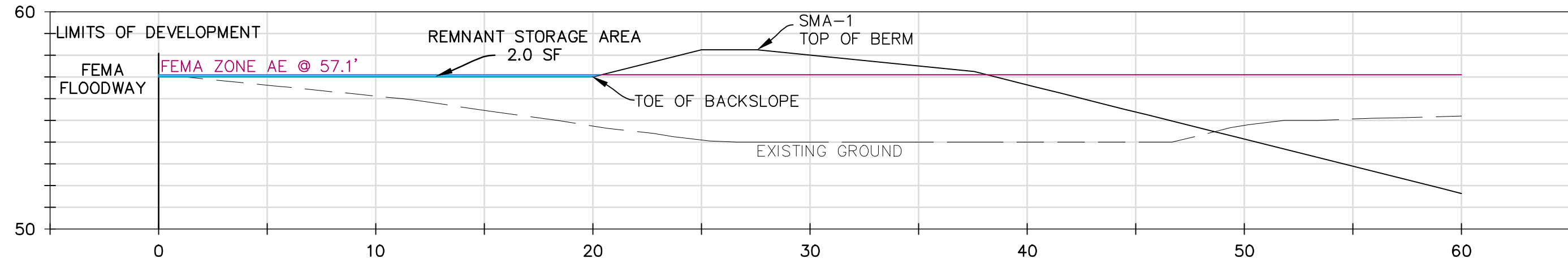
SECTION BB-BB
1"=5'



SECTION AA-AA
1"=5'



SECTION Z-Z
1"=5'

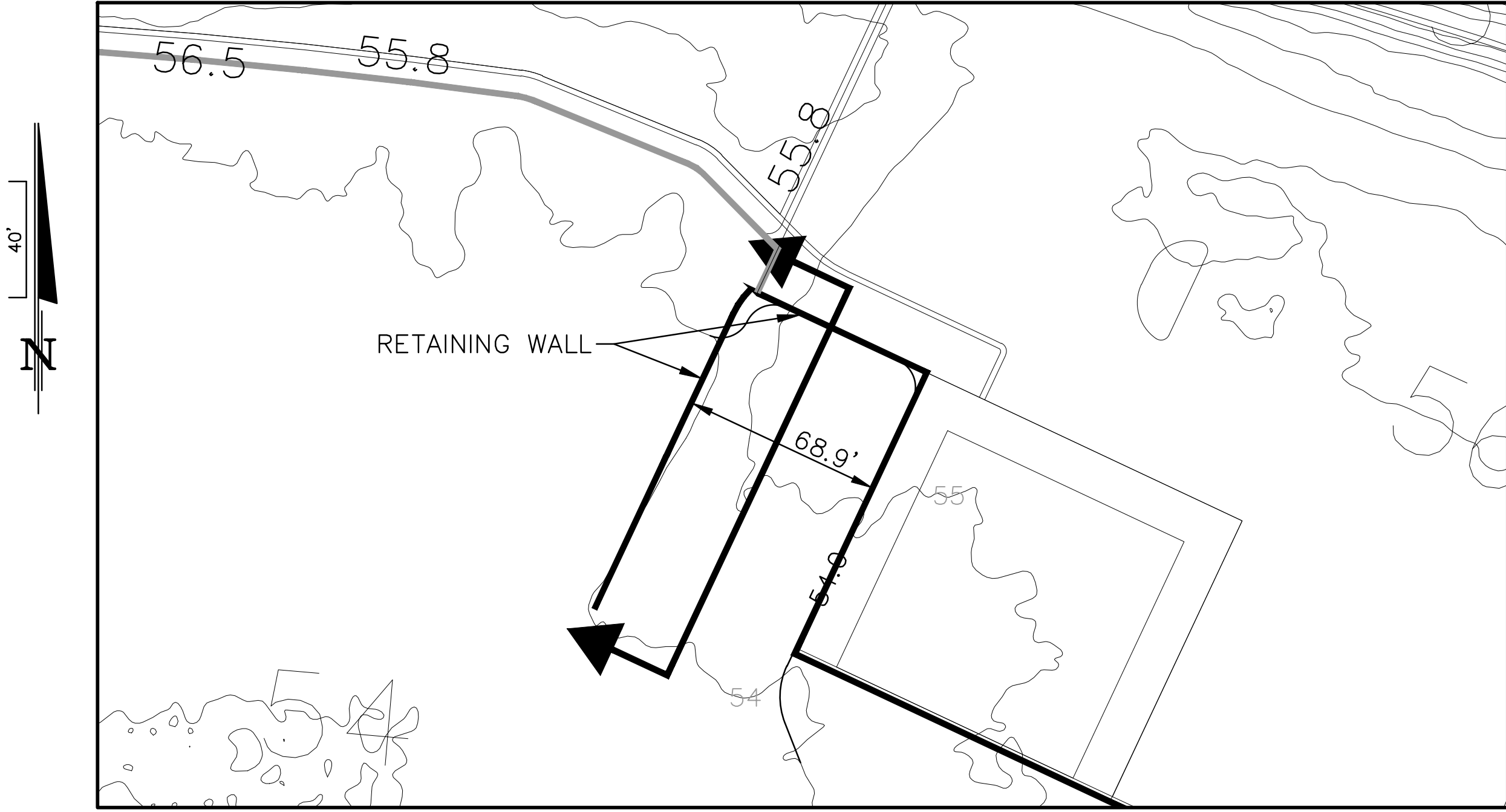


SECTION Y-Y
1"=5'

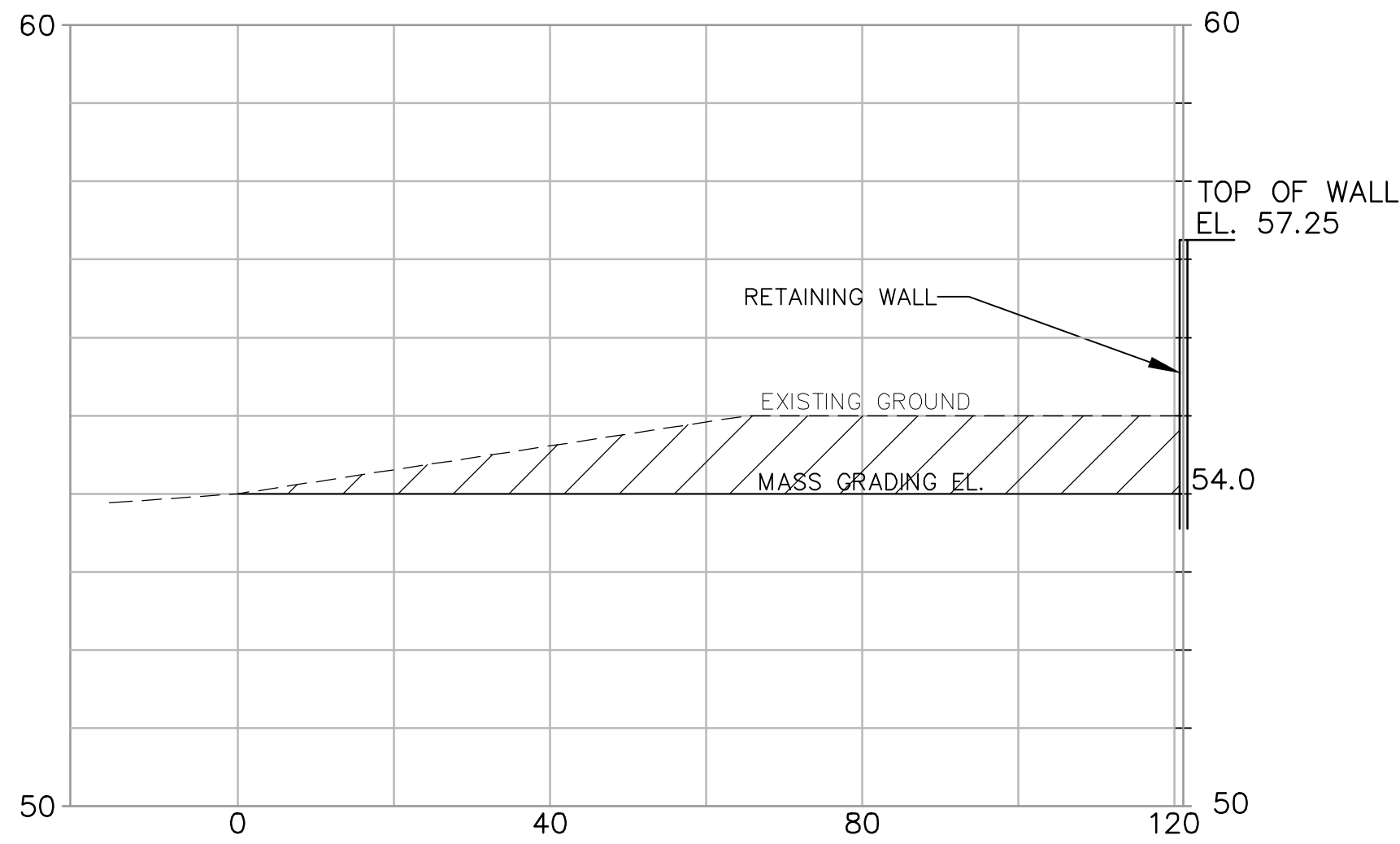
- GENERAL NOTES:
1. THE SCALE OF THIS DRAWING MAY HAVE CHANGED DUE TO REPRODUCTION.
 2. ALL ELEVATIONS ARE IN NAVD88 DATUM.

DRAFTING 13189-XCOMP		SHEET 4 OF 7		FONTANA OSCEOLA COUNTY, FL ZONE AE REMNANT STORAGE BEHIND BACKSLOPE		DONALD W. MCINTOSH ASSOCIATES, INC. ENGINEERS 2800 PARK AVENUE NORTH, WINTER PARK, FL 32789 407.644.4088 CERTIFICATE OF AUTHORIZATION NO. 68		JAMES C. NUGENT FLORIDA P.E. No. 57553 DATE: _____		3 10/16/18 UPDATED MULTI-USE ROAD, SMA1, 2, 4 AND 6 2 10/07/18 REVISED PER SFMD COMMENTS 1 06/05/18 ADDED SHEET PER SFMD COMMENTS NO. _____ DATE: _____		CHK.	
DESIGNED BY ACC		CHECKED BY JCN		DATE 6/4/2018		SCALE AS SHOWN		JOB NUMBER 13189					

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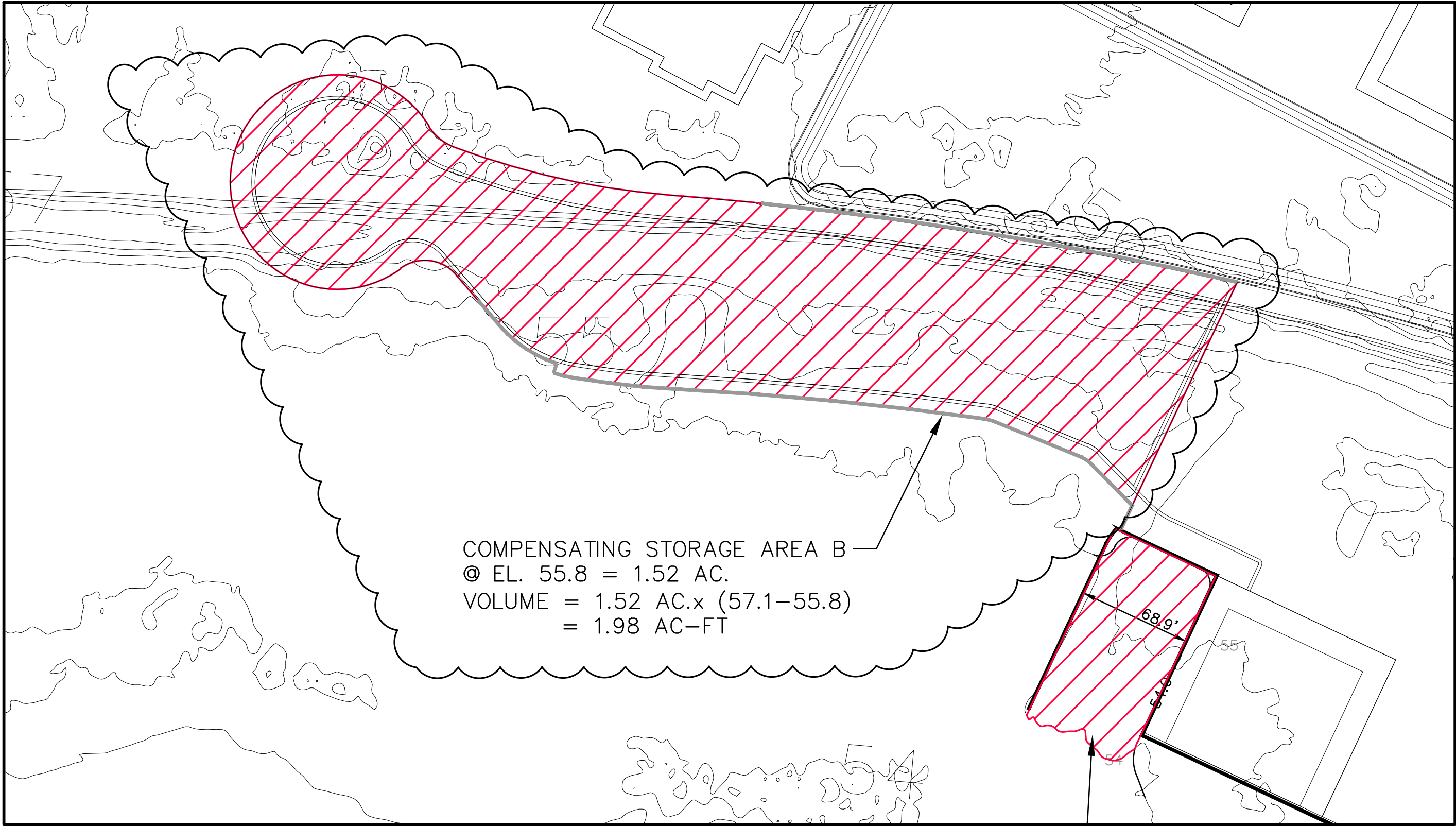


PLAN
1"=40'



SECTION
HORIZ. 1"=20'
VERT. 1"=2'

88.0 SF X 68.9' = 6,063 CF, 0.14 AC-FT



COMPENSATING STORAGE AREA
1"=60'

COMPENSATING STORAGE AREA A
0.14 AC-FT (SEE SECTION THIS SHEET)

- GENERAL NOTES:
1. THE SCALE OF THIS DRAWING MAY HAVE CHANGED DUE TO REPRODUCTION.
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DRAWING 13189-XCOMP	FONTANA OSCEOLA COUNTY, FL COMPENSATING STORAGE EXHIBIT PROPOSED STORAGE - MARINA	DONALD W. MCINTOSH ASSOCIATES, INC. ENGINEERS 2200 PARK AVENUE NORTH, WINTER PARK, FL 32789 407.644.4088 CERTIFICATE OF AUTHORIZATION NO. 68	PLANNERS SURVEYORS JAMES C. NUGENT FLORIDA P.E. No. 57553	JOB NUMBER 13189	SCALE AS SHOWN	DATE 07/20	CHECKED BY JCN	DESIGNED BY JCN	DRAWN BY ET	NO.	DATE	REVISIONS		CHK.		
												2	06/18/21		REVISED MARINA PARKING LOT PER SFWD RAI	JCN
										1	06/26/20	ADDED SHEET	JCN			

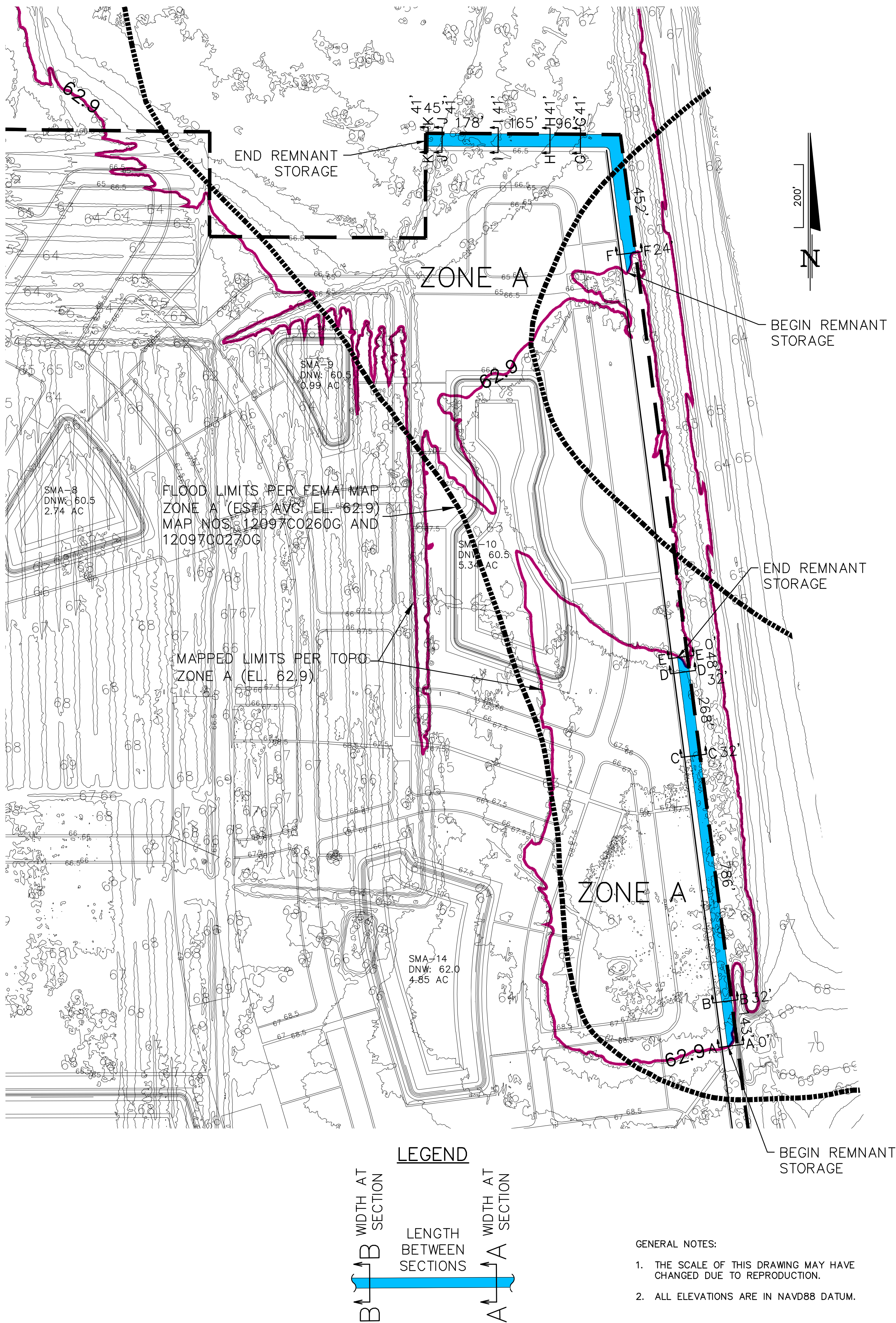
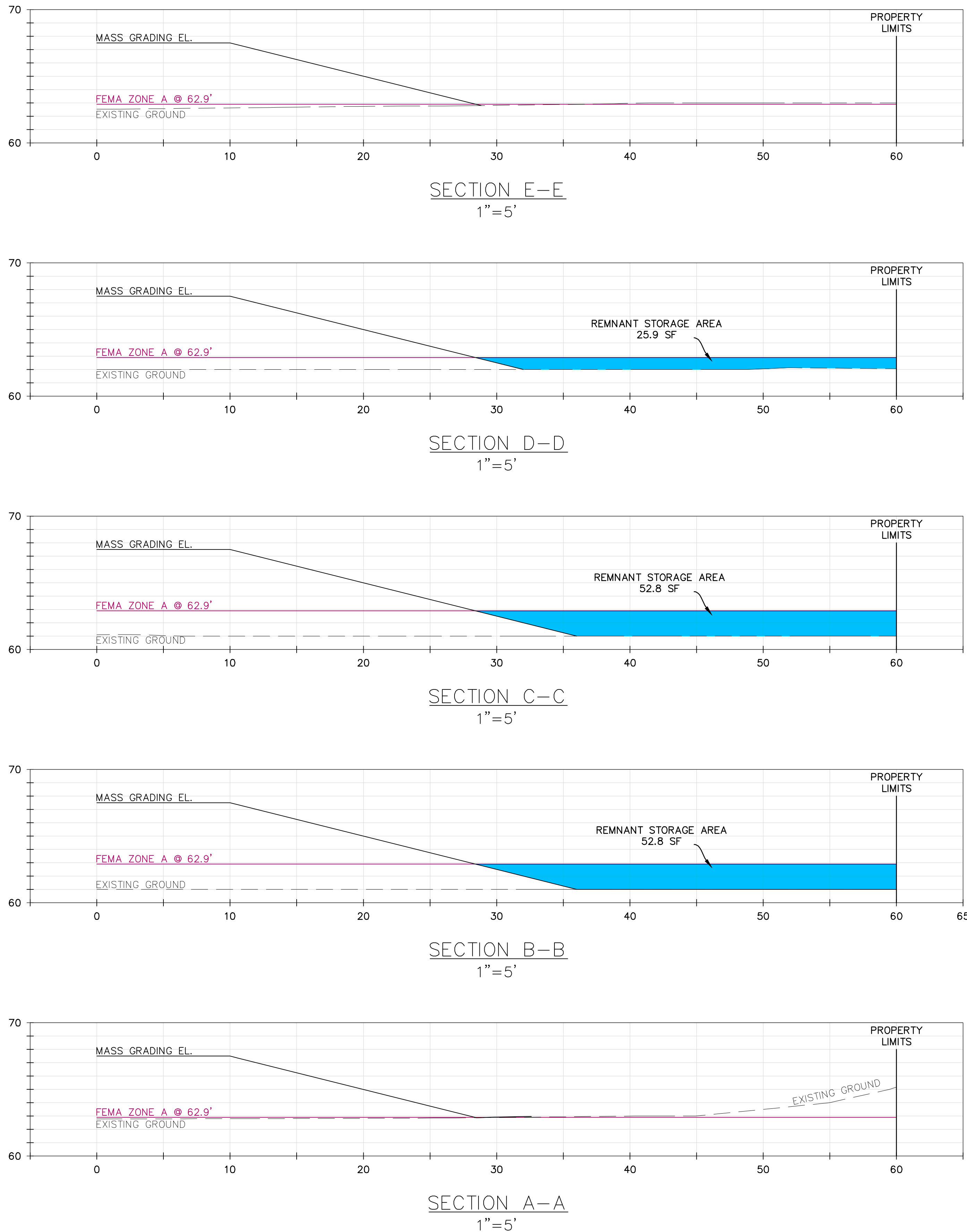
	REMNANT STORAGE AREA	LENGTH BETWEEN SECTIONS	REMNANT STORAGE BETWEEN SECTIONS	REMNANT STORAGE BETWEEN SECTIONS
SECTION NAME	(SF)	(FT)	(CU FT)	(AC-FT)
SECTION N-N	19.1			
		1014	19,367.4	0.44
SECTION O-O	19.1			
SECTION P-P	20.2			
		340	6,868.0	0.16
SECTION Q-Q	20.2			
		55	830.5	0.02
SECTION R-R	10.0			
		174	1,740.0	0.04
SECTION S-S	10.0			
		62	1,884.8	0.04
SECTION T-T	50.8			
		148	5,564.8	0.13
SECTION U-U	24.4			
		300	7,320.0	0.17
SECTION V-V	24.4			
		35	467.3	0.01
SECTION W-W	2.3			
		165	2,178.0	0.05
SECTION X-X	2.0			
		130	279.5	0.01
SECTION Y-Y	2.0			
		230	230.0	0.01
SECTION Z-Z	0			
SECTION AA-AA	0.1			
		88	17.6	0.00
SECTION BB-BB	0.3			
SECTION CC-CC	61.8			
		227	13,279.5	0.30
SECTION DD-DD	55.2			
		TOTAL:	60,027.4	1.38

GENERAL NOTES:

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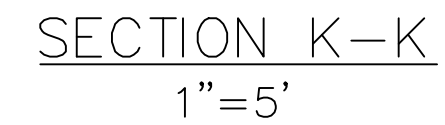
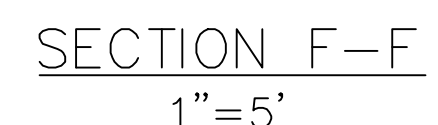
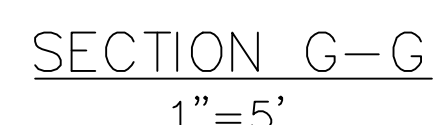
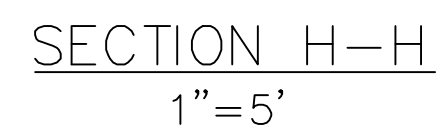
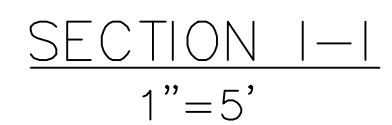
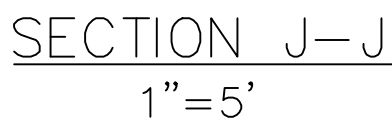
DRAWING 13189-XCOMP	FONTANA OSCEOLA COUNTY, FL ZONE AE REMNANT STORAGE BEHIND BACKSLOPE		DONALD W. MCINTOSH ASSOCIATES, INC. ENGINEERS PLANNERS SURVEYORS 2200 PARK AVENUE NORTH, WINTER PARK, FL 32789 407.644.4068 CERTIFICATE OF AUTHORIZATION NO. 68				
			DESIGNED BY ACC	CHECKED BY JCN	DATE 6/4/2018	SCALE AS SHOWN	JOB NUMBER 13189
SHEET 5 OF 7			JAMES C. NUGENT FLORIDA P.E. No. 57553 DATE: _____				
			DRAWN BY	CHECKED BY	DATE	SCALE	JOB NUMBER
			ACC	JCN	6/4/2018	AS SHOWN	13189
			NO.	DATE	REVISED PER SPWM COMMENTS	REVISED PER SPWM COMMENTS	REVISED PER SPWM COMMENTS
			NO.	DATE	REVISED PER SPWM COMMENTS	REVISED PER SPWM COMMENTS	REVISED PER SPWM COMMENTS

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DRAWING 13189-XCOMP	SHEET 6 OF 7	FONTANA OSCEOLA COUNTY, FL ZONE A REMNANT STORAGE BEHIND BACKSLOPE		DONALD W. MCINTOSH ASSOCIATES, INC. ENGINEERS 2200 PARK AVENUE NORTH, WINTER PARK, FL 32789 407.644.4088 CERTIFICATE OF AUTHORIZATION NO. 68		JAMES C. NUGENT FLORIDA P.E. No. 57553 DATE: _____		2 08/07/18 REVISED PER SFMD COMMENTS 1 06/05/18 ADDED SHEET PER SFMD COMMENTS NO. DATE		CHK.
		DESIGNED BY ACC	CHECKED BY JCN	DATE 6/4/2018	SCALE AS SHOWN	JOB NUMBER 13189				

Exhibit No. 231



GENERAL NOTES:

1. THE SCALE OF THIS DRAWING MAY HAVE CHANGED DUE TO REPRODUCTION.
2. ALL ELEVATIONS ARE IN NAVD88 DATUM.

Fontana**Compensating Storage Calculations - Existing Storage**

Date: 6/5/2018

By: NRB

Chk: JCN

Rev: 6/18/2021

FEMA Flood Zone:	ZONE AE
Base Flood Elevation (BFE):	57.1'

AWS = Average Wet Season

ArcMap Output¹

Dataset	Plane_Height	Reference	Z_Factor	Area_2D (sqft)	Area_3D (sqft)	Volume (cu ft)
..pStor\CompStor.gdb\ZONEAEAreas	54.25	BELOW	1	483375.1492	483423.0305	116595.4231
..pStor\CompStor.gdb\ZONEAEAreas	57.1	BELOW	1	3675074.555	3676307.52	5407759.125

Stage (ft - NAVD)	Area (ac)	Volume to Ground (ac-ft)	
54.25	11.10	2.68	AWS
57.1	84.40	124.15	BFE

Existing Storage between 57.1' and 54.25' = 121.47 ac-ft

FEMA Flood Zone:	ZONE A
Base Flood Elevation (BFE):	62.9'

ArcMap Output¹

Dataset	Plane_Height	Reference	Z_Factor	Area_2D (sqft)	Area_3D (sqft)	Volume (cu ft)
..mpStor\CompStor.gdb\ZONEAAreas	60.5	BELOW	1	88022.26096	88087.53753	46415.32784
..mpStor\CompStor.gdb\ZONEAAreas	62.9	BELOW	1	1412884.091	1413535.566	1773153.104

Stage (ft - NAVD)	Area (ac)	Volume to Ground (ac-ft)	
60.5	2.02	1.07	AWS
62.9	32.45	40.71	BFE

Existing Storage between 62.9' and 60.5' = 39.64 ac-ft

¹Values were calculated using ArcGIS ArcMap (version 10.5) made by ESRI. The Surface Volume tool within the 3D Analyst Toolbox was used. The volume is the difference between a plane and a surface. Please see <http://pro.arcgis.com/en/pro-app/tool-reference/3d-analyst/surface-volume.htm> for more details.

Fontana
Compensating Storage Calculations - Proposed Storage

Date: 6/5/2018
 By: NRB
 Chk: JCN
 Rev: 6/18/2021

FEMA Flood Zone:	ZONE AE
Base Flood Elevation (BFE):	57.1'
Existing Storage:	121.47 ac-ft
Comp Storage Ponds:	SMA-1,2,3, Marina

DNW = Design Normal Water
 AWS = Average Wet Season

Pond Data					
Stage (ft - NAVD)	SMA-1 Area (ac)	SMA-2 Area (ac)	SMA-3 Area (ac)	MARINA Area (ac)	Volume (ac-ft)
54.25	29.78	2.36	6.44	1.35	0.00
55.25	30.43	2.48	6.65	1.50	40.49
56.25	31.08	2.60	6.86	1.65	82.12
57.10	31.63	2.70	7.05	1.79	118.40
57.25	31.73	2.72	7.08	1.81	124.89
58.25	33.35	3.04	7.64		167.67

DNW/AWS

BFE

Outside Top of Berm for Marina
 Outside Top of Berm

Pond Storage Provided @ 57.1' = 118.40 ac-ft

ZONE AE Remnant Storage behind Backslope from Cross Sections = 1.38 ac-ft

ZONE AE Storage Area A = 0.14 ac-ft

ZONE AE Storage Area B = 1.98 ac-ft

Total Proposed Storage between 57.1' and 54.25' = 121.90 ac-ft

FEMA Flood Zone:	ZONE A
Base Flood Elevation (BFE):	62.9'
Existing Storage:	39.64 ac-ft
Comp Storage Ponds:	SMA-8,9,10,13

Pond Data					
Stage (ft - NAVD)	SMA-8 Area (ac)	SMA-9 Area (ac)	SMA-10 Area (ac)	SMA-13 Area (ac)	Volume (ac-ft)
60.5	2.74	0.99	5.34		0.00
61.0	2.80	1.03	5.45	8.13	4.59
61.5	2.87	1.07	5.56	8.26	13.38
62.5	3.00	1.16	5.78	8.51	31.49
62.9	3.05	1.20	5.87	8.62	38.93
63.5	3.13	1.25	6.01	8.77	50.31
64.5	3.38	1.49	6.59	9.23	70.23
65	3.55			9.56	78.68

DNW/AWS

DNW/AWS (SMA-13)

BFE

Outside Top of Berm (SMA-9, 10)
 Outside Top of Berm (SMA-8, 13)

Pond Storage Provided @ 62.9' = 38.93 ac-ft

ZONE A Remnant Storage behind Backslope from Cross Sections = 2.35 ac-ft

Total Proposed Storage between 62.9' and 60.5' = 41.28 ac-ft