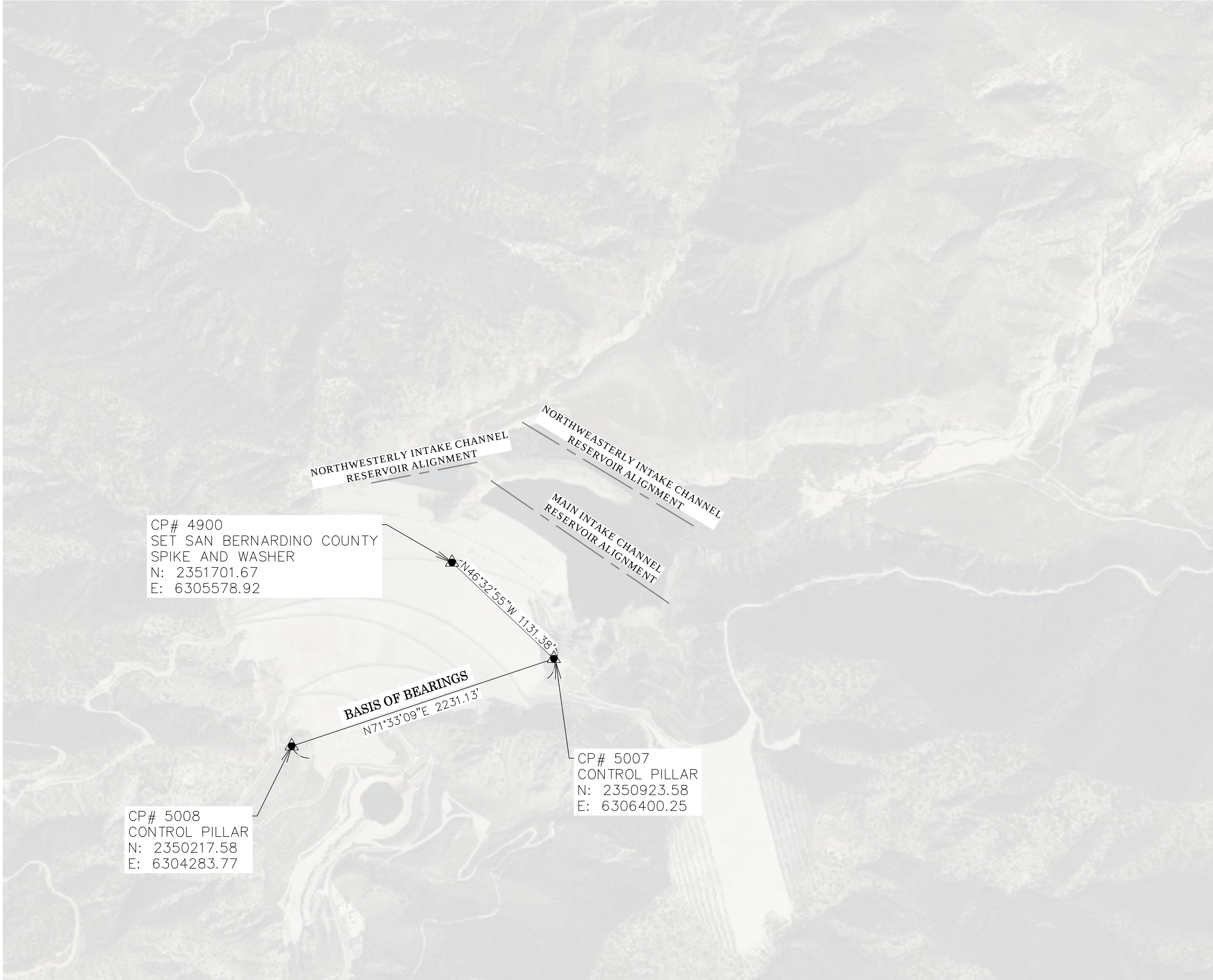




OC PUBLIC WORKS DEPARTMENT
JAMES TREADAWAY, DIRECTOR OF PUBLIC WORKS
KEVIN HILLS, COUNTY SURVEYOR
SEVEN OAK DAM
SEDIMENT STUDY



BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS SURVEY IS BASED ON THE CALIFORNIA COORDINATE SYSTEM (CCS83), ZONE VI, NAD 83, OCS (1998.5) EPOCH ADJUSTMENT, AS DETERMINED LOCALLY BY A LINE BETWEEN CONTROL POINTS 5007 AND 5008 BEING NORTH 71°33'09" EAST AS DERIVED FROM THE COORDINATES FROM THE "FINAL SURVEY REPORT" PROVIDED BY SAN BERNARDINO COUNTY.

HORIZONTAL DATUM

COORDINATES SHOWN ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM (CCS83), ZONE VI, NAD 83, OCS (1998.5) EPOCH ADJUSTMENT.

ALL DISTANCES SHOWN ARE GRID, UNLESS OTHERWISE NOTED. TO OBTAIN GROUND DISTANCES MULTIPLY GRID BY A COMBINED FACTOR OF 1.00006261.

THIS COMBINATION FACTOR WAS HELD AT: CP# 5007
N: 2350923.58 E: 6306400.25 EL: 2604.35

ALL DISTANCES ARE BASED ON THE U.S. SURVEY FOOT.

VERTICAL DATUM

GPS#5009, S02011-363 ELEV. = 2608.13' YEAR LEVELED: 2001

NGVD 1929

DESCRIPTION: CONTROL PILLAR LOCATED AT SEVEN OAKS DAM.

NOTES

THE SURVEY INFORMATION SHOWN HEREON IS TO BE USED FOR TOPOGRAPHIC RELATIONSHIPS ONLY AND IS NOT INTENDED FOR LAND ACQUISITION OR BOUNDARY PURPOSES. DATA WAS COLLECTED USING DRONE AERIAL LIDAR FOR AREAS OUTSIDE OF CONVENTIONAL TOPO LIMITS.

SHEET INDEX	
SHEET	DESCRIPTION
1	TITLE SHEET
2-4	ALIGNMENT SHEET
5-7	TOPOGRAPHIC MAP
8-37	CROSS-SECTIONS

BASIS OF STATIONING

THE BASIS FOR STATIONING IS ASSUMED NORTHWESTERLY INTAKE CHANNEL RESERVOIR ALIGNMENT = 10+00, MAIN INTAKE CHANNEL RESERVOIR ALIGNMENT 20+00 AND NORTHEASTERLY INTAKE CHANNEL RESERVOIR ALIGNMENT = 40+00 AND ARE TO BE USED FOR CONSTRUCTION PURPOSES ONLY.

PURPOSE OF SURVEY

THE PURPOSE OF THE SURVEY IS TO PROVIDE A TOPOGRAPHIC MAP FOR EVALUATING SEDIMENT BUILDUP IN THIS PORTION OF THE SEVEN OAKS DAM.

SENIOR LAND SURVEYOR'S CERTIFICATE:

THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH REQUIREMENTS OF THE PROFESSIONAL LAND SURVEYOR'S ACT; THIS 6 DAY OF OCTOBER, 2022.

ELLIOTT MEDINA, PLS. SENIOR LAND SURVEYOR



DEPUTY COUNTY SURVEYOR'S STATEMENT:

THIS MAP HAS BEEN EXAMINED IN ACCORDANCE WITH THE PROFESSIONAL LAND SURVEYOR'S ACT; THIS 6 DAY OF OCTOBER, 2022.

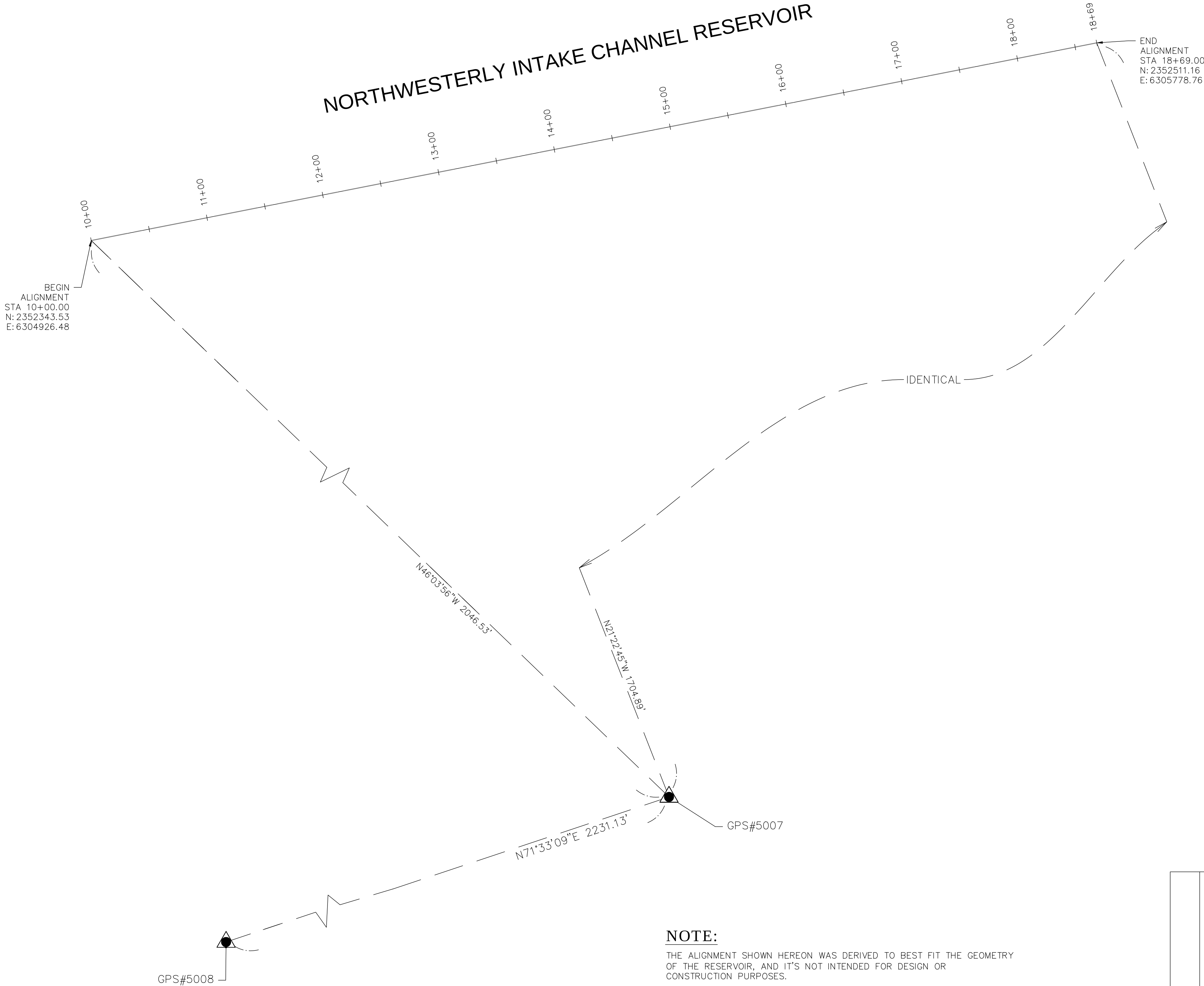
MICHAEL LAFONTAINE, PLS. DEPUTY COUNTY SURVEYOR



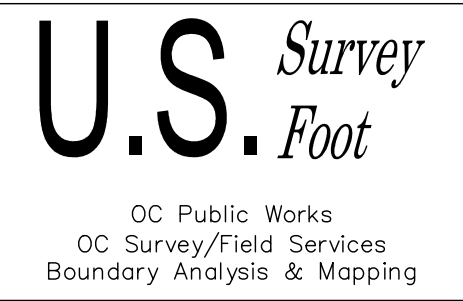
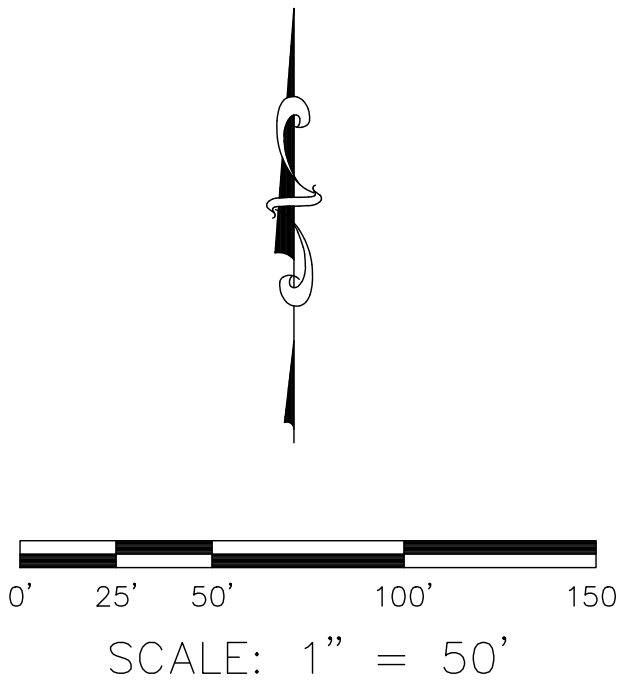
TOPOGRAPHIC MAPPING PROJECT

		COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING	
		SEVEN OAK DAM SEDIMENT STUDY	
		TITLE SHEET	
		PROJECT LIMITS: FROM INTAKE TOWER TO +/- 850' UPSTREAM	
		DATE OF SURVEY: 09/07/2022	BY: OCS & SBC
		MAPPING	BY: H. AFTIM, PLS
		OFFICE CHECK	BY: E. MEDINA, PLS
		FIELD CHECK	BY: OCS & SBC
		SCALE: N.T.S.	W.O. #EF40054
		FILE: #2122PW-FP0002	
		FILE: SEVEN OAKS DAM_TOPO_2022.DWG	
MARK	DATE	ITEM	SHEET NO.
REVISIONS			1 of 37

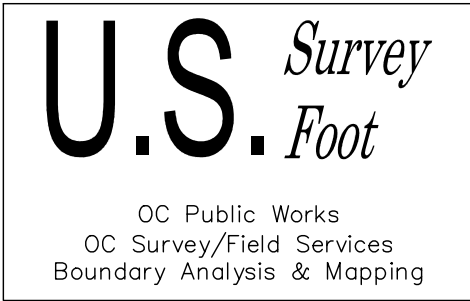
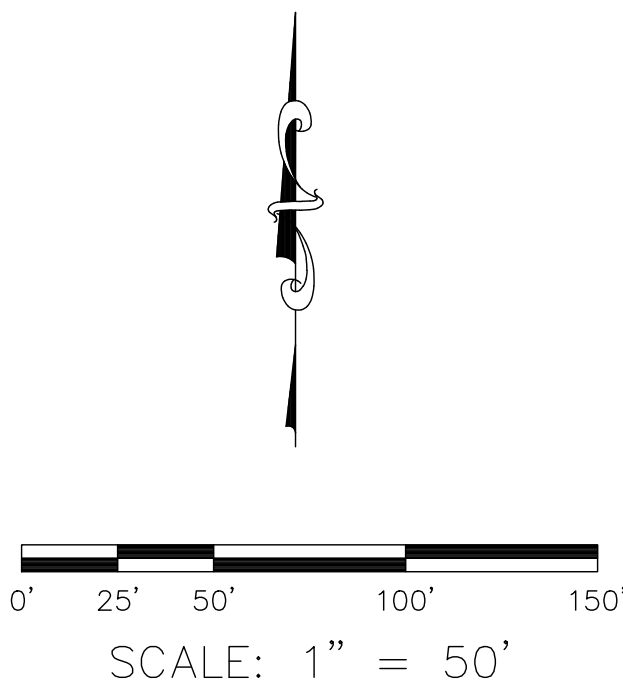
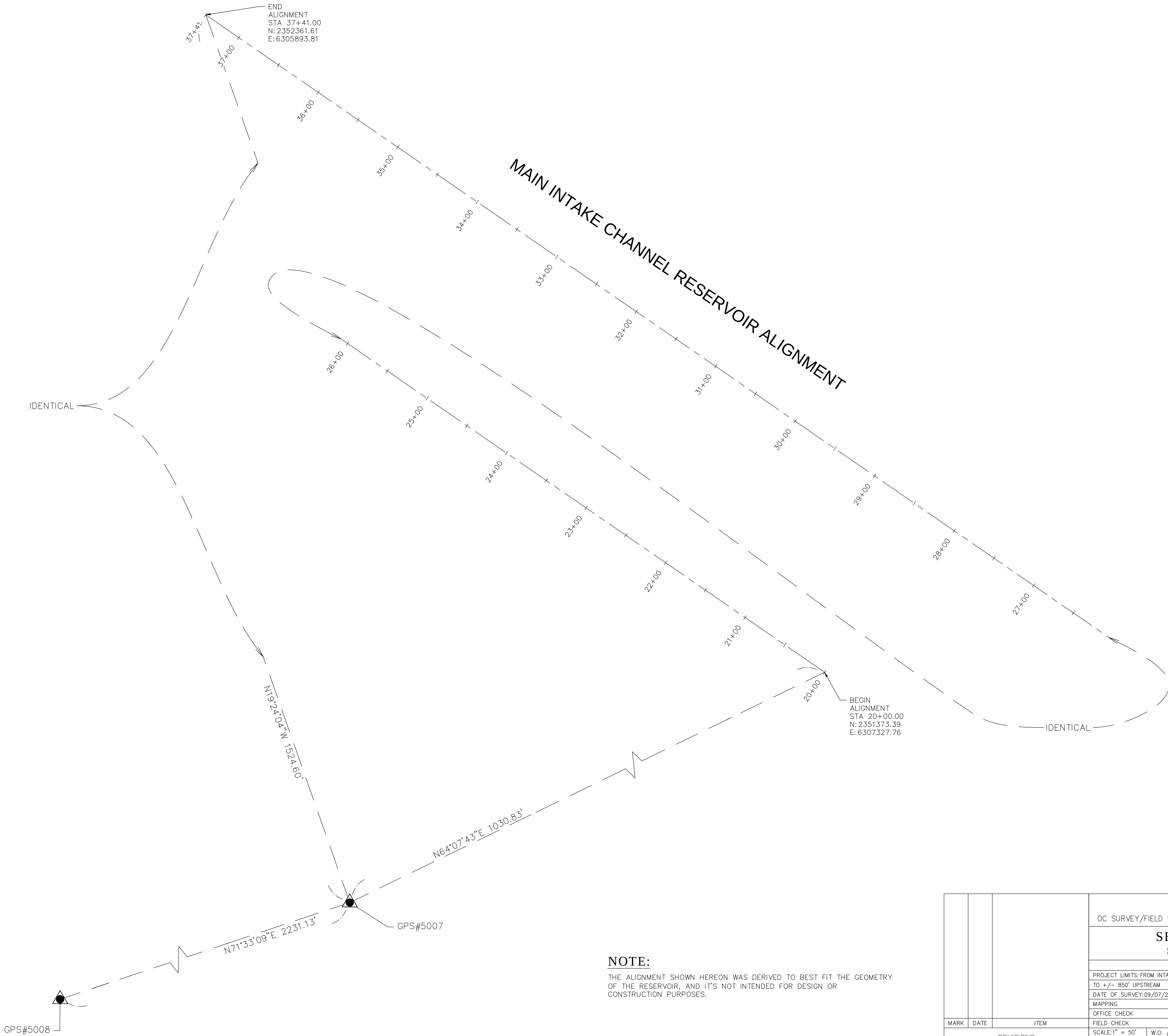
NORTHWESTERLY INTAKE CHANNEL RESERVOIR



NOTE:
THE ALIGNMENT SHOWN HEREON WAS DERIVED TO BEST FIT THE GEOMETRY OF THE RESERVOIR, AND IT'S NOT INTENDED FOR DESIGN OR CONSTRUCTION PURPOSES.

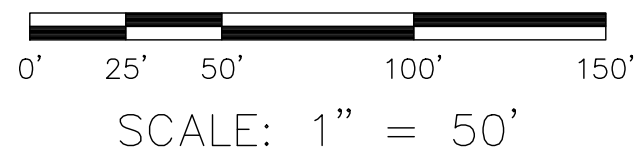
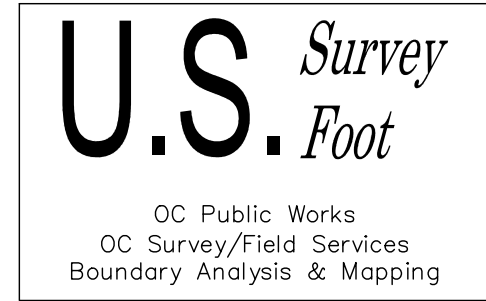


MARK	DATE	ITEM	COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			SEVEN OAK DAM SEDIMENT STUDY				
			ALIGNMENT ESTABLISHMENT				
			PROJECT LIMITS: FROM INTAKE TOWER TO +/- 850' UPSTREAM				
			DATE OF SURVEY: 09/07/2022		BY: OCS & SBC		SHEET NO. 2 of 37
			MAPPING		BY: X. XXXX		
			OFFICE CHECK		BY: E. MEDINA, PLS		
			FIELD CHECK		BY: OCS & SBC		
			SCALE: 1" = 50'		W.O. #EF40054		
			FILE: SEVEN OAKS DAM_ALIGNMENT_2022.DWG		FILE #2122PW-FP0002		
REVISIONS							



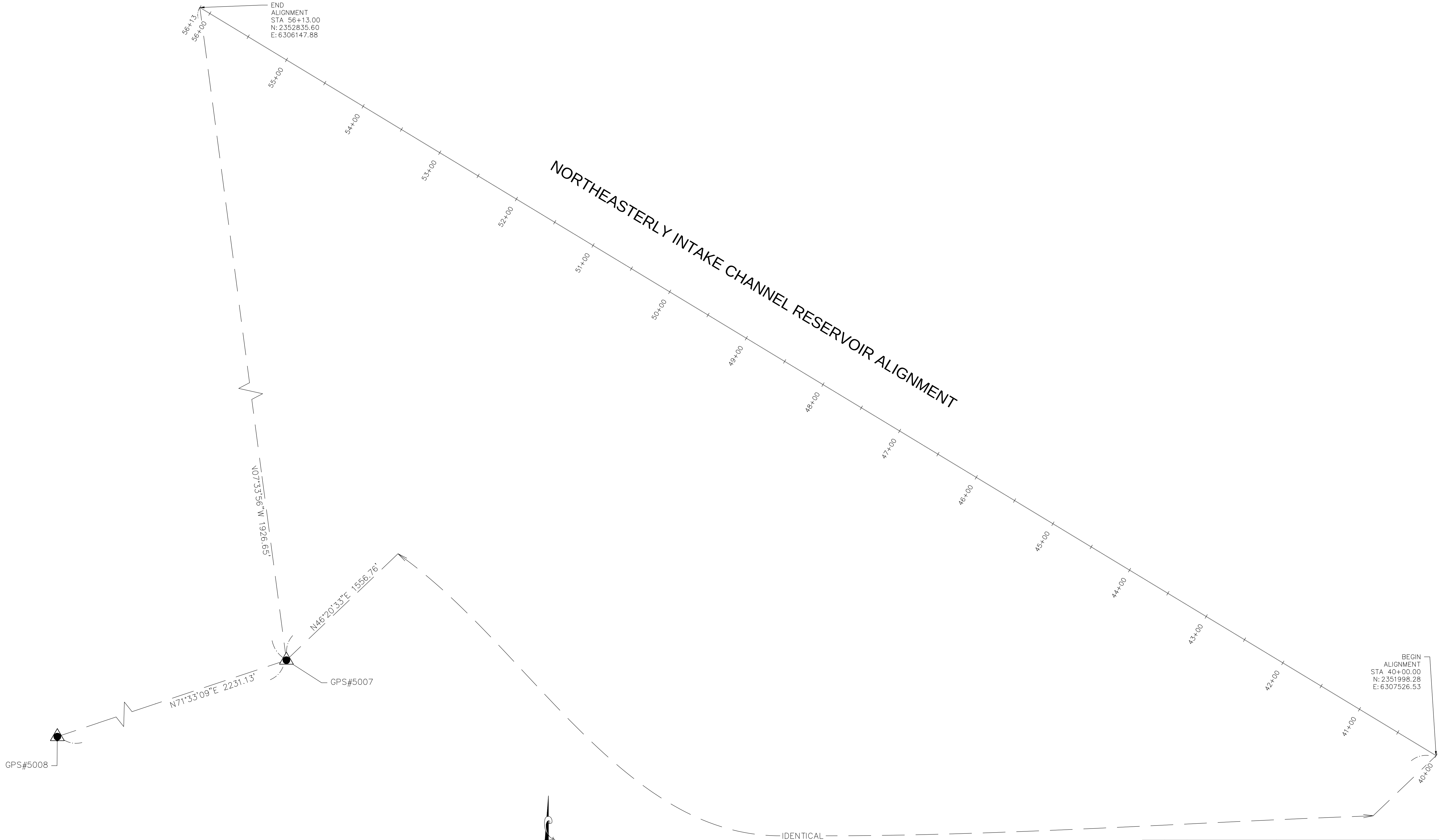
NOTE:
THE ALIGNMENT SHOWN HEREON WAS DERIVED TO BEST FIT THE GEOMETRY OF THE RESERVOIR, AND IT'S NOT INTENDED FOR DESIGN OR CONSTRUCTION PURPOSES.

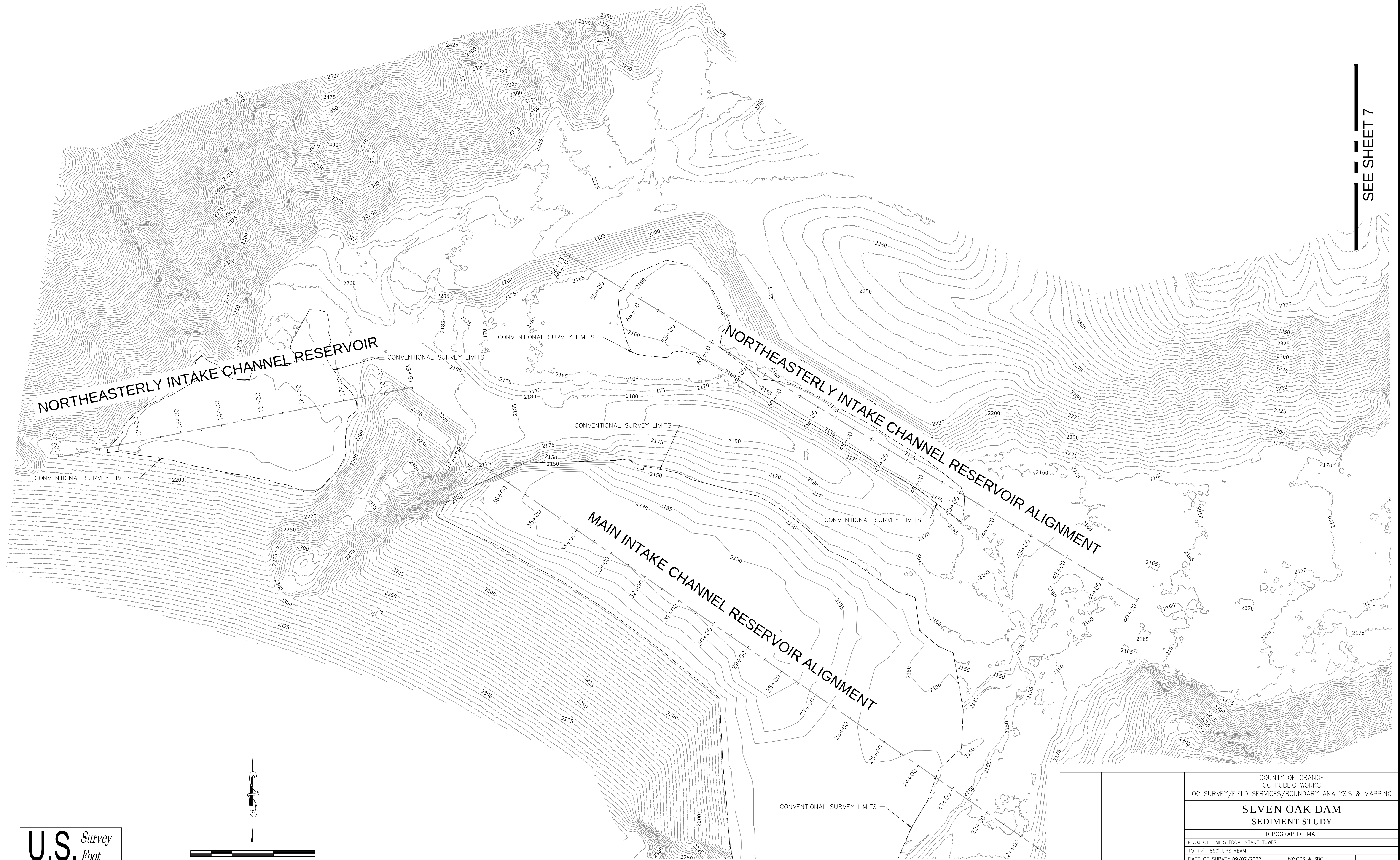
MARK	DATE	ITEM	COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			SEVEN OAK DAM SEDIMENT STUDY			
			ALIGNMENT ESTABLISHMENT			
			PROJECT LIMITS: FROM INTAKE TOWER			
			TO +/- 850' UPSTREAM			
			DATE OF SURVEY: 09/07/2022		BY: OCS & SBC	
			MAPPING		BY: X. XXXX	
			OFFICE CHECK		BY: E. MEDINA, PLS	
			FIELD CHECK		BY: OCS & SBC	
			SCALE: 1" = 50'		W.O. #EF40054	
FILE: SEVEN OAKS DAM_ALIGNMENT_2022.DWG						
REVISIONS				SHEET NO. 3 of 37		



NOTE:
THE ALIGNMENT SHOWN HEREON WAS DERIVED TO BEST FIT THE GEOMETRY OF THE RESERVOIR, AND IT'S NOT INTENDED FOR DESIGN OR CONSTRUCTION PURPOSES.

MARK	DATE	ITEM	COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			SEVEN OAK DAM SEDIMENT STUDY				
			ALIGNMENT ESTABLISHMENT				
			PROJECT LIMITS: FROM INTAKE TOWER				
			TO +/- 850' UPSTREAM				
			DATE OF SURVEY:09/07/2022		BY:OCS & SBC		SHEET NO. 4 of 37
			MAPPING		BY:X. XXXX		
			OFFICE CHECK		BY:E. MEDINA, PLS		
			FIELD CHECK		BY:OCS & SBC		
			SCALE:1" = 50'		W.O. #EF40054		
REVISIONS		FILE #2122PW-FP0002					
		FILE: SEVEN OAKS DAM_ALIGNMENT_2022.DWG					





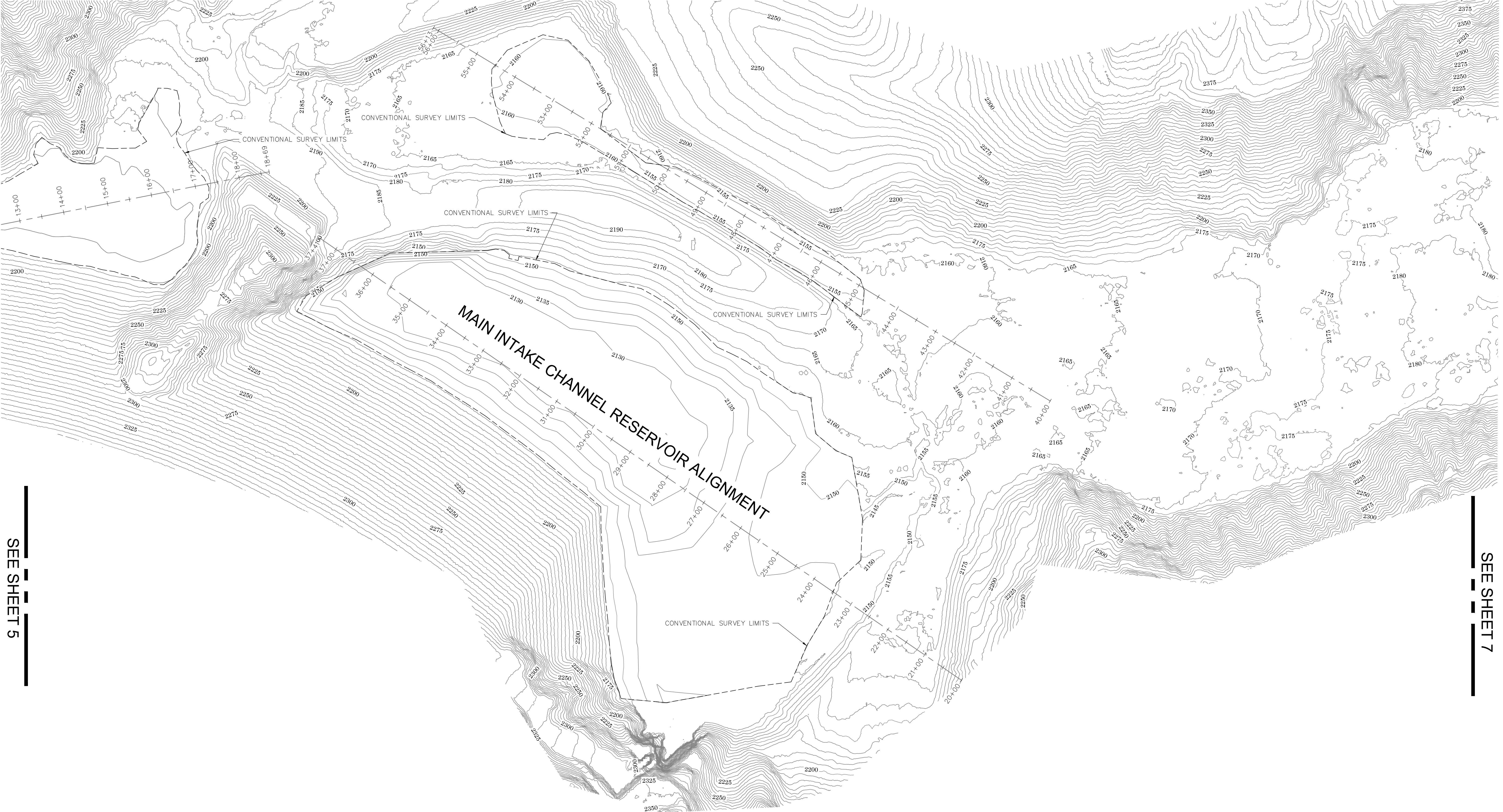
SEE SHEET 7

U.S. Survey
Foot
OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping

SCALE: 1" = 100'
CONTOUR INTERVAL: 5'

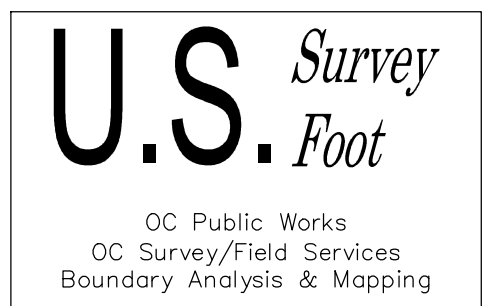
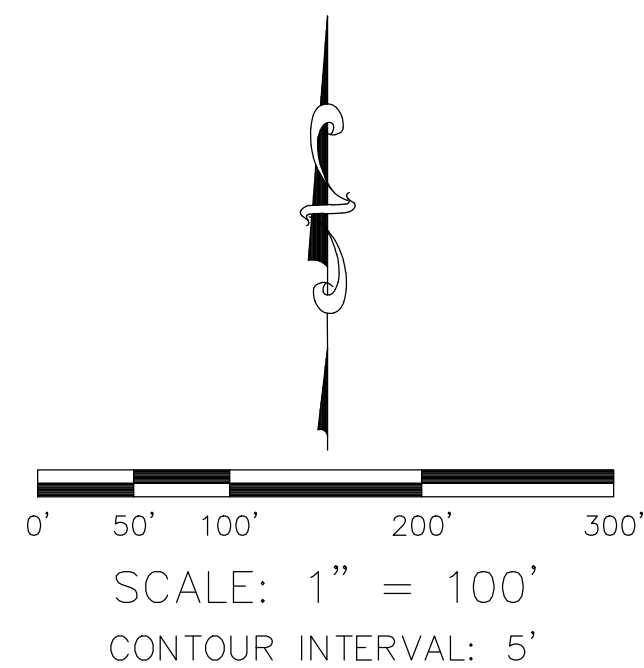
SEE SHEET 6

			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			SEVEN OAK DAM SEDIMENT STUDY				
			TOPOGRAPHIC MAP				
			PROJECT LIMITS: FROM INTAKE TOWER TO +/- 850' UPSTREAM				
			DATE OF SURVEY: 09/07/2022		BY: OCS & SBC		SHEET NO. 5 of 37
			MAPPING		BY: H. AFTIM, PLS		
			OFFICE CHECK		BY: E. MEDINA, PLS		
			FIELD CHECK		BY: OCS & SBC		
			SCALE: 1" = 50'		W.O. #EF40054 FILE # 2122PW-FP0002		
			FILE: SEVEN OAKS DAM_TOPO_2022.DWG				
MARK	DATE	ITEM	REVISIONS				



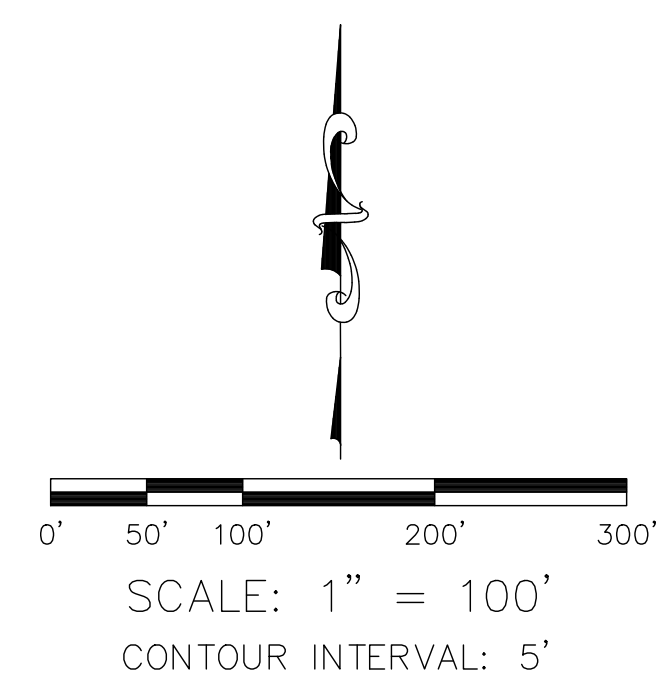
SEE SHEET 5

SEE SHEET 7



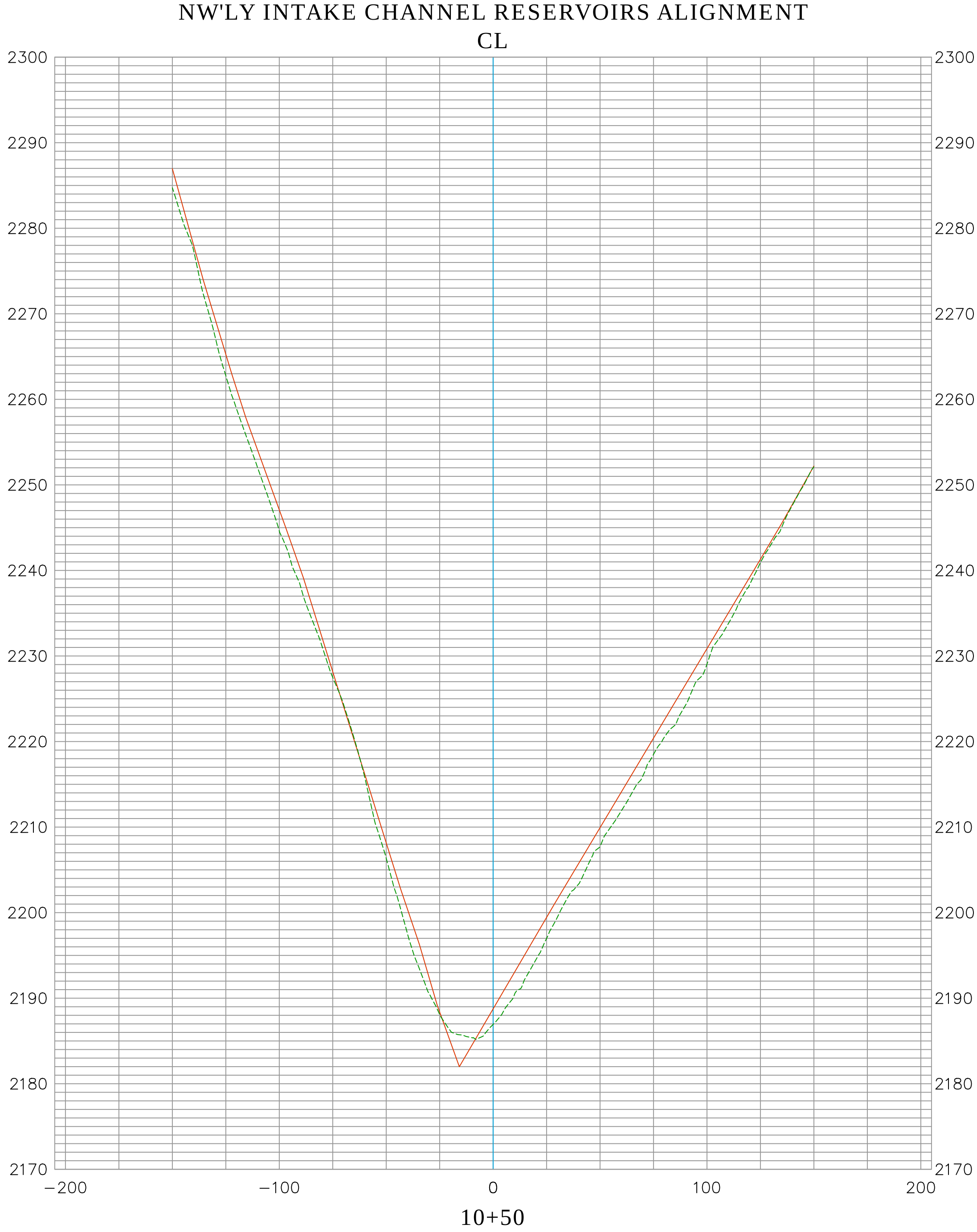
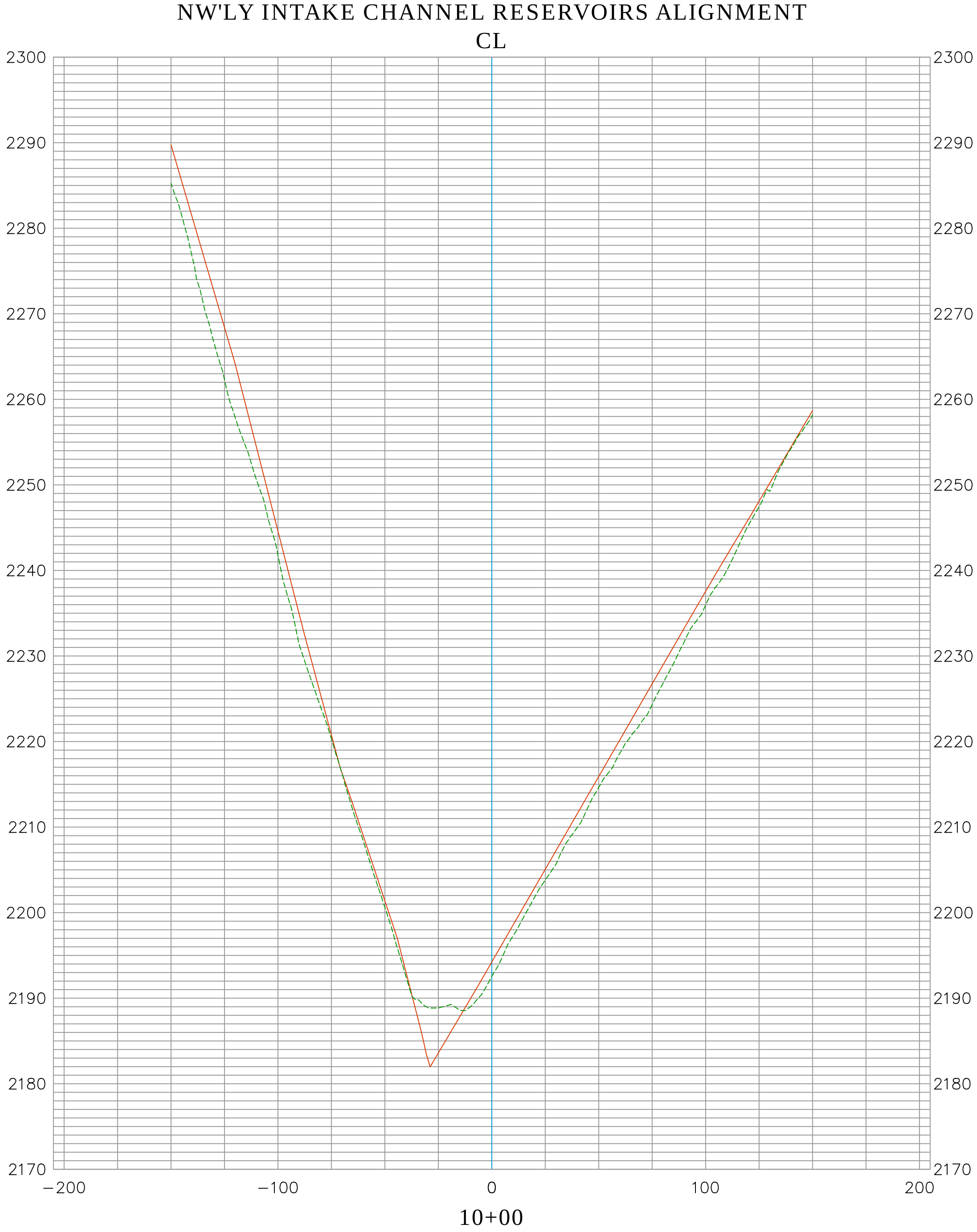
			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			SEVEN OAK DAM SEDIMENT STUDY				
			TOPOGRAPHIC MAP				
			PROJECT LIMITS: FROM INTAKE TOWER				
			TO +/- 850' UPSTREAM				
			DATE OF SURVEY: 09/07/2022		BY: OCS & SBC		SHEET NO. 6 of 37
			MAPPING		BY: H. AFTIM, PLS		
			OFFICE CHECK		BY: E. MEDINA, PLS		
			FIELD CHECK		BY: OCS & SBC		
			SCALE: 1" = 50'		W.O. #EF40054		
FILE: SEVEN OAKS DAM_TOPO_2022.DWG		FILE #2122PW-FP0002					
MARK	DATE	ITEM	REVISIONS				

SEE SHEET 6



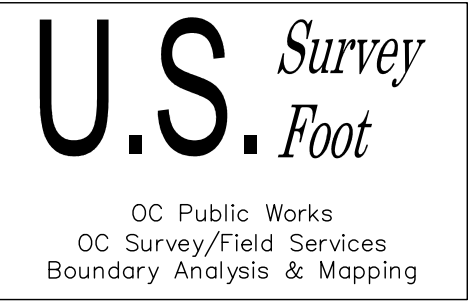
U.S. *Survey Foot*
OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping

		COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
		SEVEN OAK DAM SEDIMENT STUDY				
		TOPOGRAPHIC MAP				
		PROJECT LIMITS: FROM INTAKE TOWER TO +/- 850' UPSTREAM				
		DATE OF SURVEY: 09/07/2022		BY: OCS & SBC		SHEET NO. 7 of 37
		MAPPING		BY: H. AFTIM, PLS		
		OFFICE CHECK		BY: E. MEDINA, PLS		
		FIELD CHECK		BY: OCS & SBC		
		SCALE: 1" = 50'		W.O. #EF40054		
		MARK	DATE	ITEM		FILE: SEVEN OAKS DAM_TOPO_2022.DWG
REVISIONS		FILE # 2122PW-FP0002				

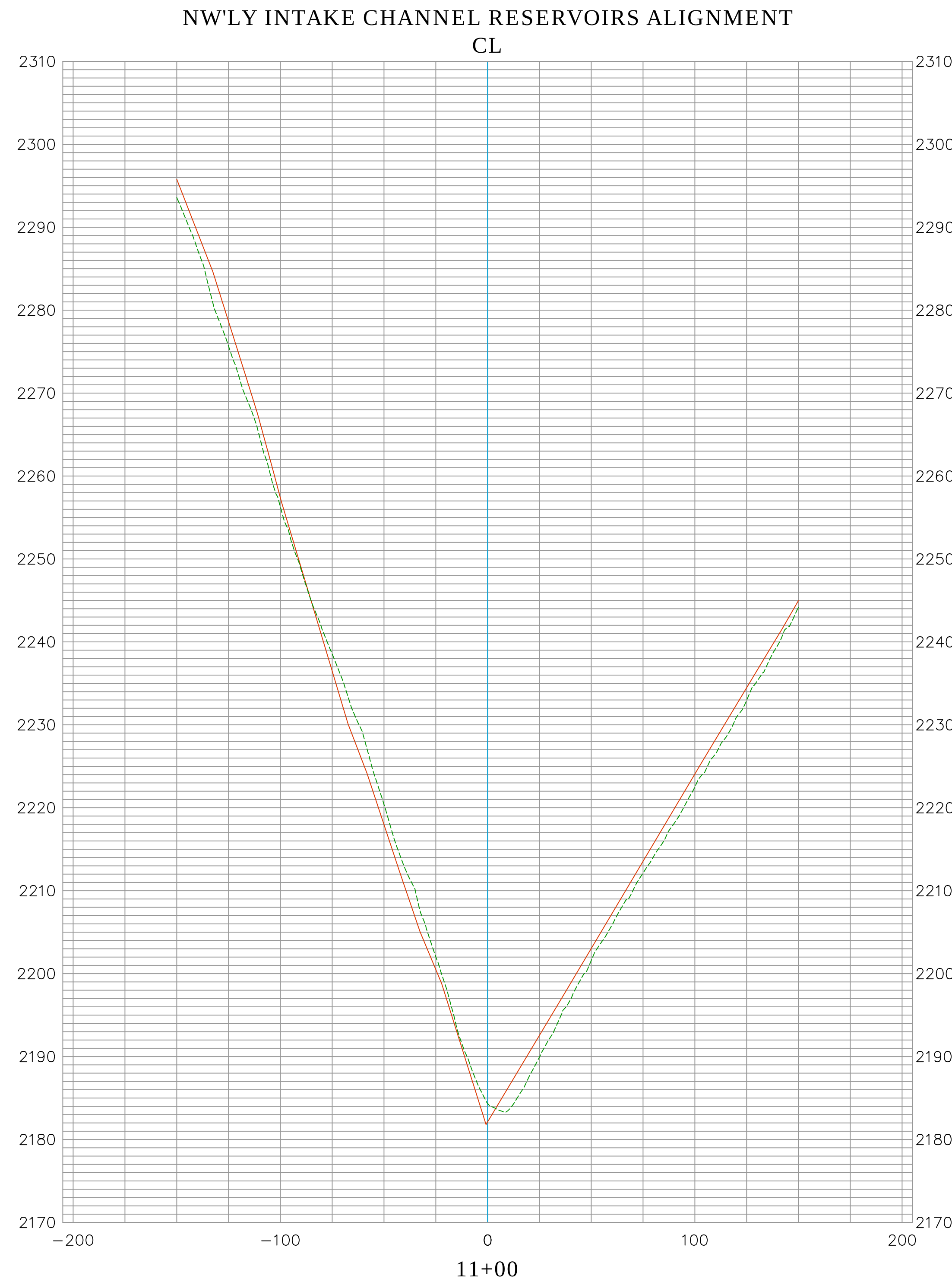


EXISTING CONDITION 2022
AERIAL LIDAR AS-BUILT 2002
DATE PREPARED:09/29/2022

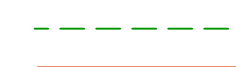
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Hor. Scale: 1"=40'



			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
			SEVEN OAK DAM SEDIMENT STUDY		
			SECTIONS		
			PROJECT LIMITS: FROM INTAKE TOWER		
			TO +/- 850' UPSTREAM		
			DATE OF SURVEY:09/07/2022	BY:OCS & SBC	SHEET NO. 8 of 37
			MAPPING	BY:H. AFTIM, PLS	
			OFFICE CHECK	BY:E. MEDINA, PLS	
			FIELD CHECK	BY:OCS & SBC	
MARK	DATE	ITEM	SCALE:1" = 40'	W.O. #EF40054	FILE #2122PW-FP0002
REVISIONS			FILE:SEVEN_OAKS_DAM_SECTIONS_2022.DWG		

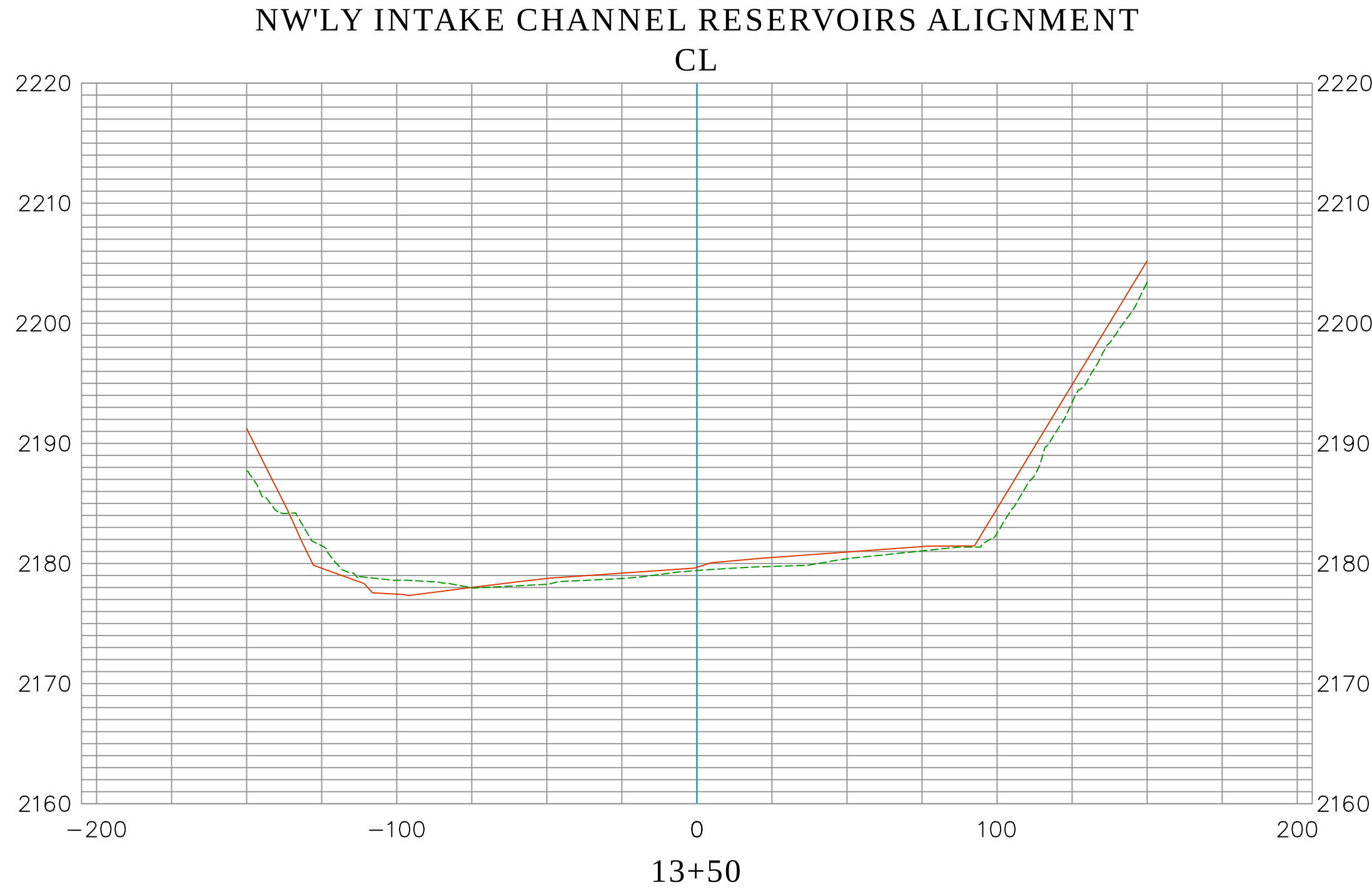
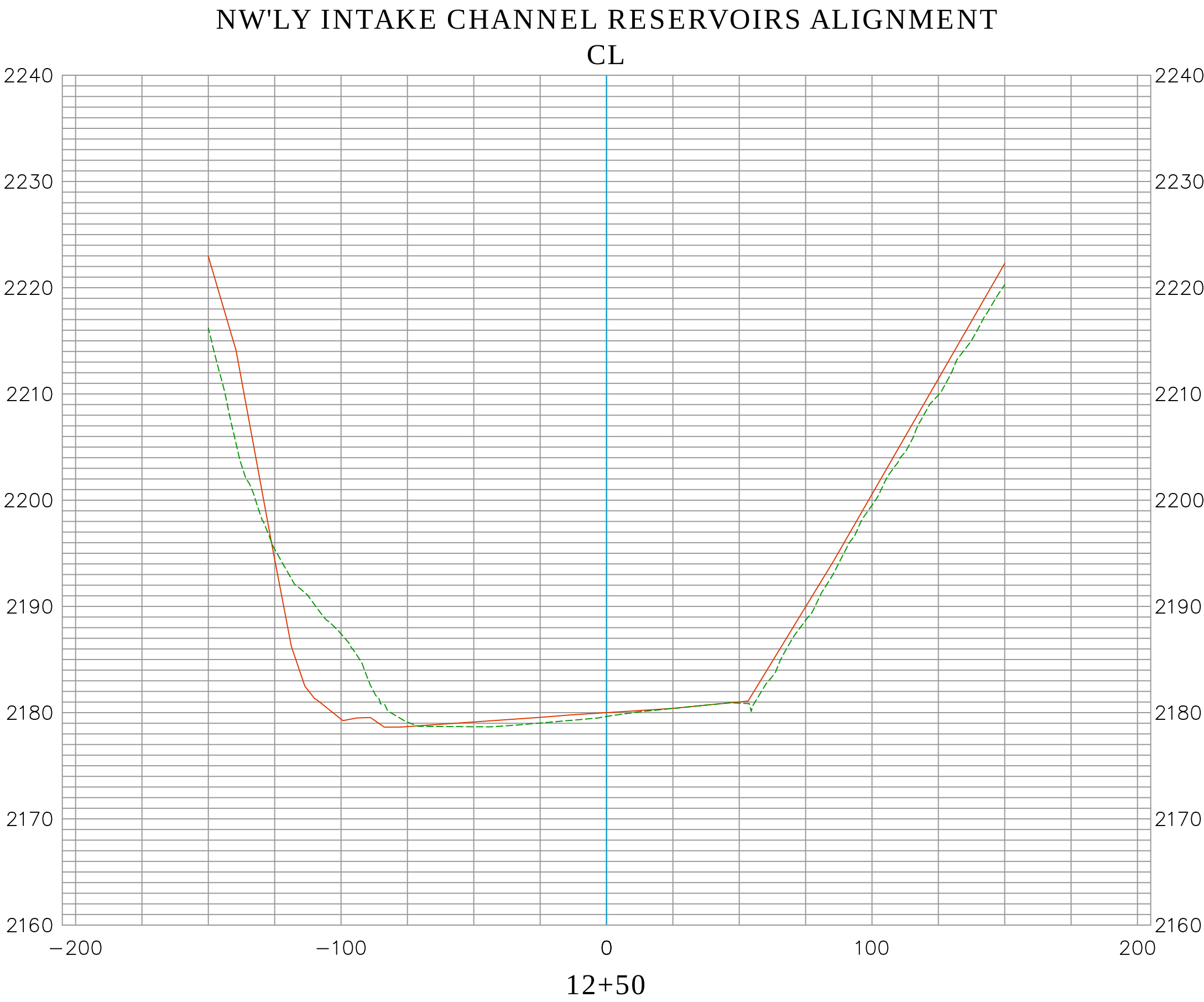
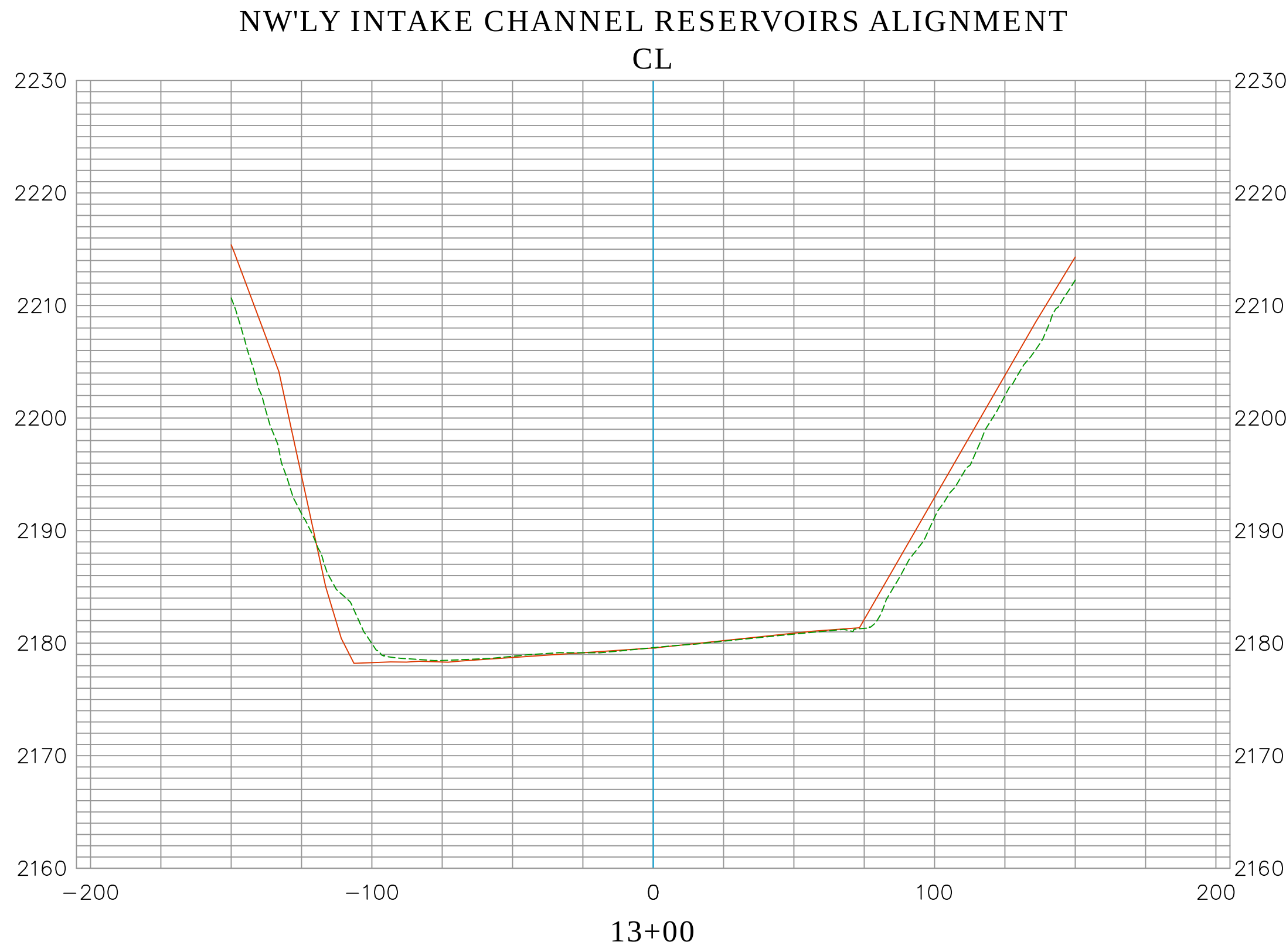
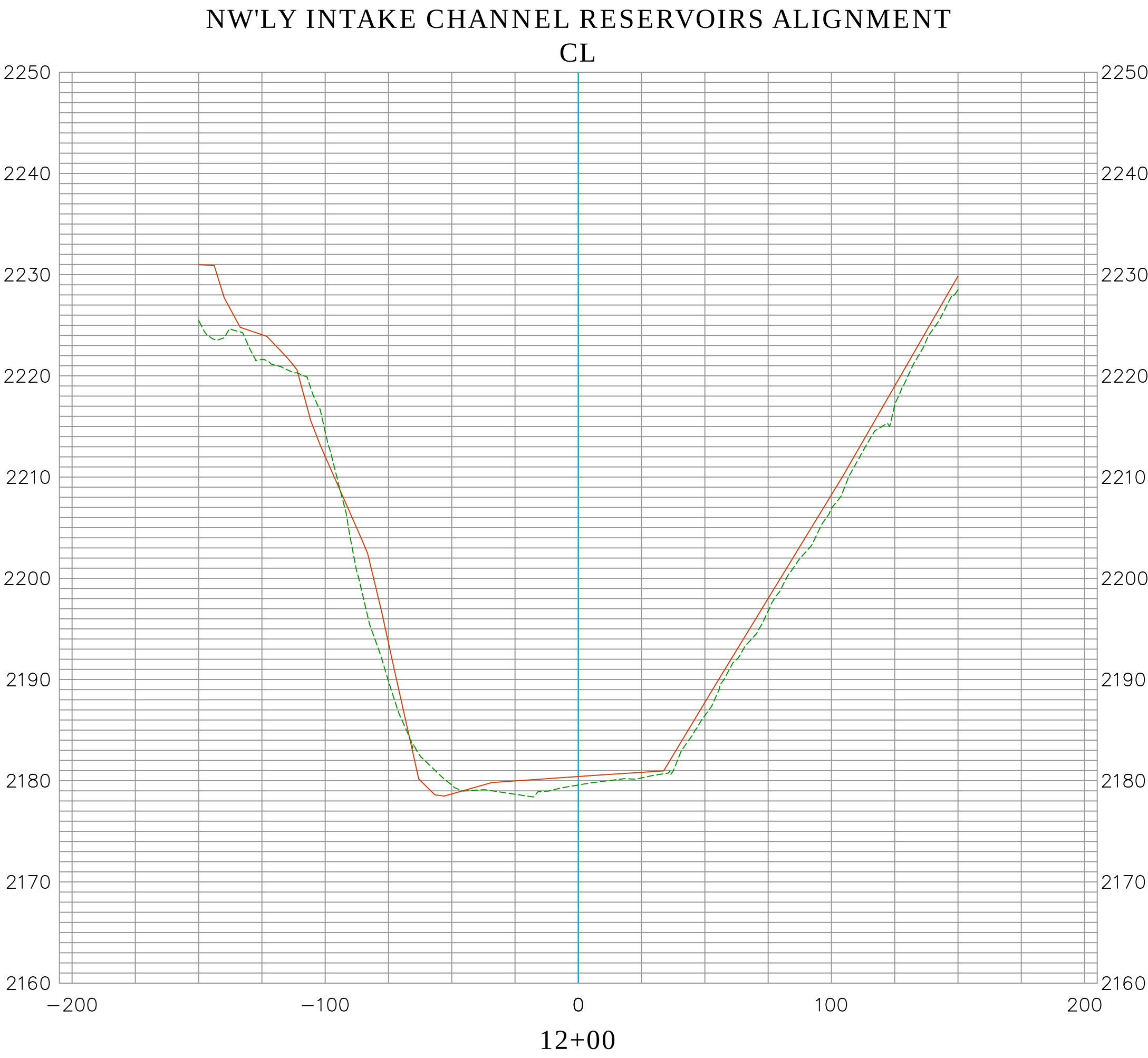


EXISTING CONDITION 2022
AERIAL LIDAR AS-BUILT 2002
DATE PREPARED: 09/29/2022



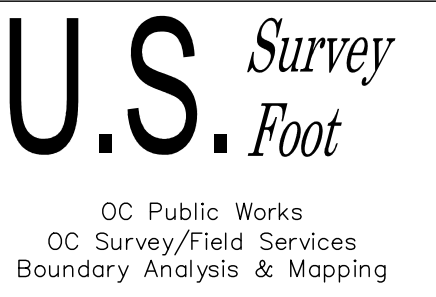
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Hor. Scale: 1"=40'

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
			SEVEN OAK DAM SEDIMENT STUDY		
			SECTIONS		
			PROJECT LIMITS: FROM INTAKE TOWER		
			TO +/- 850' UPSTREAM		
			DATE OF SURVEY: 09/07/2022	BY: OCS & SBC	SHEET NO. 9 of 37
			MAPPING	BY: H. AFTIM, PLS	
			OFFICE CHECK	BY: E. MEDINA, PLS	
			FIELD CHECK	BY: OCS & SBC	
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REVISIONS			FILE: SEVEN OAKS DAM_SECTIONS_2022.DWG		

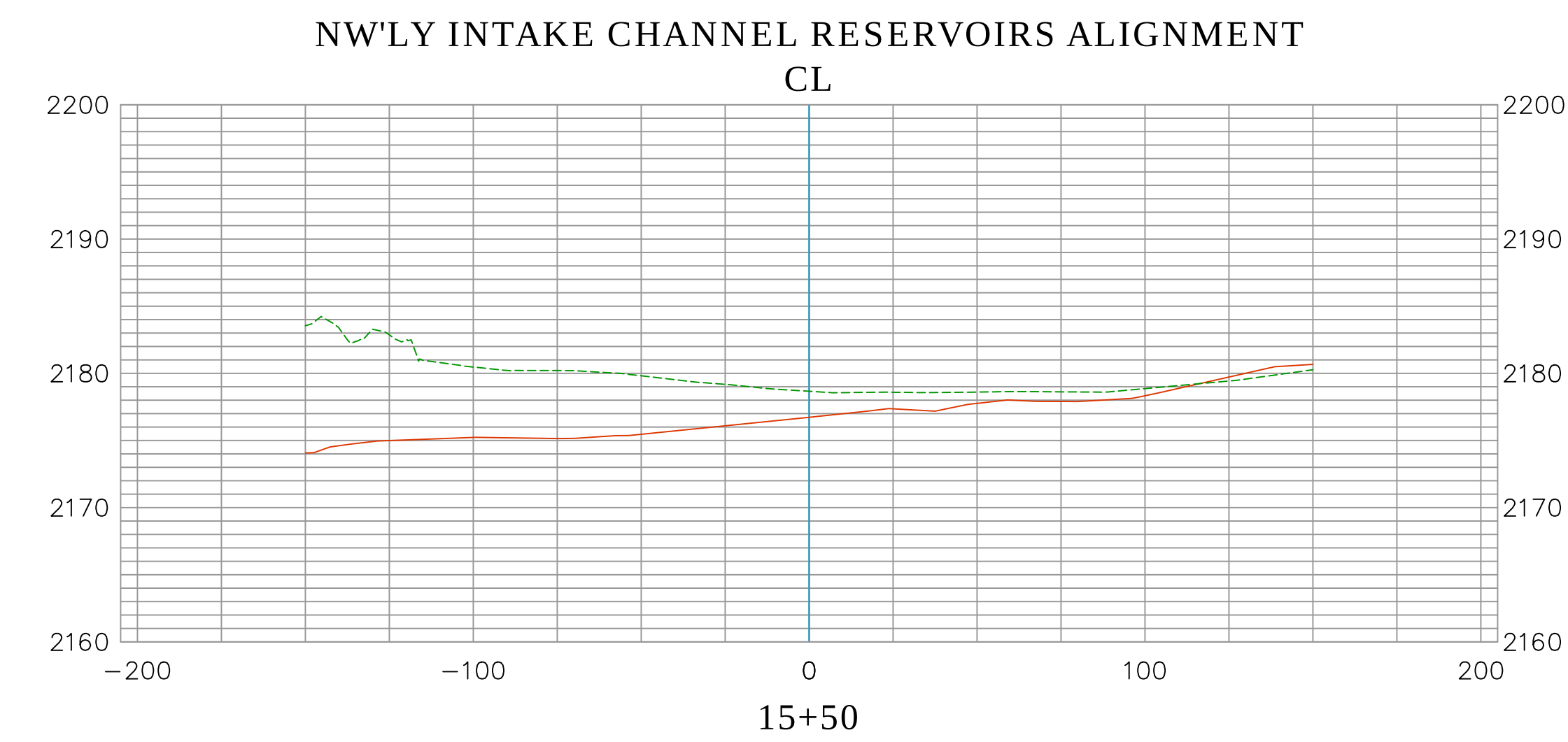
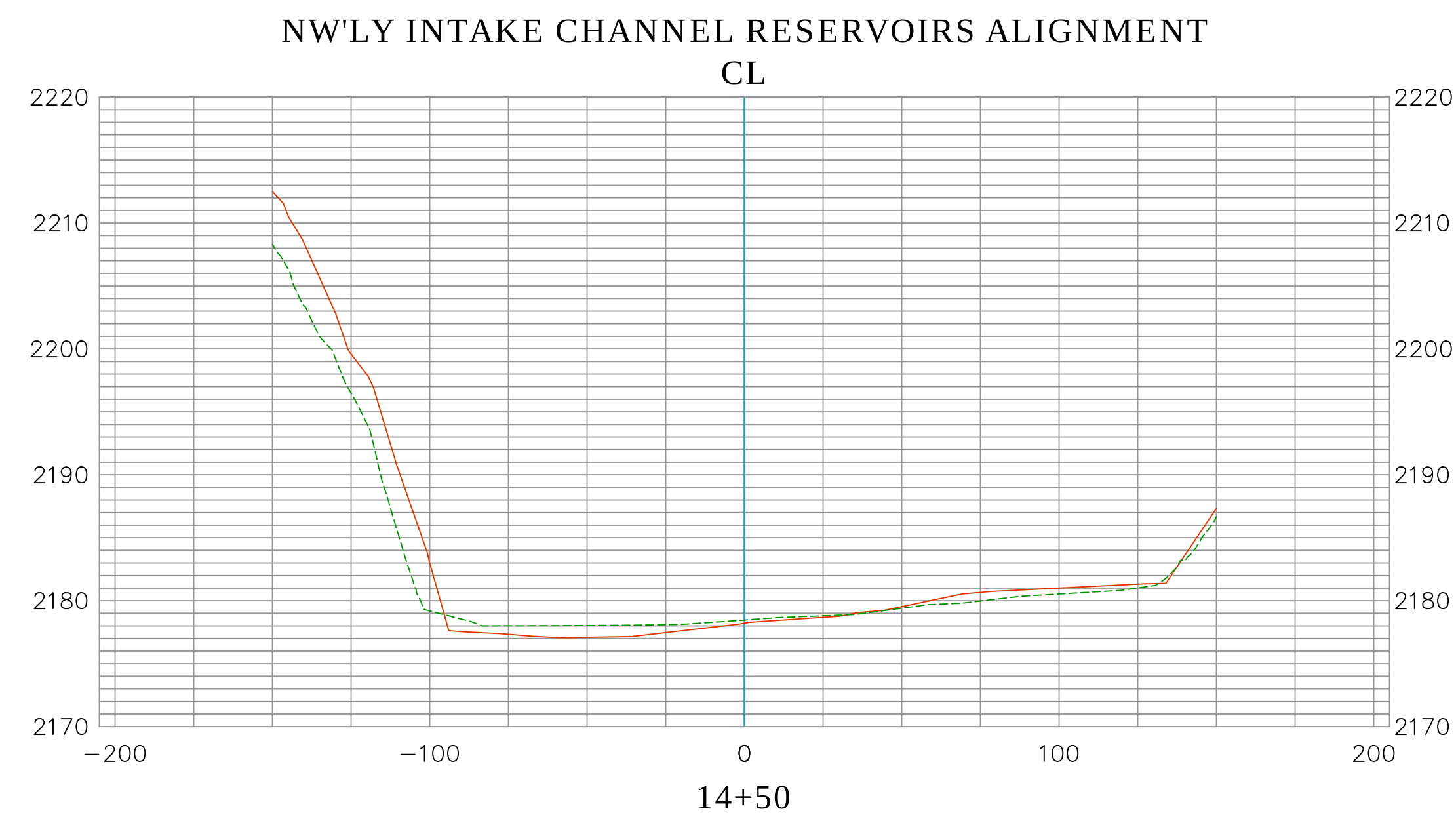
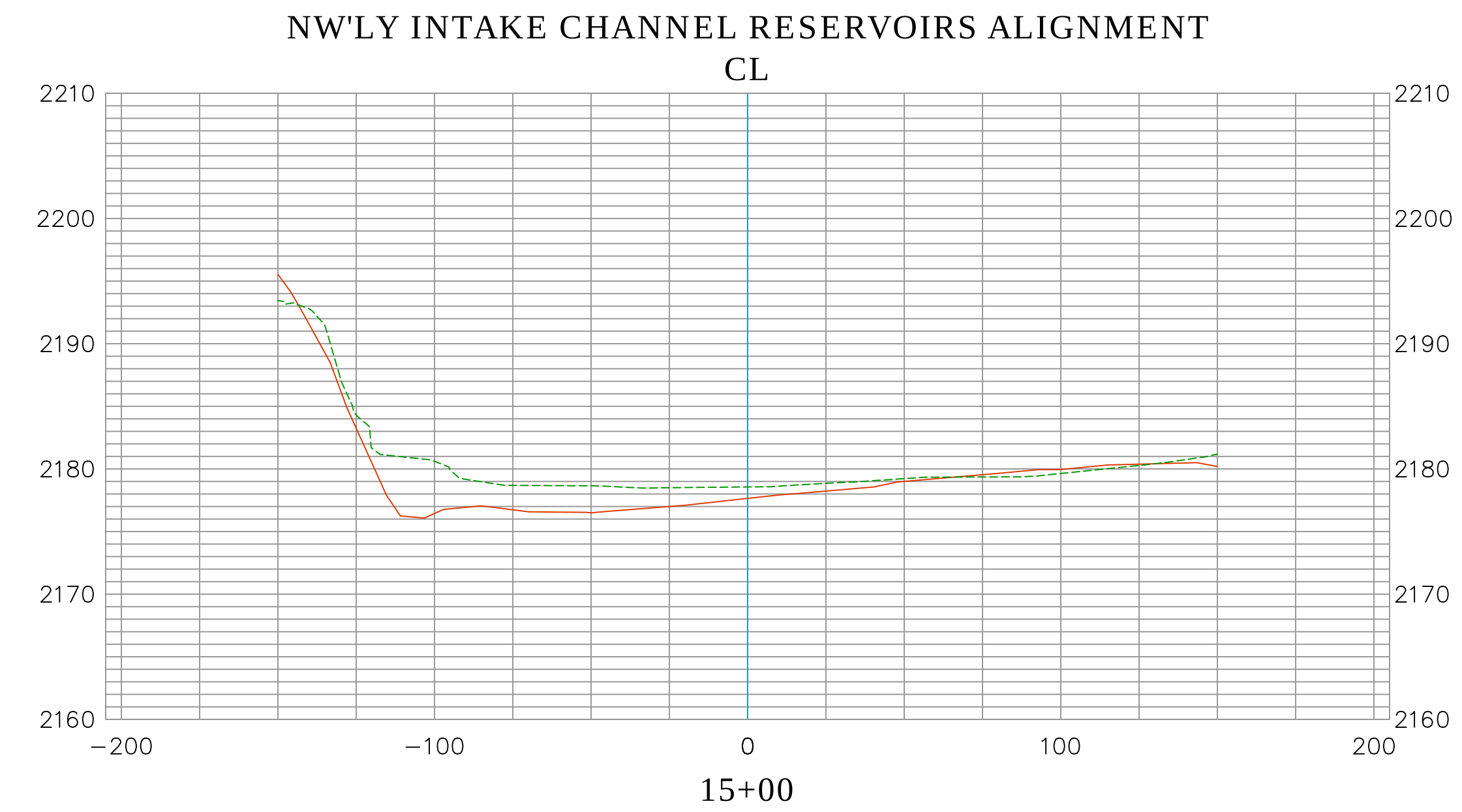
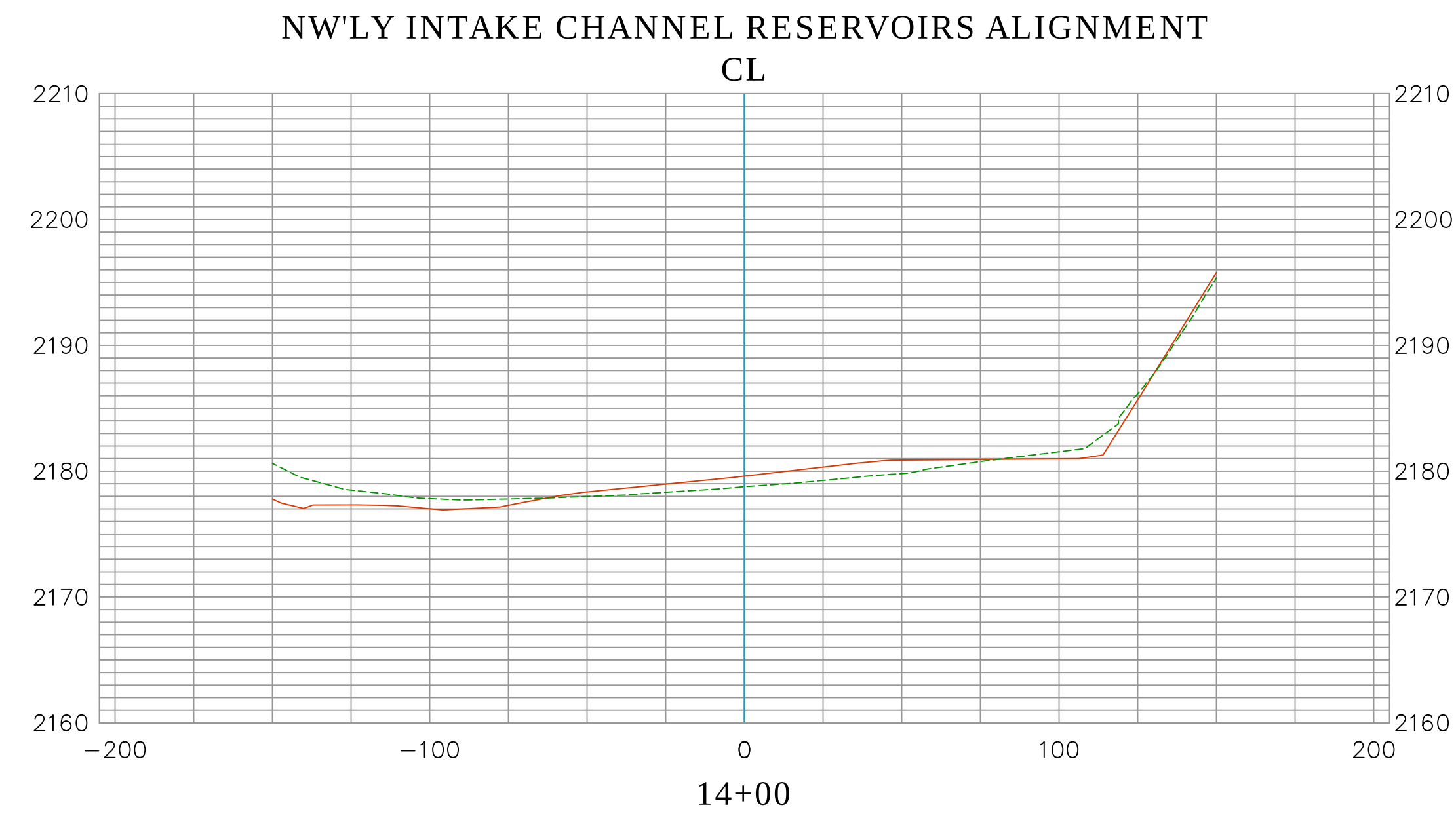


EXISTING CONDITION 2022
AERIAL LIDAR AS-BUILT 2002
DATE PREPARED:09/29/2022

Vert. Scale: 1"=10'
Hor. Scale: 1"=40'



			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			SEVEN OAK DAM SEDIMENT STUDY				
			SECTIONS				
			PROJECT LIMITS: FROM INTAKE TOWER				
			TO +/- 850' UPSTREAM				
			DATE OF SURVEY: 09/07/2022		BY: OCS & SBC		SHEET NO. 10 of 37
			MAPPING		BY: H. AFTIM, PLS		
			OFFICE CHECK		BY: E. MEDINA, PLS		
			FIELD CHECK		BY: OCS & SBC		
			SCALE: 1" = 40'		W.O. #EF40054	FILE #2122PW-FP0002	
FILE: SEVEN OAKS DAM_SECTIONS_2022.DWG							
MARK	DATE	ITEM					
REVISIONS							

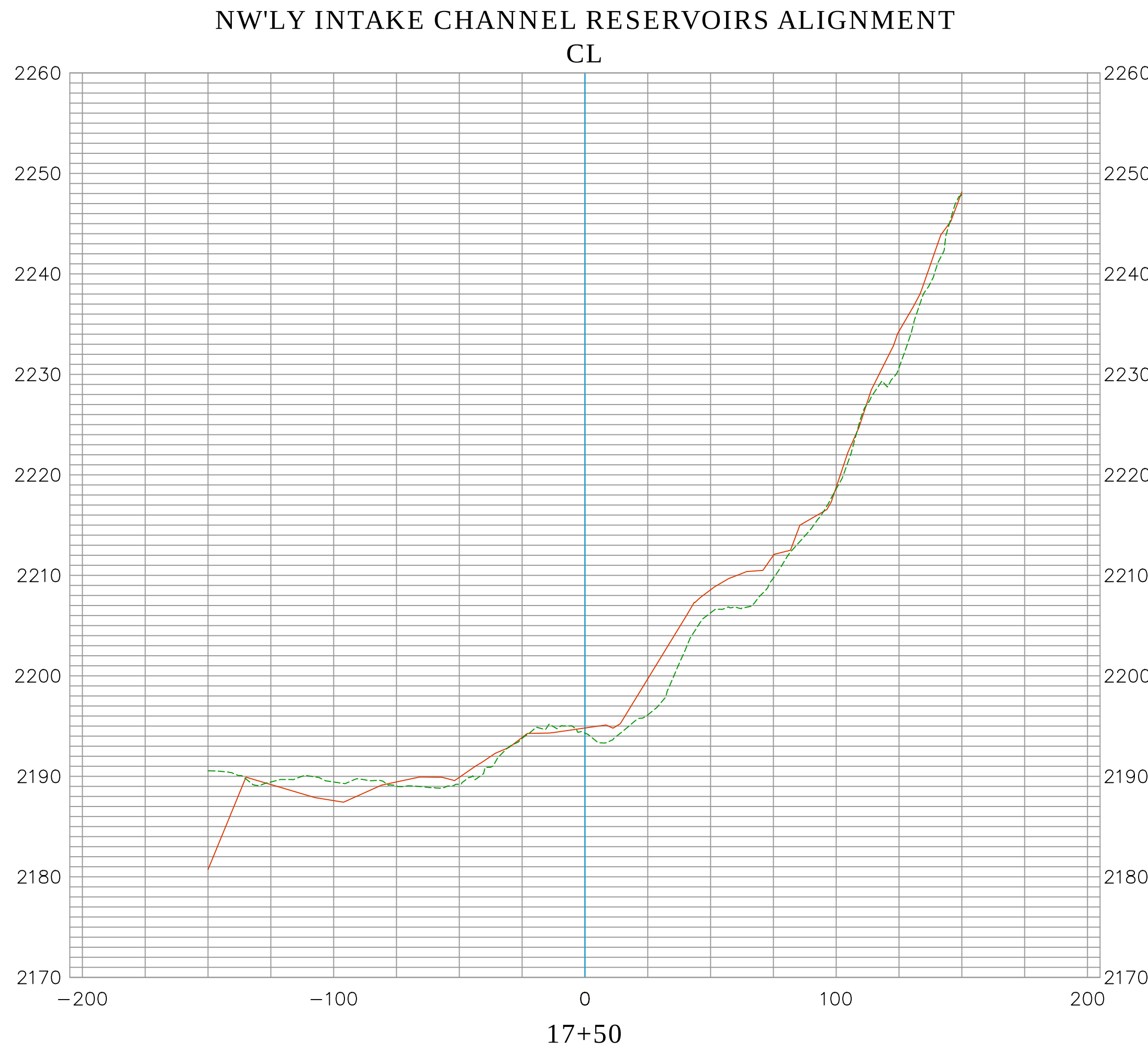
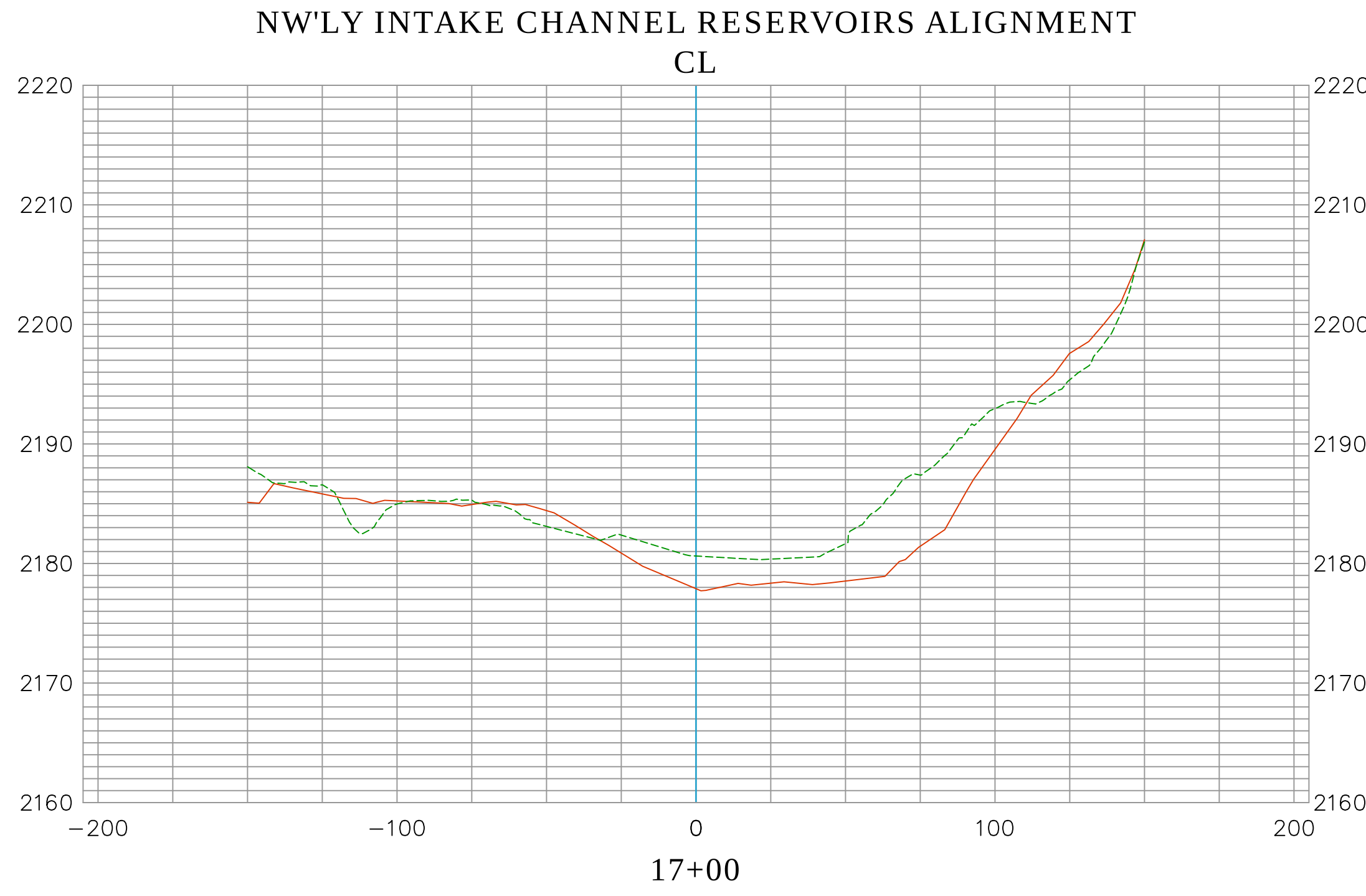
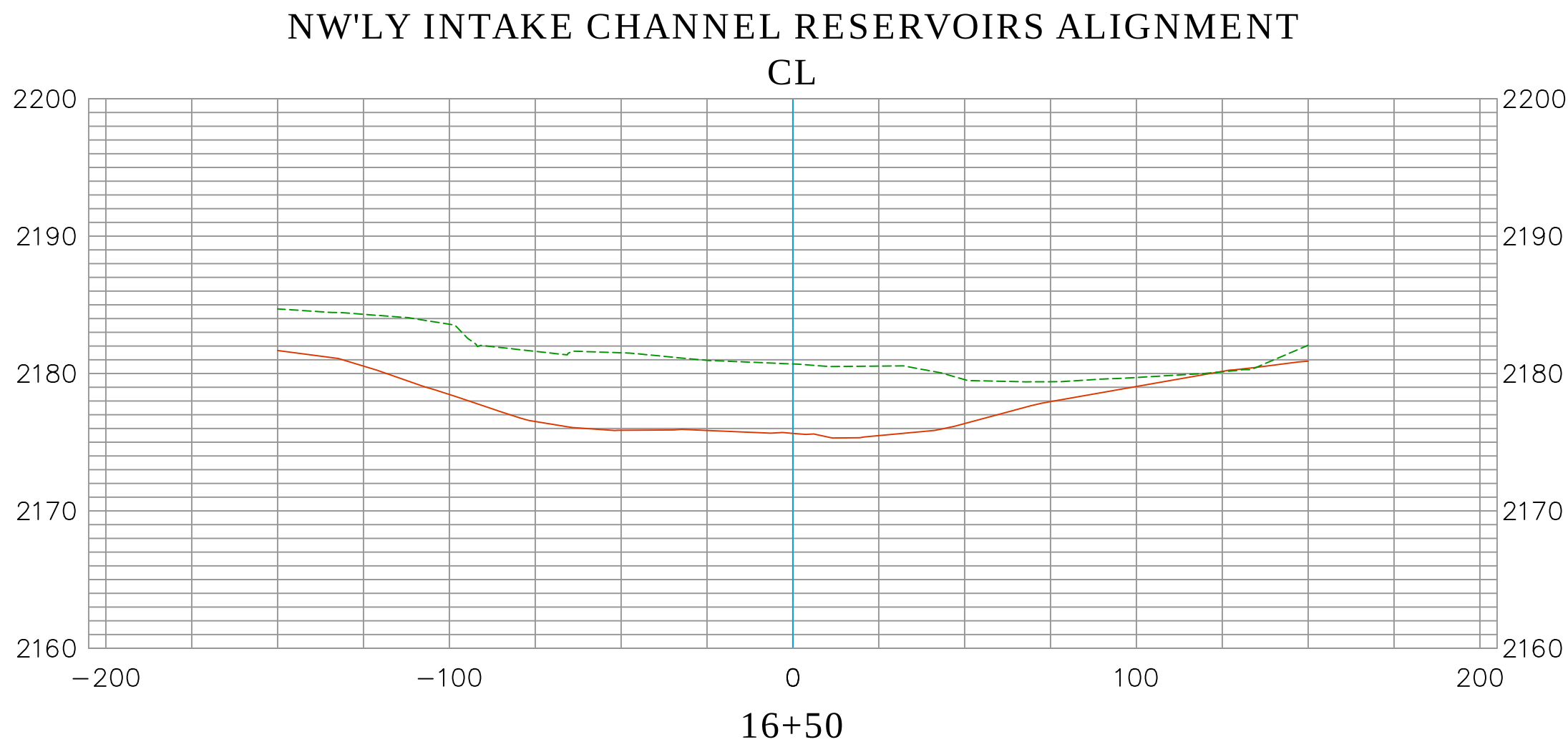
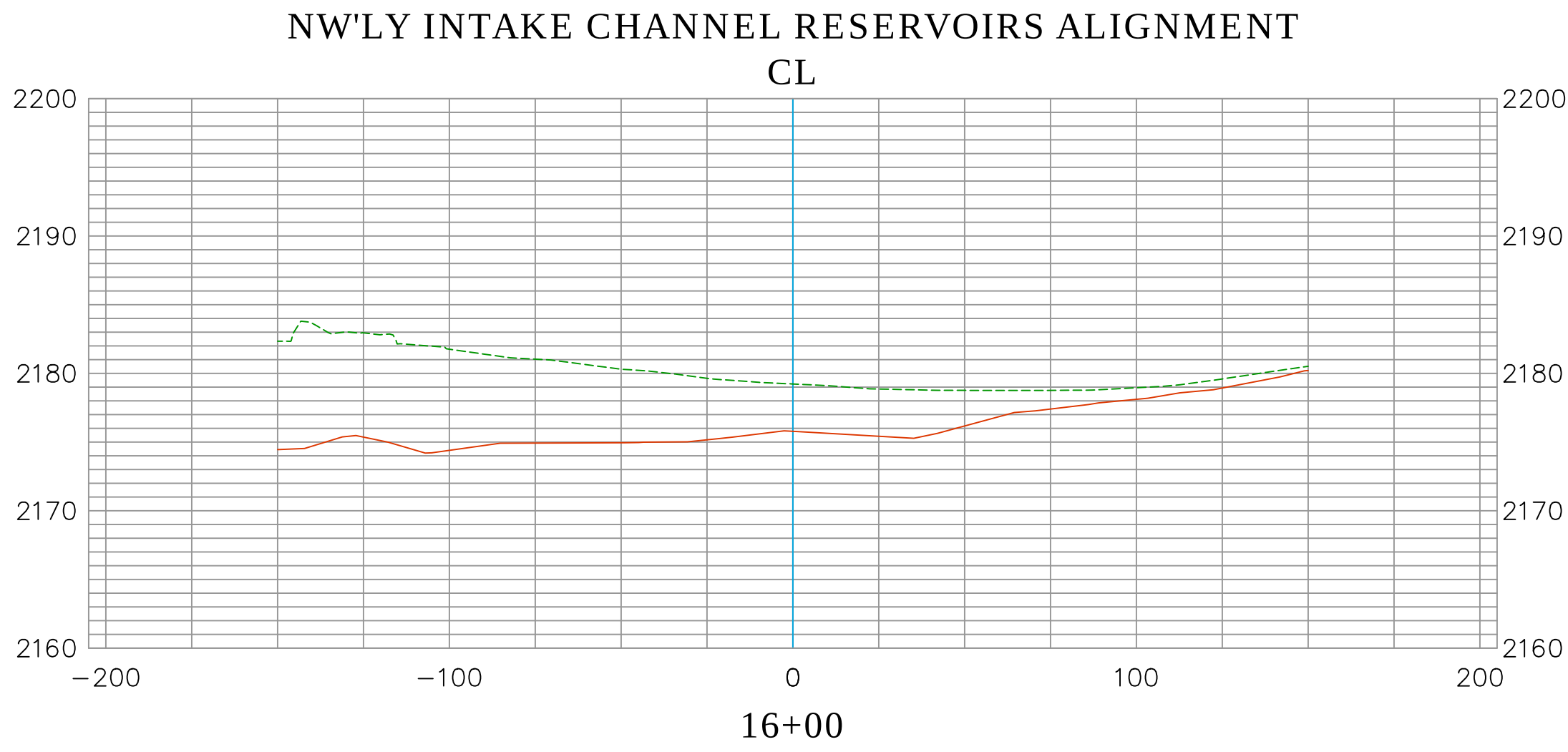


EXISTING CONDITION 2022
AERIAL LIDAR AS-BUILT 2002
DATE PREPARED: 09/29/2022

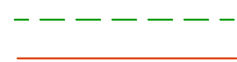


Vert. Scale: 1"=10'
Hor. Scale: 1"=40'

		COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
		SEVEN OAK DAM SEDIMENT STUDY			
		SECTIONS			
		PROJECT LIMITS: FROM INTAKE TOWER TO +/- 850' UPSTREAM			
		DATE OF SURVEY: 09/07/2022	BY: OCS & SBC	SHEET NO. 11 of 37	
		MAPPING	BY: H. AFTIM, PLS		
		OFFICE CHECK	BY: E. MEDINA, PLS		
		FIELD CHECK	BY: OCS & SBC		
MARK	DATE	ITEM	SCALE: 1" = 40'	W.O. #EF40054	FILE #2122PW-FP0002
REVISIONS			FILE: SEVEN OAKS DAM_SECTIONS_2022.DWG		

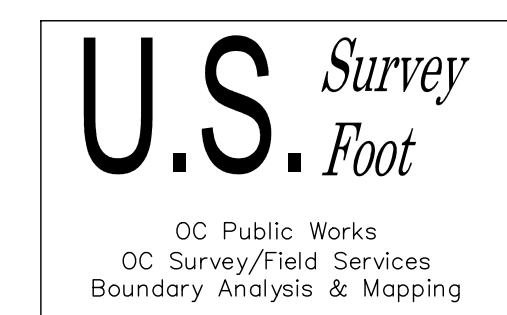
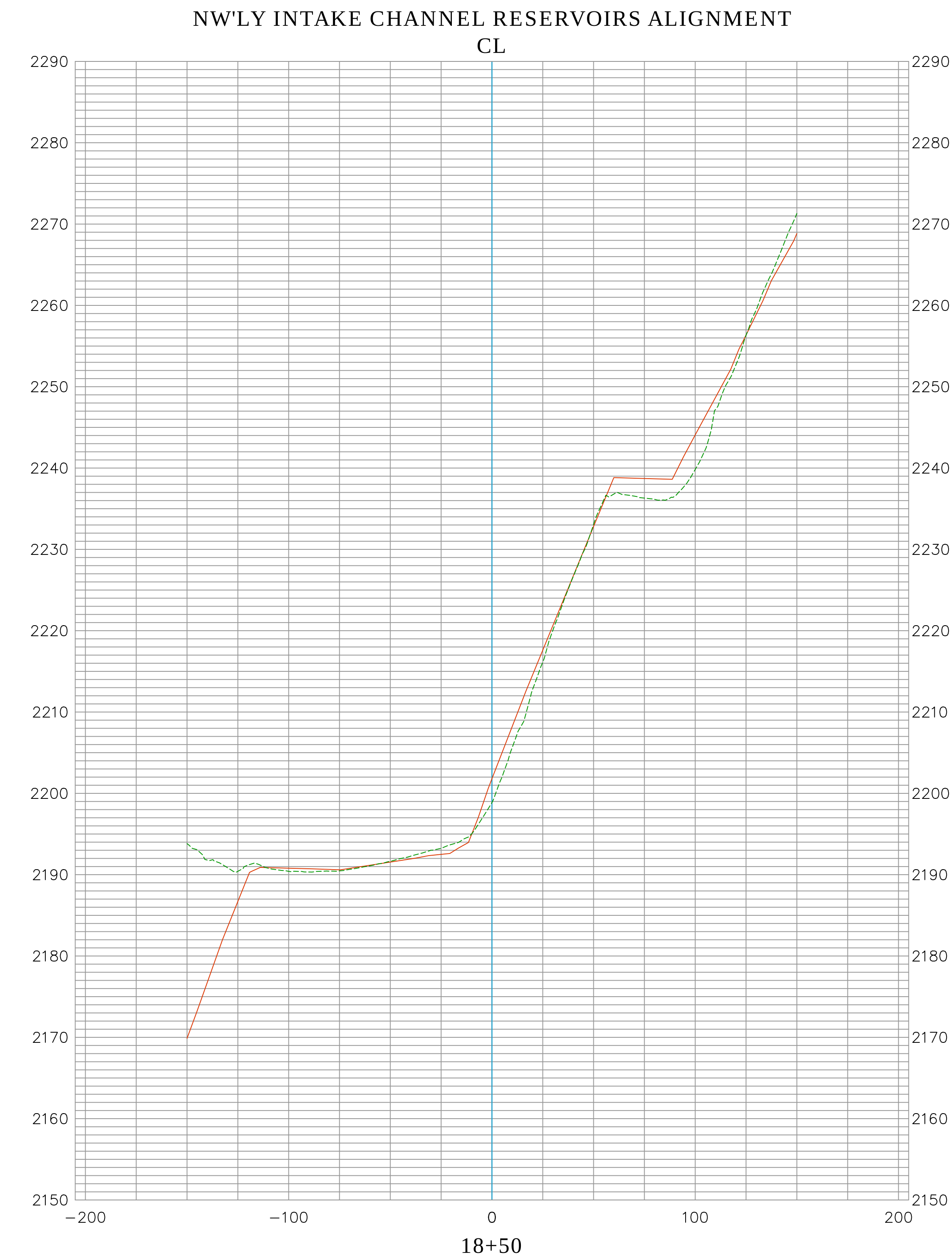
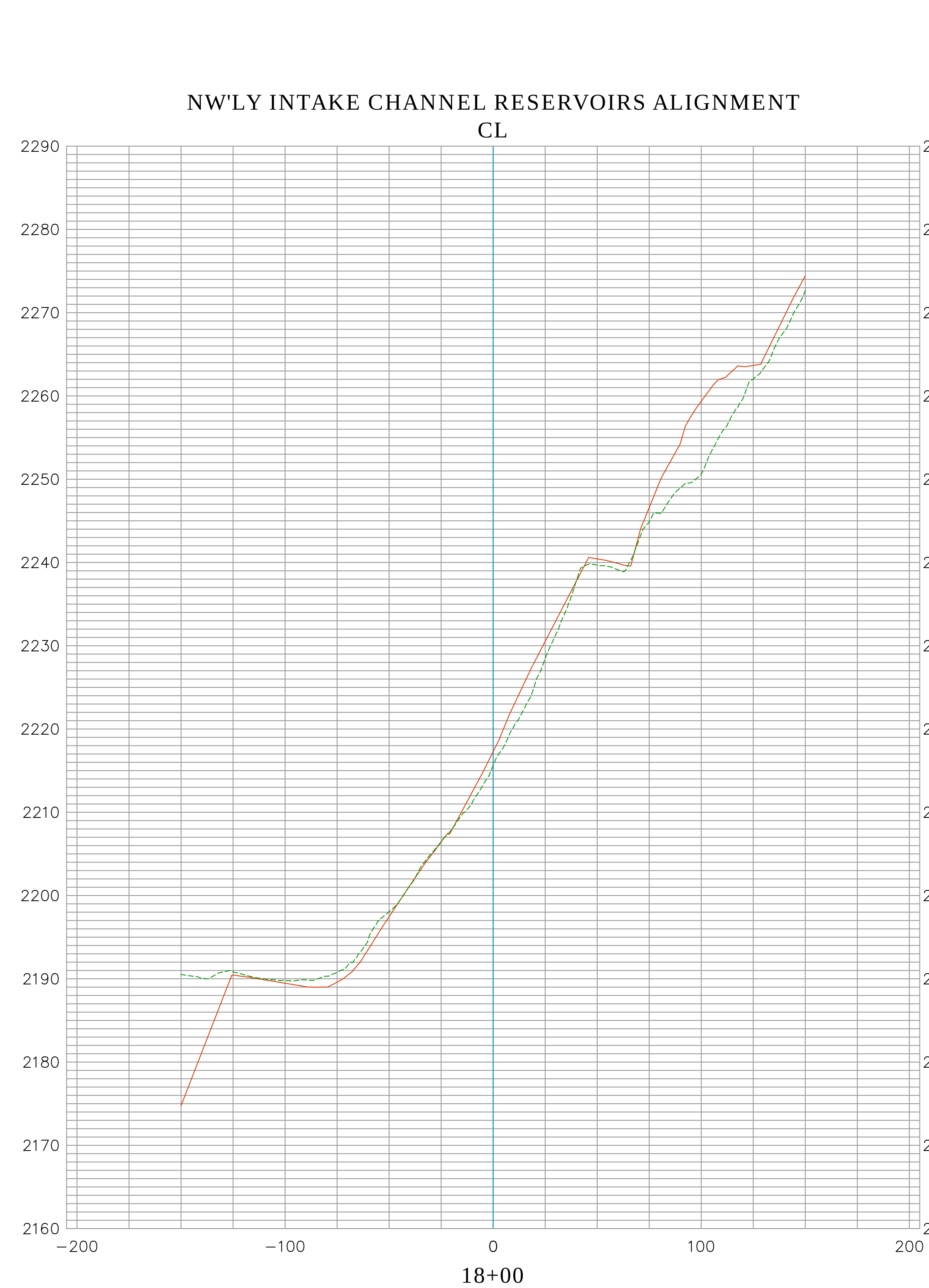


EXISTING CONDITION 2022
AERIAL LIDAR AS-BUILT 2002
DATE PREPARED: 09/29/2022

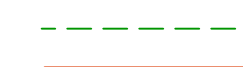


Vert. Scale: 1"=10'
Hor. Scale: 1"=40'

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
			SEVEN OAK DAM SEDIMENT STUDY		
			SECTIONS		
			PROJECT LIMITS: FROM INTAKE TOWER		
			TO +/- 850' UPSTREAM		
			DATE OF SURVEY: 09/07/2022	BY: OCS & SBC	SHEET NO. 12 of 37
			MAPPING	BY: H. AFTIM, PLS	
			OFFICE CHECK	BY: E. MEDINA, PLS	
			FIELD CHECK	BY: OCS & SBC	
			SCALE: 1" = 40'	W.O. #EF40054	FILE #2122PW-FP0002
			FILE: SEVEN OAKS DAM_SECTIONS_2022.DWG		
MARK	DATE	ITEM	REVISIONS		

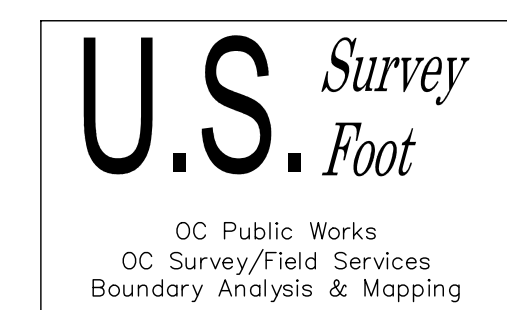
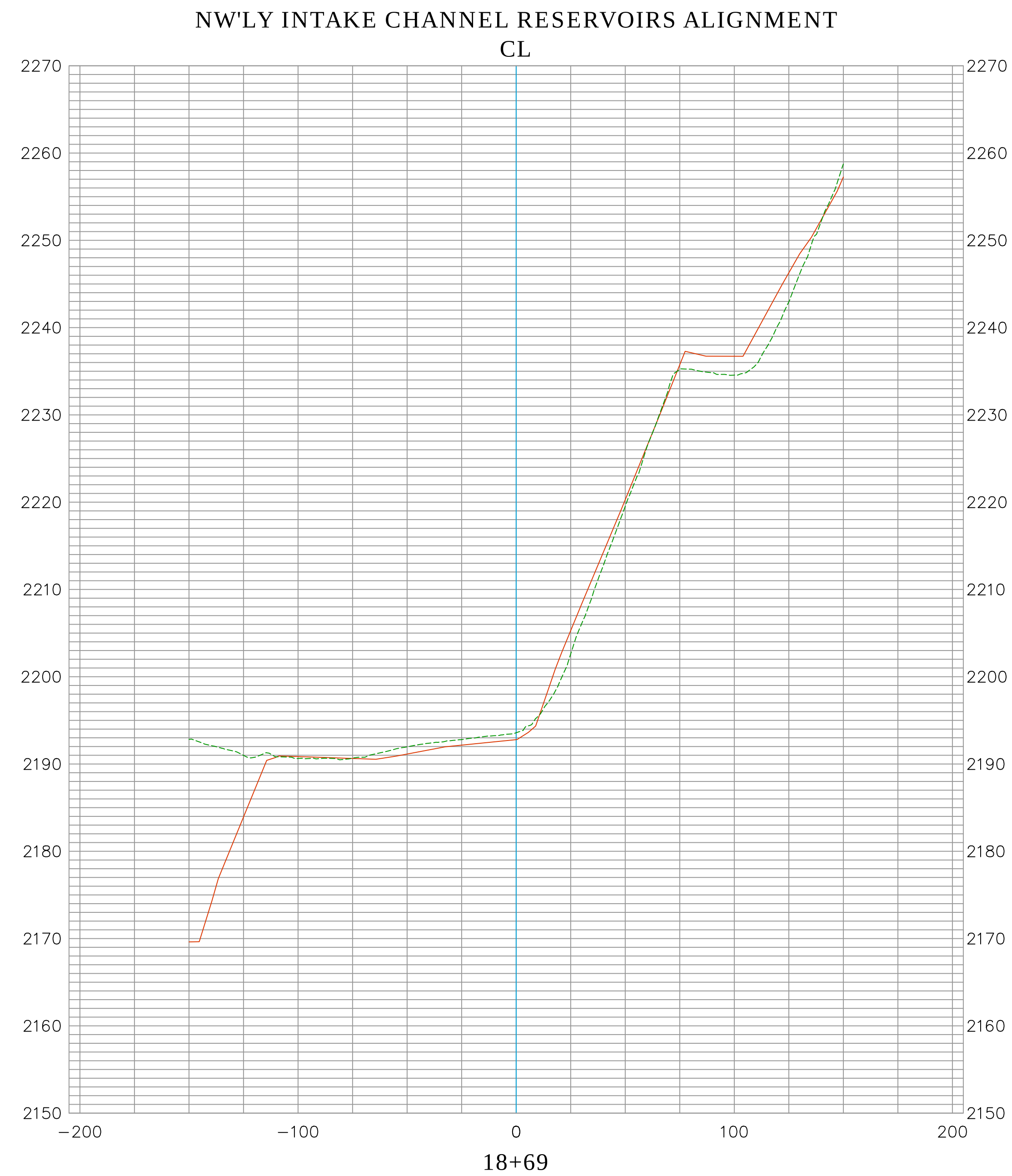


EXISTING CONDITION 2022
AERIAL LIDAR AS-BUILT 2002
DATE PREPARED: 09/29/2022

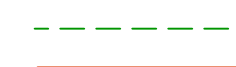


Vert. Scale: 1"=10'
Hor. Scale: 1"=40'

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
			SEVEN OAK DAM SEDIMENT STUDY		
			SECTIONS		
			PROJECT LIMITS: FROM INTAKE TOWER		
			TO +/- 850' UPSTREAM		
			DATE OF SURVEY: 09/07/2022	BY: OCS & SBC	SHEET NO. 13 of 37
			MAPPING	BY: H. AFTIM, PLS	
			OFFICE CHECK	BY: E. MEDINA, PLS	
			FIELD CHECK	BY: OCS & SBC	
			SCALE: 1" = 40'	W.O. #EF40054	FILE #2122PW-FP0002
			FILE: SEVEN OAKS DAM_SECTIONS_2022.DWG		
MARK	DATE	ITEM	REVISIONS		



EXISTING CONDITION 2022
AERIAL LIDAR AS-BUILT 2002
DATE PREPARED: 09/29/2022



Vert. Scale: 1"=10'
Hor. Scale: 1"=40'

COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
SEVEN OAK DAM SEDIMENT STUDY			
SECTIONS			
PROJECT LIMITS: FROM INTAKE TOWER			
TO +/- 850' UPSTREAM			
DATE OF SURVEY: 09/07/2022		BY: OCS & SBC	
MAPPING		BY: H. AFTIM, PLS	
OFFICE CHECK		BY: E. MEDINA, PLS	
FIELD CHECK		BY: OCS & SBC	
SCALE: 1" = 40'		W.O. #EF40054	FILE #2122PW-FP0002
FILE: SEVEN OAKS DAM_SECTIONS_2022.DWG			
MARK	DATE	ITEM	
REVISIONS			
			SHEET NO. 14 of 37

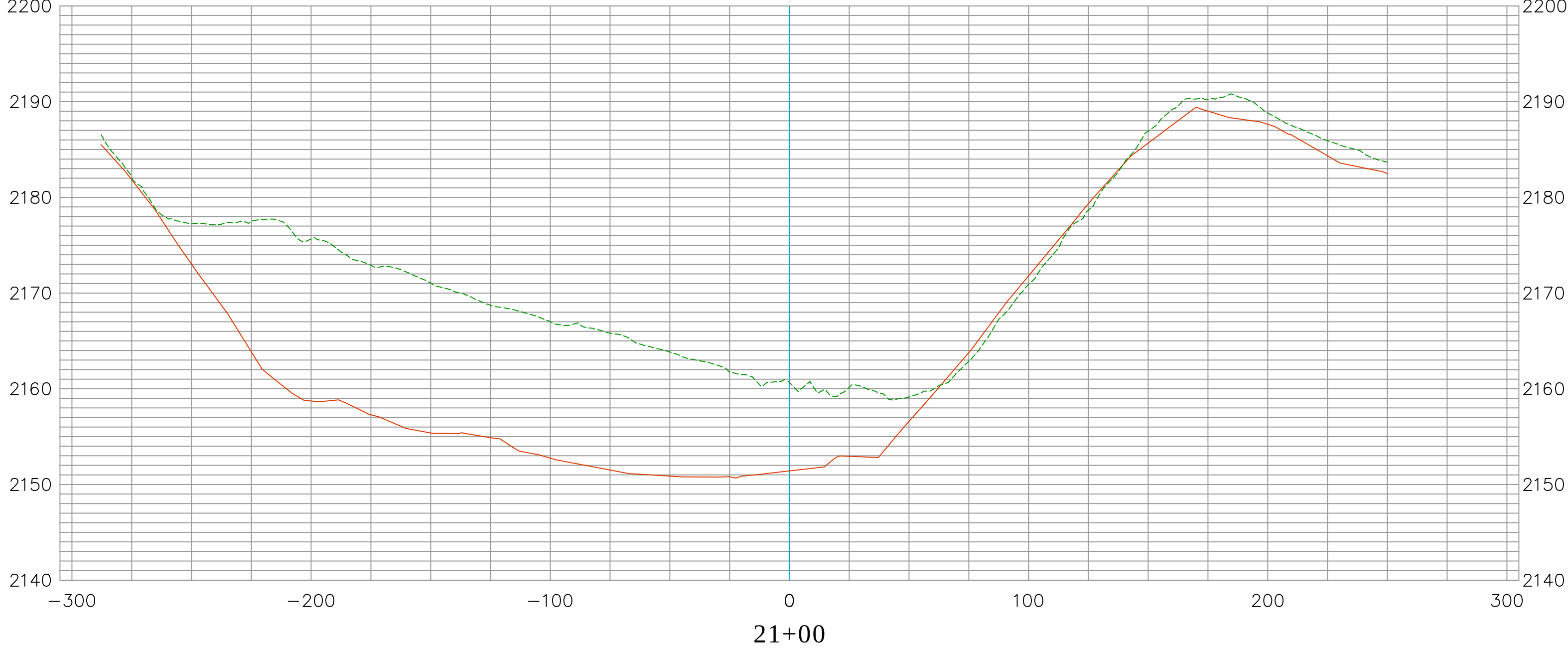
MAIN INTAKE CHANNEL RESERVOIRS ALIGNMENT
CL



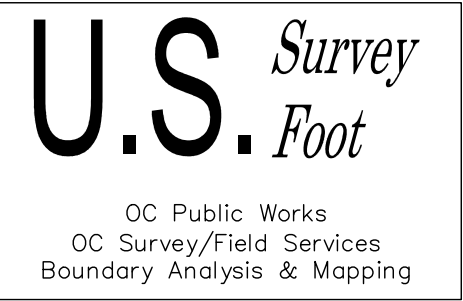
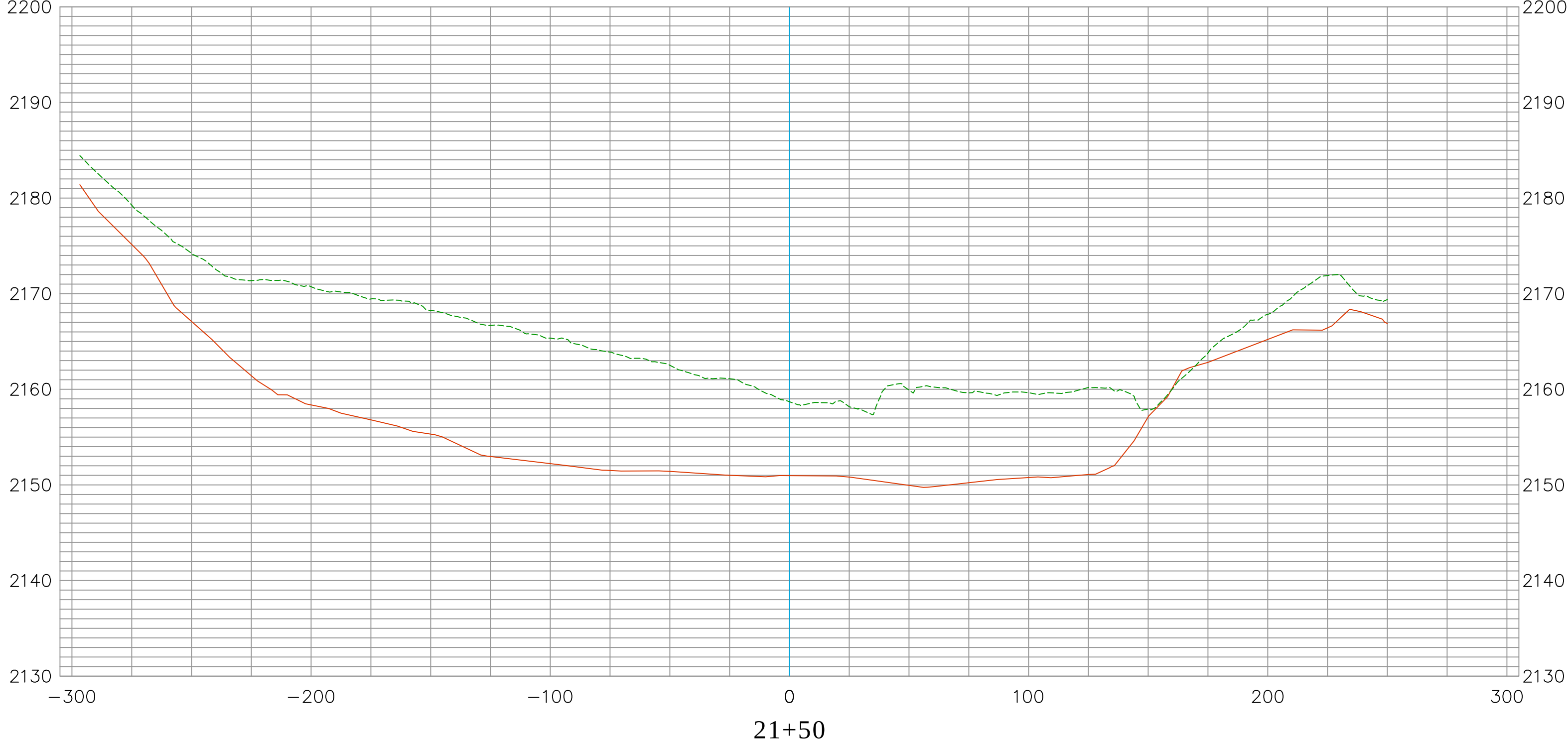
MAIN INTAKE CHANNEL RESERVOIRS ALIGNMENT
CL



MAIN INTAKE CHANNEL RESERVOIRS ALIGNMENT
CL



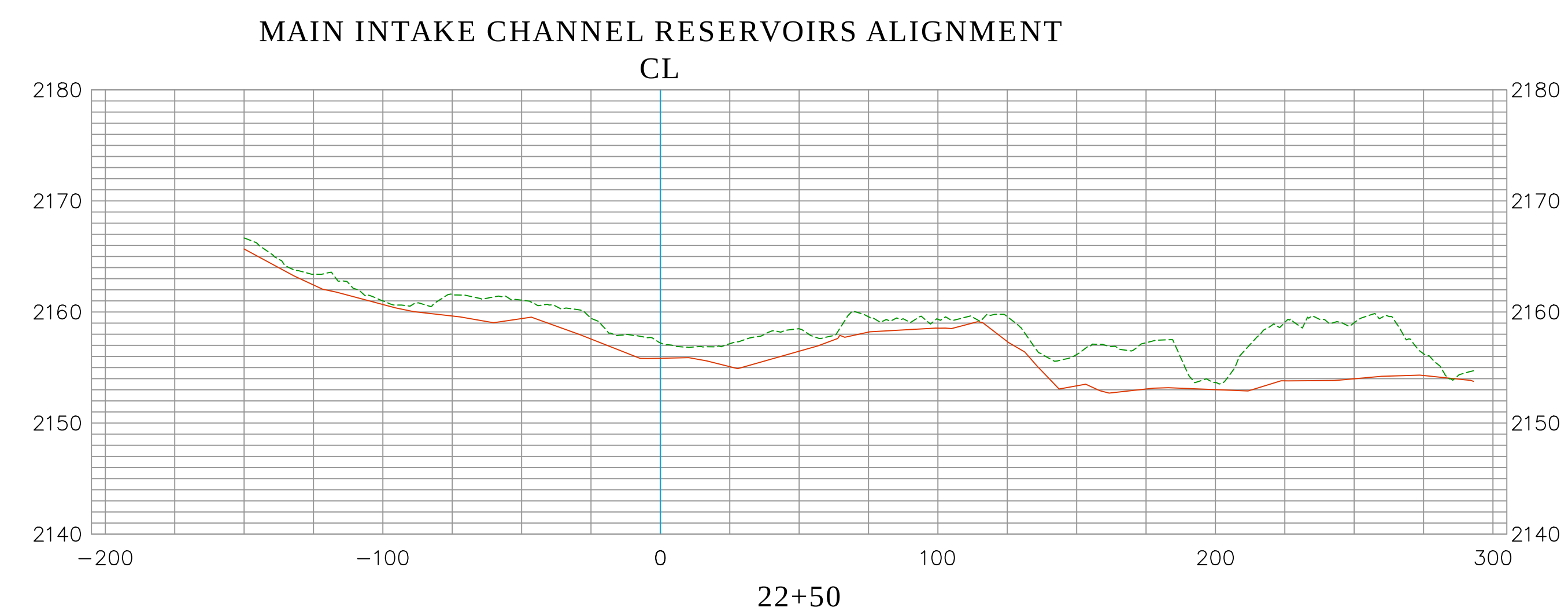
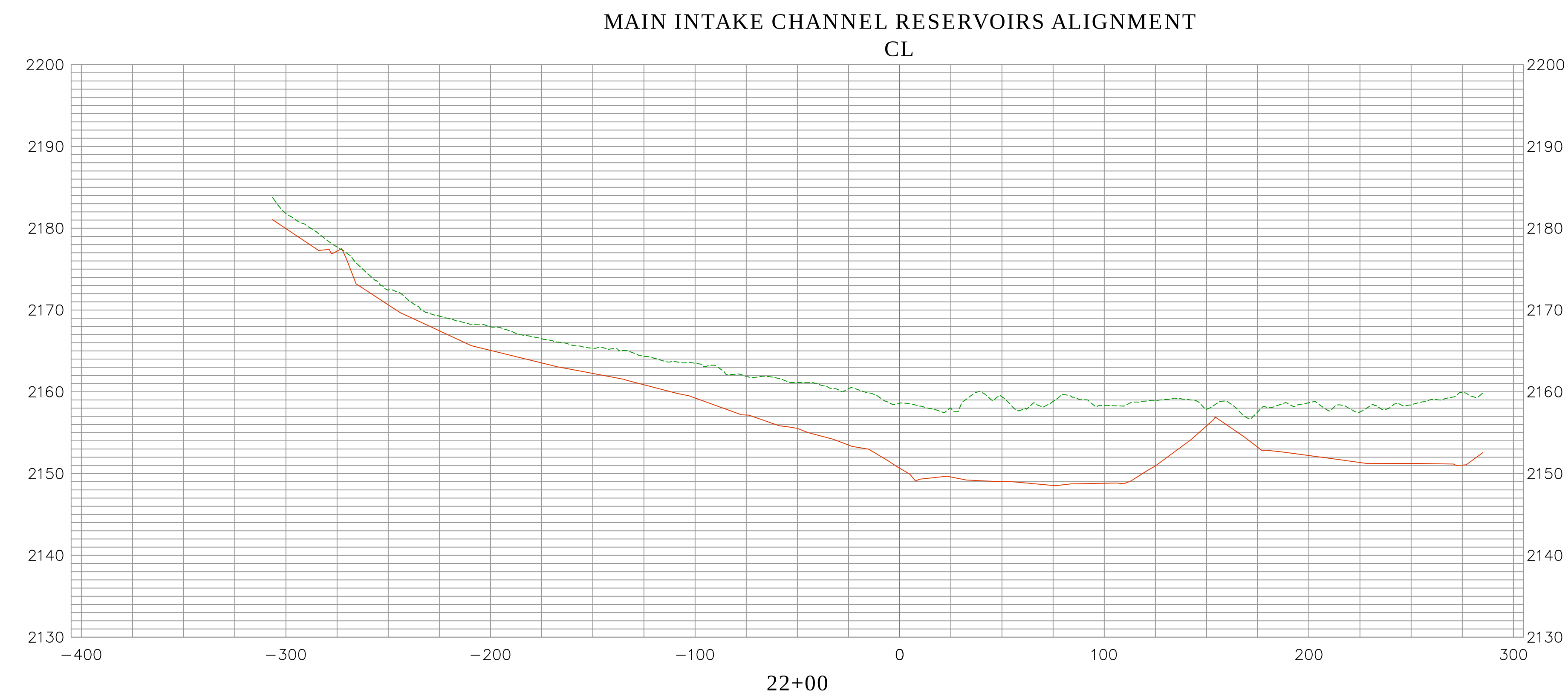
MAIN INTAKE CHANNEL RESERVOIRS ALIGNMENT
CL



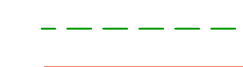
EXISTING CONDITION 2022
AERIAL LIDAR AS-BUILT 2002
DATE PREPARED: 09/29/2022

Vert. Scale: 1"=10'
Hor. Scale: 1"=40'

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
			SEVEN OAK DAM SEDIMENT STUDY		
			SECTIONS		
			PROJECT LIMITS: FROM INTAKE TOWER		
			TO +/- 850' UPSTREAM		
			DATE OF SURVEY: 09/07/2022	BY: OCS & SBC	SHEET NO. 15 of 37
			MAPPING	BY: H. AFTIM, PLS	
			OFFICE CHECK	BY: E. MEDINA, PLS	
			FIELD CHECK	BY: OCS & SBC	
			SCALE: 1" = 40'	W.O. #EF40054	FILE #2122PW-FP0002
			FILE: SEVEN OAKS DAM_SECTIONS_2022.DWG		
MARK	DATE	ITEM	REVISIONS		

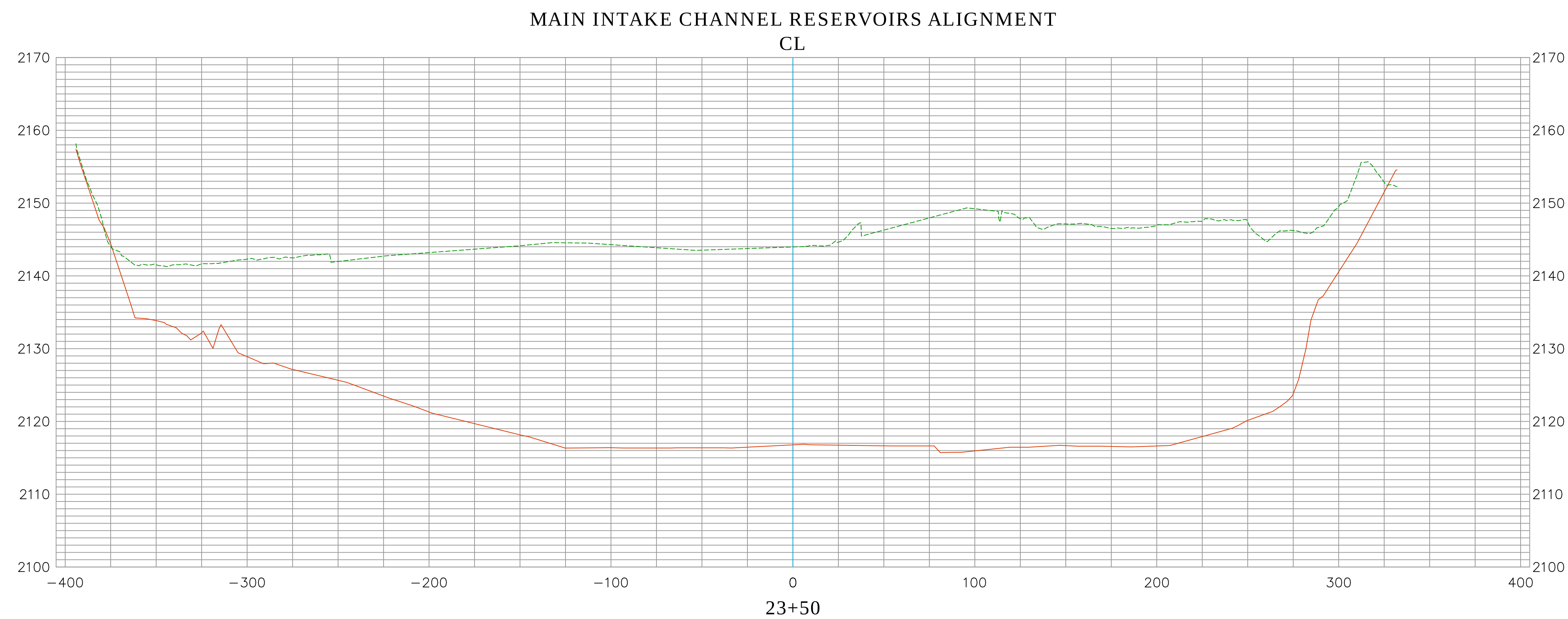
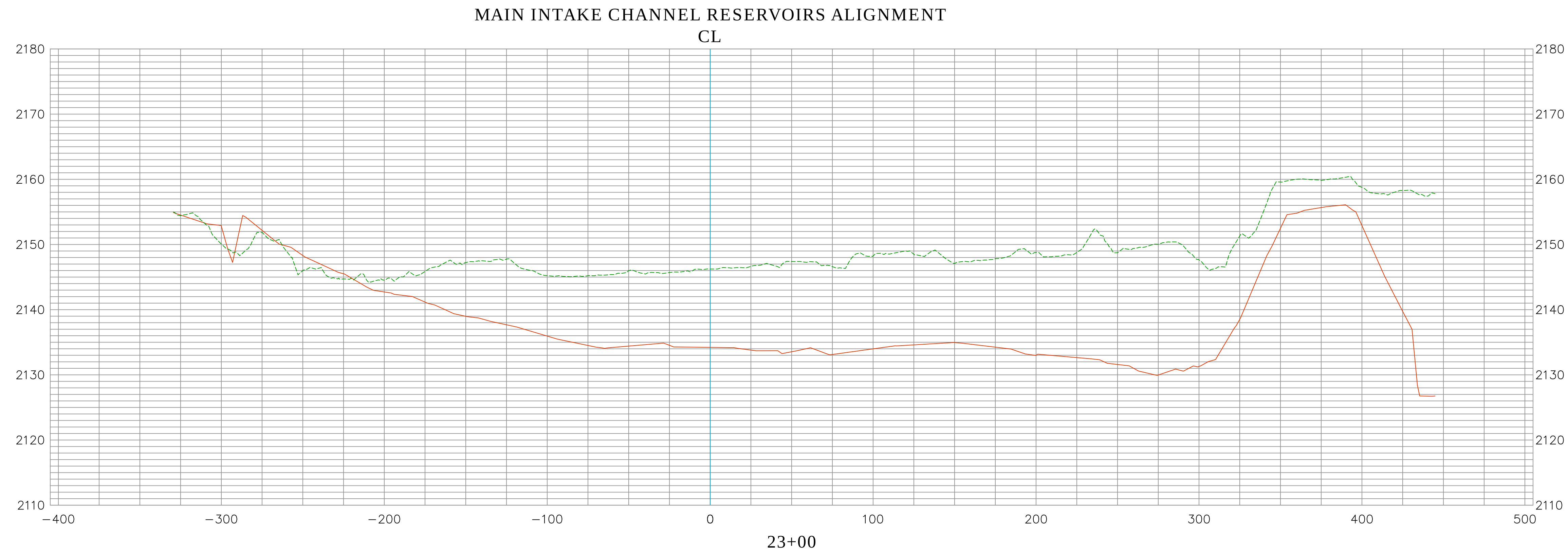


EXISTING CONDITION 2022
AERIAL LIDAR AS-BUILT 2002
DATE PREPARED: 09/29/2022



Vert. Scale: 1"=10'
Hor. Scale: 1"=40'

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			SEVEN OAK DAM SEDIMENT STUDY				
			SECTIONS				
			PROJECT LIMITS: FROM INTAKE TOWER				
			TO +/- 850' UPSTREAM				
MARK	DATE	ITEM	DATE OF SURVEY: 09/07/2022		BY: OCS & SBC		SHEET NO. 16 of 37
			MAPPING		BY: H. AFTIM, PLS		
			OFFICE CHECK		BY: E. MEDINA, PLS		
			FIELD CHECK		BY: OCS & SBC		
			SCALE: 1" = 40'		W.O. #EF40054		
REVISIONS			FILE: SEVEN OAKS DAM_SECTIONS_2022.DWG				



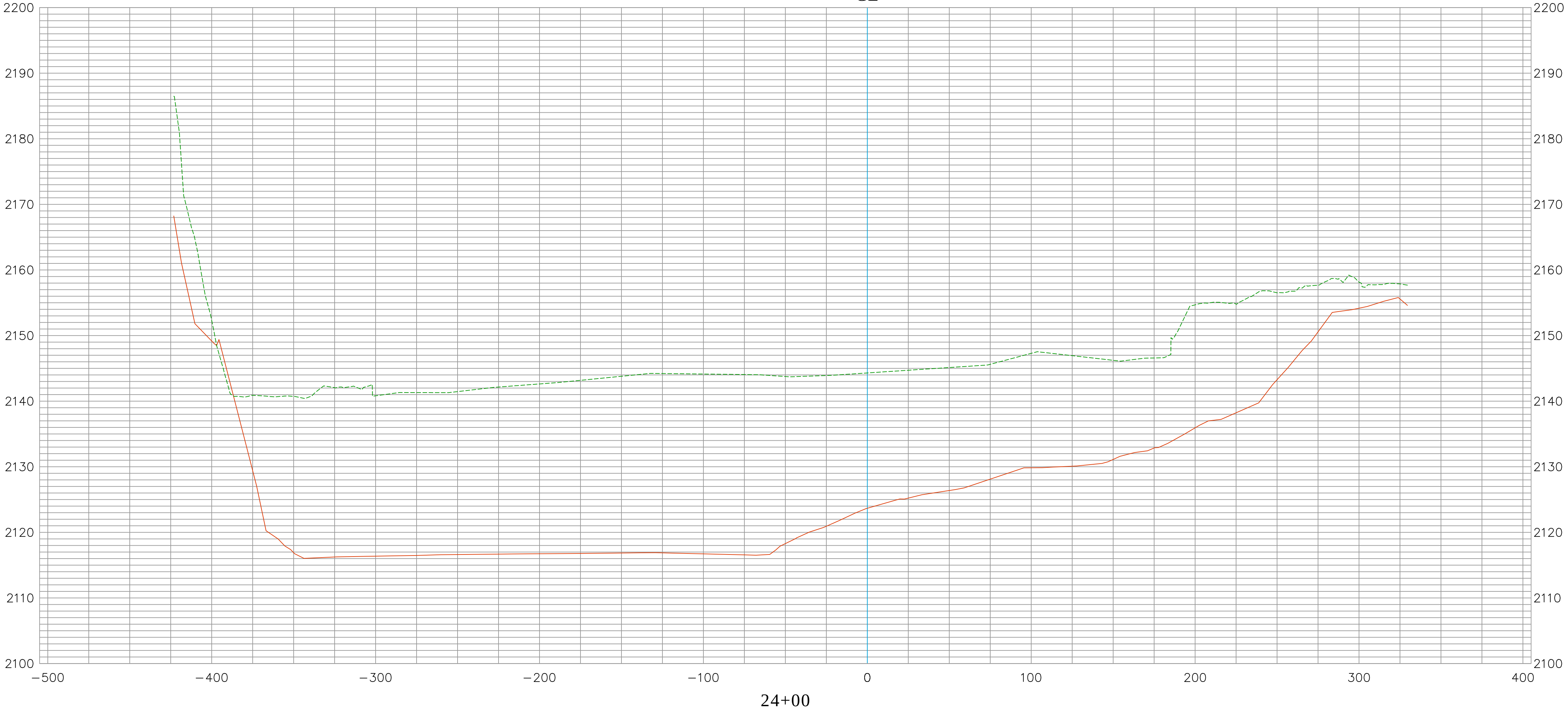
EXISTING CONDITION 2022
AERIAL LIDAR AS-BUILT 2002
DATE PREPARED:09/29/2022



Vert. Scale: 1"=10'
Hor. Scale: 1"=40'

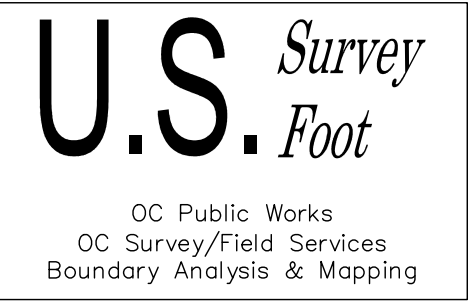
		COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
		SEVEN OAK DAM SEDIMENT STUDY				
		SECTIONS				
		PROJECT LIMITS: FROM INTAKE TOWER TO +/- 850' UPSTREAM				
		DATE OF SURVEY:09/07/2022		BY:OCS & SBC		SHEET NO. 17 of 37
		MAPPING		BY:H. AFTIM, PLS		
		OFFICE CHECK		BY:E. MEDINA, PLS		
		FIELD CHECK		BY:OCS & SBC		
MARK	DATE	ITEM		SCALE:1" = 40' W.O. #EF40054 FILE #2122PW-FP0002		
		REVISIONS		FILE:SEVEN OAKS DAM_SECTIONS_2022.DWG		

MAIN INTAKE CHANNEL RESERVOIRS ALIGNMENT
CL

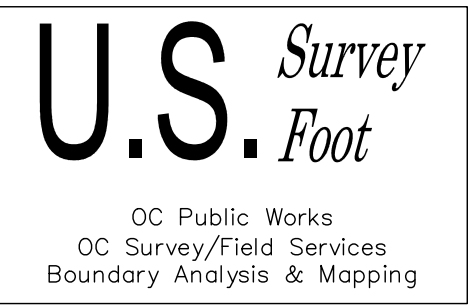
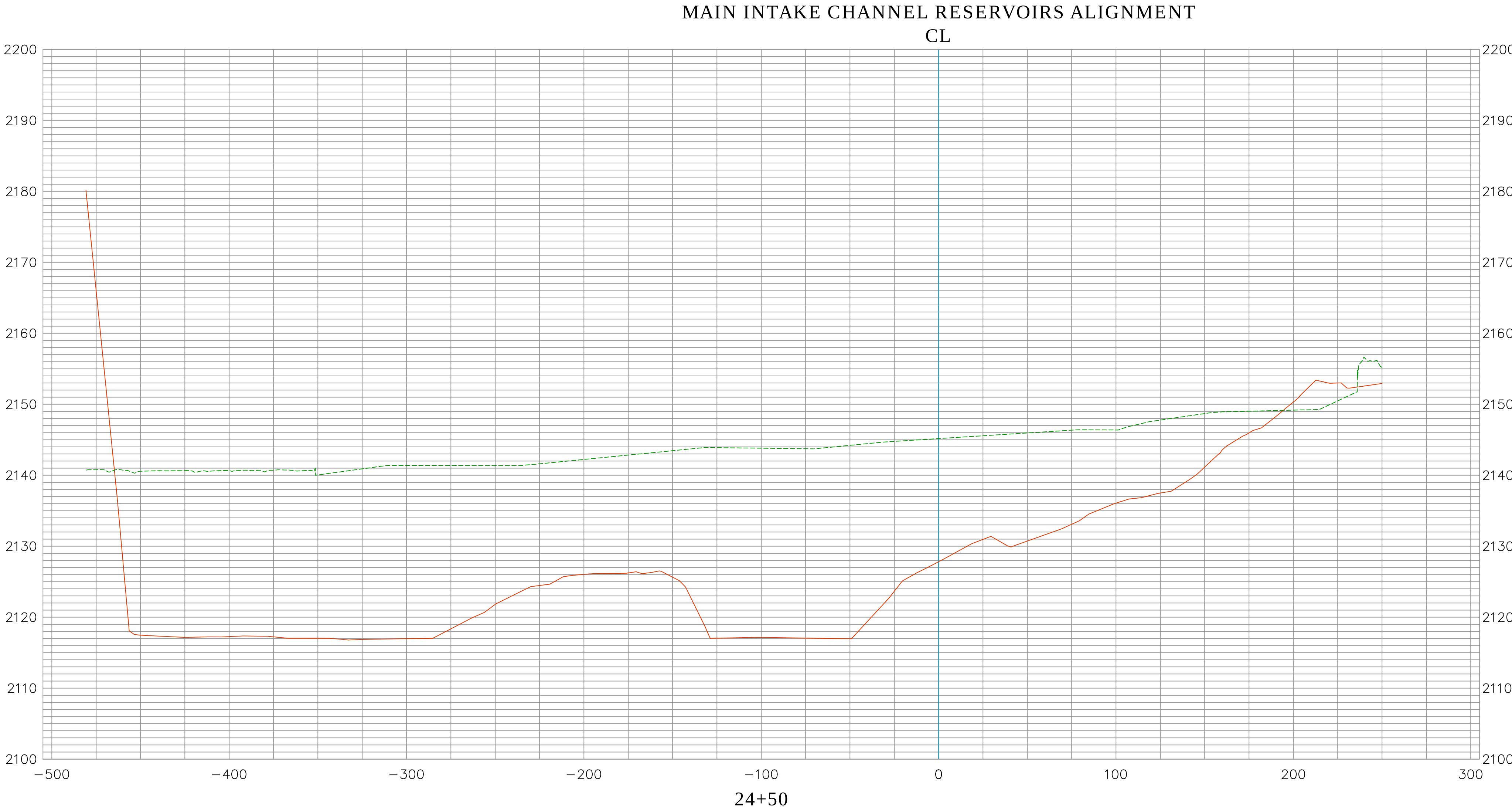


EXISTING CONDITION 2022
AERIAL LIDAR AS-BUILT 2002
DATE PREPARED:09/29/2022

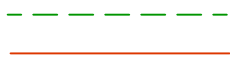
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Hor. Scale: 1"=40'



MARK	DATE	ITEM	COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			SEVEN OAK DAM SEDIMENT STUDY				
			SECTIONS				
			PROJECT LIMITS: FROM INTAKE TOWER				
			TO +/- 850' UPSTREAM				
			DATE OF SURVEY: 09/07/2022		BY: OCS & SBC		SHEET NO. 18 of 37
			MAPPING		BY: H. AFTIM, PLS		
			OFFICE CHECK		BY: E. MEDINA, PLS		
			FIELD CHECK		BY: OCS & SBC		
			SCALE: 1" = 40'		W.O. #EF40054		
FILE #2122PW-FP0002				REVISIONS			
FILE: SEVEN OAKS DAM_SECTIONS_2022.DWG							

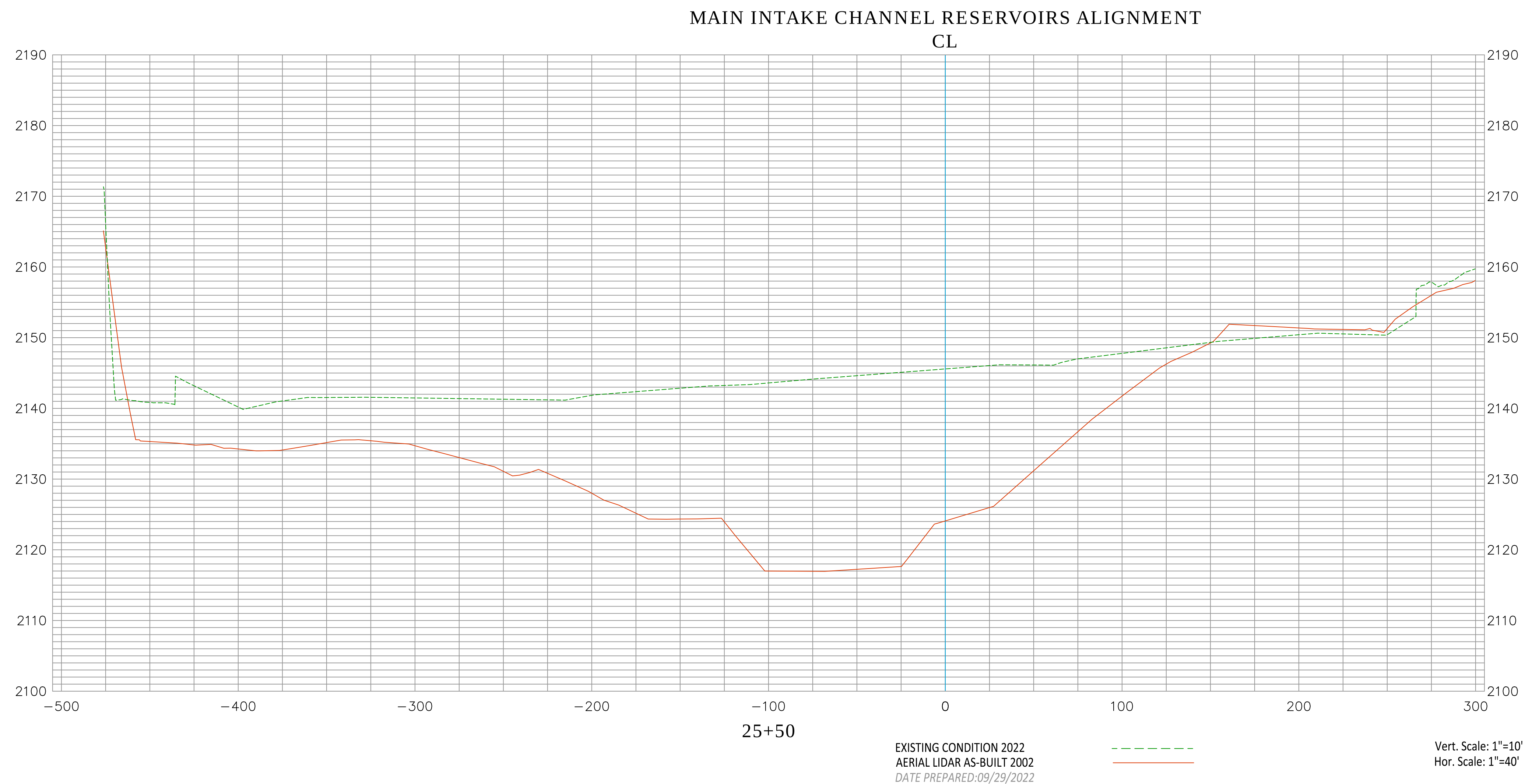
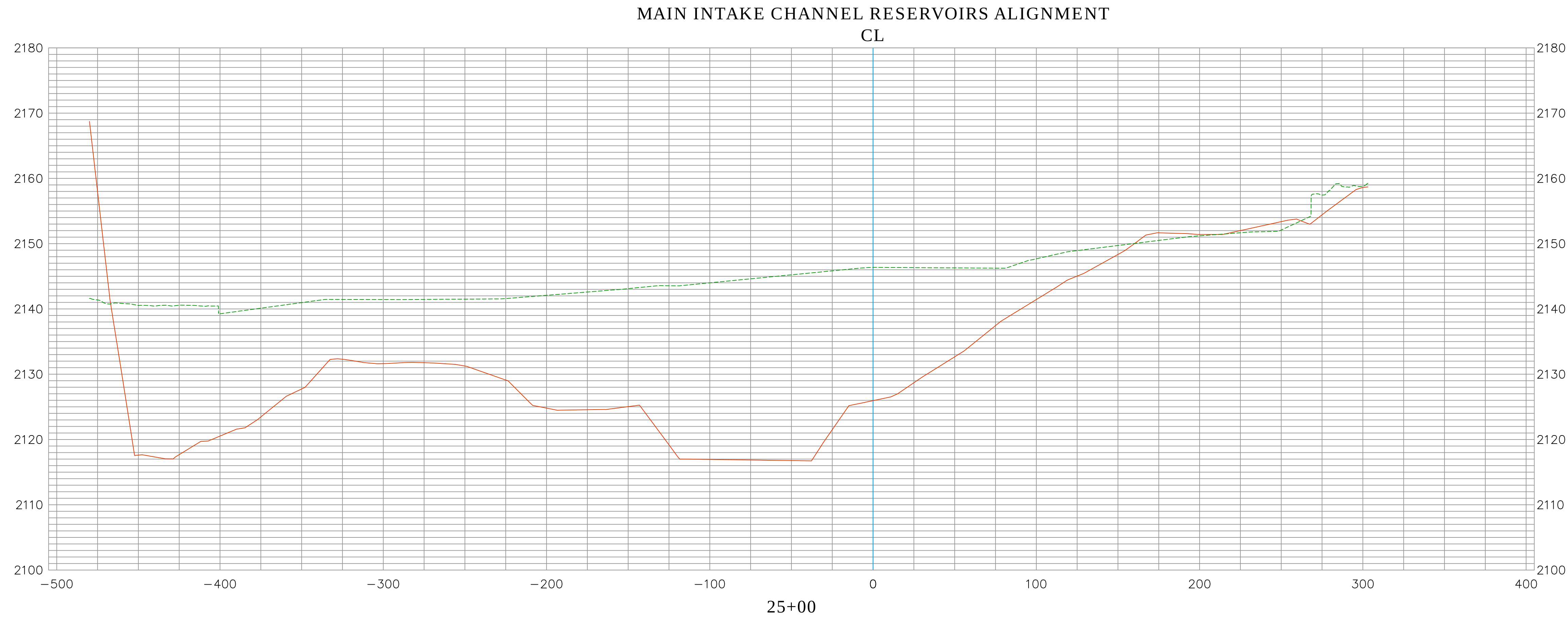


EXISTING CONDITION 2022
AERIAL LIDAR AS-BUILT 2002
DATE PREPARED:09/29/2022



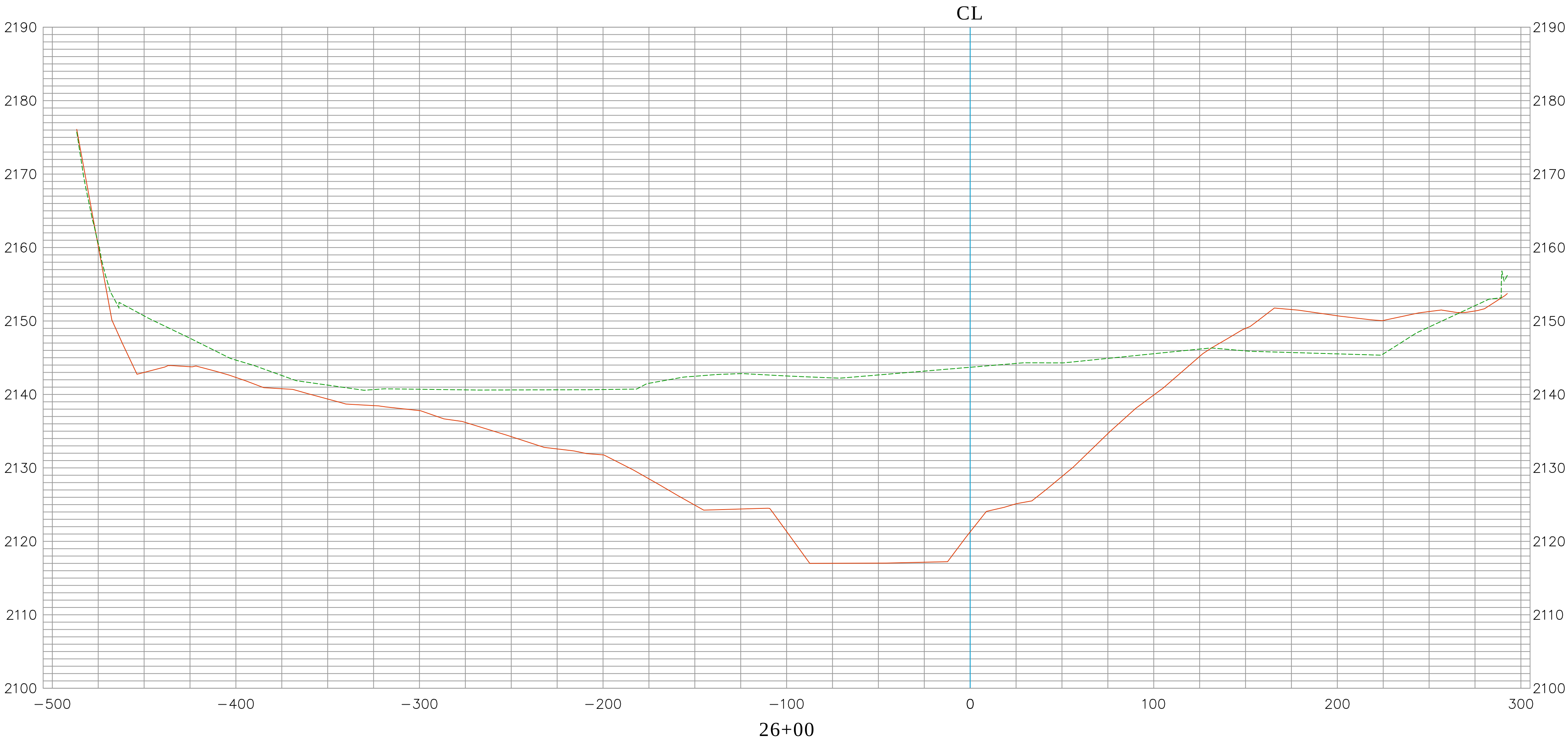
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Hor. Scale: 1"=40'

MARK	DATE	ITEM	COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			SEVEN OAK DAM SEDIMENT STUDY				
			SECTIONS				
			PROJECT LIMITS: FROM INTAKE TOWER				
			TO +/- 850' UPSTREAM				
			DATE OF SURVEY: 09/07/2022		BY: OCS & SBC		SHEET NO. 19 of 37
			MAPPING		BY: H. AFTIM, PLS		
			OFFICE CHECK		BY: E. MEDINA, PLS		
			FIELD CHECK		BY: OCS & SBC		
			SCALE: 1" = 40'		W.O. #EF40054 FILE #2122PW-FP0002		
REVISIONS		FILE: SEVEN OAKS DAM_SECTIONS_2022.DWG					

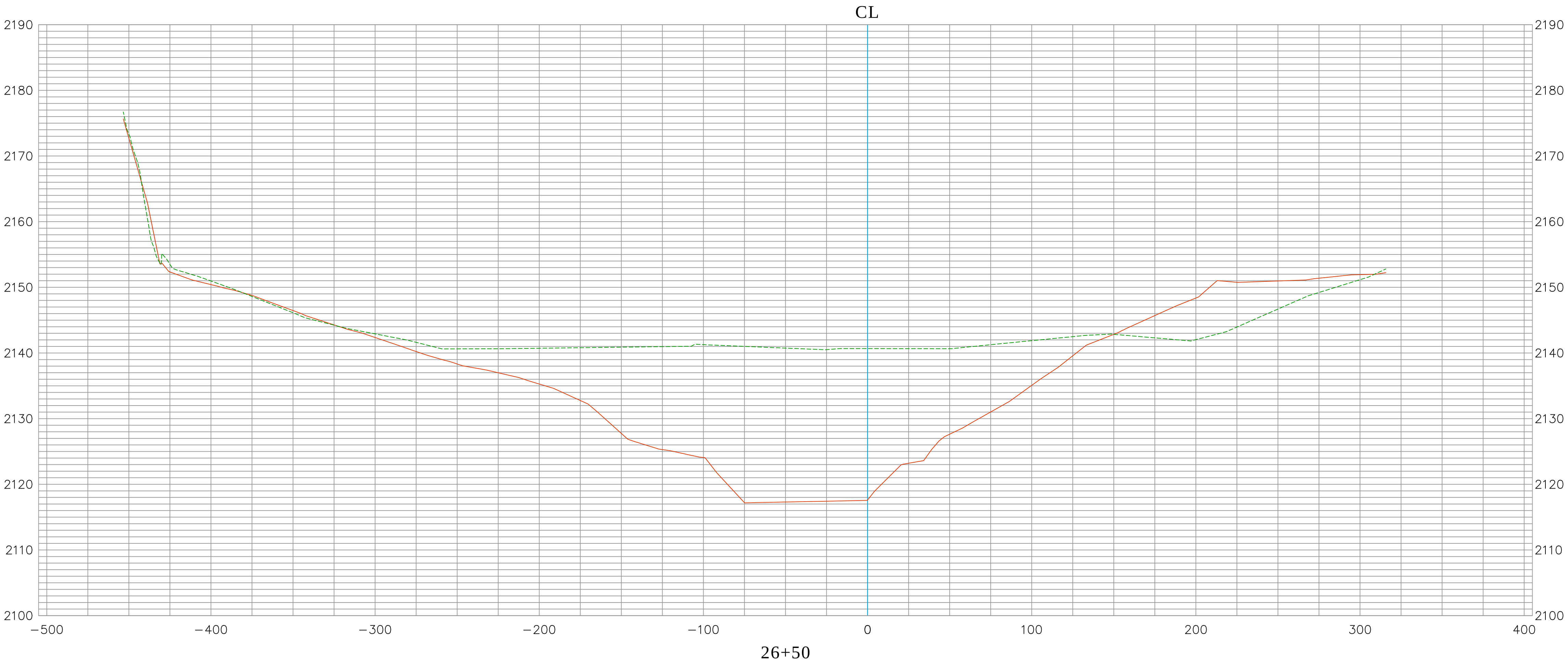


COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
SEVEN OAK DAM SEDIMENT STUDY			
SECTIONS			
PROJECT LIMITS: FROM INTAKE TOWER			
TO +/- 850' UPSTREAM			
DATE OF SURVEY:09/07/2022		BY:OCS & SBC	SHEET NO. 20 of 37
MAPPING		BY:H. AFTIM, PLS	
OFFICE CHECK		BY:E. MEDINA, PLS	
FIELD CHECK		BY:OCS & SBC	
SCALE:1" = 40'		W.O. #EF40054	FILE #2122PW-FP0002
FILE:SEVEN OAKS DAM_SECTIONS_2022.DWG			
MARK	DATE	ITEM	REVISIONS

MAIN INTAKE CHANNEL RESERVOIRS ALIGNMENT



MAIN INTAKE CHANNEL RESERVOIRS ALIGNMENT



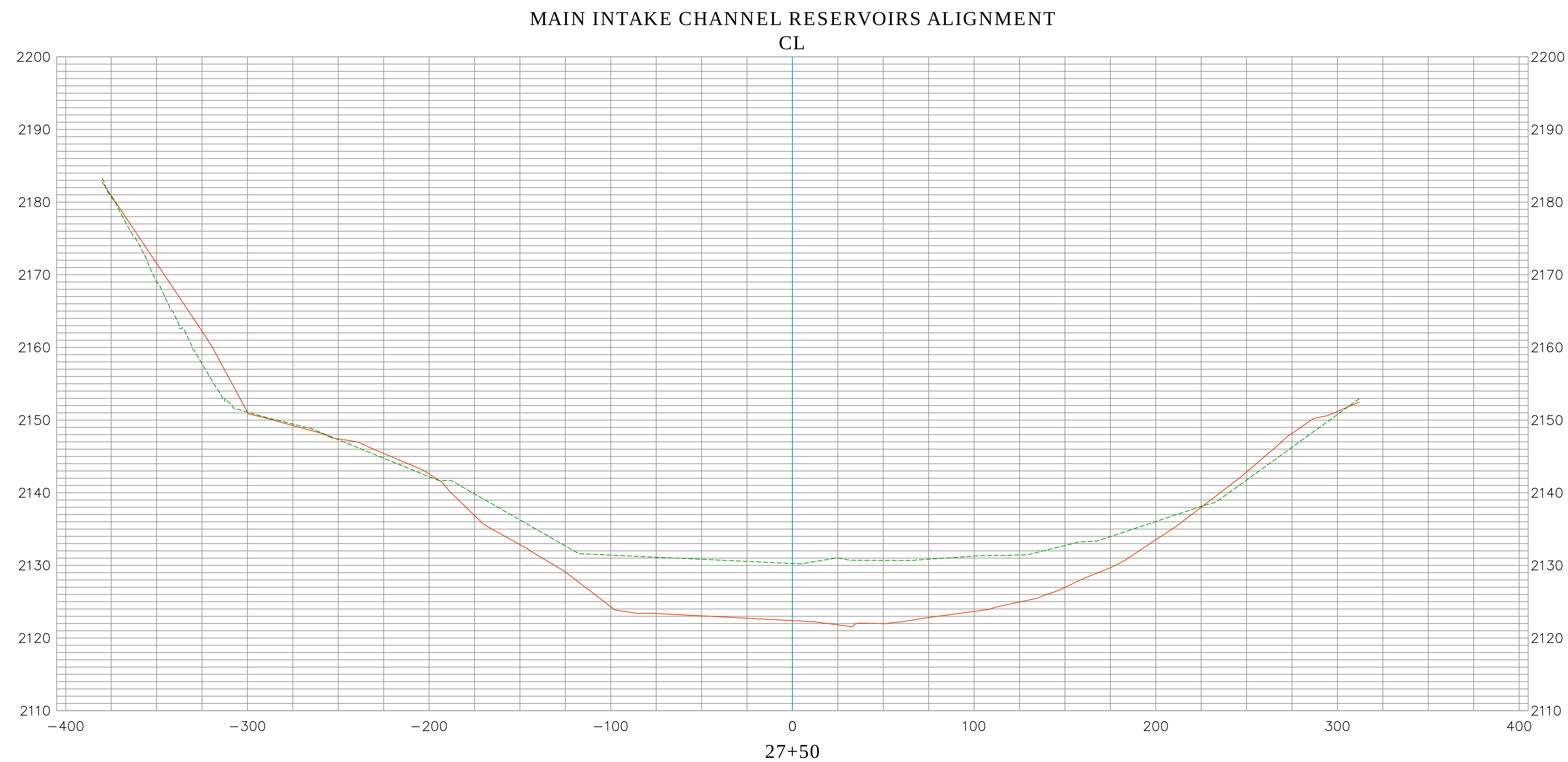
EXISTING CONDITION 2022
AERIAL LIDAR AS-BUILT 2002
DATE PREPARED: 09/29/2022



Vert. Scale: 1"=10'
Hor. Scale: 1"=40'



MARK	DATE	ITEM	COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			SEVEN OAK DAM SEDIMENT STUDY			
			SECTIONS			
			PROJECT LIMITS: FROM INTAKE TOWER			
			TO +/- 850' UPSTREAM			
			DATE OF SURVEY: 09/07/2022		BY: OCS & SBC	
			MAPPING		BY: H. AFTIM, PLS	
			OFFICE CHECK		BY: E. MEDINA, PLS	
			FIELD CHECK		BY: OCS & SBC	
			SCALE: 1" = 40'		W.O. #EF40054	
FILE: SEVEN OAKS DAM_SECTIONS_2022.DWG		FILE #2122PW-FP0002				
REVISIONS		SHEET NO.		21 of 37		



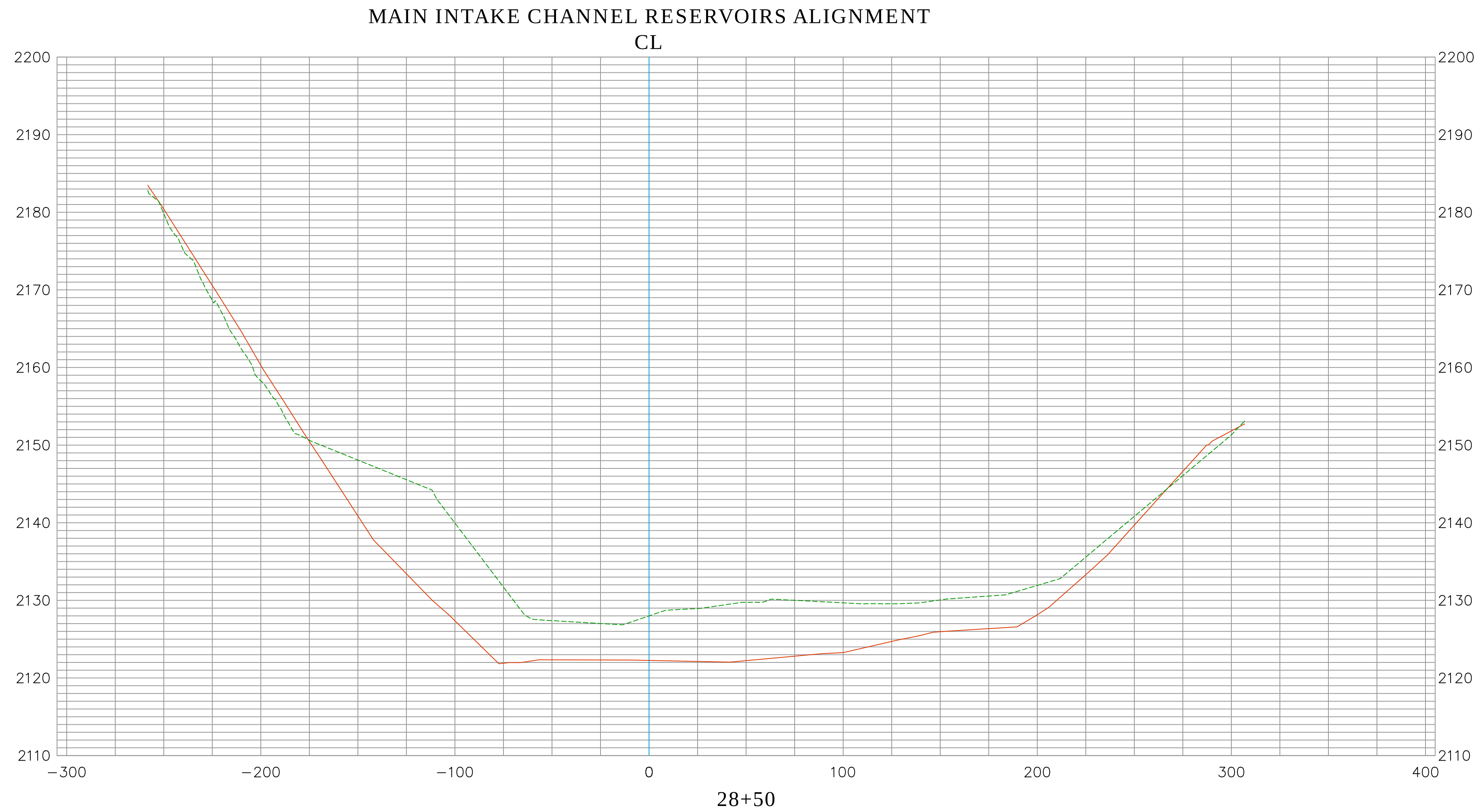
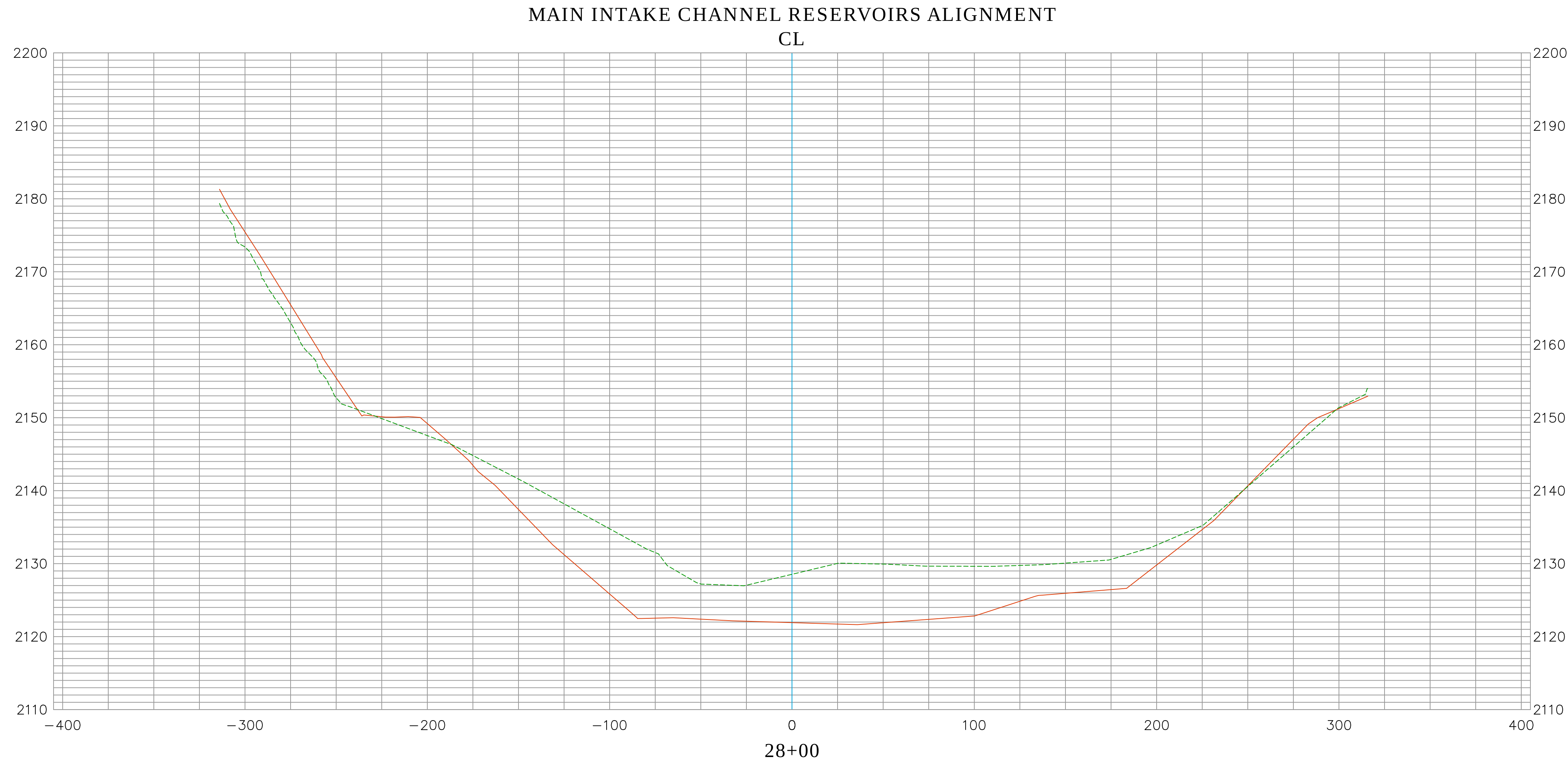
EXISTING CONDITION 2022
AERIAL LIDAR AS-BUILT 2002
DATE PREPARED: 09/29/2022



Vert. Scale: 1"=10'
Hor. Scale: 1"=40'



			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING					
			SEVEN OAK DAM SEDIMENT STUDY					
			SECTIONS					
			PROJECT LIMITS: FROM INTAKE TOWER TO +/- 850' UPSTREAM					
			DATE OF SURVEY: 09/07/2022		BY: OCS & SBC		SHEET NO. 22 of 37	
			MAPPING		BY: H. AFTIM, PLS			
			OFFICE CHECK		BY: E. MEDINA, PLS			
			FIELD CHECK		BY: OCS & SBC			
			MARK	DATE	ITEM		SCALE: 1" = 40' W.O. #EF40054 FILE #2122PW-FP0002	
			REVISIONS		FILE: SEVEN OAKS DAM_SECTIONS_2022.DWG			

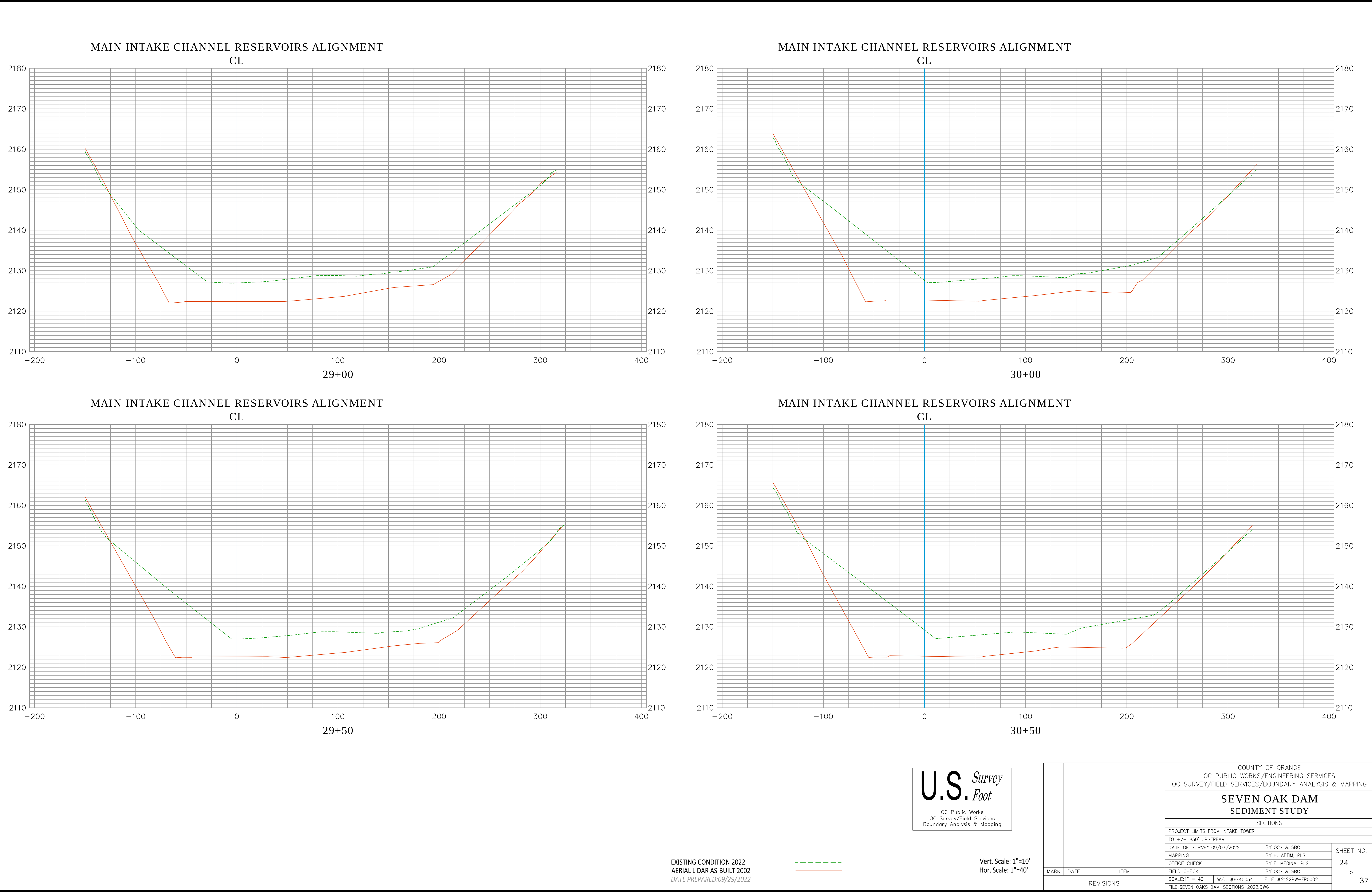


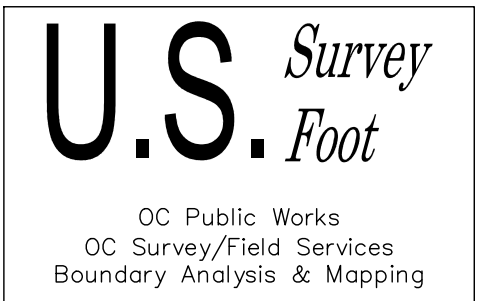
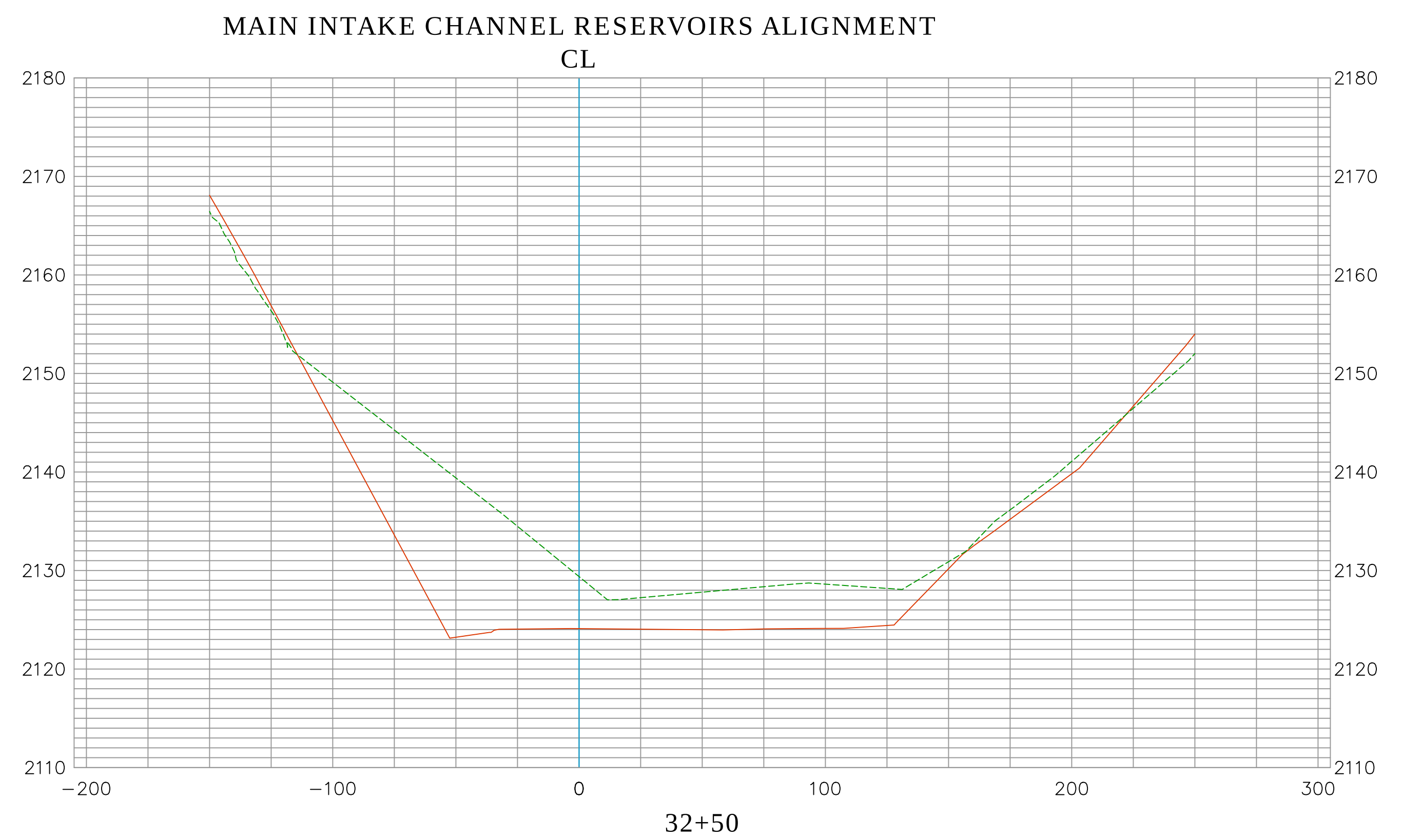
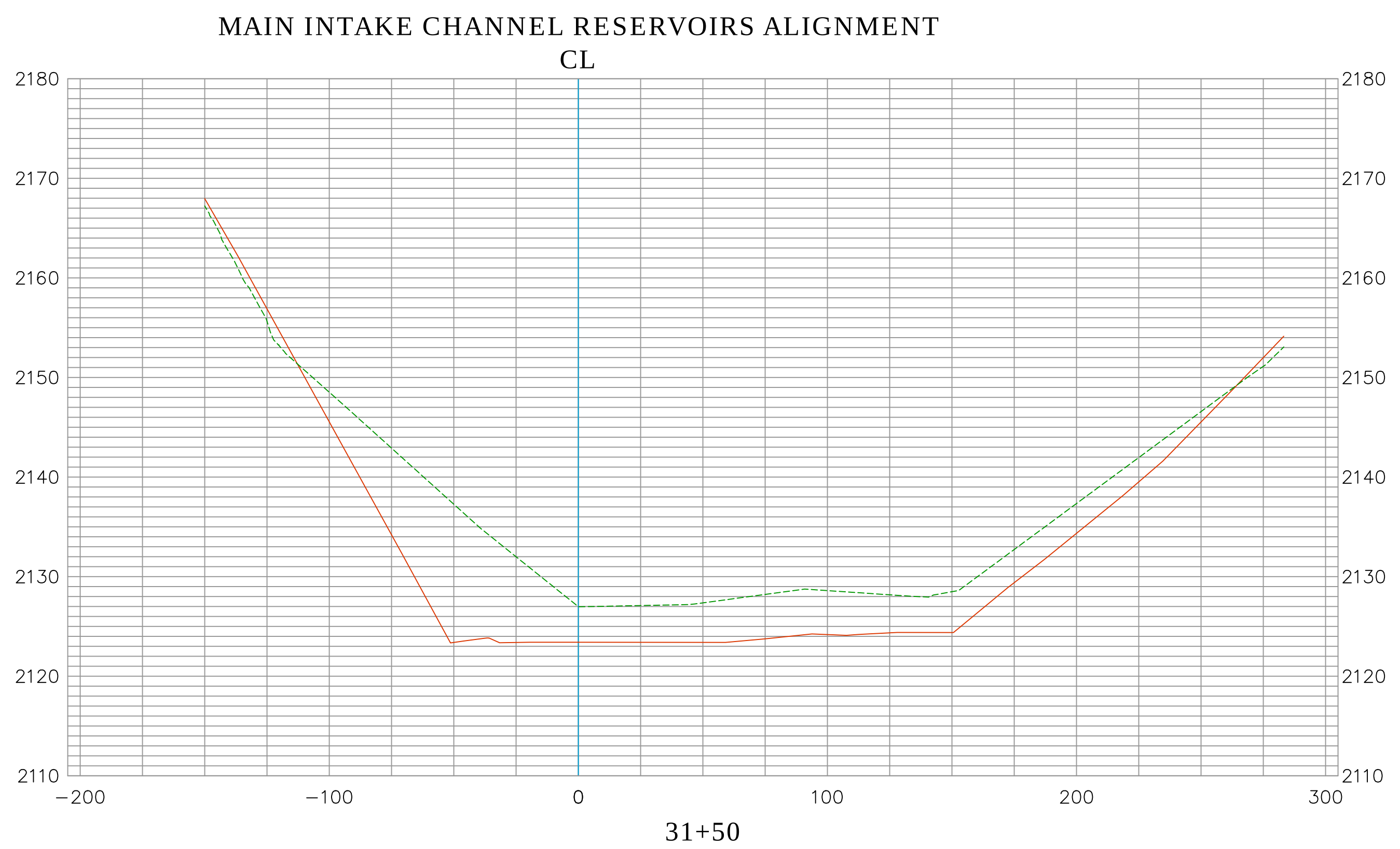
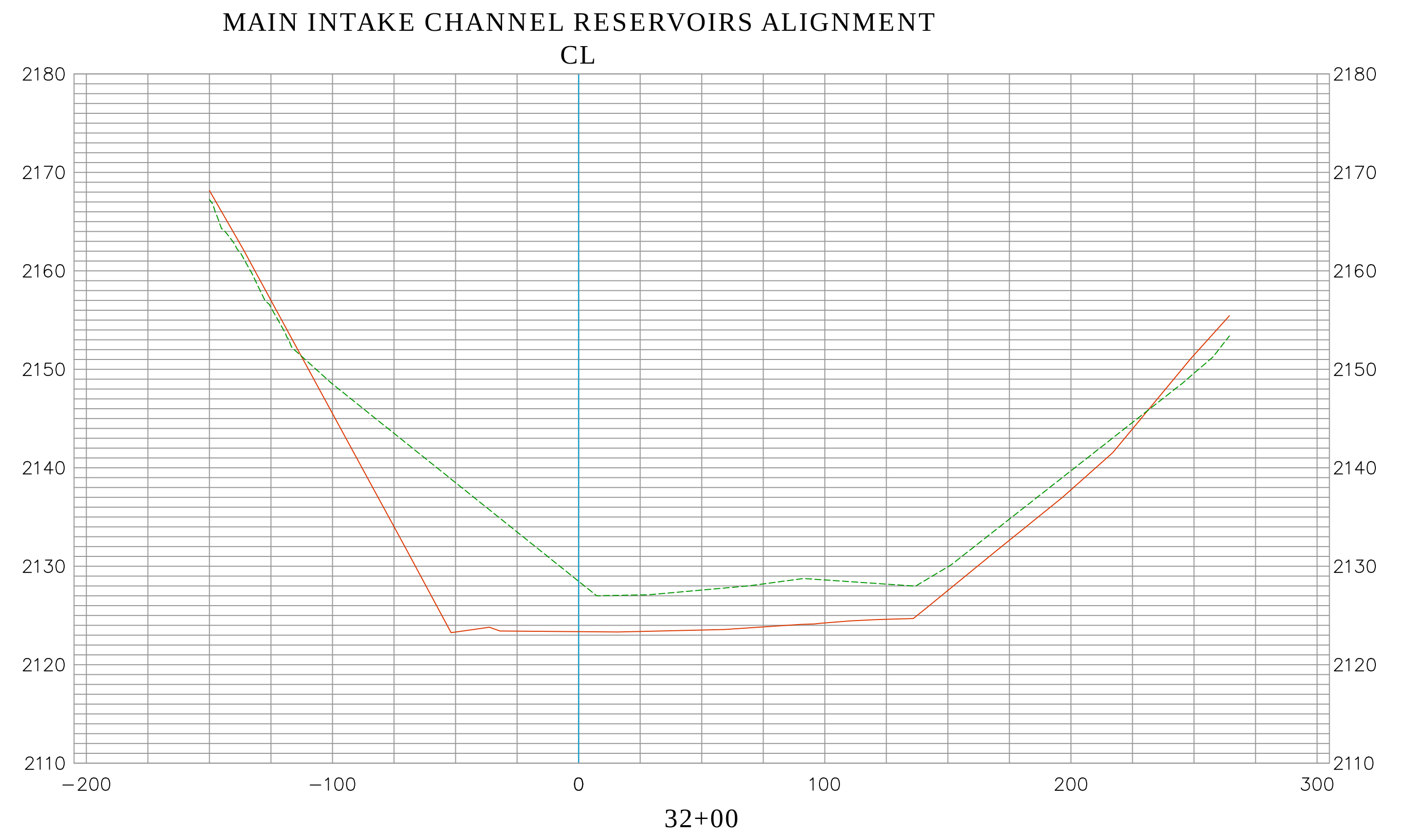
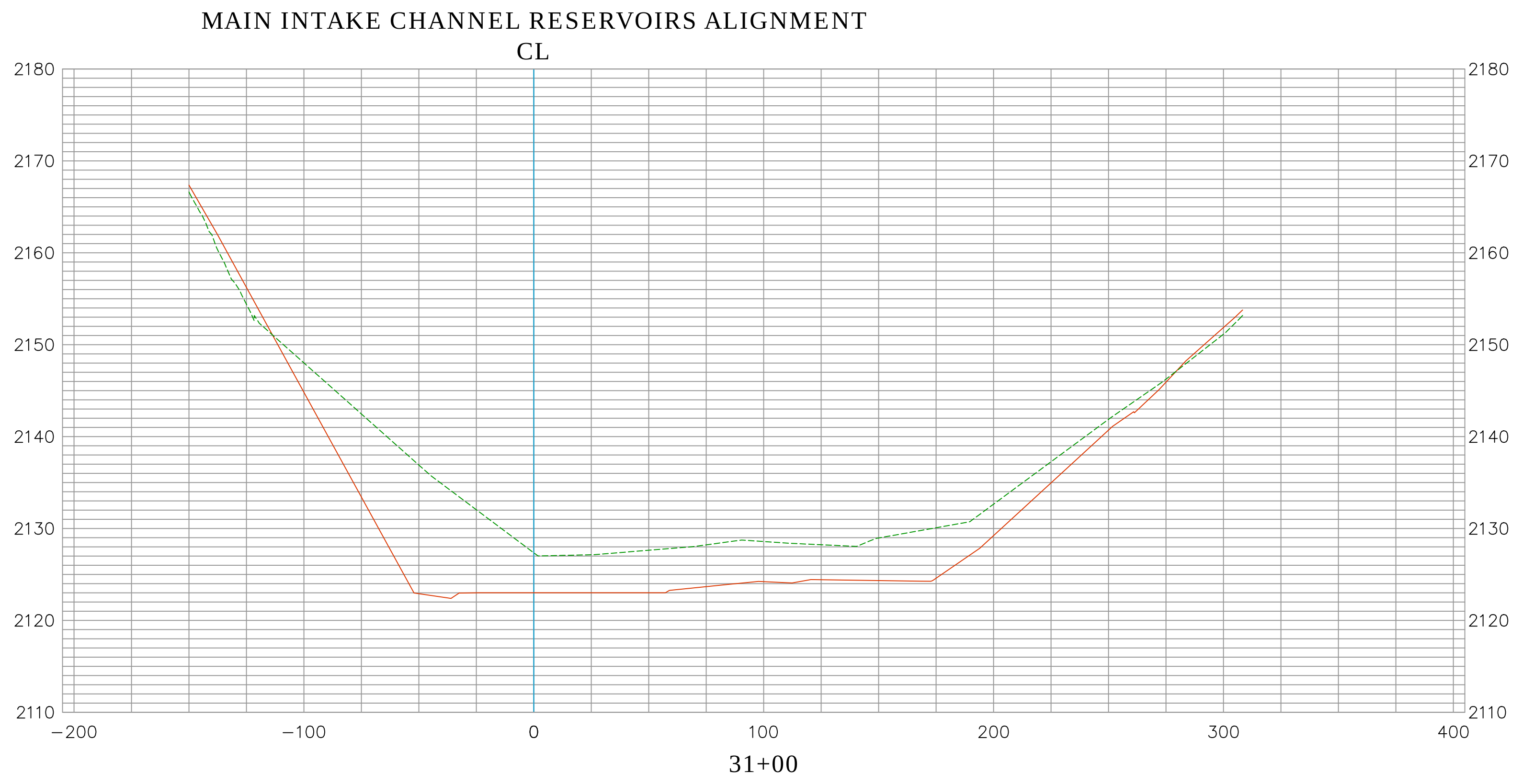
EXISTING CONDITION 2022
AERIAL LIDAR AS-BUILT 2002
DATE PREPARED: 09/29/2022

Vert. Scale: 1"=10'
Hor. Scale: 1"=40'



			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			SEVEN OAK DAM SEDIMENT STUDY				
			SECTIONS				
			PROJECT LIMITS: FROM INTAKE TOWER				
			TO +/- 850' UPSTREAM				
			DATE OF SURVEY: 09/07/2022		BY: OCS & SBC		SHEET NO. 23 of 37
			MAPPING		BY: H. AFTIM, PLS		
			OFFICE CHECK		BY: E. MEDINA, PLS		
			FIELD CHECK		BY: OCS & SBC		
			MARK	DATE	ITEM	SCALE: 1" = 40' W.O. #EF40054 FILE #2122PW-FP0002	
REVISIONS			FILE: SEVEN OAKS DAM_SECTIONS_2022.DWG				



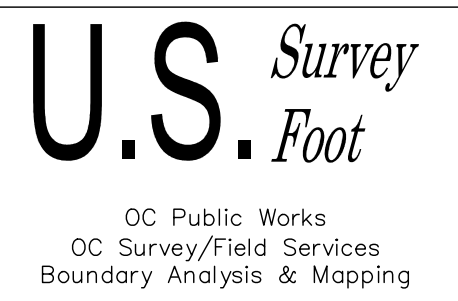
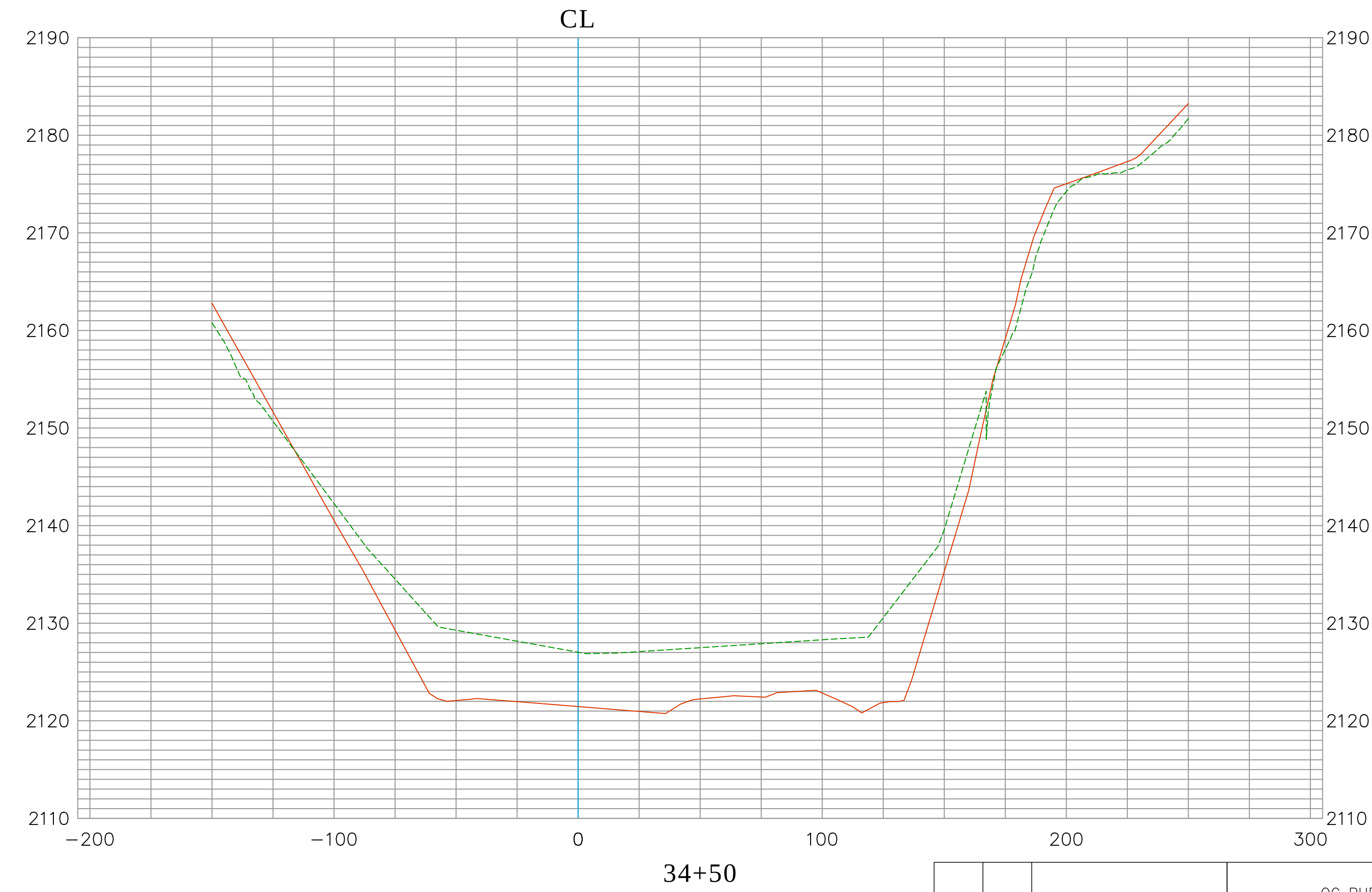
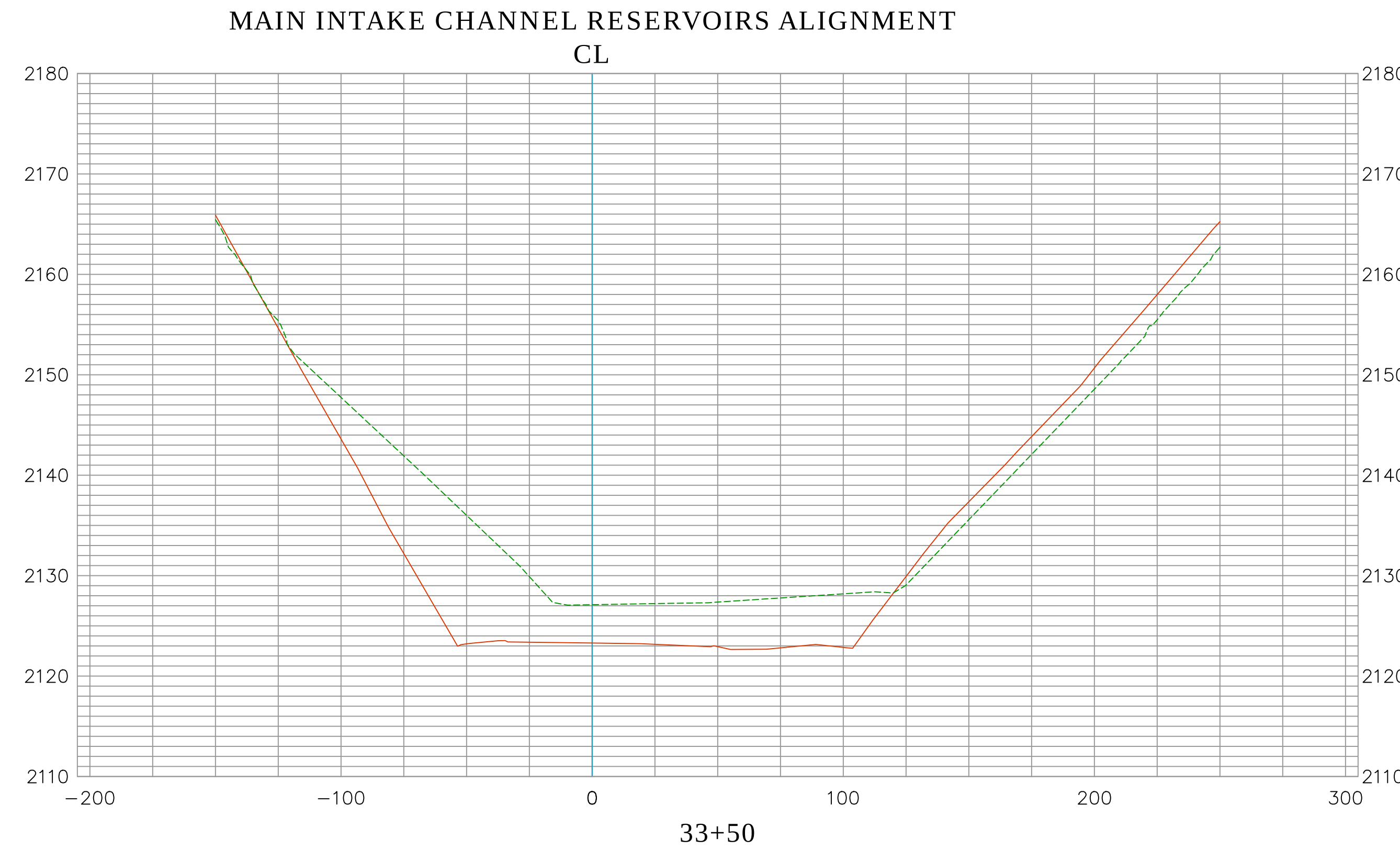
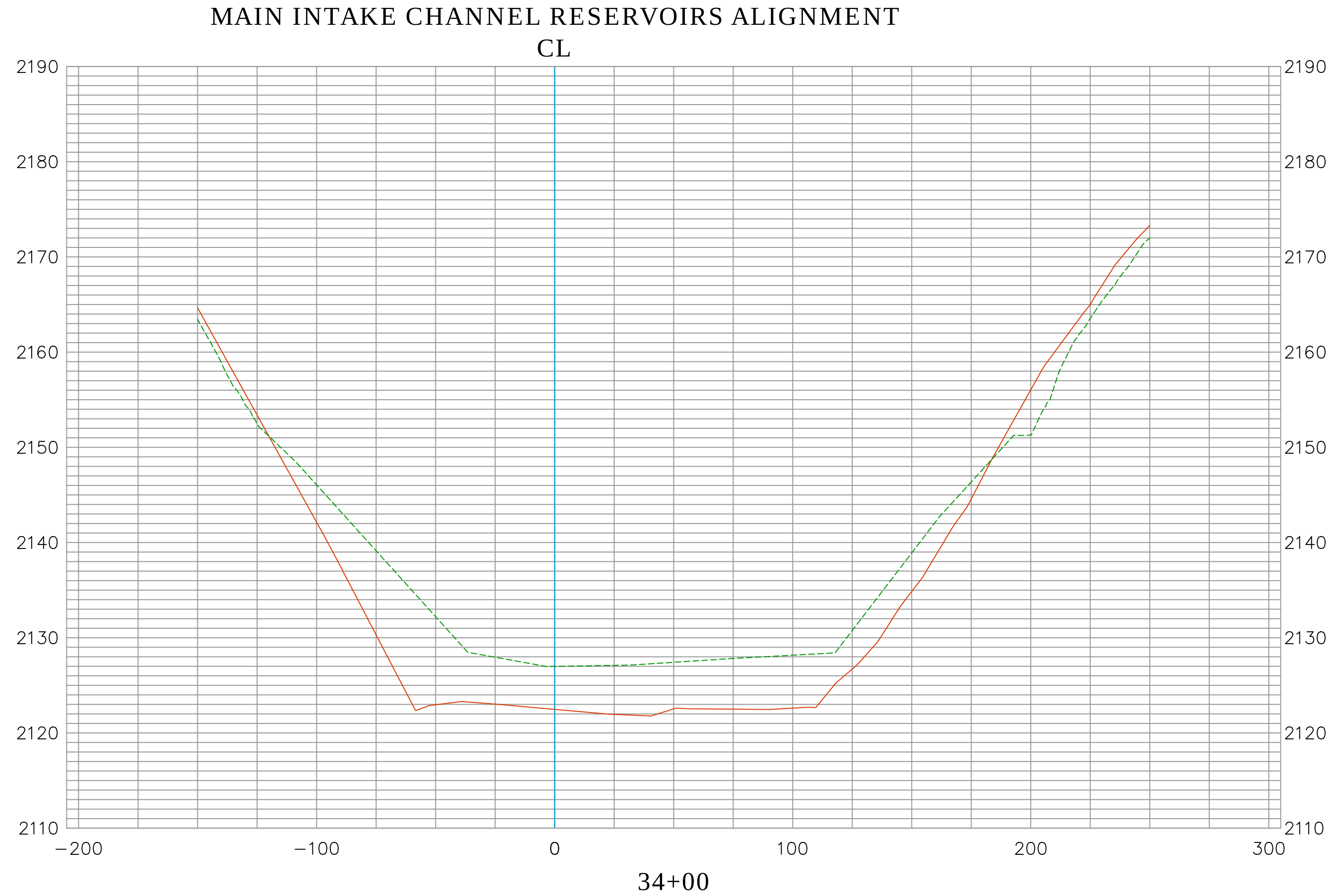
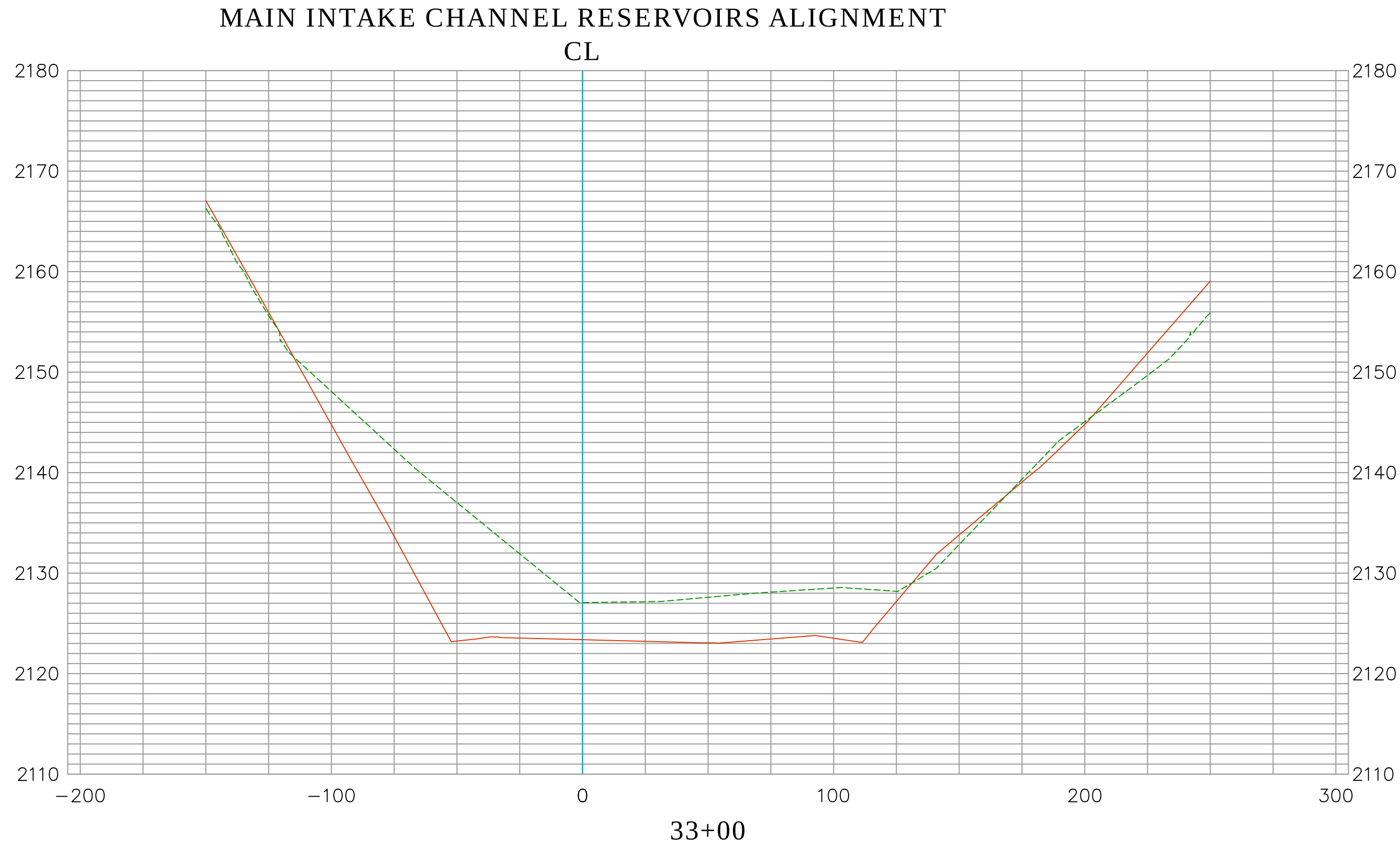


EXISTING CONDITION 2022
AERIAL LIDAR AS-BUILT 2002
DATE PREPARED:09/29/2022

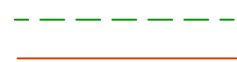


Vert. Scale: 1"=10'
Hor. Scale: 1"=40'

		COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING					
		SEVEN OAK DAM SEDIMENT STUDY					
		SECTIONS					
		PROJECT LIMITS: FROM INTAKE TOWER					
		TO +/- 850' UPSTREAM					
		DATE OF SURVEY: 09/07/2022			BY: OCS & SBC		SHEET NO. 25 of 37
		MAPPING			BY: H. AFTIM, PLS		
		OFFICE CHECK			BY: E. MEDINA, PLS		
		FIELD CHECK			BY: OCS & SBC		
		SCALE: 1" = 40'			W.O. #EF40054 FILE: SEVEN OAKS DAM_SECTIONS_2022.DWG		
MARK	DATE	ITEM	REVISIONS				

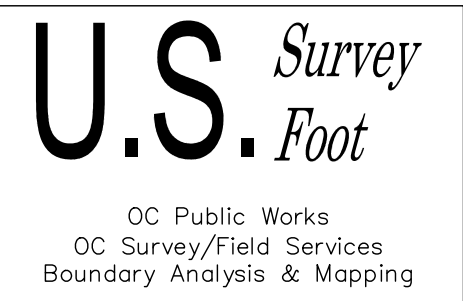
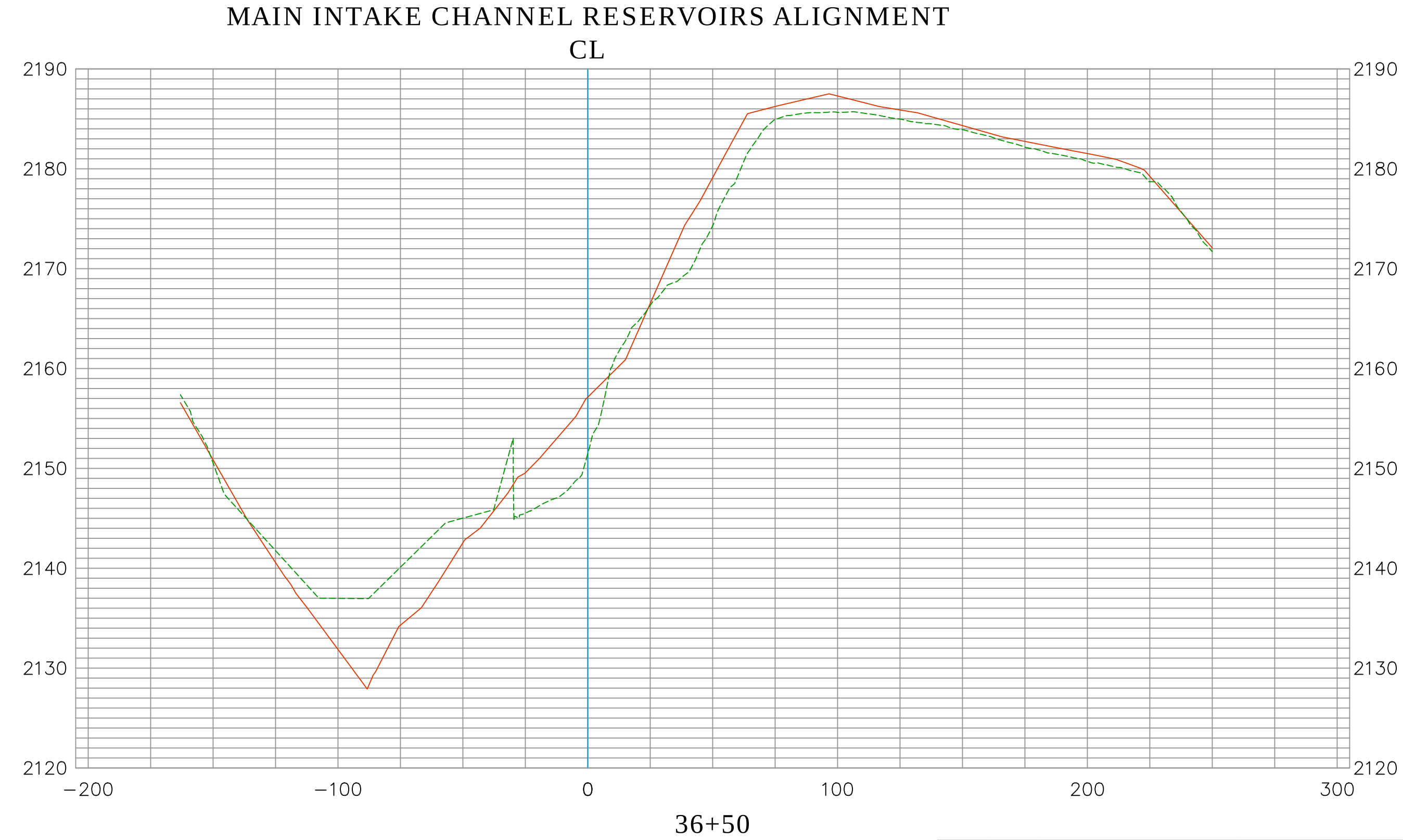
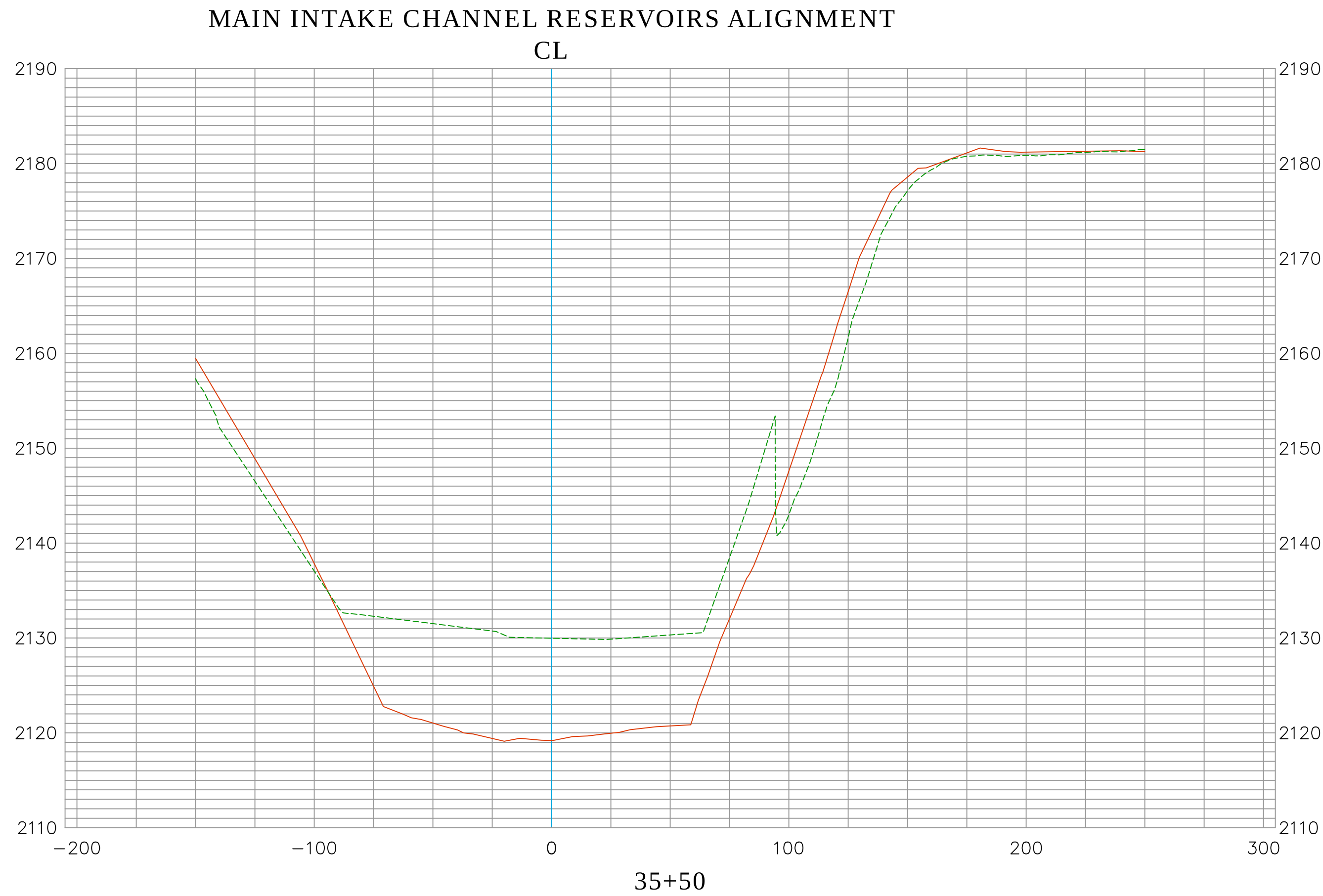
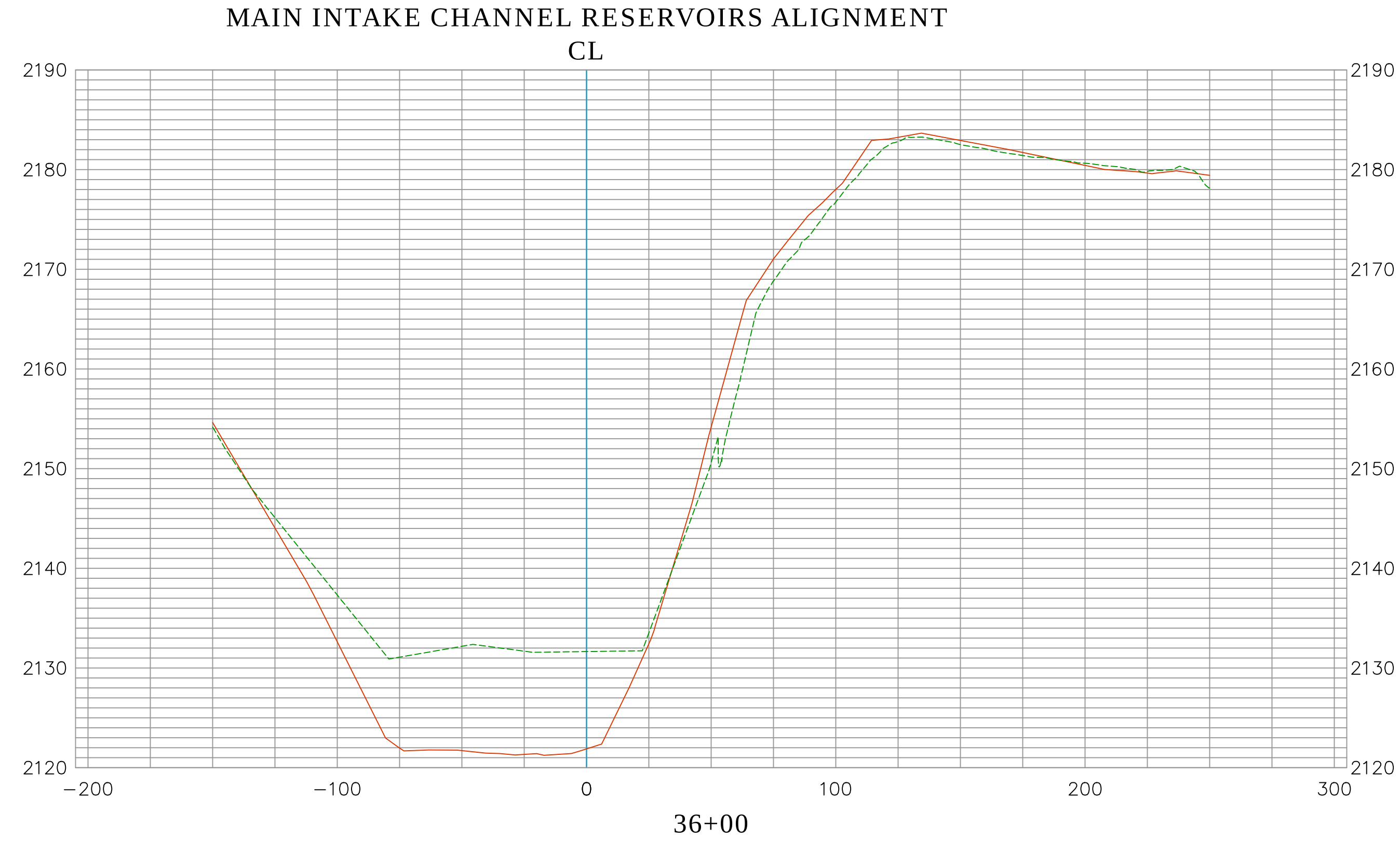
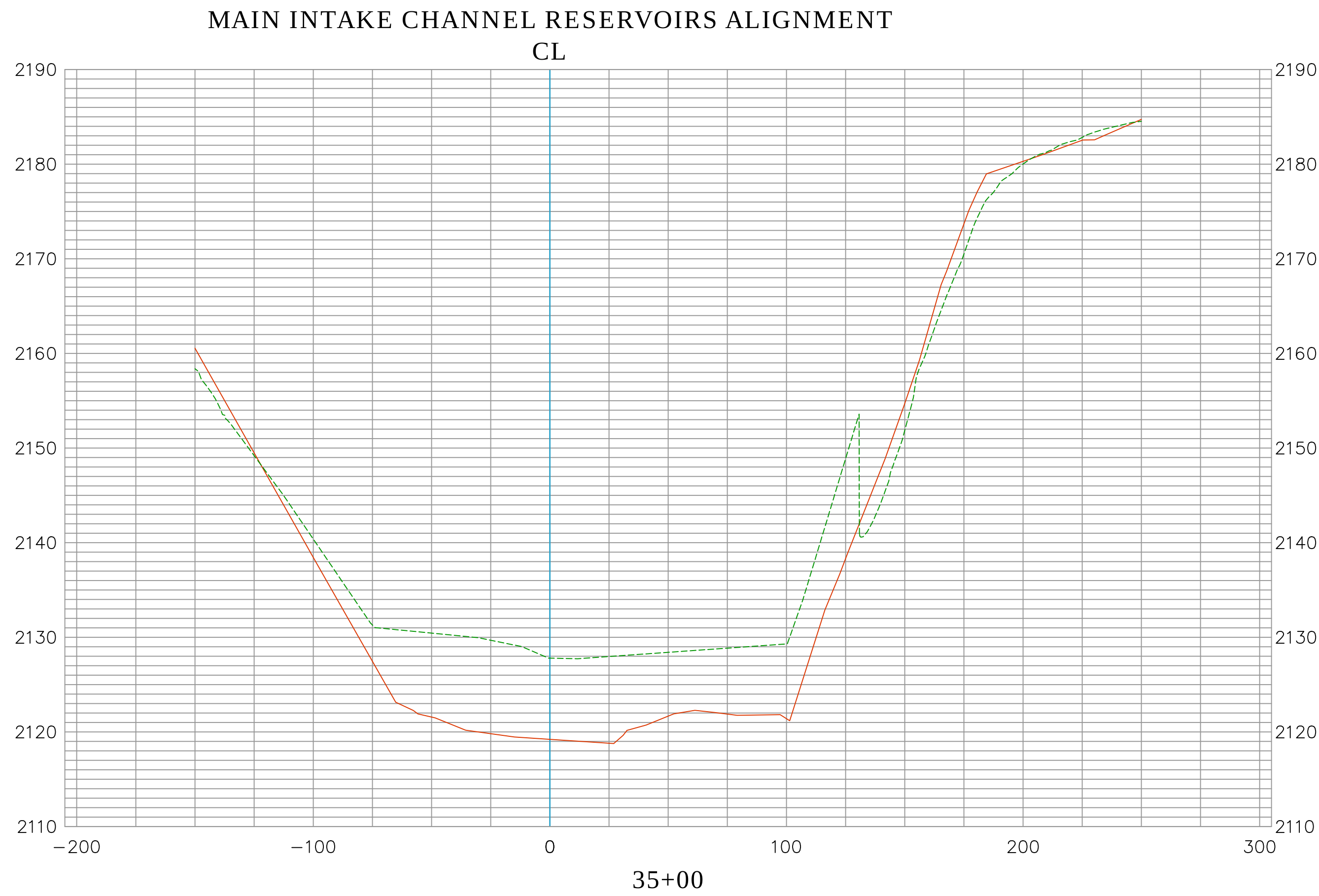


EXISTING CONDITION 2022
AERIAL LIDAR AS-BUILT 2002
DATE PREPARED: 09/29/2022



Vert. Scale: 1"=10'
Hor. Scale: 1"=40'

		COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
		SEVEN OAK DAM SEDIMENT STUDY				
		SECTIONS				
		PROJECT LIMITS: FROM INTAKE TOWER				
		TO +/- 850' UPSTREAM				
		DATE OF SURVEY: 09/07/2022			BY: OCS & SBC	SHEET NO. 26 of 37
		MAPPING			BY: H. AFTIM, PLS	
		OFFICE CHECK			BY: E. MEDINA, PLS	
		FIELD CHECK			BY: OCS & SBC	
		SCALE: 1" = 40'			W.O. #EF40054	
FILE: SEVEN_OAKS_DAM_SECTIONS_2022.DWG			FILE #2122PW-FP0002			
MARK	DATE	ITEM	REVISIONS			

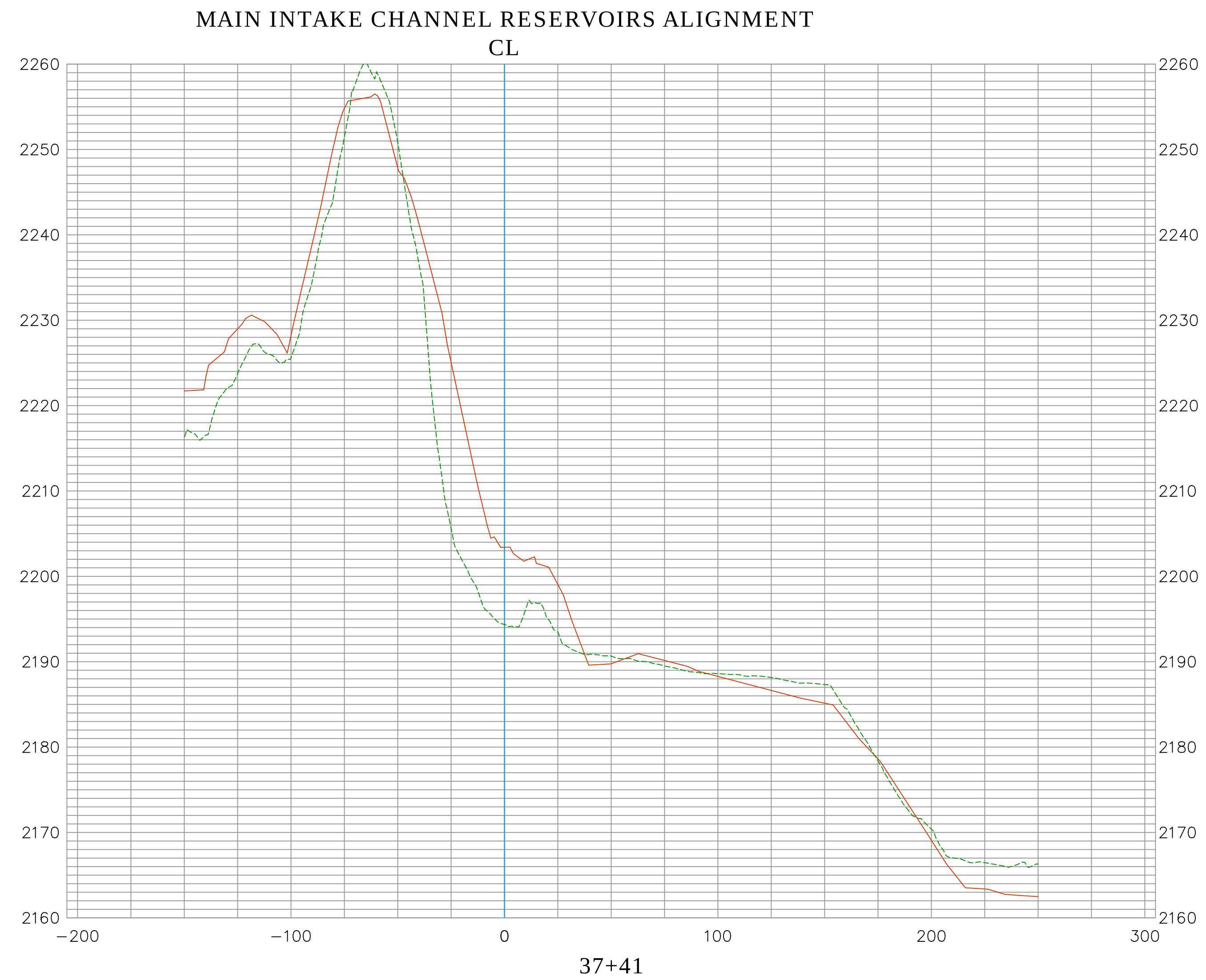
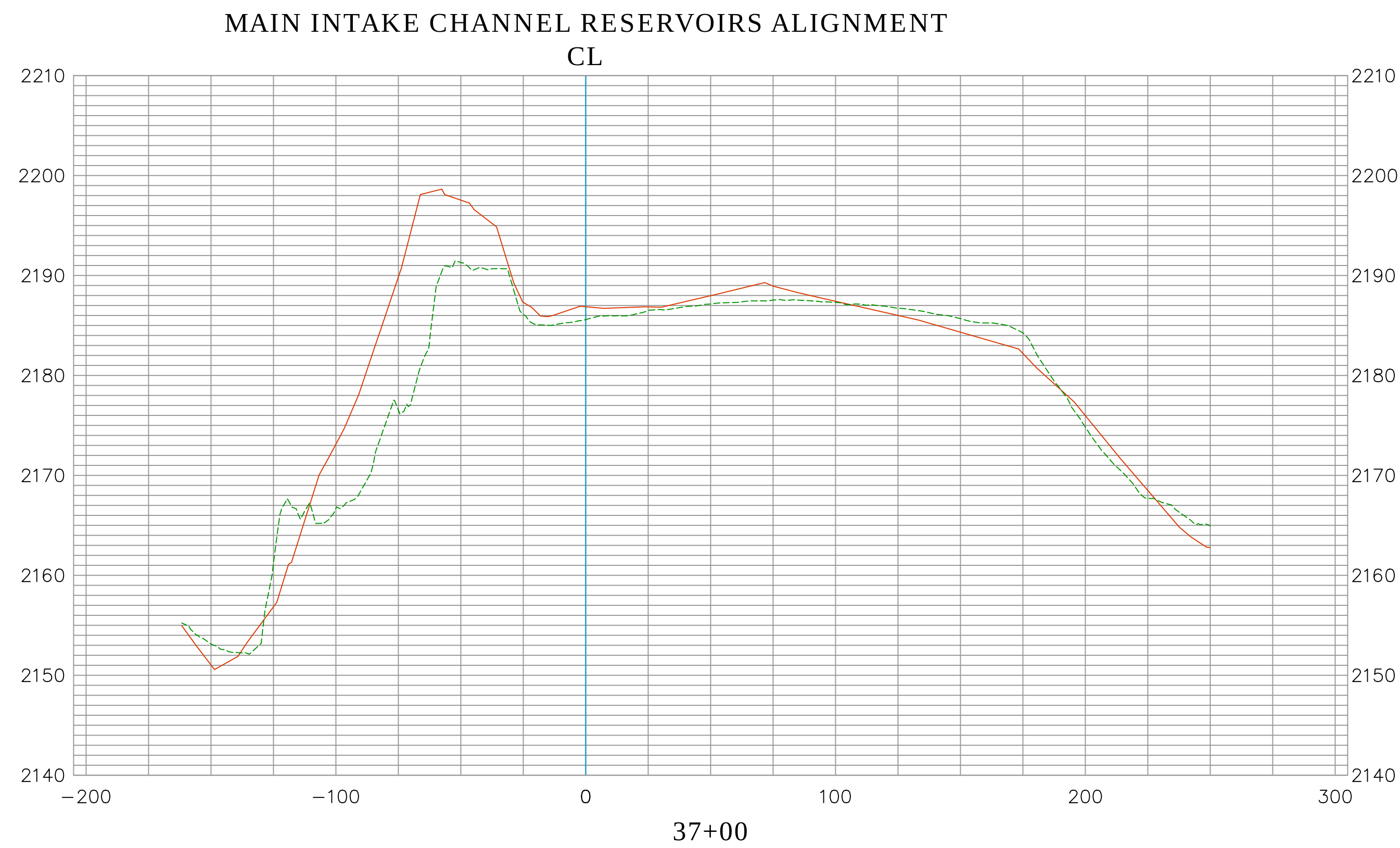


EXISTING CONDITION 2022
AERIAL LIDAR AS-BUILT 2002
DATE PREPARED:09/29/2022



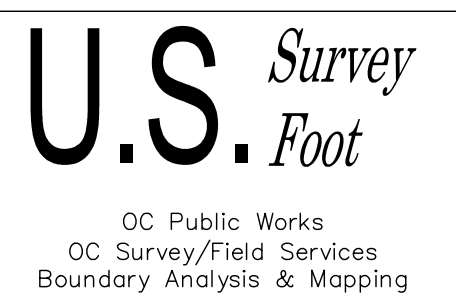
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			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			SEVEN OAK DAM SEDIMENT STUDY				
			SECTIONS				
			PROJECT LIMITS: FROM INTAKE TOWER				
			TO +/- 850' UPSTREAM				
			DATE OF SURVEY:09/07/2022		BY:OCS & SBC		SHEET NO. 27 of 37
			MAPPING		BY:H. AFTIM, PLS		
OFFICE CHECK		BY:E. MEDINA, PLS					
FIELD CHECK		BY:OCS & SBC					
MARK	DATE	ITEM	SCALE:1" = 40' W.O. #EF40054 FILE #2122PW-FP0002				
REVISIONS			FILE:SEVEN_OAKS_DAM_SECTIONS_2022.DWG				

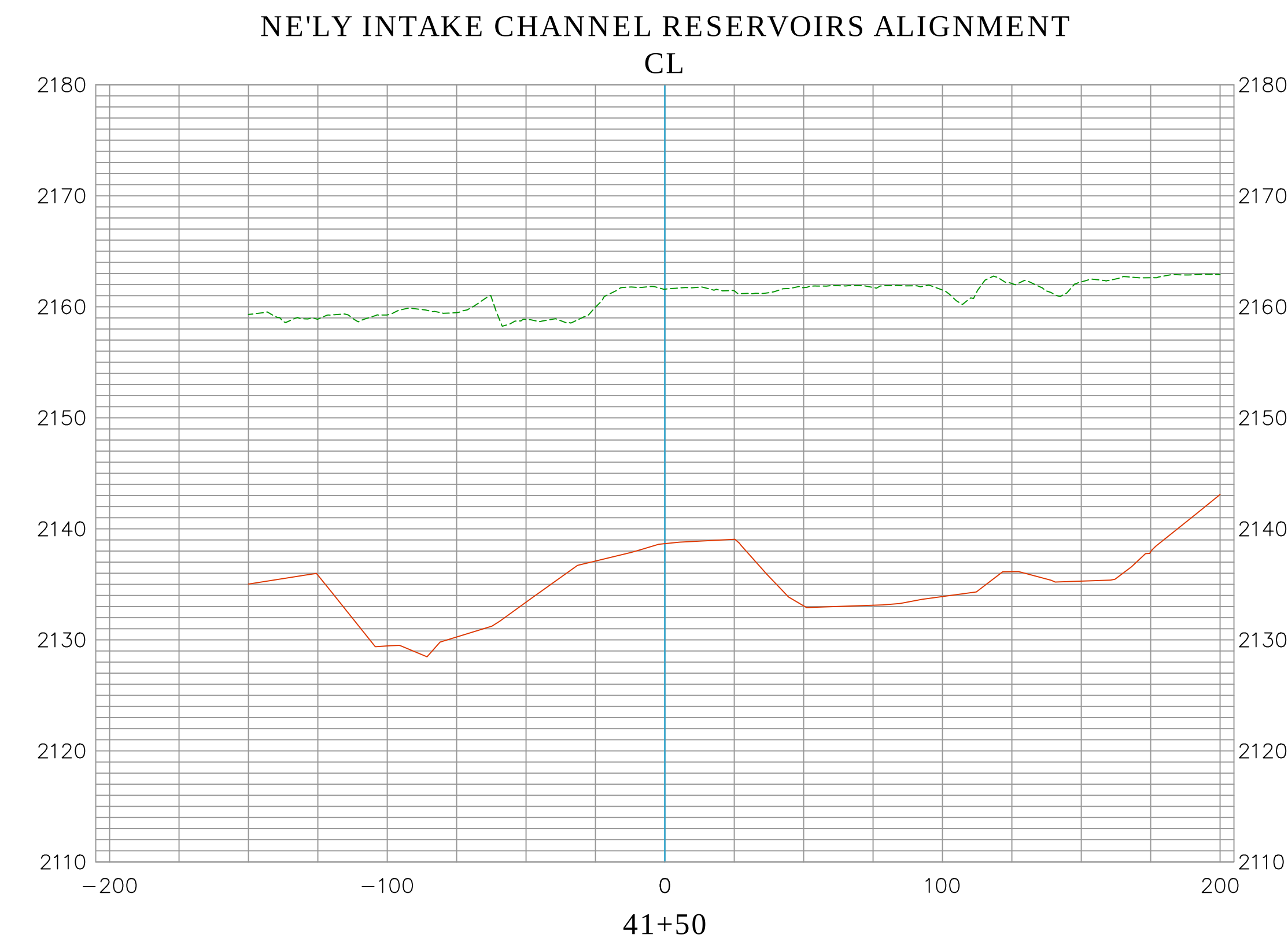
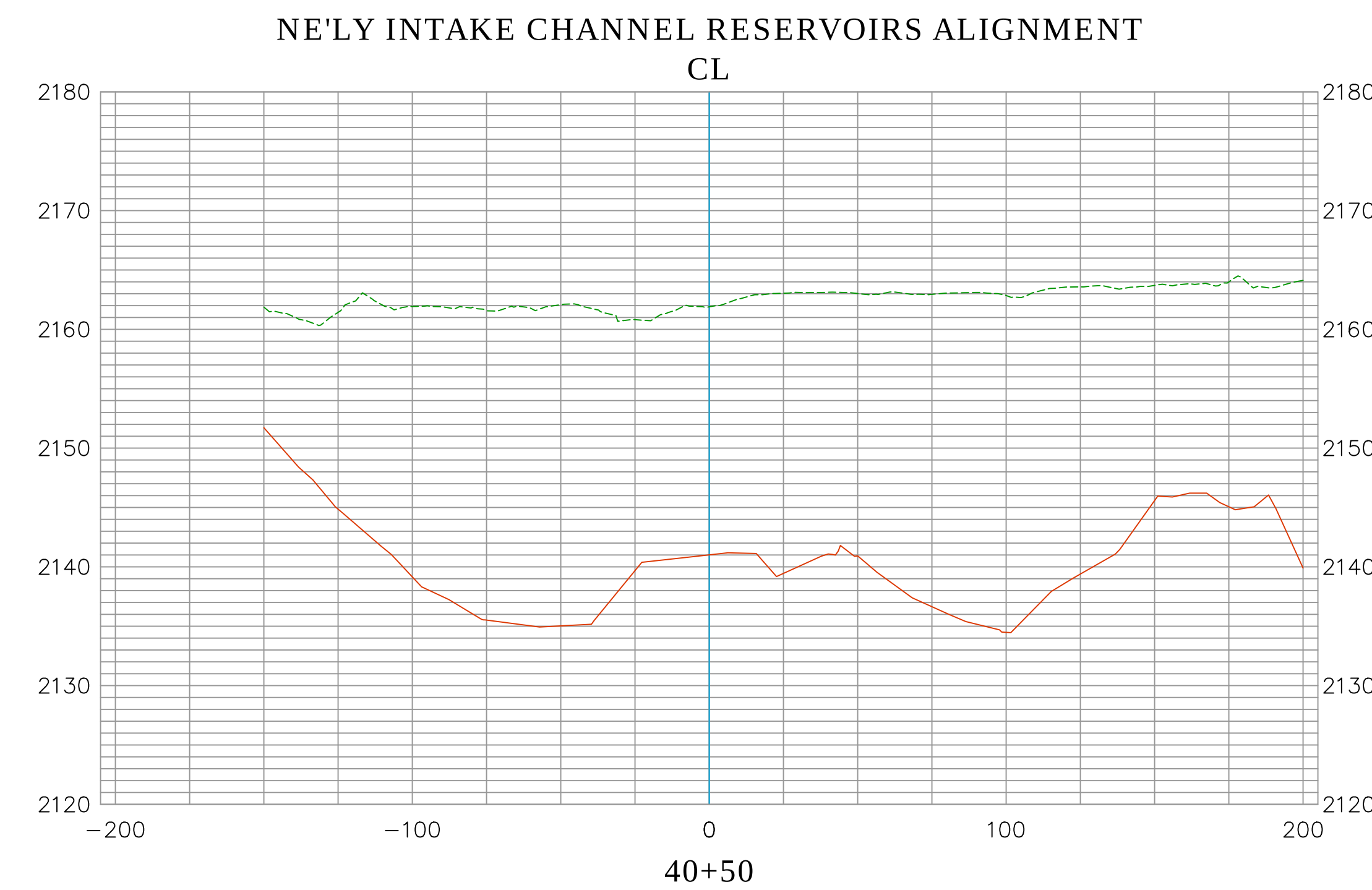
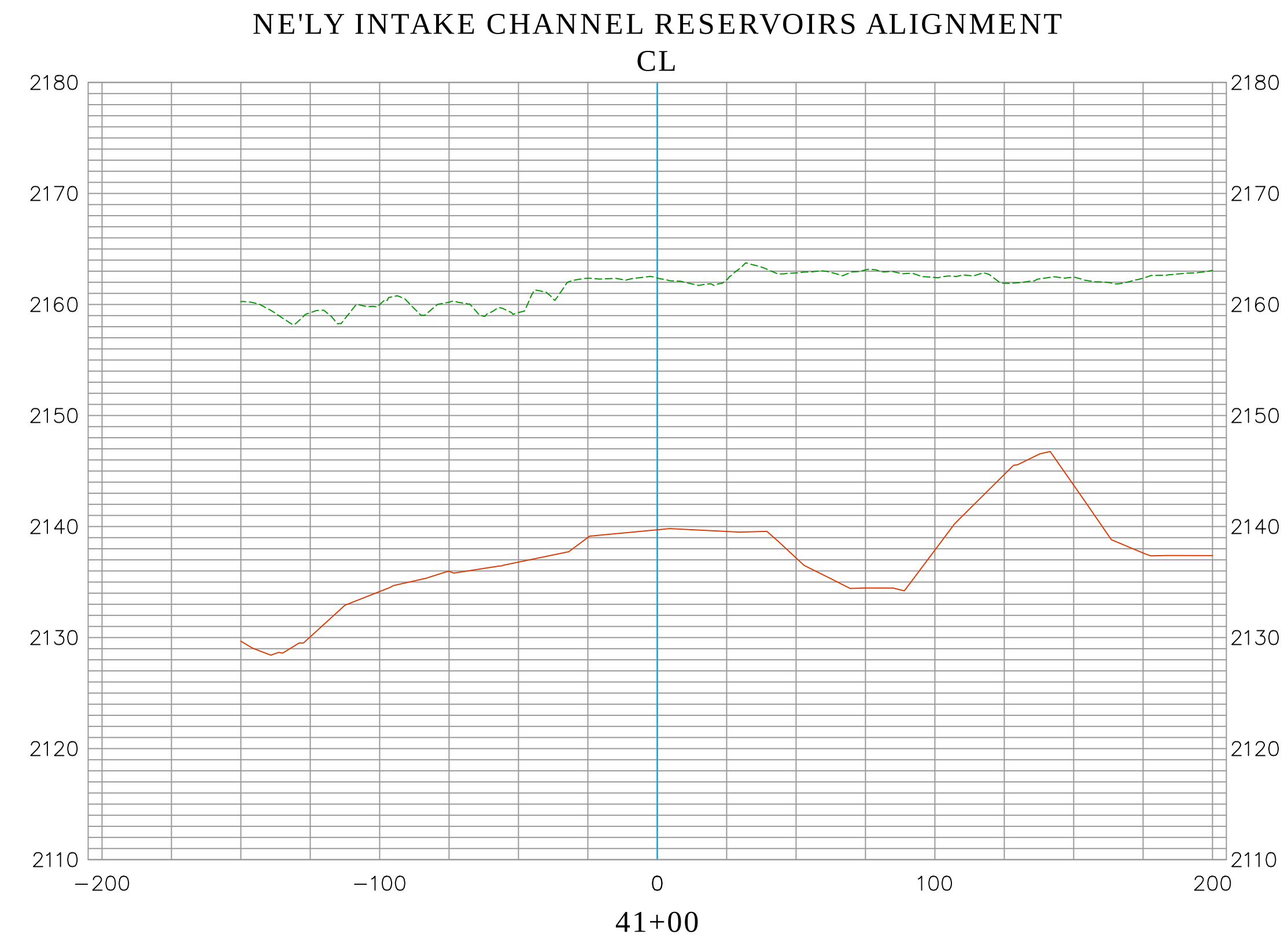
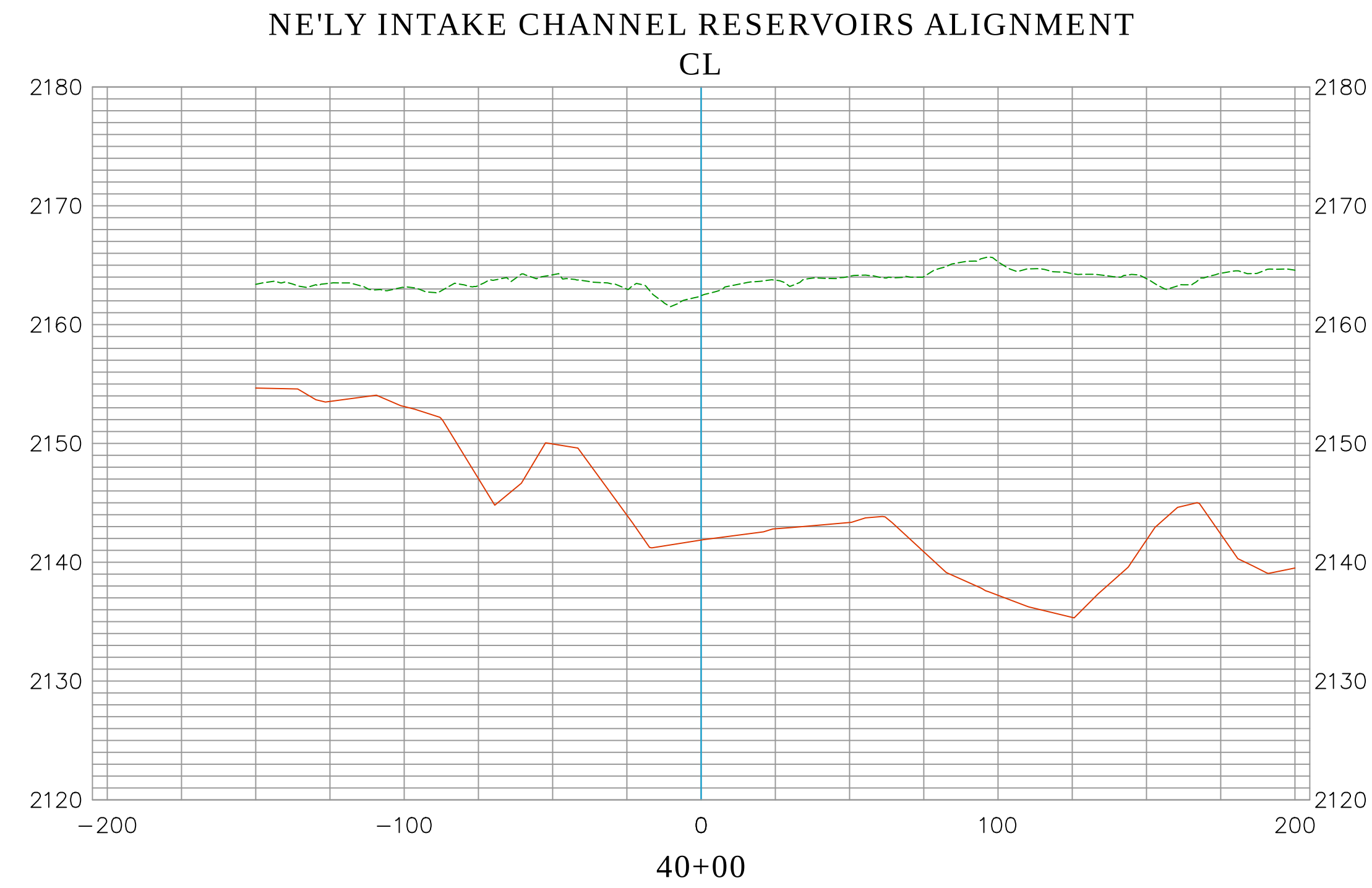


EXISTING CONDITION 2022
AERIAL LIDAR AS-BUILT 2002
DATE PREPARED: 09/29/2022

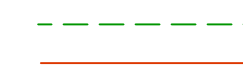
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Hor. Scale: 1"=40'



			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			SEVEN OAK DAM SEDIMENT STUDY			
			SECTIONS			
			PROJECT LIMITS: FROM INTAKE TOWER			
			TO +/- 850' UPSTREAM			
		DATE OF SURVEY: 09/07/2022		BY: OCS & SBC		SHEET NO. 28 of 37
		MAPPING		BY: H. AFTIM, PLS		
		OFFICE CHECK		BY: E. MEDINA, PLS		
		FIELD CHECK		BY: OCS & SBC		
MARK	DATE	ITEM		SCALE: 1" = 40' W.O. #EF40054		FILE # 2122PW-FP0002
REVISIONS			FILE: SEVEN OAKS DAM_SECTIONS_2022.DWG			

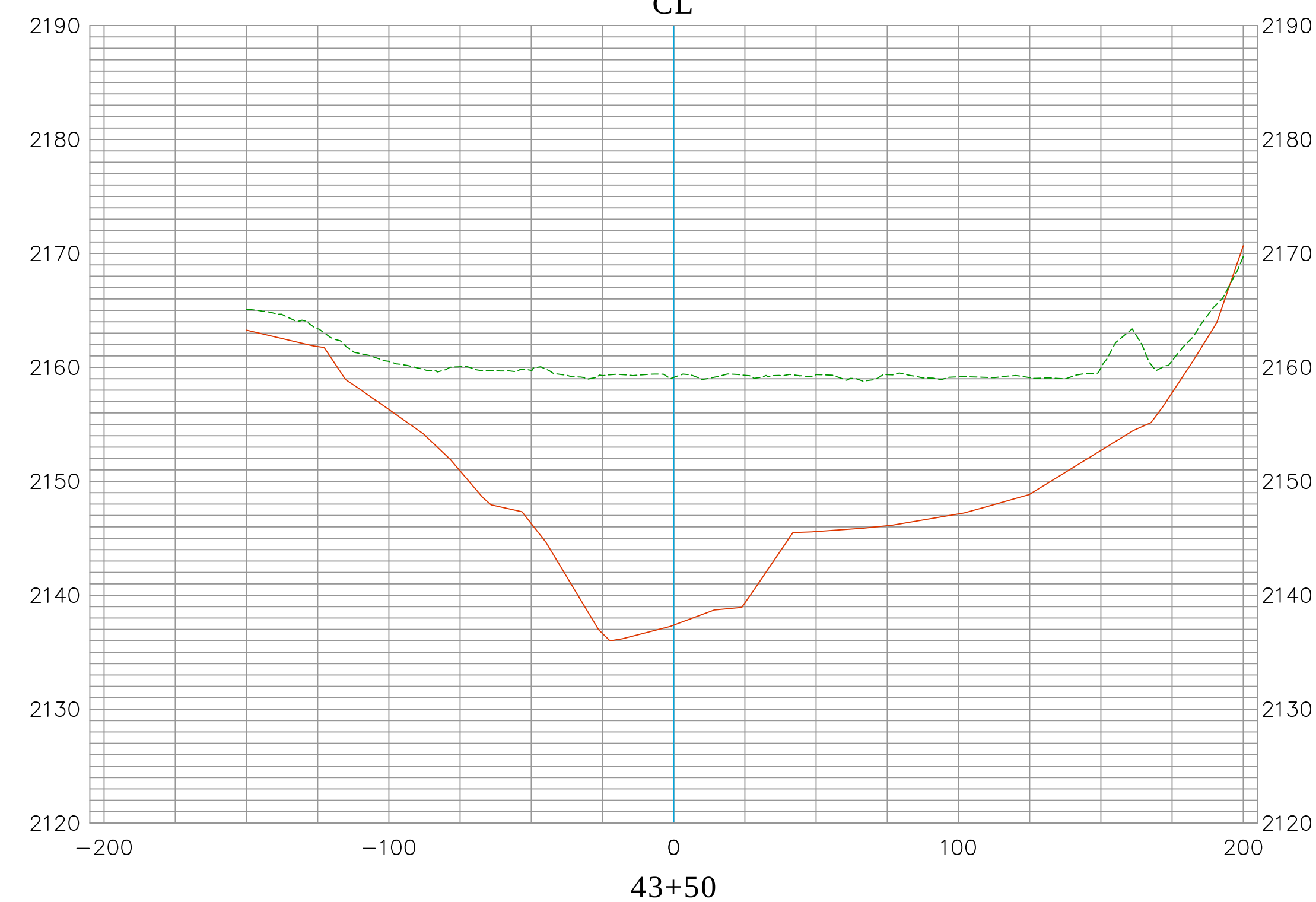
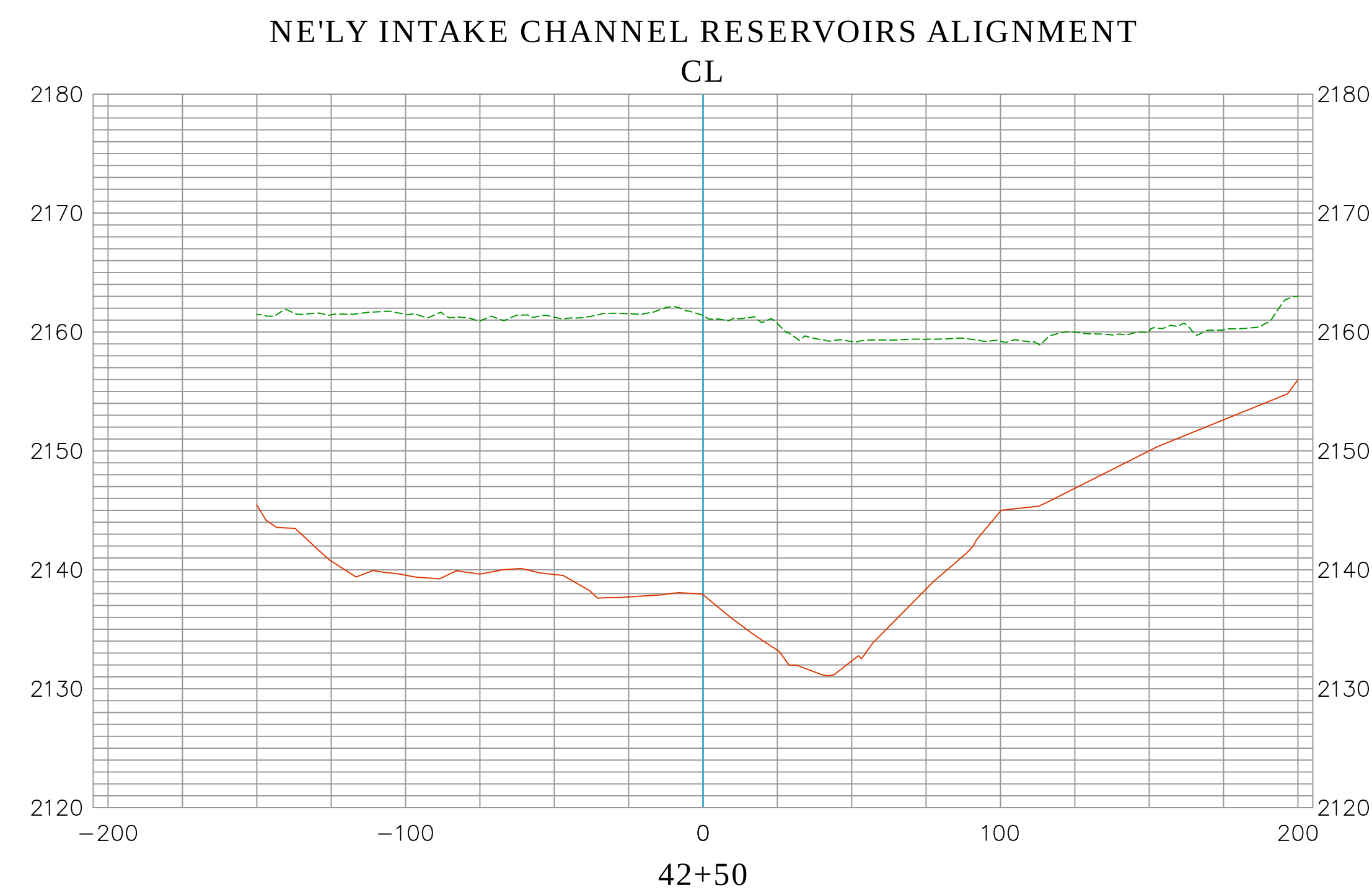
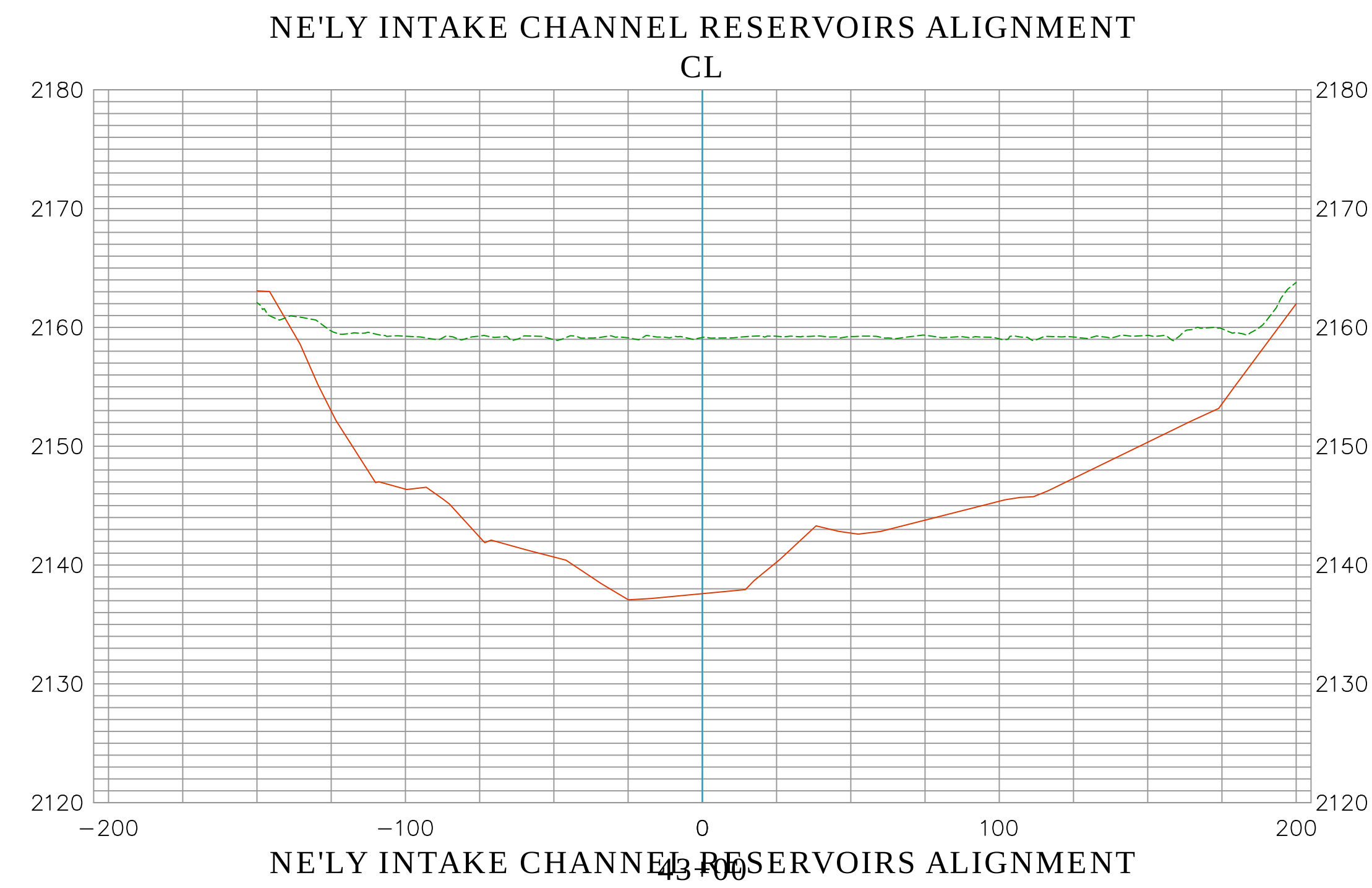
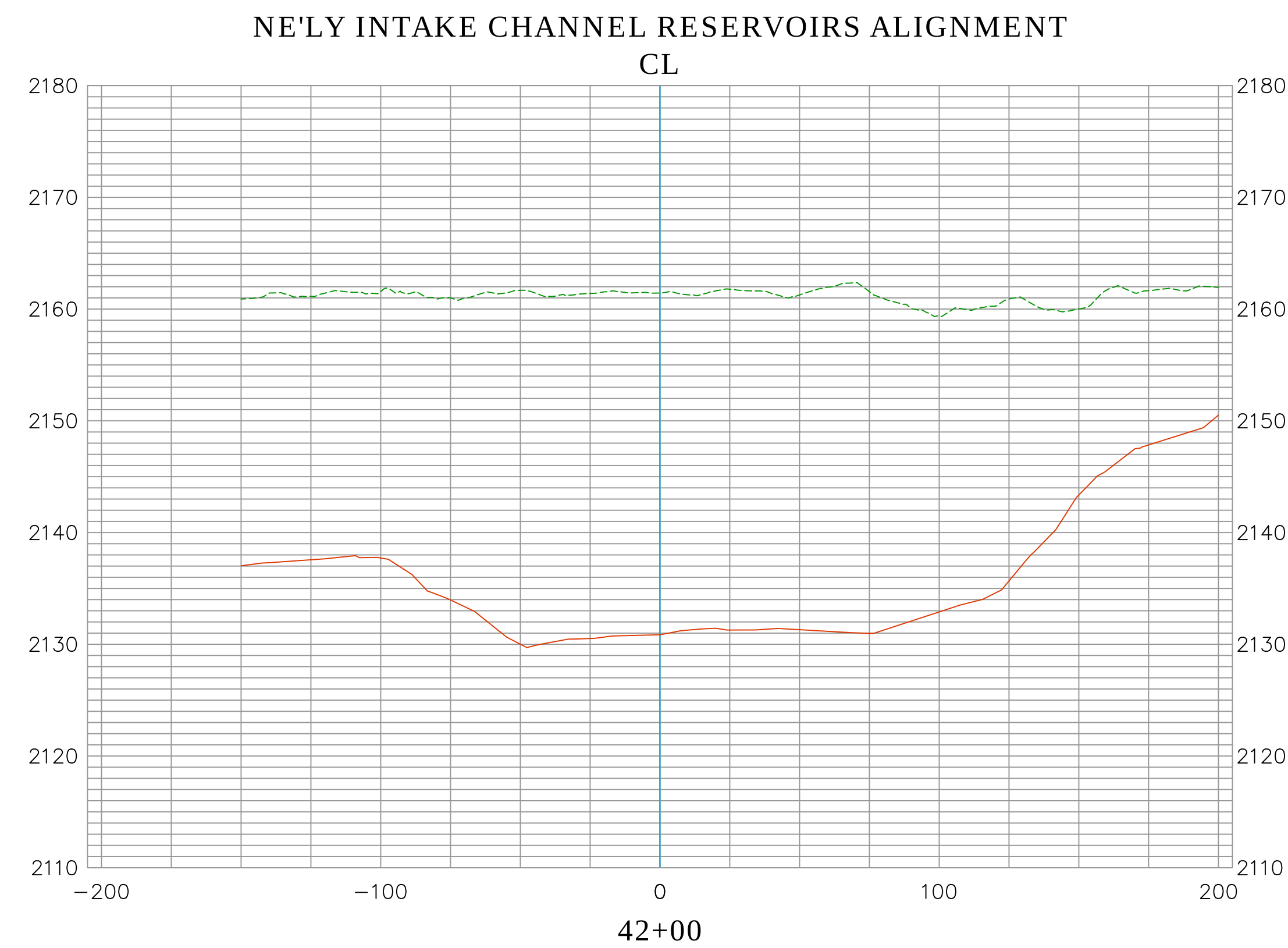


EXISTING CONDITION 2022
AERIAL LIDAR AS-BUILT 2002
DATE PREPARED: 09/29/2022



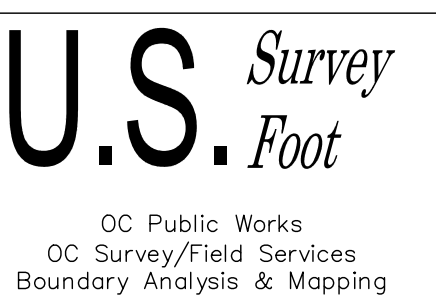
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Hor. Scale: 1"=40'

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			SEVEN OAK DAM SEDIMENT STUDY			
			SECTIONS			
			PROJECT LIMITS: FROM INTAKE TOWER			
			TO +/- 850' UPSTREAM			
			DATE OF SURVEY: 09/07/2022		BY: OCS & SBC	SHEET NO. 29 of 37
			MAPPING		BY: H. AFTIM, PLS	
			OFFICE CHECK		BY: E. MEDINA, PLS	
			FIELD CHECK		BY: OCS & SBC	
MARK		DATE	ITEM			
REVISIONS			SCALE: 1" = 40'		W.O. #EF40054	FILE #2122PW-FP0002
			FILE: SEVEN OAKS DAM_SECTIONS_2022.DWG			

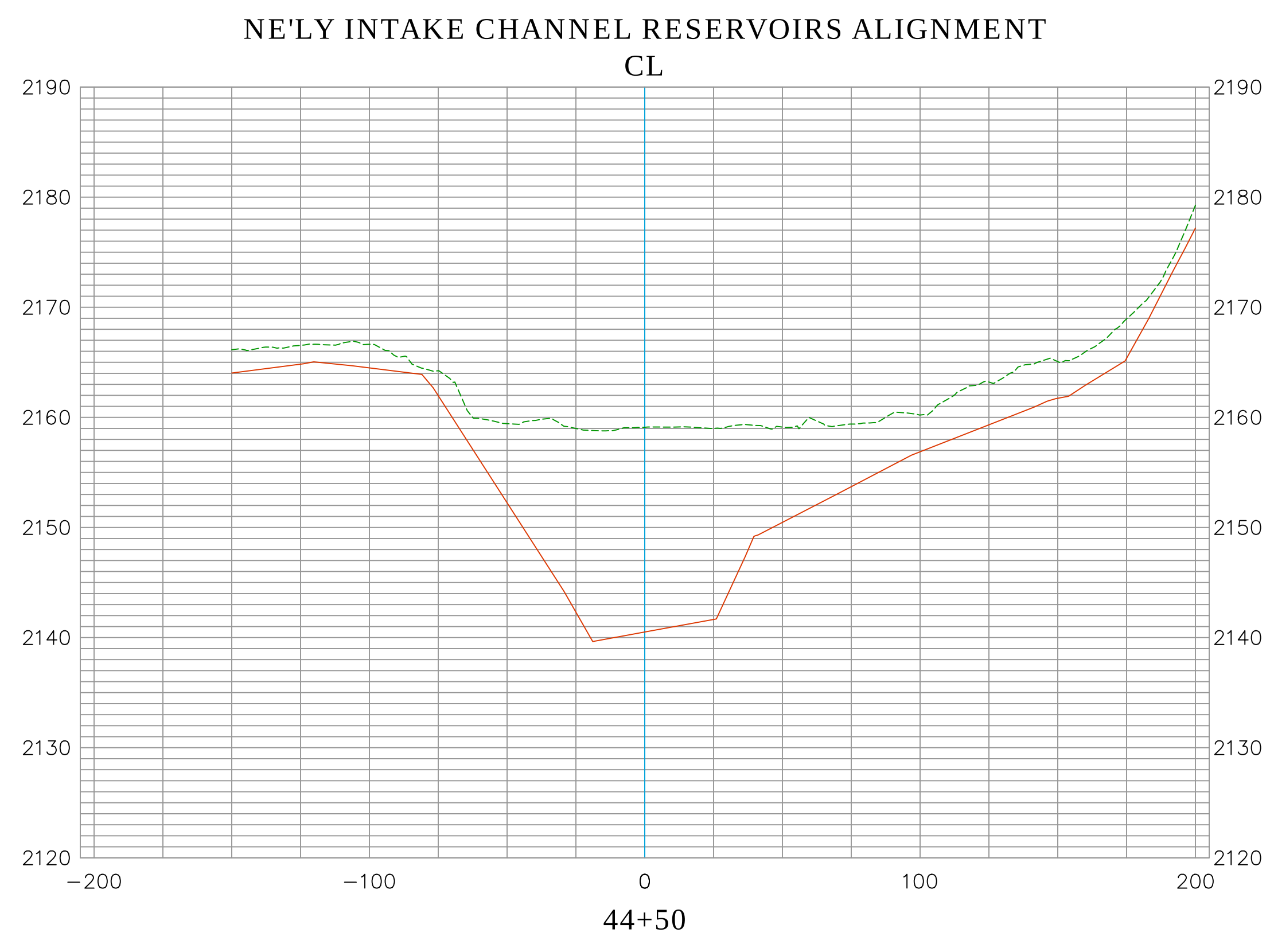
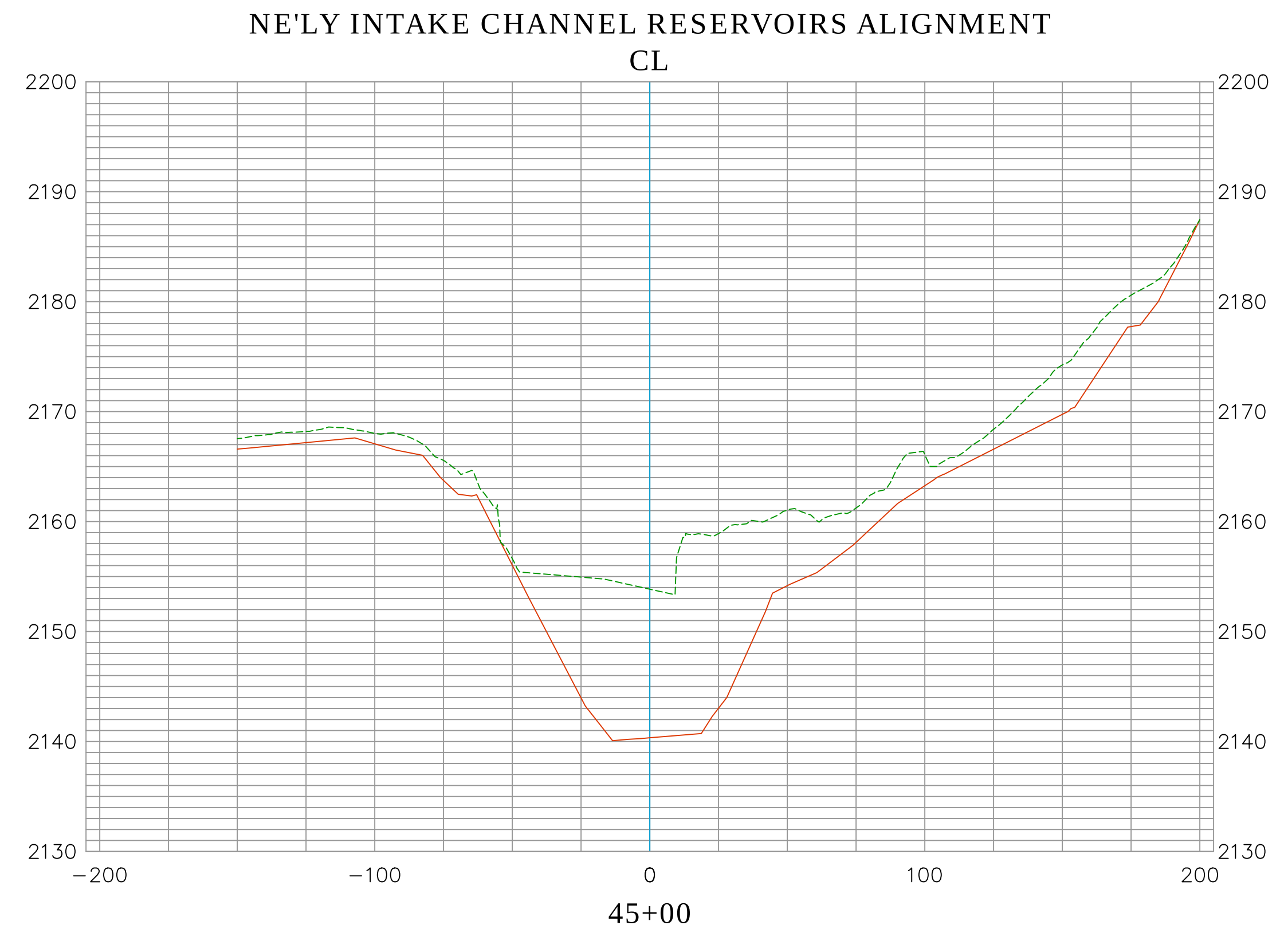
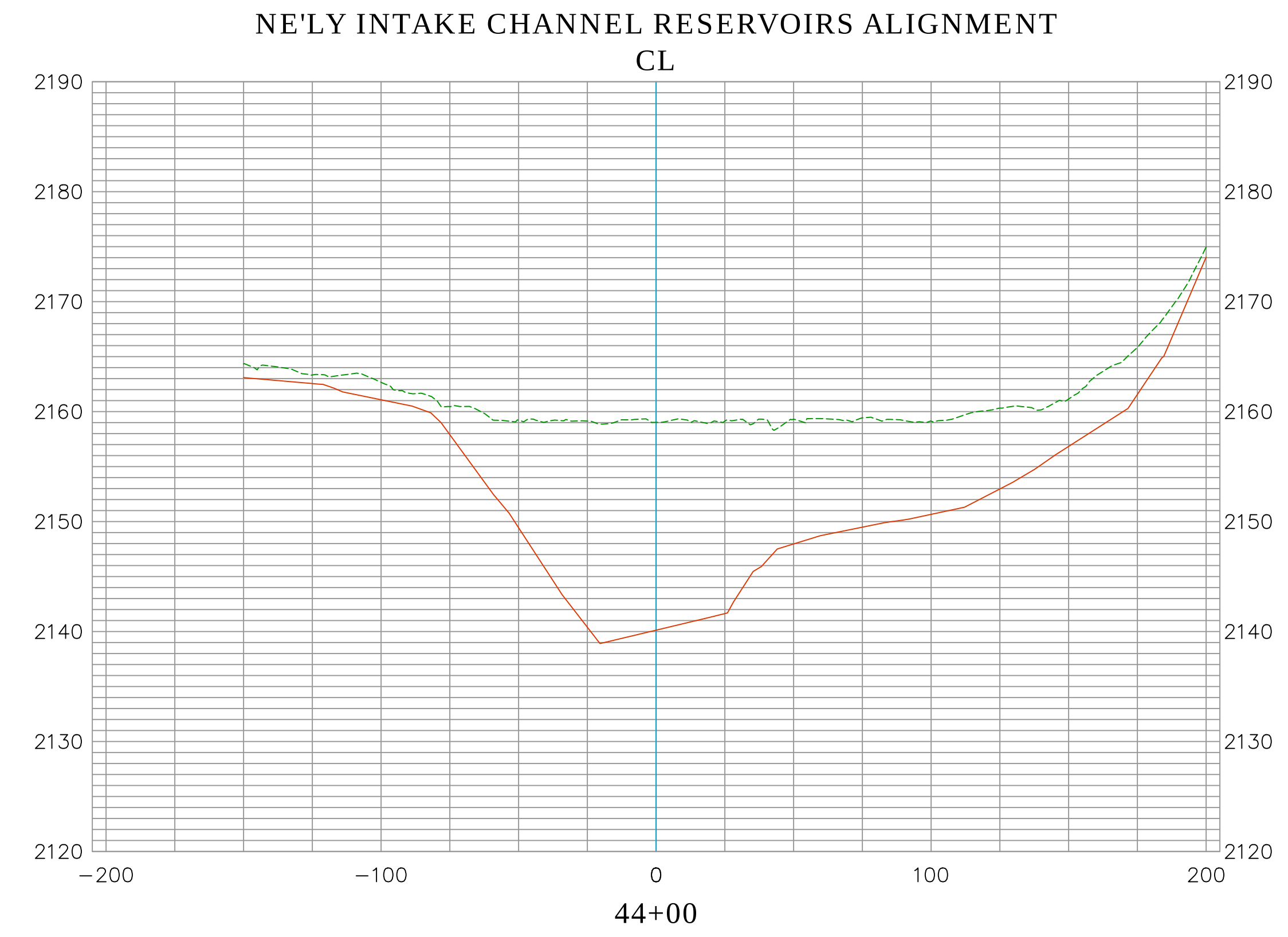


EXISTING CONDITION 2022
AERIAL LIDAR AS-BUILT 2002
DATE PREPARED: 09/29/2022

Vert. Scale: 1"=10'
Hor. Scale: 1"=40'



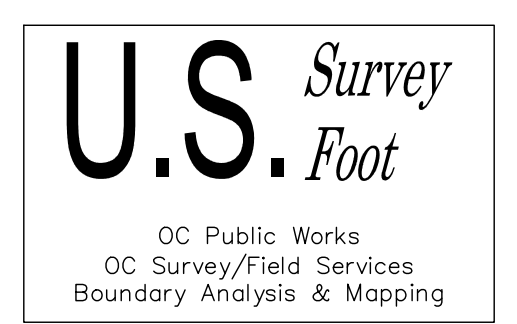
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		SEVEN OAK DAM SEDIMENT STUDY			
		SECTIONS			
		PROJECT LIMITS: FROM INTAKE TOWER TO +/- 850' UPSTREAM			
		DATE OF SURVEY: 09/07/2022		BY: OCS & SBC	
		MAPPING		BY: H. AFTIM, PLS	
		OFFICE CHECK		BY: E. MEDINA, PLS	
		FIELD CHECK		BY: OCS & SBC	
		SCALE: 1" = 40'		W.O. #EF40054	
				FILE #2122PW-FP0002	
		FILE: SEVEN OAKS DAM_SECTIONS_2022.DWG			
MARK	DATE	ITEM			
		REVISIONS			



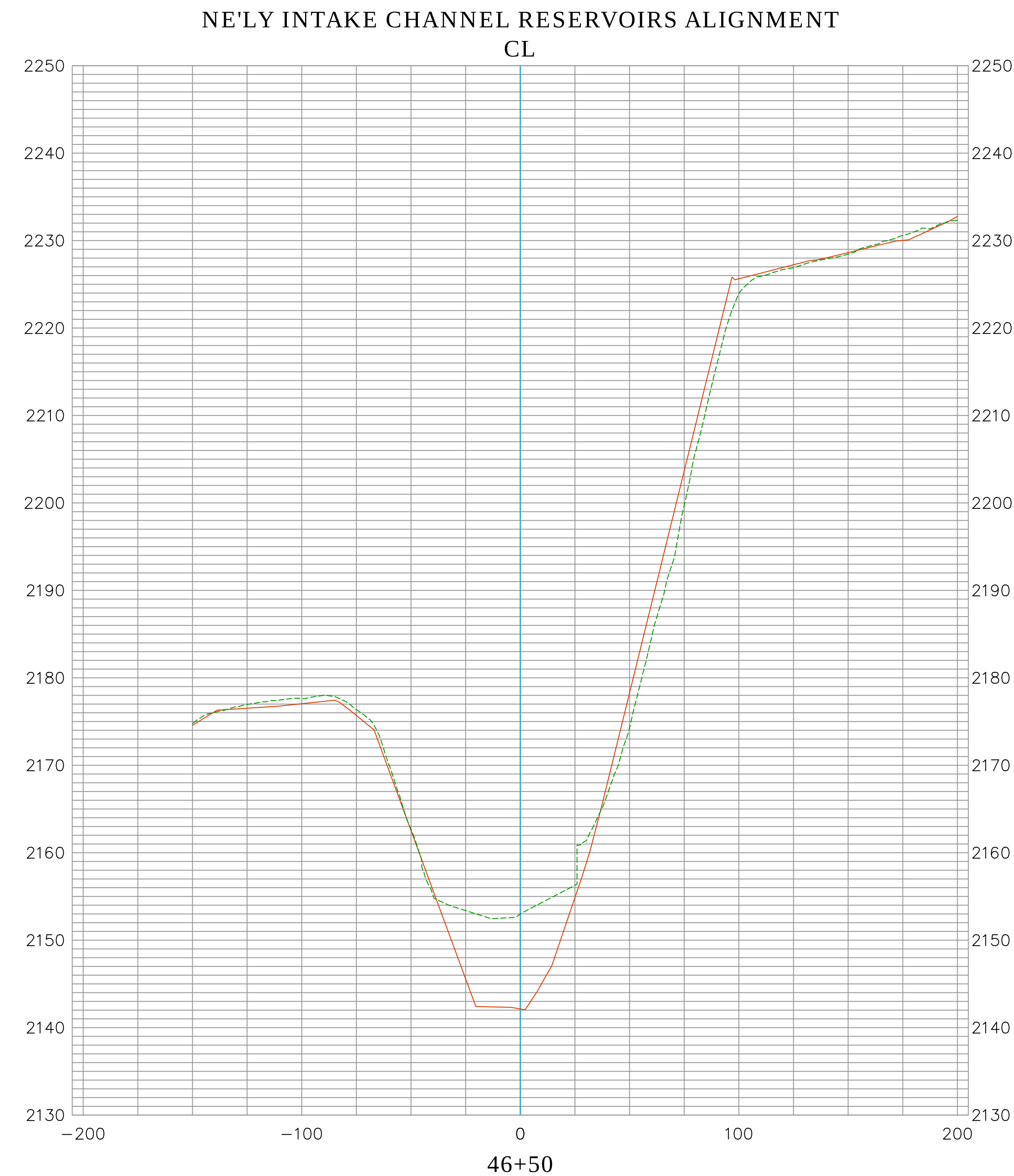
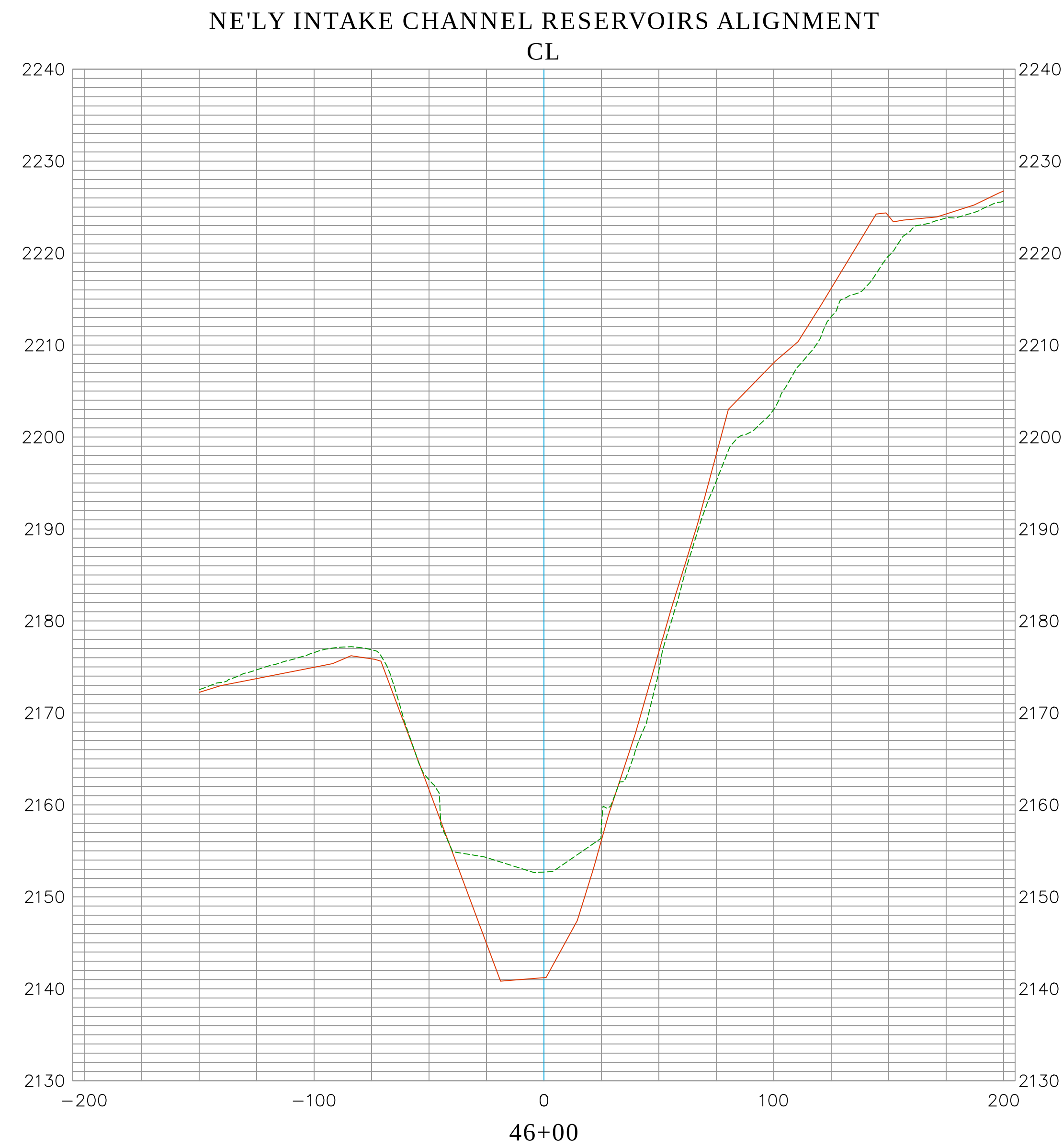
EXISTING CONDITION 2022
AERIAL LIDAR AS-BUILT 2002
DATE PREPARED: 09/29/2022



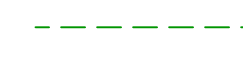
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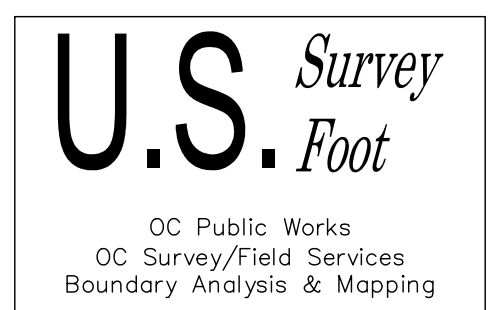
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			SEVEN OAK DAM SEDIMENT STUDY				
			SECTIONS				
			PROJECT LIMITS: FROM INTAKE TOWER TO +/- 850' UPSTREAM				
			DATE OF SURVEY: 09/07/2022		BY: OCS & SBC		SHEET NO. 31 of 37
			MAPPING		BY: H. AFTIM, PLS		
			OFFICE CHECK		BY: E. MEDINA, PLS		
			FIELD CHECK		BY: OCS & SBC		
			SCALE: 1" = 40'		W.O. #EF40054 FILE #2122PW-FP0002		
			MARK		DATE		ITEM
						FILE: SEVEN OAKS DAM_SECTIONS_2022.DWG	



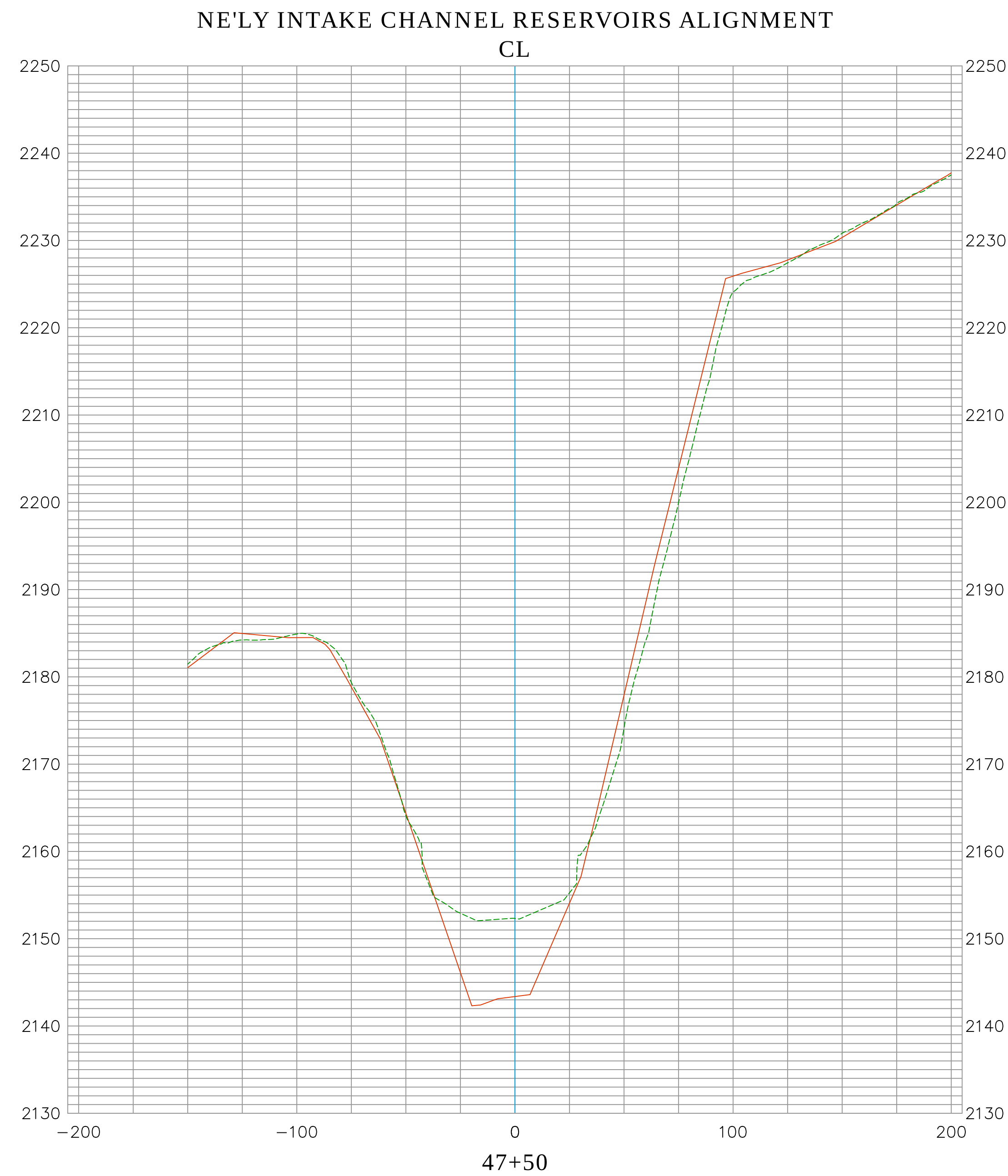
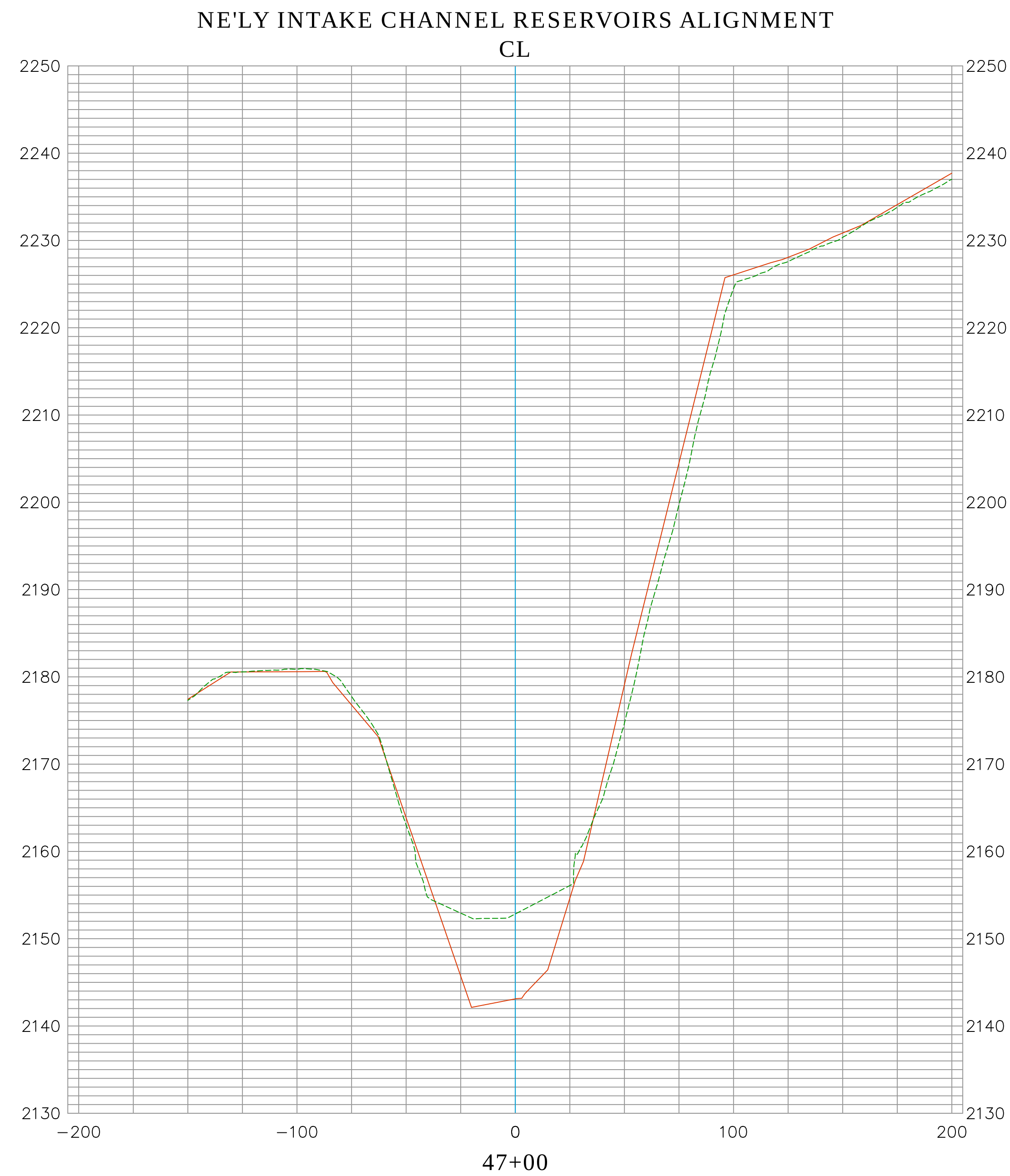
EXISTING CONDITION 2022
AERIAL LIDAR AS-BUILT 2002
DATE PREPARED:09/29/2022



Vert. Scale: 1"=10'
Hor. Scale: 1"=40'



			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
			SEVEN OAK DAM SEDIMENT STUDY		
			SECTIONS		
			PROJECT LIMITS: FROM INTAKE TOWER		
			TO +/- 850' UPSTREAM		
		DATE OF SURVEY:09/07/2022	BY:OCS & SBC	SHEET NO. 32 of 37	
		MAPPING	BY:H. AFTIM, PLS		
		OFFICE CHECK	BY:E. MEDINA, PLS		
		FIELD CHECK	BY:OCS & SBC		
MARK	DATE	ITEM	SCALE:1" = 40'	W.O. #EF40054	FILE #2122PW-FP0002
REVISIONS			FILE:SEVEN OAKS DAM_SECTIONS_2022.DWG		

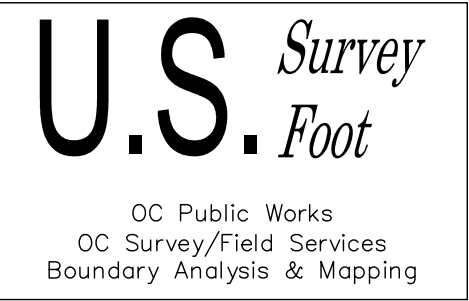
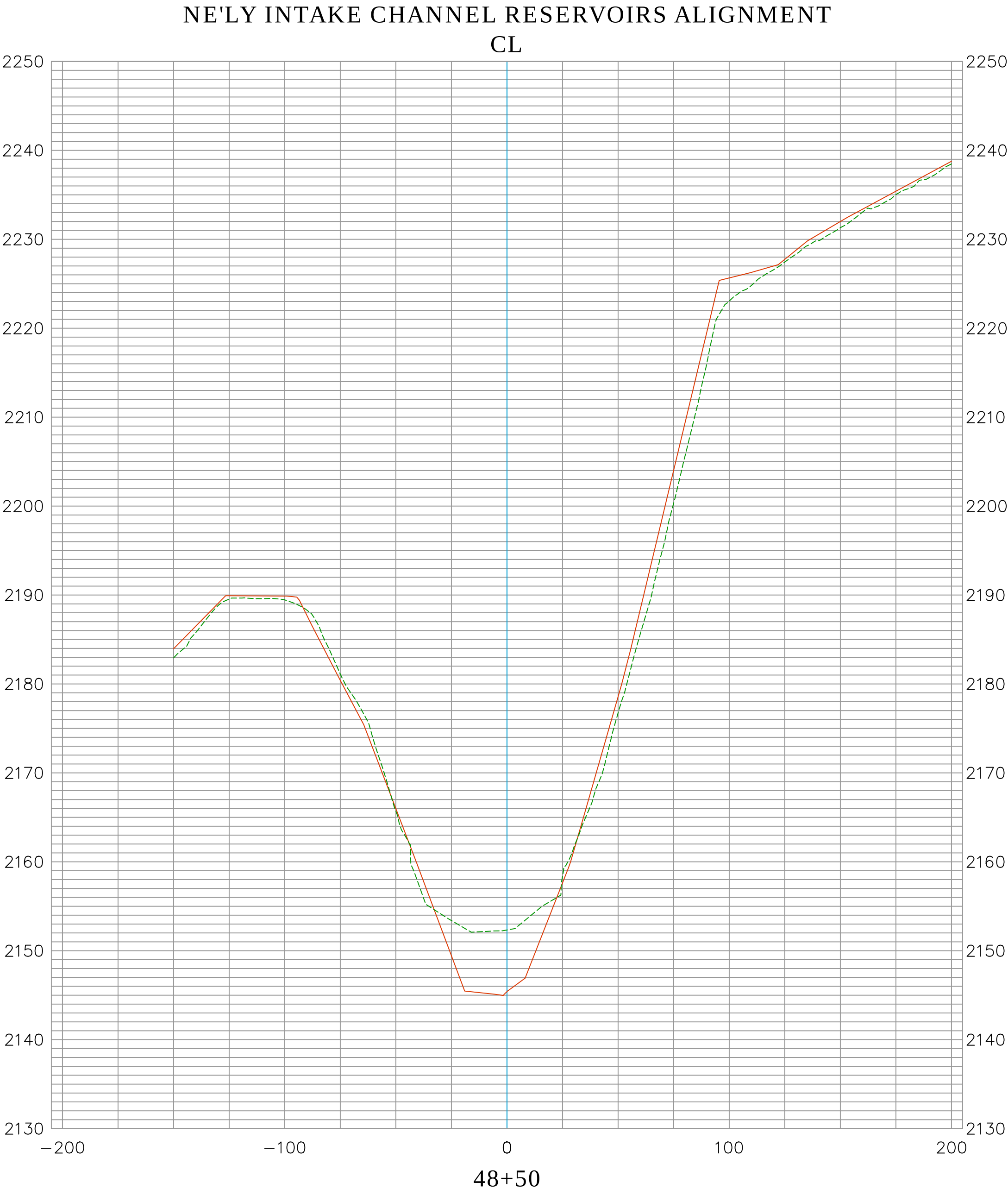
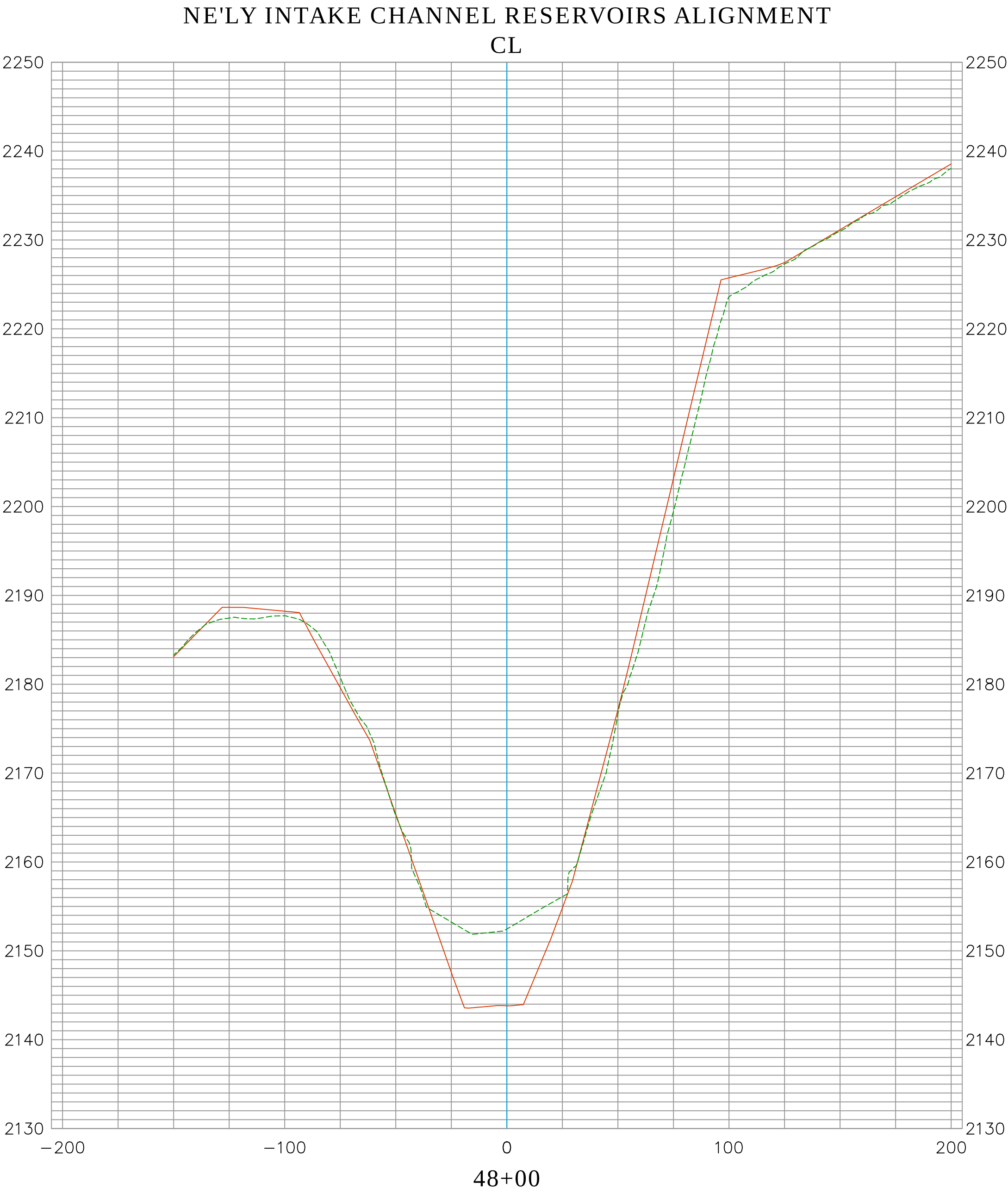


EXISTING CONDITION 2022
AERIAL LIDAR AS-BUILT 2002
DATE PREPARED: 09/29/2022

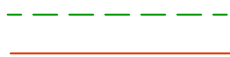


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Hor. Scale: 1"=40'

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
			SEVEN OAK DAM SEDIMENT STUDY		
			SECTIONS		
			PROJECT LIMITS: FROM INTAKE TOWER		
			TO +/- 850' UPSTREAM		
			DATE OF SURVEY: 09/07/2022	BY: OCS & SBC	SHEET NO. 33 of 37
			MAPPING	BY: H. AFTIM, PLS	
			OFFICE CHECK	BY: E. MEDINA, PLS	
			FIELD CHECK	BY: OCS & SBC	
MARK	DATE	ITEM	SCALE: 1" = 40'	W.O. #EF40054	FILE #2122PW-FP0002
REVISIONS			FILE: SEVEN OAKS DAM_SECTIONS_2022.DWG		

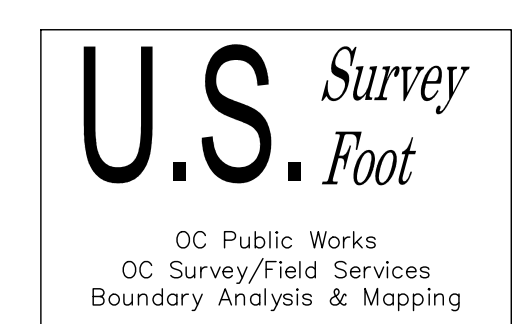
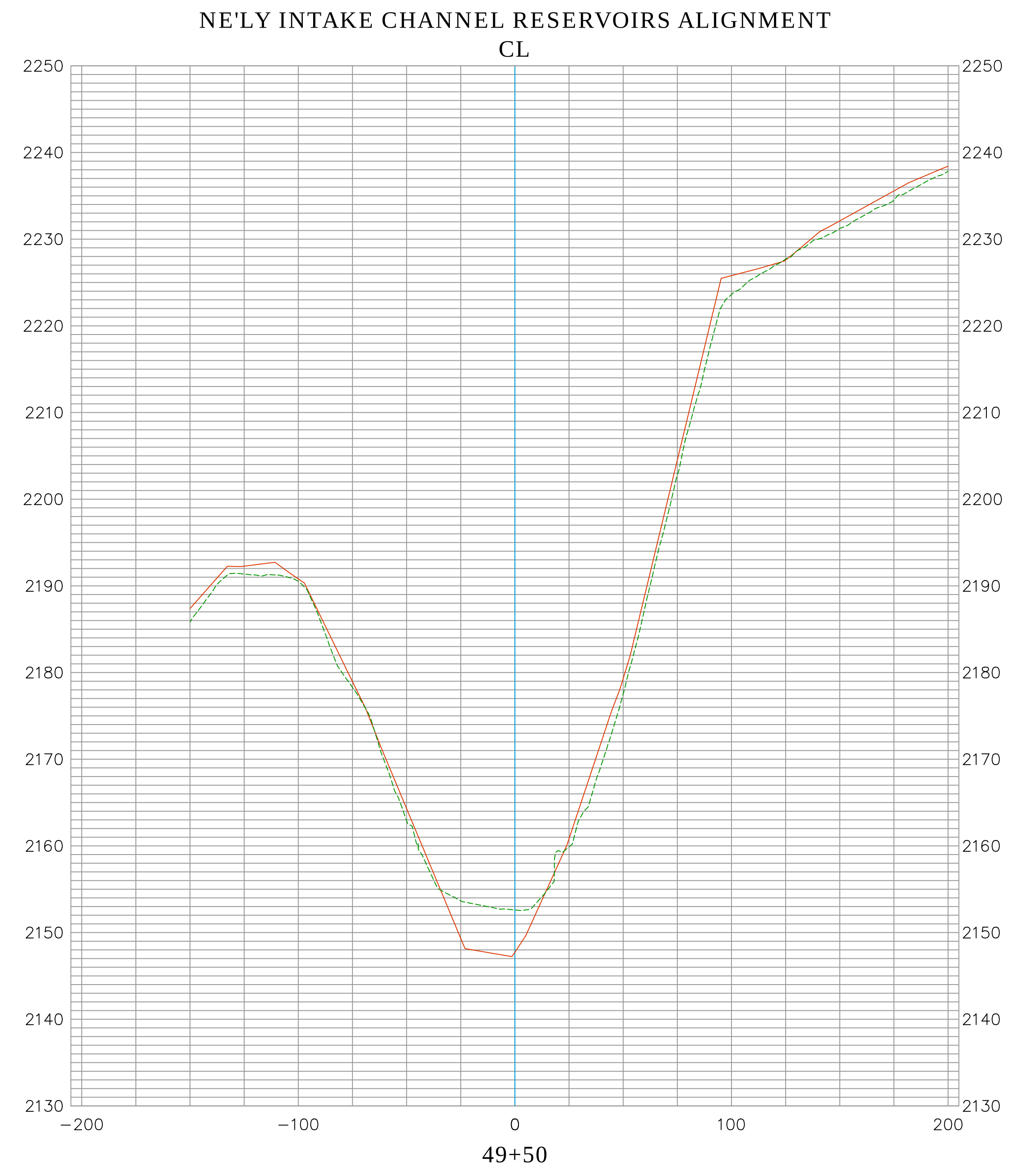
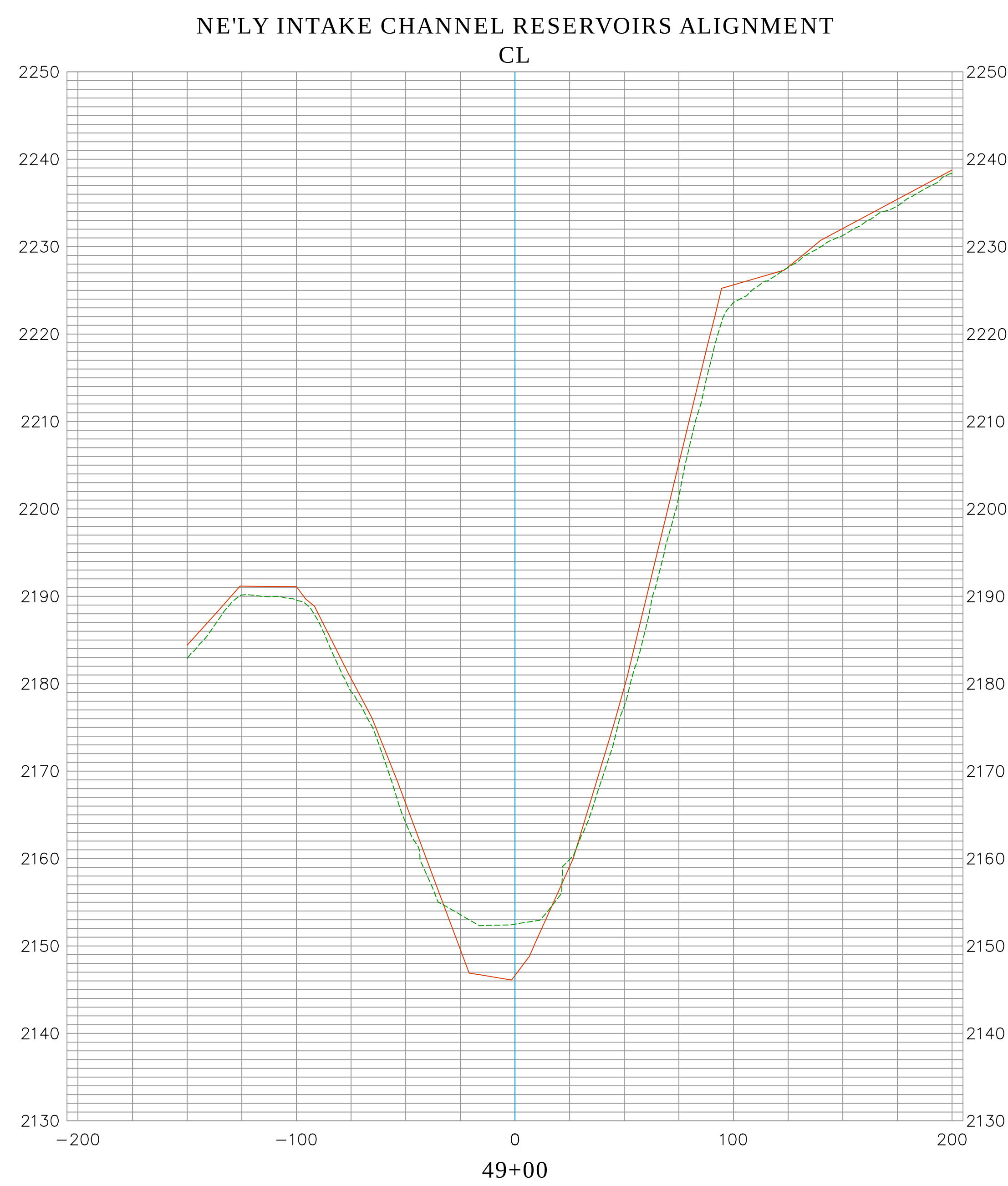


EXISTING CONDITION 2022
AERIAL LIDAR AS-BUILT 2002
DATE PREPARED:09/29/2022



Vert. Scale: 1"=10'
Hor. Scale: 1"=40'

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
			SEVEN OAK DAM SEDIMENT STUDY		
			SECTIONS		
			PROJECT LIMITS: FROM INTAKE TOWER		
			TO +/- 850' UPSTREAM		
		DATE OF SURVEY:09/07/2022	BY:OCS & SBC	SHEET NO. 34 of 37	
		MAPPING	BY:H. AFTIM, PLS		
		OFFICE CHECK	BY:E. MEDINA, PLS		
		FIELD CHECK	BY:OCS & SBC		
MARK	DATE	ITEM	SCALE:1" = 40'	W.O. #EF40054	FILE #2122PW-FP0002
REVISIONS			FILE:SEVEN OAKS DAM_SECTIONS_2022.DWG		

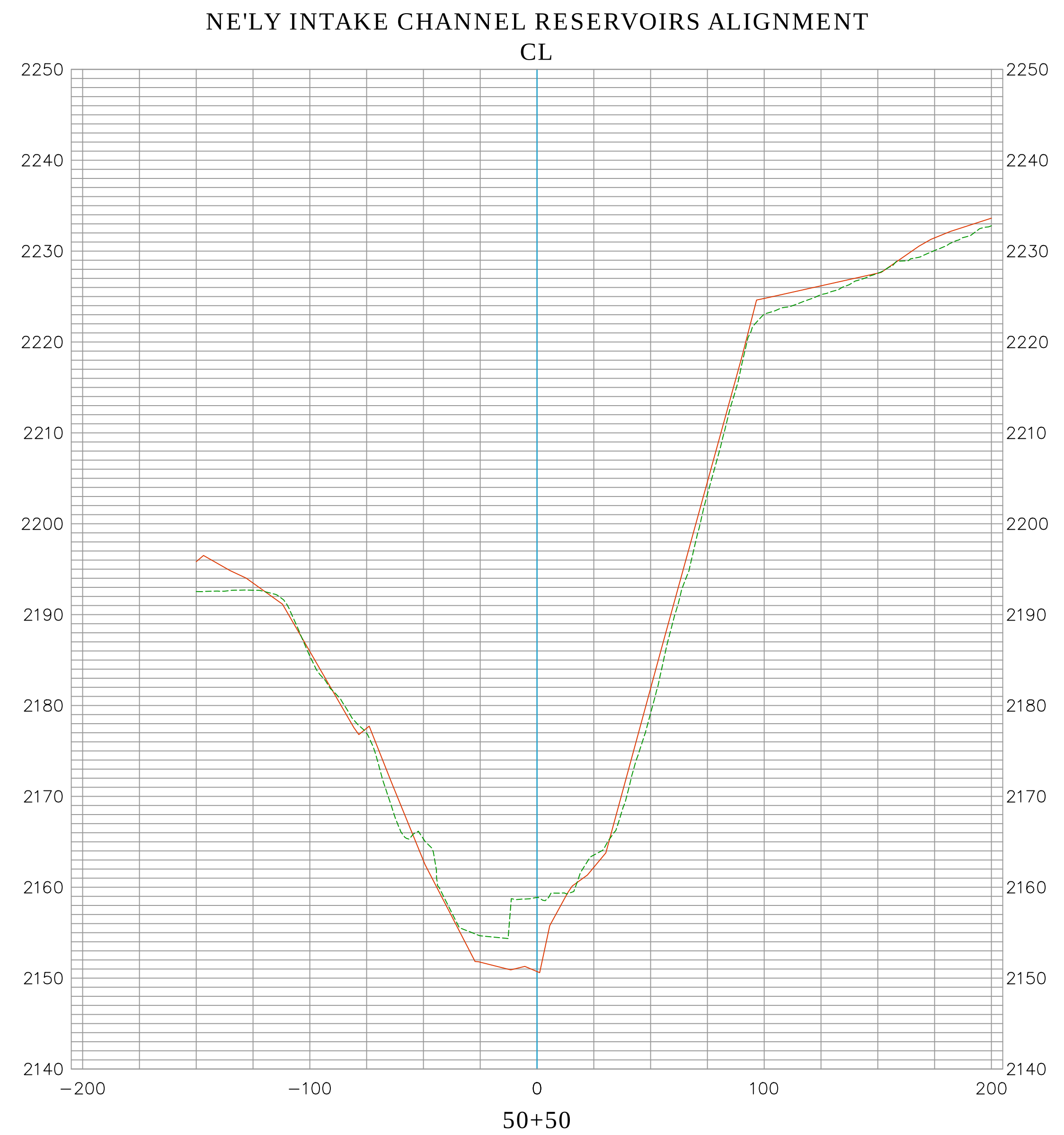
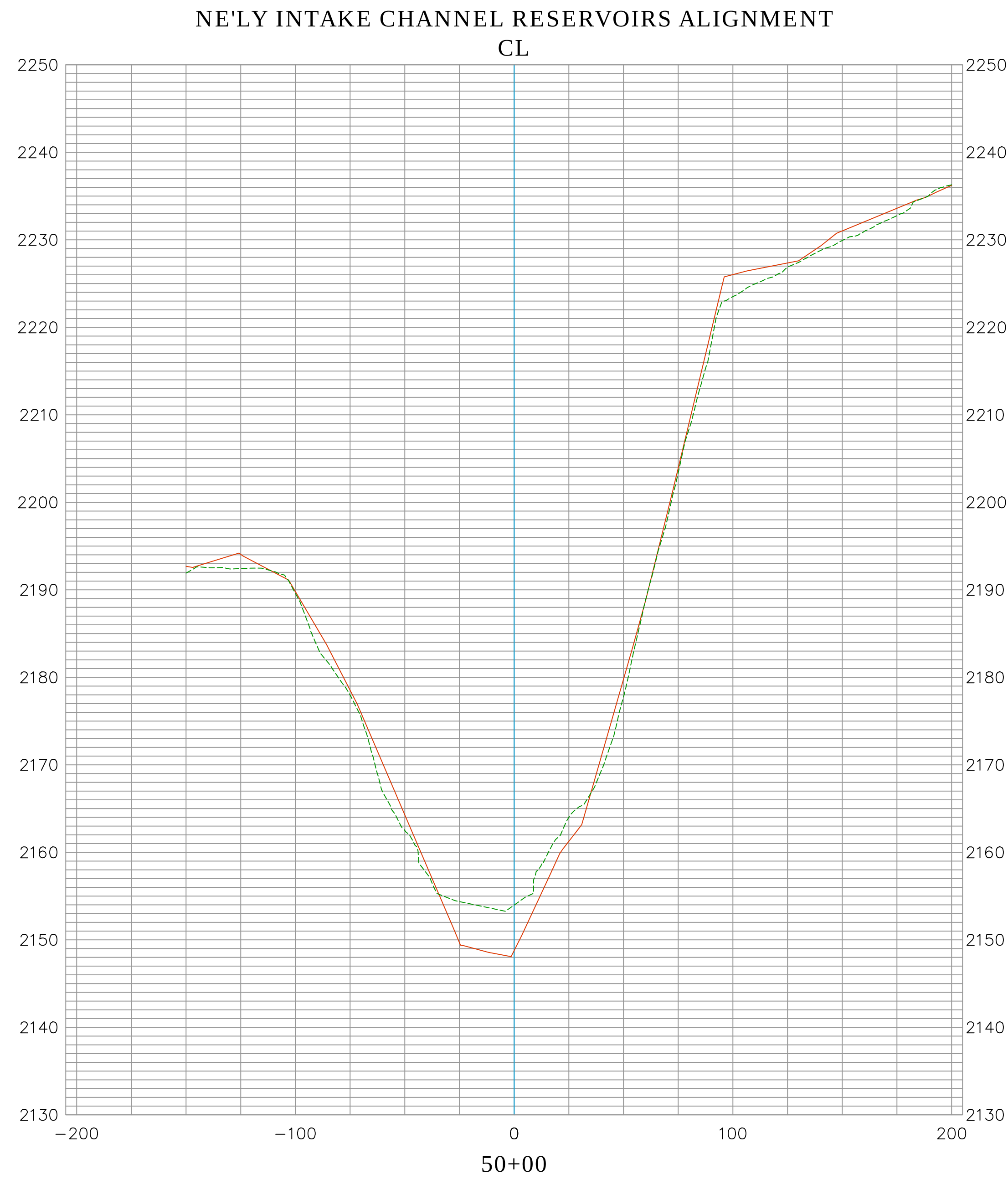


EXISTING CONDITION 2022
AERIAL LIDAR AS-BUILT 2002
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Vert. Scale: 1"=10'
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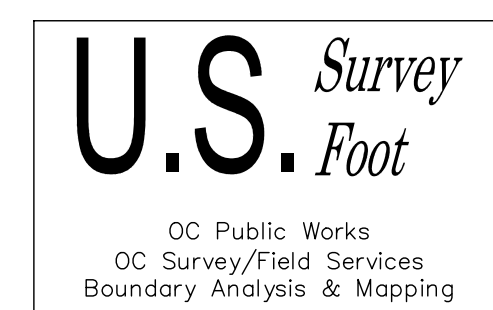
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		SEVEN OAK DAM SEDIMENT STUDY				
		SECTIONS				
		PROJECT LIMITS: FROM INTAKE TOWER TO +/- 850' UPSTREAM				
		DATE OF SURVEY: 09/07/2022		BY: OCS & SBC		SHEET NO. 35 of 37
		MAPPING		BY: H. AFTIM, PLS		
		OFFICE CHECK		BY: E. MEDINA, PLS		
		FIELD CHECK		BY: OCS & SBC		
		SCALE: 1" = 40'		W.O. #EF40054		
		MARK	DATE	ITEM	REVISIONS	



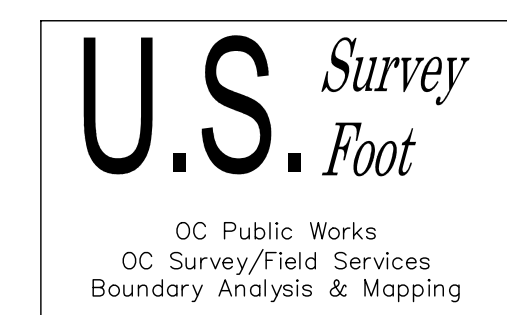
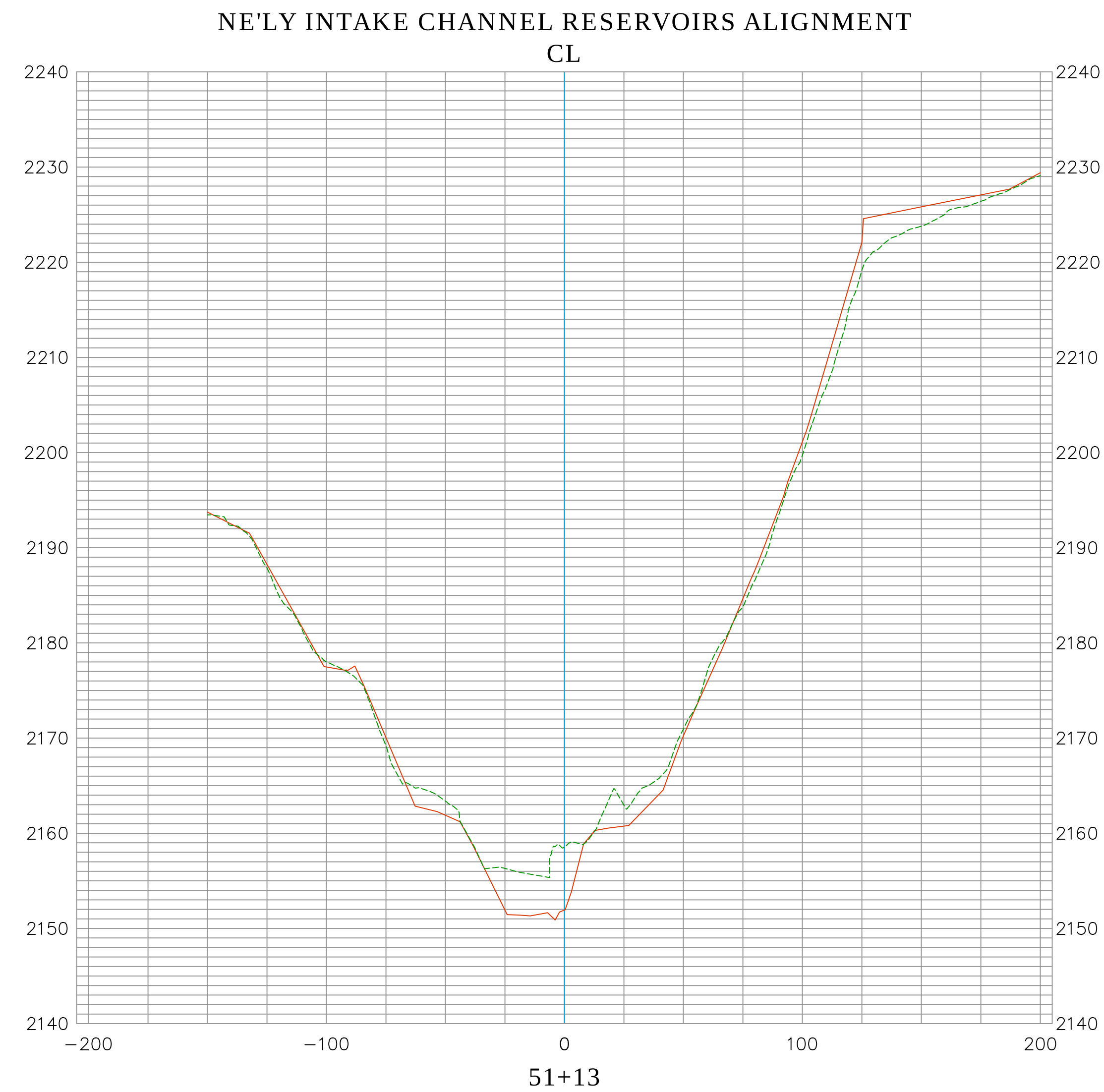
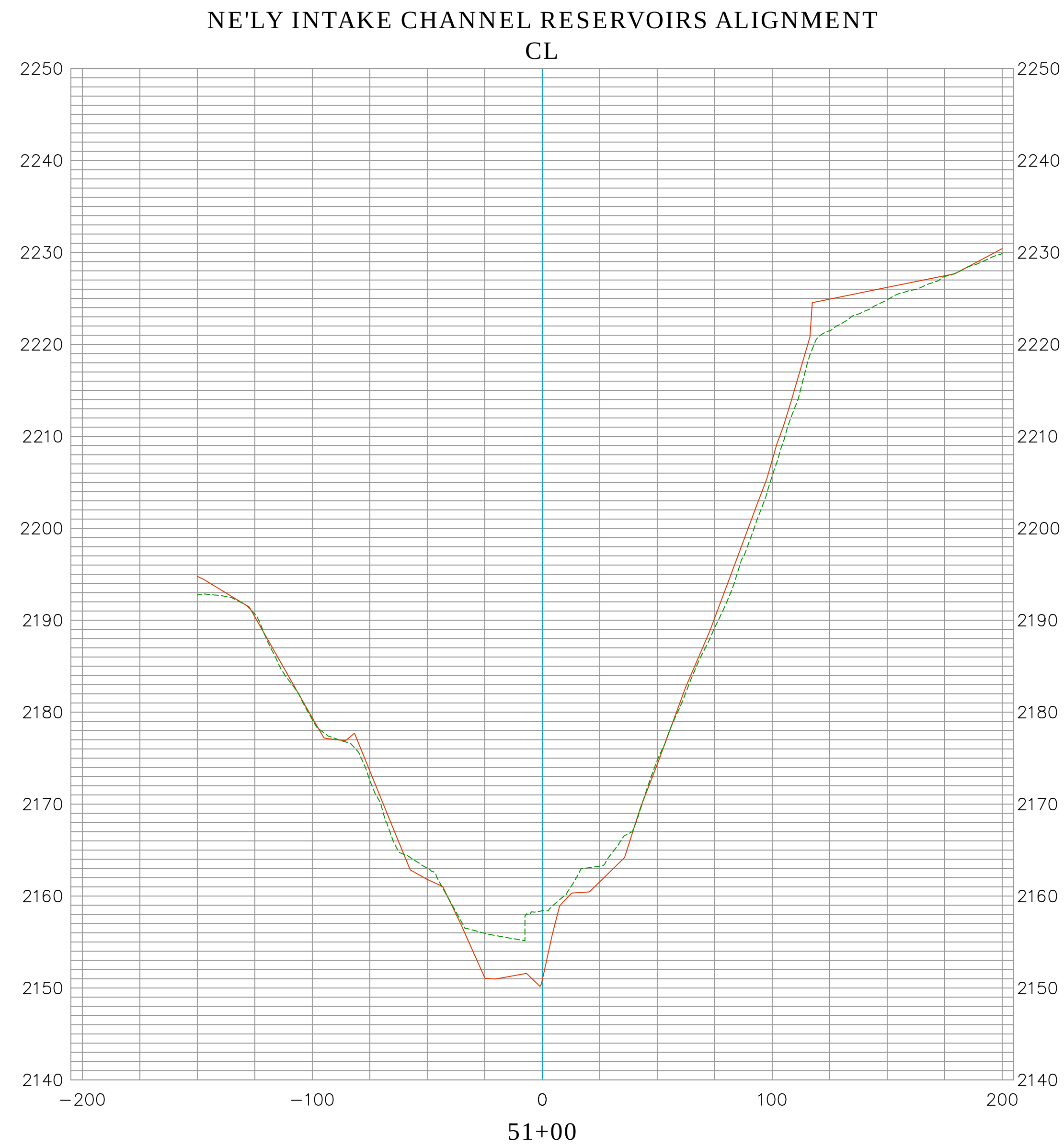
EXISTING CONDITION 2022
AERIAL LIDAR AS-BUILT 2002
DATE PREPARED:09/29/2022



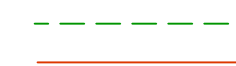
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			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
			SEVEN OAK DAM SEDIMENT STUDY		
			SECTIONS		
			PROJECT LIMITS: FROM INTAKE TOWER		
			TO +/- 850' UPSTREAM		
			DATE OF SURVEY:09/07/2022	BY:OCS & SBC	SHEET NO. 36 of 37
			MAPPING	BY:H. AFTIM, PLS	
			OFFICE CHECK	BY:E. MEDINA, PLS	
			FIELD CHECK	BY:OCS & SBC	
MARK	DATE	ITEM	SCALE:1" = 40'	W.O. #EF40054	FILE #2122PW-FP0002
REVISIONS			FILE:SEVEN OAKS DAM_SECTIONS_2022.DWG		



EXISTING CONDITION 2022
AERIAL LIDAR AS-BUILT 2002
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			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
			SEVEN OAK DAM SEDIMENT STUDY		
			SECTIONS		
			PROJECT LIMITS: FROM INTAKE TOWER		
			TO +/- 850' UPSTREAM		
			DATE OF SURVEY: 09/07/2022	BY: OCS & SBC	SHEET NO. 37 of 37
			MAPPING	BY: H. AFTIM, PLS	
			OFFICE CHECK	BY: E. MEDINA, PLS	
			FIELD CHECK	BY: OCS & SBC	
MARK	DATE	ITEM	SCALE: 1" = 40'	W.O. #EF40054	FILE #2122PW-FP0002
REVISIONS			FILE: SEVEN_OAKS_DAM_SECTIONS_2022.DWG		