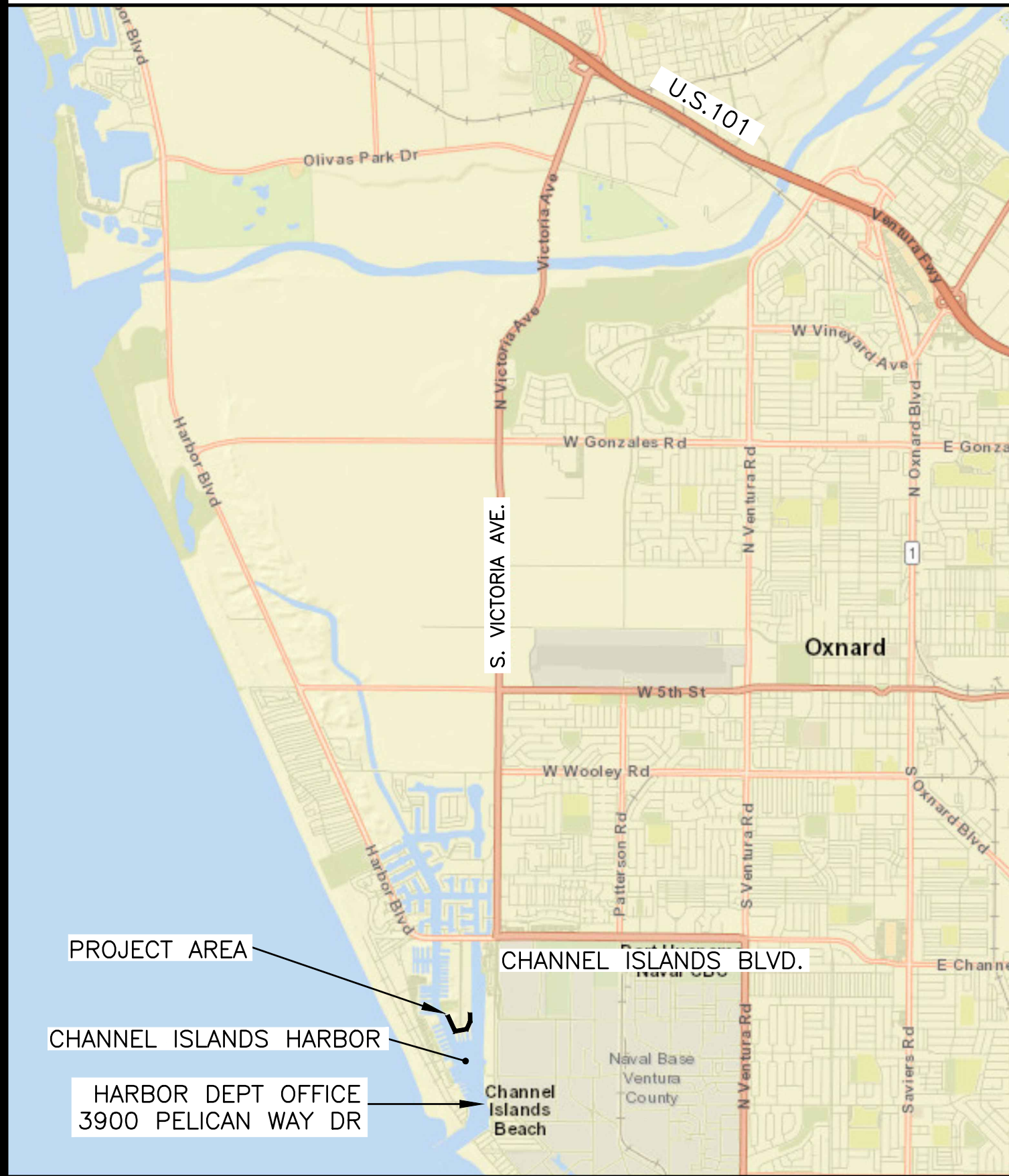
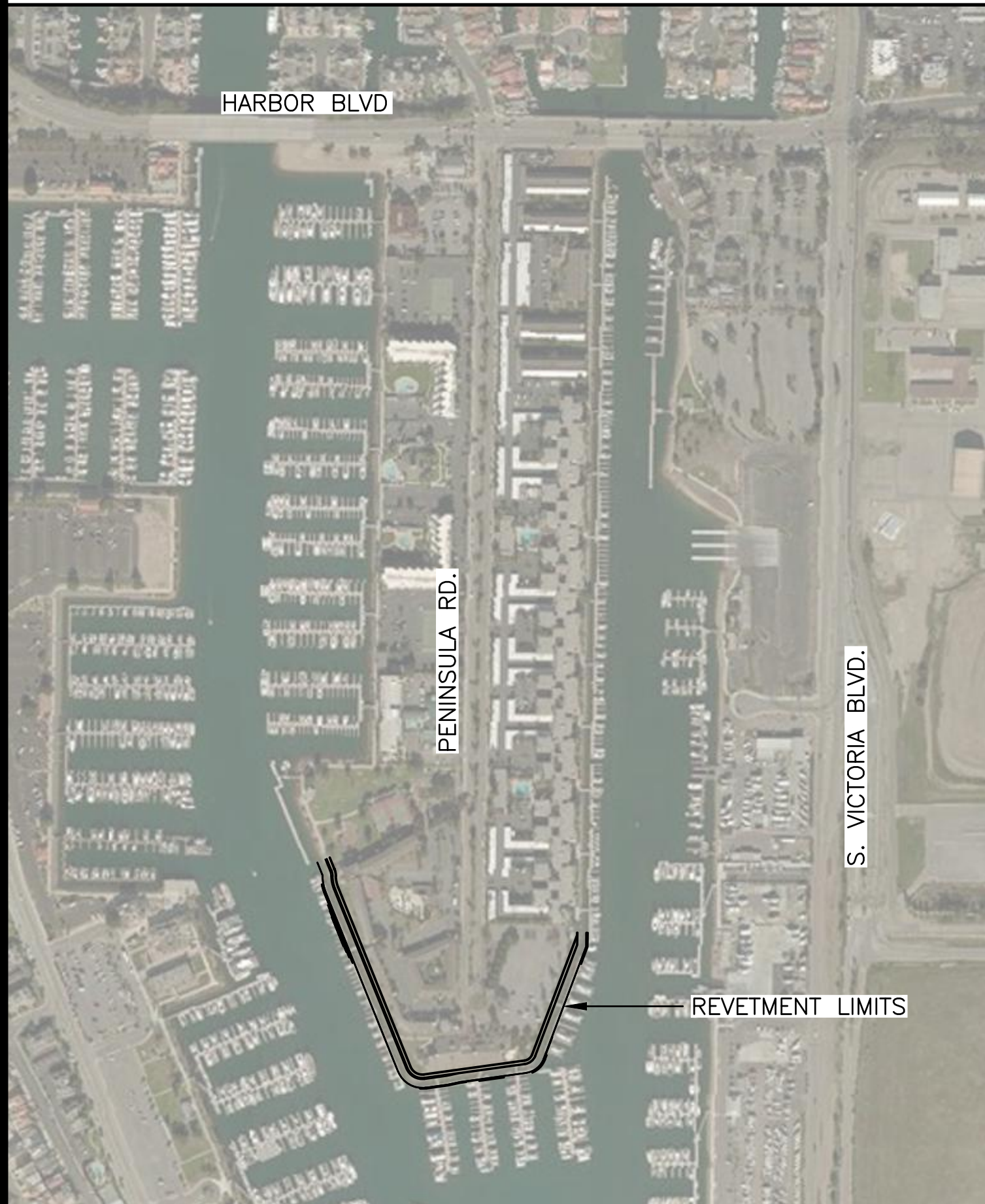


PROJECT DRAWINGS
FOR
CHANNEL ISLANDS HARBOR
PENINSULA REVETMENT REPAIR
OXNARD, CA 93035



1 SITE LOCATION



2 VICINITY MAP

INDEX OF SHEETS

NO.	TITLE	NO.	TITLE
1	TITLE SHEET	11	SECTIONS STA 0+00 TO 1+60
2	CONSTRUCTION NOTES	12	SECTIONS STA 1+80 TO 3+40
3	CONSTRUCTION STAGING AND ACCESS	13	SECTIONS STA 3+60 TO 5+20
4	DEMOLITION PLAN	14	SECTIONS STA 5+40 TO 7+00
5	REVTMENT REPAIR PLAN	15	SECTIONS STA 7+20 TO 8+80
6	WEST AND SOUTH REACH FILTER FABRIC LAYOUT	16	SECTIONS STA 9+00 TO 10+60
7	EAST REACH FILTER FABRIC LAYOUT	17	SECTIONS STA 10+80 TO 12+40
8	WEST AND SOUTH REACH PLAN DETAIL	18	SECTIONS 12+60 TO 14+20
9	EAST REACH PLAN DETAIL	19	SECTIONS STA 14+40 TO 16+00
10	TYPICAL REVETMENT SECTION		



DIAL TOLL FREE
1-800-422-4133
AT LEAST TWO DAYS
BEFORE YOU DIG
UNDERGROUND SERVICE ALERT(USA) OF SOUTHERN CALIFORNIA



COASTAL
FRONTIERS

882A PATRIOT DRIVE
MOORPARK, CA 93021-3544
818-341-8133

NO.	DATE	REVISION	DESIGNED BY	JBR	COUNTY OF VENTURA	SHEET	1	OF	19
1	8/17	MODIFIED SHEET 10, SLOPE REPAIR NOTE 6	DRAWN BY	BRW	TITLE SHEET	JOB NO.	CFC-1144		
2	9/13	MODIFIED SHEET 3, STAGING HATCH STYLE FOR CLARITY	CHECKED BY	JBR/RHB		SCALE	AS SHOWN		
	9/13	MODIFIED SHEET 4, ADDED DEMOLITION CALLOUTS	APPROV. BY	RHB	CHANNEL ISLANDS HARBOR PENINSULA REVETMENT REPAIR	DATE	9/13/2022		
		MODIFIED SHEET 10, QUANTITIES IN NOTES 6 AND 10							

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF THE MOST CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC).
2. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE JOB SITE CONDITIONS OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS RESPONSIBILITY SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. (TWENTY-FOUR HOURS, 7 DAYS A WEEK, HOLIDAYS INCLUDED).
3. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES FOUND.
4. THE CONTRACTOR SHALL NOTIFY THE ENGINEER 48 HOURS PRIOR TO STARTING WORK SO THAT INSPECTION CAN BE PROVIDED.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATION OF ANY IMPROVEMENTS THAT ARE DISTURBED OR DAMAGED DURING THE CONSTRUCTION.
6. SITE ACCESS IS LIMITED. THE CONTRACTOR SHALL VERIFY ACCESSIBILITY AND MAKE ALLOWANCES IN ITS BID FOR REQUIRED CONSTRUCTION EQUIPMENT AND MATERIALS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENFORCEMENT OF SAFETY MEASURES AND REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT, AND MAINTAIN ALL SAFETY DEVICES INCLUDING SHORING AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH STANDARDS AND REGULATIONS.
8. THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK. LOCATIONS OF ALL EXISTING UTILITIES SHOWN ARE PER AVAILABLE RECORD DRAWINGS OBTAINED DURING DESIGN. THE CONTRACTOR SHALL CONTACT APPROPRIATE AGENCIES TO OBTAIN REVISED, UPDATED, OR AS-BUILT INFORMATION AVAILABLE JUST PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT AND MAINTAIN THE UTILITY LINES SHOWN AND ANY OTHERS NOT OF RECORD OR SHOWN ON THESE DRAWINGS. NOTICE OF PROPOSED WORK SHALL BE GIVEN TO THE FOLLOWING AGENCIES: "DIG ALERT" AND SOUTHERN CALIFORNIA EDISON.
9. UPON COMPLETION OF EACH DAY'S WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LEAVING THE WORK AREA FREE OF HAZARDS AND SHALL PROVIDE ALL NECESSARY TEMPORARY SIGNS, WARNING DEVICES, AND BARRICADES.
10. THE CONTRACTOR SHALL KEEP ACCURATE AND LEGIBLE RECORDS ON A SET OF PROJECT SHEETS, PRINTED IN RED, OF ALL CHANGES IN WORK WHICH OCCUR DURING CONSTRUCTION. PRIOR TO FIELD ACCEPTANCE, THE CONTRACTOR SHALL DELIVER THIS "AS-BUILT" INFORMATION TO THE ENGINEER.
11. SURVEY MONUMENTS SHALL BE PRESERVED AND REFERENCED BEFORE AND REPLACED AFTER CONSTRUCTION PURSUANT TO SECTION 8771 OF THE CALIFORNIA BUSINESS AND PROFESSIONS CODE.

PERMIT REQUIREMENTS:

12. THE CONTRACTOR SHALL ABIDE BY APPLICABLE LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS, AND SHALL COMPLY WITH THE STANDARD AND SPECIAL CONDITIONS OF THE FOLLOWING PERMITS:
- A) THE LOS ANGELES DISTRICT U.S. ARMY CORPS OF ENGINEERS HAS ISSUED DEPARTMENT OF THE ARMY SECTION 404 PERMIT NO. SPL-2019-00171-EBR ON MAY 1, 2019 FOR THIS PROJECT. REFER TO ALL TERMS AND SPECIAL CONDITIONS MANDATED BY THIS PERMIT.
- B) THE US ARMY CORPS OF ENGINEERS HAS WAIVED THE REQUIREMENT FOR A CLEAN WATER ACT SECTION 401 WATER QUALITY CERTIFICATION FOR THIS PROJECT DUE TO NON-RESPONSIVENESS BY THE ISSUING AGENCY - THE LOS ANGELES (CALIFORNIA) REGIONAL WATER QUALITY CONTROL BOARD.
- C) THE CALIFORNIA COASTAL COMMISSION HAS APPROVED THE NOTICE OF IMPENDING DEVELOPMENT (NOID) NO. 0001-19 ON MARCH 7, 2019 FOR THIS PROJECT. REFER TO AND COMPLY WITH ALL SPECIAL CONDITIONS AND CONSTRUCTION RESPONSIBILITIES MANDATED BY THE PERMIT.

ENVIRONMENTAL NOTES

13. THE CONTRACTOR SHALL NOTIFY SUBCONTRACTORS, MATERIAL SUPPLIERS, LESSEES, AND PROPERTY OWNERS THAT DUMPING OF CHEMICALS INTO THE STORM DRAIN SYSTEM OR CHANNEL ISLANDS HARBOR WATERS IS PROHIBITED.
14. CONSTRUCTION SITES SHALL BE MAINTAINED IN SUCH A CONDITION THAT AN ANTICIPATED STORM DOES NOT CARRY WASTES OR POLLUTANTS OFF THE SITE. DISCHARGES OF MATERIAL OTHER THAN STORMWATER ARE PERMITTED ONLY WHEN NECESSARY FOR PERFORMANCE AND COMPLETION OF CONSTRUCTION PRACTICES AND WHERE THEY DO NOT: CAUSE OR

CONTRIBUTE TO A VIOLATION OF ANY WATER QUALITY STANDARD; CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR NUISANCE; OR CONTAIN A HAZARDOUS SUBSTANCE IN A QUANTITY REPORTABLE UNDER FEDERAL REGULATIONS 40 CFR PARTS 117 AND 302.

DURING CONSTRUCTION, CONTRACTOR SHALL DISPOSE OF SUCH MATERIALS IN A SPECIFIED AND CONTROLLED TEMPORARY AREA ON-SITE, PHYSICALLY SEPARATED FROM POTENTIAL STORMWATER RUNOFF, WITH ULTIMATE DISPOSAL IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.

NPDES NOTES:

15. IN CASE OF EMERGENCY, CALL THE CHANNEL ISLANDS DEPARTMENT HARBOR PATROL AT (805) 973-5959.
16. FOR THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN THE FOLLOWING BEST MANAGEMENT PRACTICES (BMPs) AS DESCRIBED BY THE BMP FACT SHEETS PUBLISHED BY THE CALIFORNIA STORMWATER QUALITY ASSOCIATION'S (CASQA) CONSTRUCTION BMP HANDBOOK:
- TEMPORARY EROSION CONTROL EC-1, EC-2, EC-7, AND WE-1;
- TEMPORARY NON-STORMWATER NS-1, NS-6, NS-8, NS-9, NS-10, NS-11, NS-12, NS-13, NS-14, AND NS-15.
17. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING FROM THE COUNTY OF VENTURA APPROVALS FOR THE FOLLOWING PLANS: NPDES/SUSMP PLAN, SOLID WASTE MANAGEMENT PLAN, AND CONSTRUCTION AND DEMOLITION DEBRIS RECYCLING AND REUSE PLAN, AS REQUIRED.
18. SEDIMENT FROM AREAS DISTURBED BY CONSTRUCTION SHALL BE RETAINED ON SITE USING STRUCTURAL CONTROLS TO THE MAXIMUM EXTENT PRACTICABLE.
19. STOCKPILES OF SOIL SHALL BE PROPERLY CONTAINED TO MINIMIZE SEDIMENT TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES AND ADJACENT PROPERTIES VIA RUNOFF, VEHICLE TRACKING, OR WIND.
20. APPROPRIATE BMP'S FOR CONSTRUCTION-RELATED MATERIALS, WASTES, SPILLS OR RESIDUES SHALL BE IMPLEMENTED TO MINIMIZE TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES, OR ADJOINING PROPERTY BY WIND OR RUNOFF. WRITTEN COPIES OF SUCH BMP'S SHALL BE RETAINED ON SITE UNTIL FIELD ACCEPTANCE HAS BEEN PROVIDED.
21. NO CONSTRUCTION EQUIPMENT SHALL BE WASHED ON SITE.
22. ALL CONTRACTOR AND SUBCONTRACTOR PERSONNEL ARE TO BE MADE AWARE OF THE REQUIRED BMP'S AND GOOD HOUSEKEEPING MEASURES FOR THE PROJECT SITE AND ANY ASSOCIATED CONSTRUCTION STAGING AREAS.
23. AT THE END OF EACH DAY OF CONSTRUCTION ACTIVITY ALL CONSTRUCTION DEBRIS AND WASTED MATERIALS SHALL BE COLLECTED AND PROPERLY DISPOSED IN TRASH OR RECYCLE BINS.
24. DEWATERING OF CONTAMINATED GROUNDWATER, OR DISCHARGING CONTAMINATED SOILS VIA SURFACE EROSION IS PROHIBITED. DEWATERING OF NON-CONTAMINATED GROUNDWATER REQUIRES A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT FROM THE LOS ANGELES (CALIFORNIA) REGIONAL WATER QUALITY CONTROL BOARD.

25. GRADED AREAS ON THE PROJECT AREA PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPES AT THE CONCLUSION OF EACH WORKING DAY. DRAINAGE IS TO BE DIRECTED TOWARD DESILTING FACILITIES.
26. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATER CREATES A HAZARDOUS CONDITION.
27. THE CONTRACTOR SHALL INSPECT THE EROSION CONTROL WORK AND VERIFY THAT THE WORK IS IN ACCORDANCE WITH THE APPROVED BMP'S.
28. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING RAINY SEASON. NECESSARY MATERIALS SHALL BE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY EROSION PROTECTION DEVICES WHEN RAIN IS IMMINENT.
29. ALL REMOVABLE EROSION PROTECTIVE DEVICES SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE 5-DAY RAIN PROBABILITY FORECAST EXCEEDS 40%.

WASTE MANAGEMENT NOTES

30. THE CONTRACTOR SHALL COMPLY WITH AND BE RESPONSIBLE FOR COMPLIANCE WITH THE REQUIREMENTS OF THE COUNTY OF VENTURA INTEGRATED WASTE MANAGEMENT DIVISION TO DIVERT DEMOLITION AND CONSTRUCTION WASTE FROM LANDFILLS. RESPONSIBILITIES SHALL INCLUDE ALL WORK NECESSARY TO PREPARE, PROCESS, AND OBTAIN AN APPROVED CONSTRUCTION AND WASTE DEMOLITION MANAGEMENT PLAN (FORM B WORKSHEET) AND A CONSTRUCTION AND DEMOLITION WASTE LETTER OF DOCUMENTATION (FORM C FINAL REPORT).

LEGEND:

- -- --- REVETMENT REPAIR TOE (N)
- . . . --- DOCK REMOVAL LIMIT
- REVETMENT REPAIR CONTOUR
- 10----- BATHYMETRIC CONTOUR
ELEVATION -10ft, NAVD88
- 400----- PROJECT BASELINE, STATION 4+00
- CP 4 SURVEY CONTROL POINT AND IDENTIFIER
- ▣ CONSTRUCTION STAGING AREA
- 3' THICK 1/4-TN LAYER LIMITS
- SIDEWALK AND THICKENED EDGE
- ▨ SUBGRADE LIMITS
- ▤ EXISTING GROUND
- ▥ 1/4-TN STONE
- ▧ 3/4-IN CRUSHED ROCK
- Ⓐ 517 DETAIL SECTION OR IDENTIFIER
REFERENCE SHEET ON WHICH SECTION OR DETAIL IS SHOWN
REFERENCE SHEET FROM WHICH SECTION OR DETAIL IS TAKEN
- ⚡ FEATURE TRUNCATED FOR CLARITY
- 🌴 PALM TREES
- 🌳 BUSHES
- 🌿 GRASS/VEGETATION

ABBREVIATIONS:

BMP	BEST MANAGEMENT PRACTICE
CIP	CAST-IN-PLACE
CY	CUBIC YARD
EL; ELEV	ELEVATION
FT	FEET
HMA	HOT MIX ASPHALT
MHHW	MEAN HIGHER HIGH WATER
MHW	MEAN HIGH WATER
MISC	MISCELLANEOUS
MLLW	MEAN LOWER LOW WATER
MLW	MEAN LOW WATER
MTL	MEAN TIDE LEVEL
NAVD88	NORTH AMERICAN VERTICAL DATUM OF 1988
NPDES	NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
SF	SQUARE FEET
SSPWC	STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION
STA	STATION
TN	TON
UNO	UNLESS NOTED OTHERWISE

SYMBOLS:

⊙	AT
(E)	EXISTING
(H)	HORIZONTAL
#	NUMBER
(N)	NEW
±	PLUS OR MINUS/APPROXIMATELY
(V)	VERTICAL



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NO.	DATE	REVISION

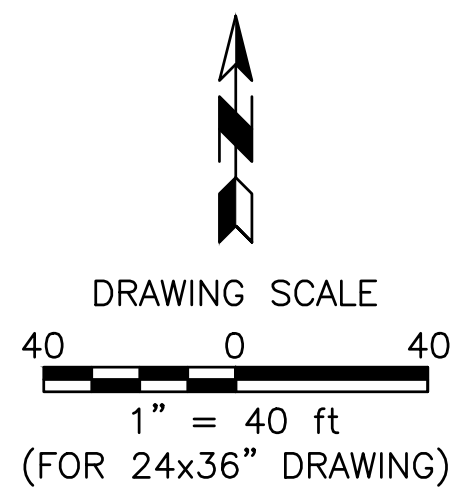
DESIGNED BY JBR

DRAWN BY BRW

CHECKED BY JBR/RHB

APPROV. BY RHB

COUNTY OF VENTURA	SHEET 2 OF 19
CONSTRUCTION NOTES	JOB NO. CFC-1144
CHANNEL ISLANDS HARBOR PENINSULA REVETMENT REPAIR	SCALE AS SHOWN
	DATE 7/1/2022



3 CONSTRUCTION STAGING AND ACCESS
SCALE: 1" = 40'

- STAGING AND ACCESS NOTES:
1. CONTRACTOR MAY STAGE EQUIPMENT AND STOCKPILE MATERIALS WITHIN CLEARED DEMOLITION ZONE. ALL ACCESS AND STOCKPILE AREAS SHALL BE RESTORED TO CONDITION THAT EXISTED PRIOR TO USE.



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NO.	DATE	REVISION
1	8/17	NONE THIS SHEET
2	9/13	MODIFIED STAGING HATCH STYLE FOR CLARITY

DESIGNED BY JBR
DRAWN BY BRW
CHECKED BY JBR/RHB
APPROV. BY RHB

COUNTY OF VENTURA
CONSTRUCTION STAGING AND ACCESS
CHANNEL ISLANDS HARBOR PENINSULA REVETMENT REPAIR

SHEET 3 OF 19
JOB NO. CFC-1144
SCALE AS SHOWN
DATE 9/13/2022



DEMOLITION SCHEDULE

NO.	ITEM
D1	REMOVE AND DISPOSE OF CIP CONCRETE GANGWAY LANDINGS, METAL GATES, 32' TIMBER GANGWAYS, AND ASSOCIATED HARDWARE. REMOVE AND ABANDON WATER AND POWER PIPE AND CONDUIT.
D2	REMOVE AND DISPOSE OF ALL PALM TREES
D3	CLEAR AND GRUB ALL TREES AND SHRUBS WITHIN LIMITS OF REVETMENT REPAIR IN CONFORMANCE WITH SECTION 300-1 OF THE SSPWC.
D4	REMOVE AND DISPOSE OF ALL MISC CONCRETE PAVEMENT, POSTS, BOLLARDS, LIGHT POLES, AND ALL OTHER ASSOCIATED IMPROVEMENTS WITHIN LIMITS OF THE REVETMENT REPAIR.

ITEMS TO PROTECT IN PLACE

NO.	ITEM
P1	PRIVATE PROPERTY AND IMPROVEMENTS
P2	MARINA OFFICE BUILDING
P3	FLOATING DOCKS
P4	HMA PAVEMENT, CURB, LANDSCAPE, AND UTILITIES
P5	VALVE BOX
P6	GANGWAY

DEMOLITION NOTES:

- CONTRACTOR SHALL PROVIDE SHORING AS REQUIRED TO PREVENT DAMAGE OR MOVEMENT TO STRUCTURES AND IMPROVEMENTS THAT ARE TO REMAIN.
- CONTRACTOR SHALL PROVIDE, ERECT, AND MAINTAIN BARRICADES, GUARD RAILS, AND FENCING TO PROTECT THE GENERAL PUBLIC, WORKERS, AND ADJACENT PROPERTY TO MEET OSHA STANDARDS.
- REMOVE ALL SPECIFIED ITEMS IN THEIR ENTIRETY UNO.
- NEAT STRAIGHT LINE SAWCUTS SHALL BE PROVIDED FOR REMOVAL OF EXISTING PAVEMENT. REMOVE EXISTING PAVEMENT AND CURB AS SPECIFIED IN DEMOLITION PLAN.
- REMOVE AND TRANSPORT DEBRIS AND RUBBISH IN A MANNER THAT WILL PREVENT SPILLAGE ON SITE, STREETS, AND ADJACENT AREAS. DEMOLISHED ITEMS AND DEBRIS OTHER THAN SOIL SHALL NOT BE LEFT ON THE JOB SITE FOR MORE THAN THREE DAYS. ALL REMOVED MATERIALS BECOME THE PROPERTY OF THE CONTRACTOR. CONTRACTOR SHALL DISPOSE OF SUCH MATERIALS OFF THE JOB SITE AT CONTRACTOR'S SOLE EXPENSE. DISPOSE OF DEBRIS IN ACCORDANCE WITH APPROVED CONSTRUCTION WASTE AND DEMOLITION PLAN.
- CLEAR AND GRUB EXISTING VEGETATION WITHIN REVETMENT REPAIR AREA AS REQUIRED.

4
-4
DEMOLITION PLAN
SCALE: 1" = 40'



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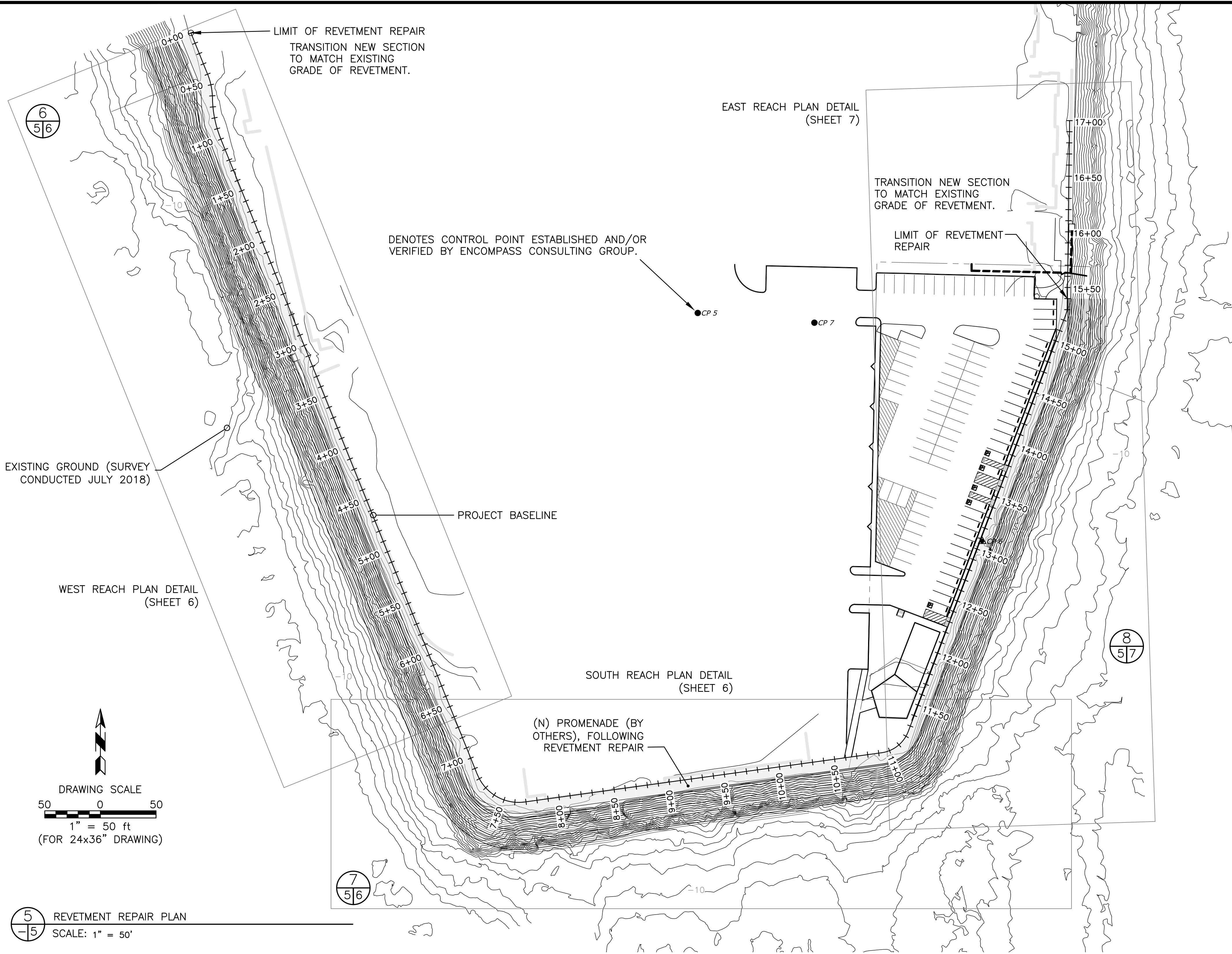
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NO.	DATE	REVISION
1	8/17	NONE THIS SHEET
2	9/13	ADDED MORE DEMOLITION SCHEDULE CALLOUTS, ITEM D4

DESIGNED BY JBR
DRAWN BY BRW
CHECKED BY JBR/RHB
APPROV. BY RHB

COUNTY OF VENTURA
DEMOLITION PLAN
CHANNEL ISLANDS HARBOR PENINSULA REVETMENT REPAIR

SHEET 4 OF 19
JOB NO. CFC-1144
SCALE AS SHOWN
DATE 9/13/2022



STA	SECT AREA SF	SECT QUANT TONS	CUM QUANT TONS	STA	SECT AREA SF	SECT QUANT TONS	CUM QUANT TONS	STA	SECT AREA SF	SECT QUANT TONS	CUM QUANT TONS	STA	SECT AREA SF	SECT QUANT TONS	CUM QUANT TONS	STA	SECT AREA SF	SECT QUANT TONS	CUM QUANT TONS	STA	SECT AREA SF	SECT QUANT TONS	CUM QUANT TONS	STA	SECT AREA SF	SECT QUANT TONS	CUM QUANT TONS
0+00	0	0	0	2+40	130	145	1433	4+80	88	98	2817	7+20	88	111	4002	9+60	106	111	5471	12+00	94	104	6911	14+40	88	98	8086
0+20	88	49	49	2+60	130	145	1578	5+00	88	98	2914	7+40	88	163	4166	9+80	106	118	5589	12+20	88	101	7012	14+60	106	108	8193
0+40	88	98	147	2+80	130	145	1722	5+20	88	98	3012	7+60	100	177	4342	10+00	106	118	5707	12+40	88	98	7110	14+80	106	118	8311
0+60	88	54	201	3+00	124	141	1864	5+40	88	98	3110	7+80	100	146	4488	10+20	106	118	5824	12+60	88	98	7207	15+00	106	118	8429
0+80	106	129	330	3+20	118	135	1998	5+60	88	98	3207	8+00	100	111	4600	10+40	88	108	5932	12+80	88	98	7305	15+20	113	122	8550
1+00	106	151	480	3+40	106	125	2123	5+80	88	98	3305	8+20	100	111	4711	10+60	88	98	6030	13+00	88	98	7403	15+40	0	86	8636
1+20	106	118	598	3+60	88	108	2231	6+00	88	98	3403	8+40	100	111	4822	10+80	88	98	6127	13+20	88	98	7500	15+60	0	0	8636
1+40	118	125	723	3+80	88	98	2328	6+20	88	98	3500	8+60	100	111	4933	11+00	88	126	6253	13+40	88	98	7598	15+80	0	0	8636
1+60	124	135	857	4+00	88	98	2426	6+40	88	98	3598	8+80	100	111	5044	11+20	105	197	6450	13+60	88	98	7695	16+00	0	0	8636
1+80	130	141	999	4+20	88	98	2524	6+60	88	98	3696	9+00	94	108	5152	11+40	106	142	6592	13+80	88	98	7793				
2+00	130	145	1143	4+40	88	98	2621	6+80	88	98	3793	9+20	94	104	5256	11+60	94	111	6703	14+00	88	98	7891				
2+20	130	145	1288	4+60	88	98	2719	7+00	88	98	3891	9+40	94	104	5360	11+80	94	104	6807	14+20	88	98	7988				

ESTIMATED QUANTITIES OF TOTAL 1/4-TON STONE BY STATION.
VOLUMES CALCULATED BY AVERAGE END AREA METHOD. TOTAL STONE
QUANTITY ESTIMATED TO BE ABOUT 8,700 TONS.



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NO.	DATE	REVISION

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DRAWN BY BRW
CHECKED BY JBR/RHB
APPROV. BY RHB

COUNTY OF VENTURA		SHEET	5	OF	19
REVETMENT REPAIR PLAN AND SURVEY CONTROL		JOB NO.	CFC-1144		
CHANNEL ISLANDS HARBOR PENINSULA REVETMENT REPAIR		SCALE	AS SHOWN		
		DATE	7/1/2022		

PROJECT BASELINE CONTROL

PI STATION	NORTHING	EASTING	DISTANCE	DIRECTION
0+00.00	1,886,288.17'	6,190,580.50'	51.218'	S21° 59' 04.88"E
0+51.22	1,886,240.67'	6,190,599.67'	29.887'	S0° 49' 41.42"E
0+80.85	1,886,210.79'	6,190,600.10'	666.620'	S21° 58' 40.16"E
7+47.05	1,885,592.61'	6,190,849.58'	372.778'	N82° 08' 32.97"E
11+10.43	1,885,643.58'	6,191,218.86'	422.277'	N20° 41' 52.00"E
15+29.22	1,886,038.60'	6,191,368.11'	170.772'	N0° 41' 12.10"E
16+99.99	1,886,209.36'	6,191,370.16'		

CURVE DATA

	CURVE 1	CURVE 2	CURVE 3	CURVE 4
DELTA	21° 10' 51.5856"	21° 08' 58.7639"	75° 52' 46.8000"	61° 26' 40.9602"
RADIUS	60	100	40	30
LENGTH	22.181	36.913	52.974	32.172
MID-ORD	1.022	1.698	8.454	4.21
CHORD	22.055	36.704	49.187	30.653

APPROXIMATE TIDAL DATUM INFORMATION FOR CHANNEL ISLANDS HARBOR AREA

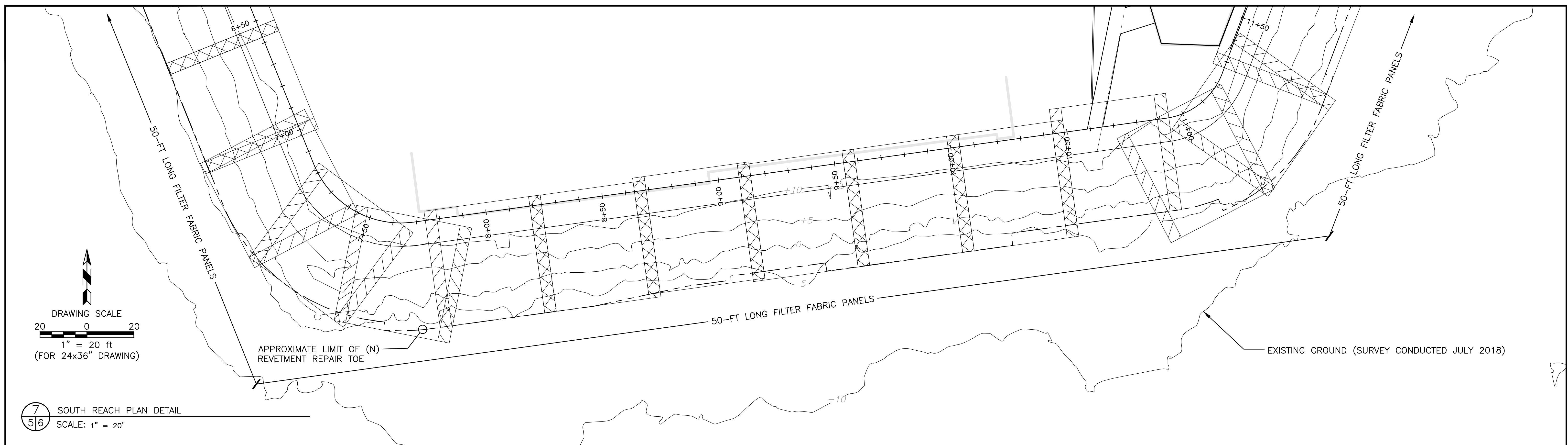
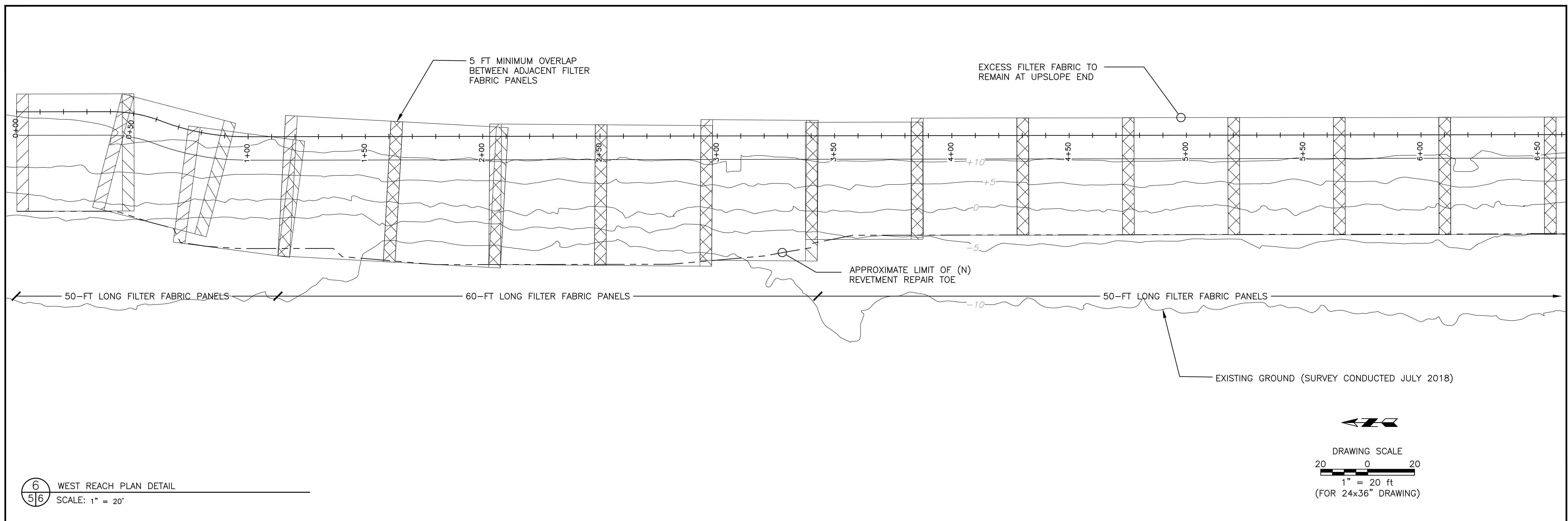
MHHW	5.37 FT	ELEV INFORMATION FOR STA ID 9411270 RINCON ISLAND, CA
MHW	4.61 FT	
MTL	2.76 FT	ELEV INFORMATION SOURCE: NATIONAL GEODETIC SURVEY PID = EW6485, VM = 3113, STA ID = 9411270
NGDV29	2.60 FT	
MLW	0.90 FT	
NAVD88	0.00 FT	
MLLW	-0.09 FT	

SURVEY NOTES:

- VERTICAL DATUM IS NAVD88 WITH UNITS OF FEET.
- HORIZONTAL DATUM IS CALIFORNIA STATE PLANE ZONE 5, NAD 83, EPOCH 2004.00, WITH UNITS OF US SURVEY FEET.
- CONTOURS SHOWN ARE IN FEET AND WERE COMPILED FROM MULTI-BEAM BATHYMETRIC SURVEYS PERFORMED BY NEARSHORE AND WETLANDS SURVEY JULY 11-13, 2018 FOR THIS PROJECT.

SURVEY CONTROL POINTS

CALIFORNIA STATE PLANE ZONE 5				
NO.	NORTHING (USFT)	EASTING (USFT)	ELEVATION (FT, NAVD88)	DESCRIPTION
CP 1	1,888,645.396	6,191,134.326	10.209	SCRIBED X
CP 2	1,888,242.541	6,191,050.219	10.866	SCRIBED X
CP 3	1,886,549.561	6,191,014.994	11.155	SCRIBED X
CP 4	1,886,447.967	6,190,518.241	9.812	SCRIBED X
CP 5	1,886,036.407	6,191,035.966	12.074	MAG NAIL
CP 6	1,885,831.173	6,191,291.581	10.129	SCRIBED X
CP 7	1,886,027.671	6,191,140.818	11.808	SCRIBED X 5404
CP 8	1,888,565.655	6,190,554.832	34.62	SCRIBED X



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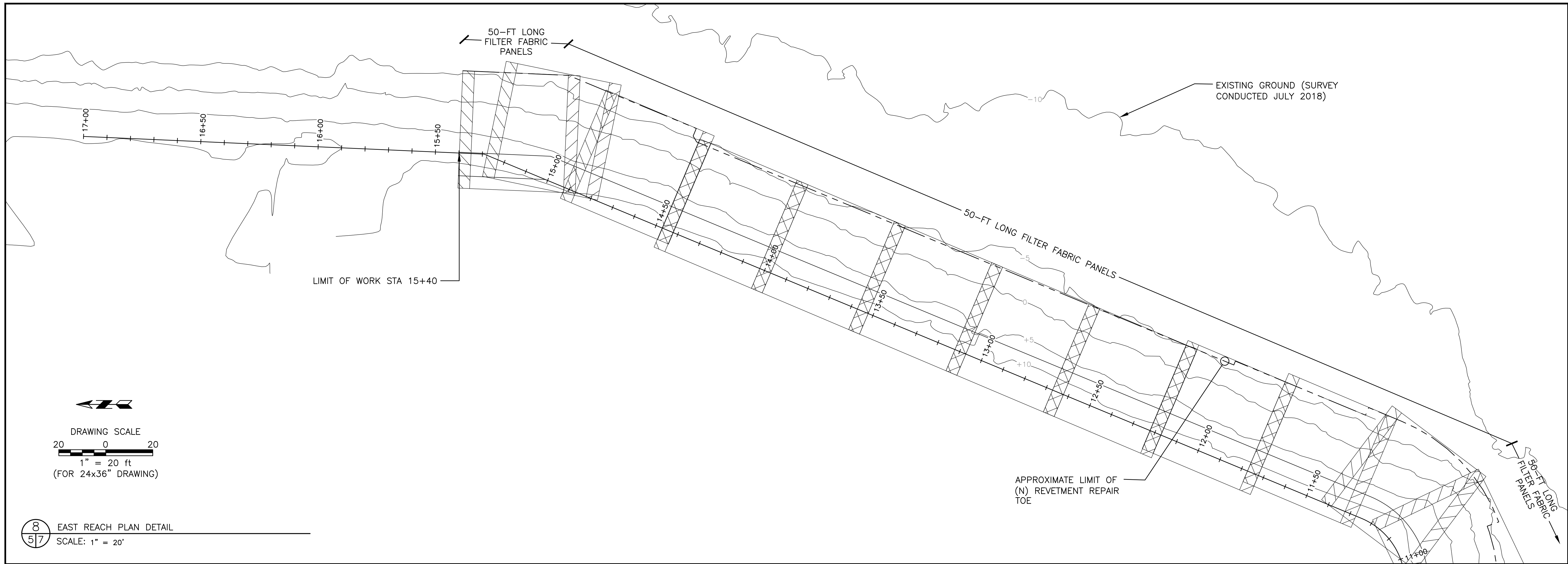
882A PATRIOT DRIVE
MOORPARK, CA 93021-3544
818-341-8133

NO.	DATE	REVISION

DESIGNED BY: JBR
DRAWN BY: BRW
CHECKED BY: JBR/RHB
APPROV. BY: RHB

COUNTY OF VENTURA
WEST AND SOUTH REACH FILTER FABRIC LAYOUT
CHANNEL ISLANDS HARBOR PENINSULA REVELMENT REPAIR

SHEET 6 OF 19
JOB NO. CFC-1144
SCALE AS SHOWN
DATE 7/1/2022



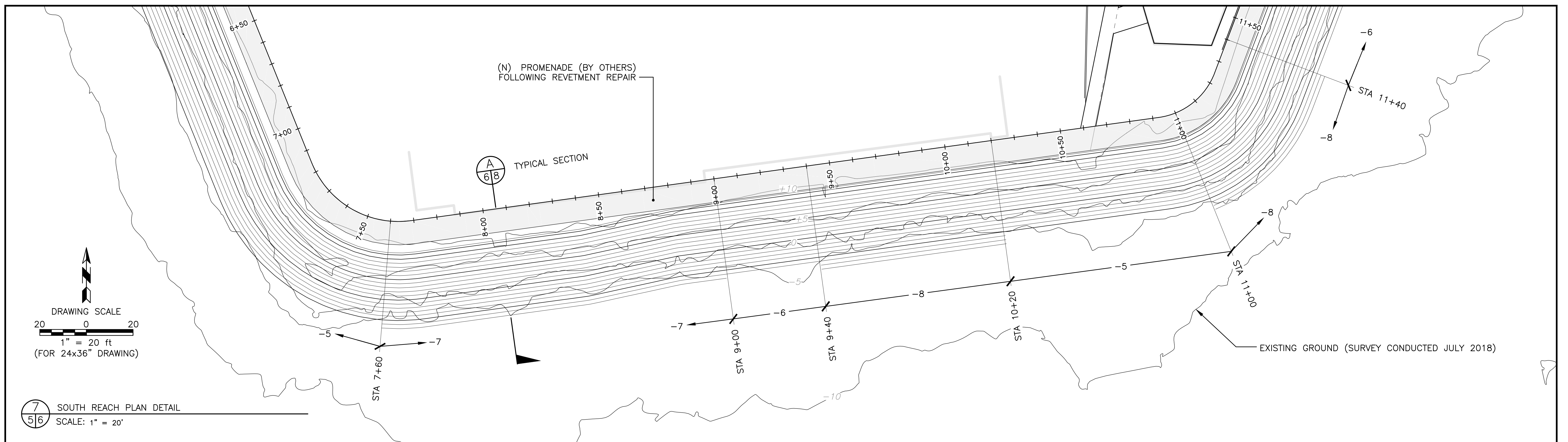
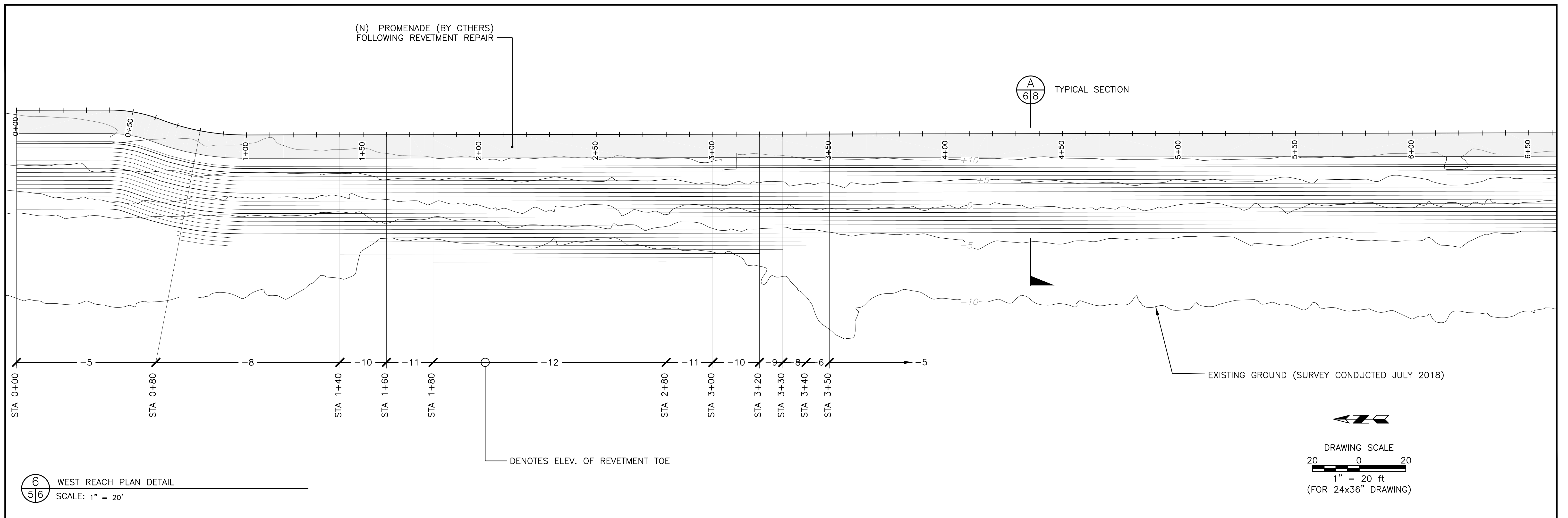
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FRONTIERS

882A PATRIOT DRIVE
MOORPARK, CA 93021-3544
818-341-8133

NO.	DATE	REVISION

DESIGNED BY JBR
DRAWN BY BRW
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APPROV. BY RHB

COUNTY OF VENTURA		SHEET	7	OF	19
EAST REACH FILTER FABRIC LAYOUT		JOB NO.	CFC-1144		
CHANNEL ISLANDS HARBOR PENINSULA REVETMENT REPAIR		SCALE	AS SHOWN		
		DATE	7/1/2022		



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FRONTIERS

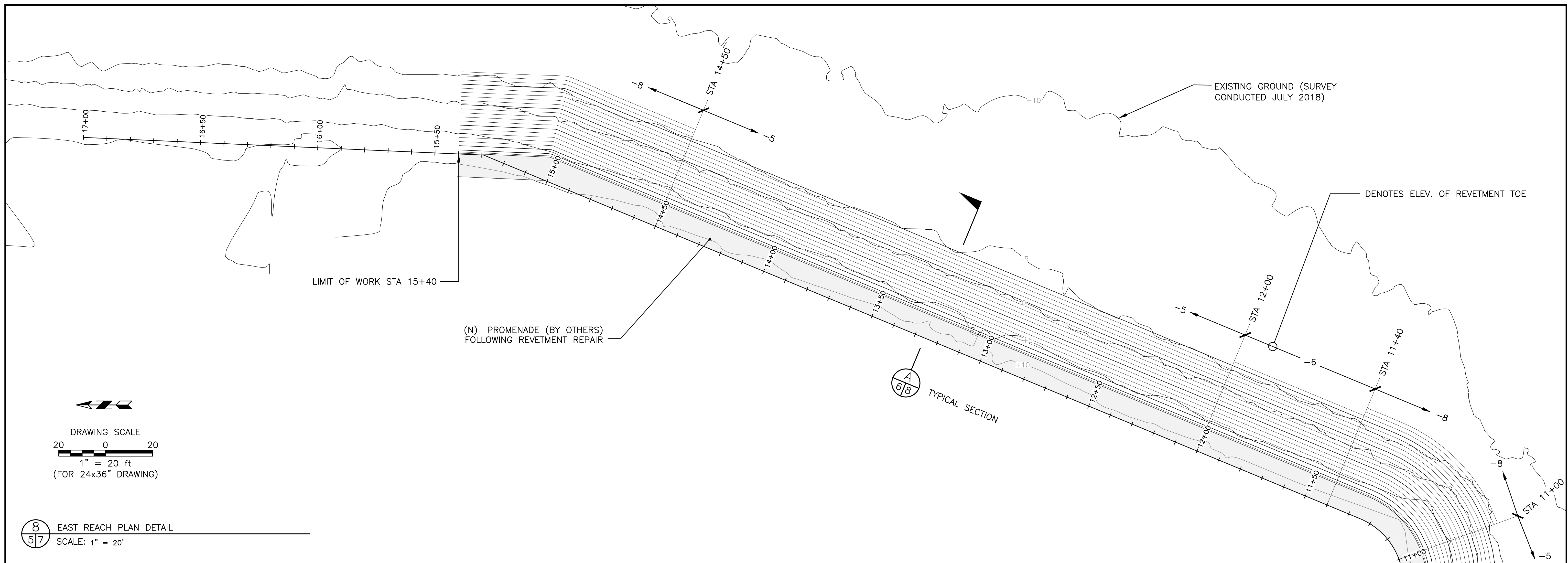
882A PATRIOT DRIVE
MOORPARK, CA 93021-3544
818-341-8133

NO.	DATE	REVISION

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COUNTY OF VENTURA
WEST AND SOUTH REACH PLAN DETAIL
CHANNEL ISLANDS HARBOR PENINSULA REVETMENT REPAIR

SHEET 8 OF 19
JOB NO. CFC-1144
SCALE AS SHOWN
DATE 7/1/2022



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882A PATRIOT DRIVE
MOORPARK, CA 93021-3544
818-341-8133

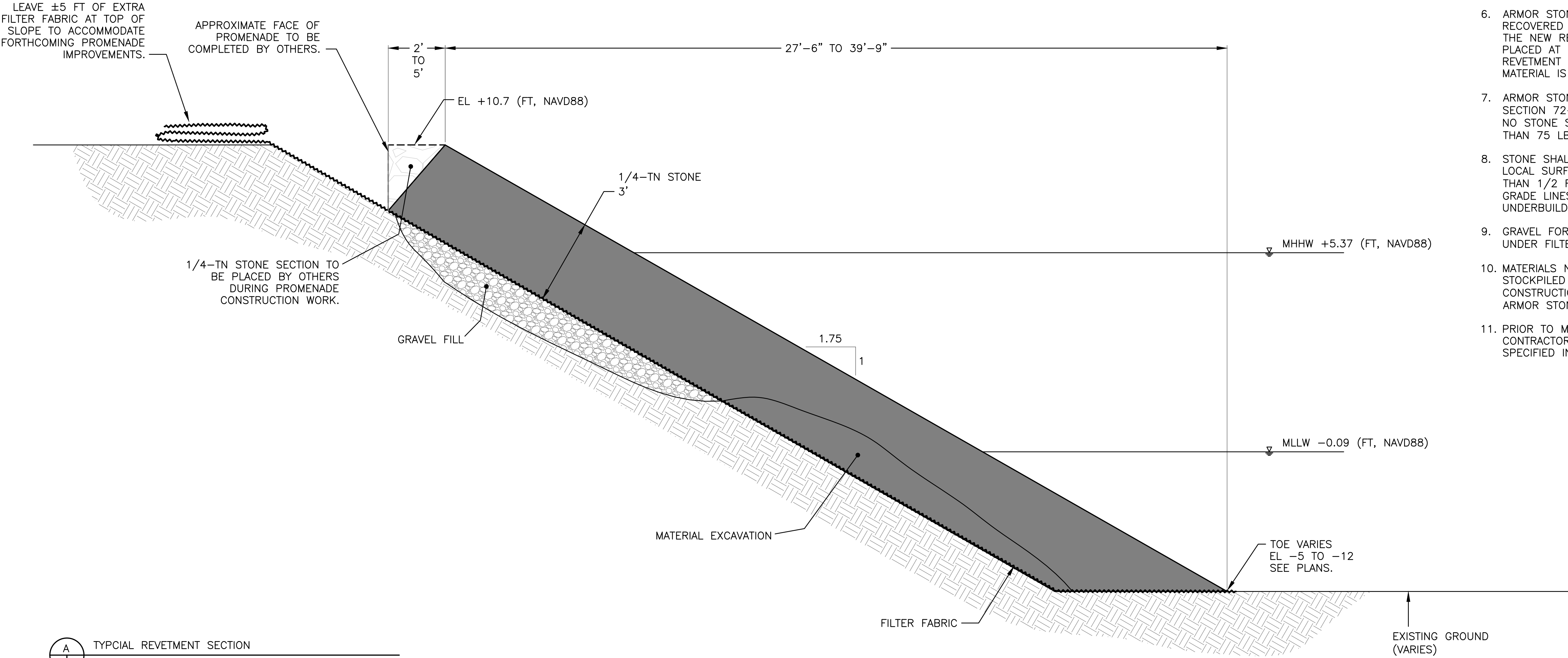
NO.	DATE	REVISION

DESIGNED BY JBR
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APPROV. BY RHB

COUNTY OF VENTURA	SHEET 9 OF 19
EAST REACH PLAN DETAIL	JOB NO. CFC-1144
CHANNEL ISLANDS HARBOR PENINSULA REVETMENT REPAIR	SCALE AS SHOWN
	DATE 7/1/2022

SLOPE REPAIR NOTES:

1. REMOVE ALL EXISTING ARMOR AND FILTER STONE TO LIMITS SHOWN.
2. PRIOR TO PLACEMENT OF NEW FILTER FABRIC, FILL VOIDS AND OVER-STEEPENED AREAS BELOW EXCAVATION LIMIT WITH SPECIFIED GRAVEL AND GRADE TO SPECIFIED UNIFORM SLOPE.
3. PLACE FILTER FABRIC PANEL SEAMS ORIENTED UPSLOPE-DOWNSLOPE. FILTER FABRIC PANELS SHALL BE CAREFULLY PLACED AND SECURED SO THAT MATERIAL IS NOT DISLODGED, BUNCHED, TORN, OR DISPLACED DURING PLACEMENT OF ARMOR STONE. EXTEND FABRIC TO COMPLETELY COVER TOP OF SLOPE LANDWARD OF REVETMENT CREST. EXCESS FABRIC MAY BE FAN FOLDED UNTIL FABRIC TRENCHING/TERMINATION IS COMPLETED. MINIMUM OVERLAP OF ADJACENT FILTER FABRIC PANELS SHALL BE FIVE (5) FEET. FABRIC PANELS SHALL CONSIST OF ONE CONTINUOUS PIECE THAT EXTENDS FROM TOE OF SLOPE TO TOP OF SLOPE. NO PANELS SHALL BE SPLICED. USE WHATEVER MEANS AND METHODS ARE NECESSARY TO PLACE AND SECURE FILTER FABRIC UNDERWATER.
4. RECOVERED ARMOR STONE, FROM THE EXISTING REVETMENT, DEEMED SUITABLE FOR REUSE BY ENGINEER MAY BE REUSED ON THE NEW REVETMENT. SALVAGED MATERIALS WILL BE INTERSPERSED WITH NEW 1/4-TON STONE TO CONSTRUCT A HOMOGENOUS REVETMENT FACE.
5. ALL ARMOR STONE SHALL BE CAREFULLY PLACED FROM BOTTOM TO TOP. STONE SHALL NOT BE DROPPED OR DUMPED.
6. ARMOR STONE FROM THE EXISTING REVETMENT MAY ONLY BE RECOVERED FROM ELEVATIONS ABOVE +3 FEET FOR REUSE IN THE NEW REVETMENT. THE RECOVERED ARMOR STONE MAY BE PLACED AT OR BELOW 0 FEET WHEN REUSED IN THE NEW REVETMENT CONFIGURATION. APPROXIMATELY 1,000 TONS OF MATERIAL IS ESTIMATED TO BE SUITABLE FOR REUSE.
7. ARMOR STONE SHALL BE 1/4-TON IN CONFORMANCE WITH SECTION 72-2.02 OF THE STATE SPECIFICATIONS EXCEPT THAT NO STONE SHALL BE LARGER THAN 1/2-TON OR SMALLER THAN 75 LBS.
8. STONE SHALL BE PLACED TO THE NOMINAL THICKNESS SHOWN. LOCAL SURFACE IRREGULARITIES SHALL NOT VARY BY MORE THAN 1/2 FT, MEASURED NORMAL TO THE SLOPE FROM THE GRADE LINES SHOWN ON THE DRAWINGS. CONTINUOUS UNDERBUILDING IS NOT ACCEPTABLE.
9. GRAVEL FOR BACKFILL TO PREPARE REVETMENT SUBGRADE UNDER FILTER FABRIC SHALL BE 3/4-IN CRUSHED ROCK.
10. MATERIALS NEEDED TO COMPLETE REVETMENT CREST SHALL BE STOCKPILED ON SITE FOR PLACEMENT FOLLOWING PROMENADE CONSTRUCTION. APPROXIMATELY 400 TONS OF 1/4-TON ARMOR STONE IS ESTIMATED TO COMPLETE REVETMENT CREST.
11. PRIOR TO MOBILIZATION AND PURCHASE OF MATERIALS, CONTRACTOR SHALL SUBMIT A SLOPE REPAIR PLAN AS SPECIFIED IN THE SPECIAL PROVISIONS.



A TYPICAL REVETMENT SECTION
6/8 SCALE: 1" = 2'



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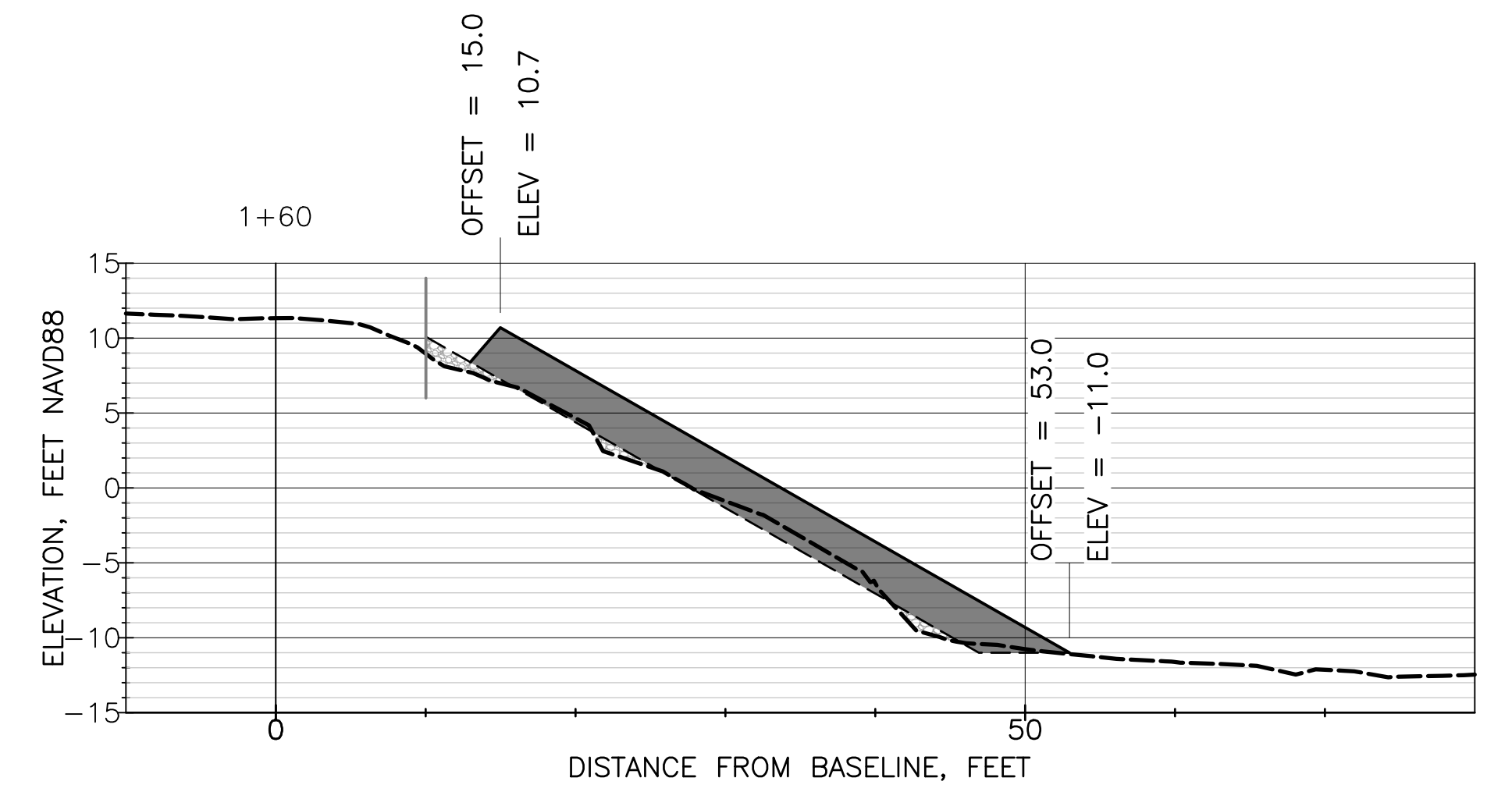
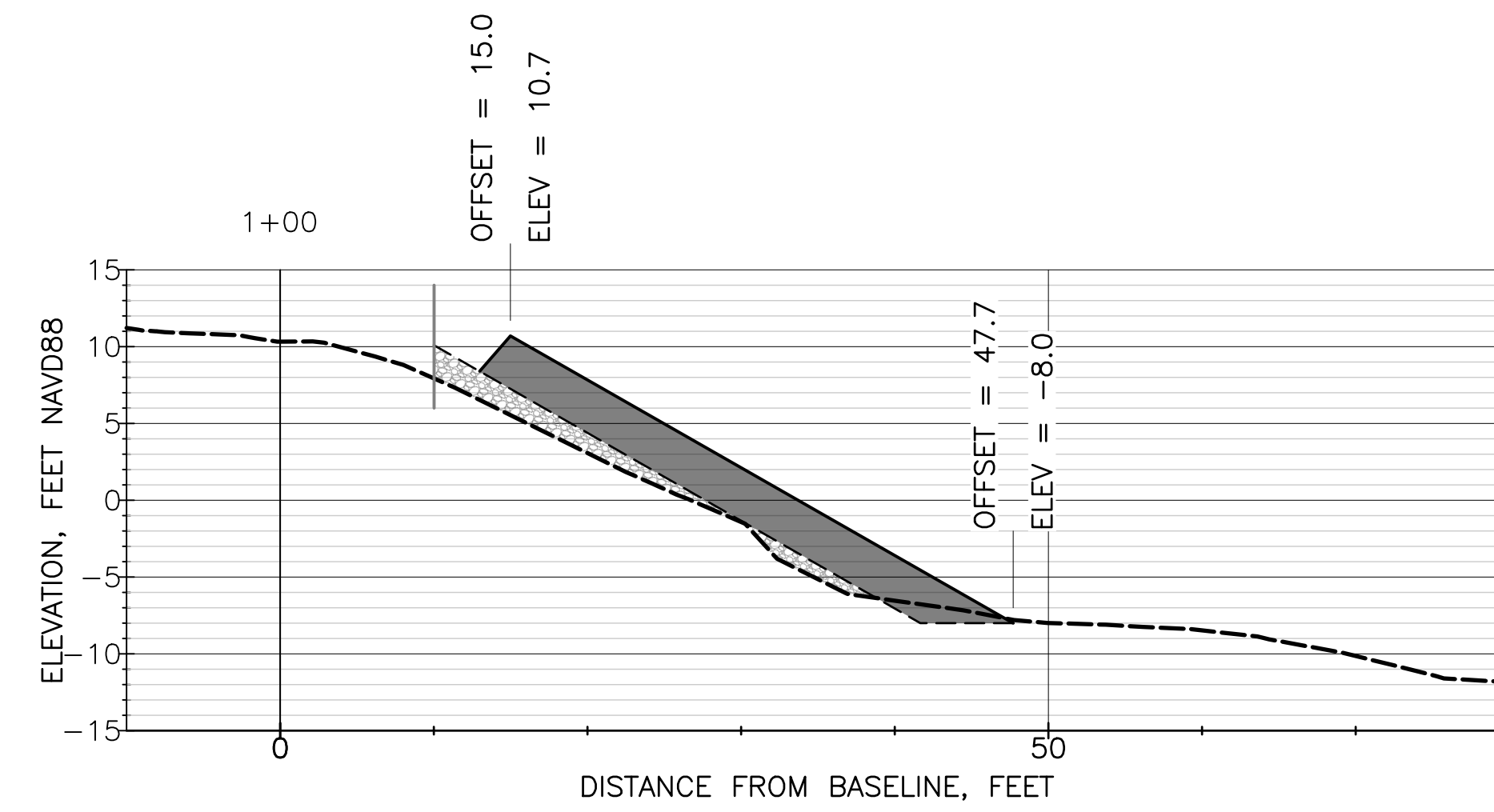
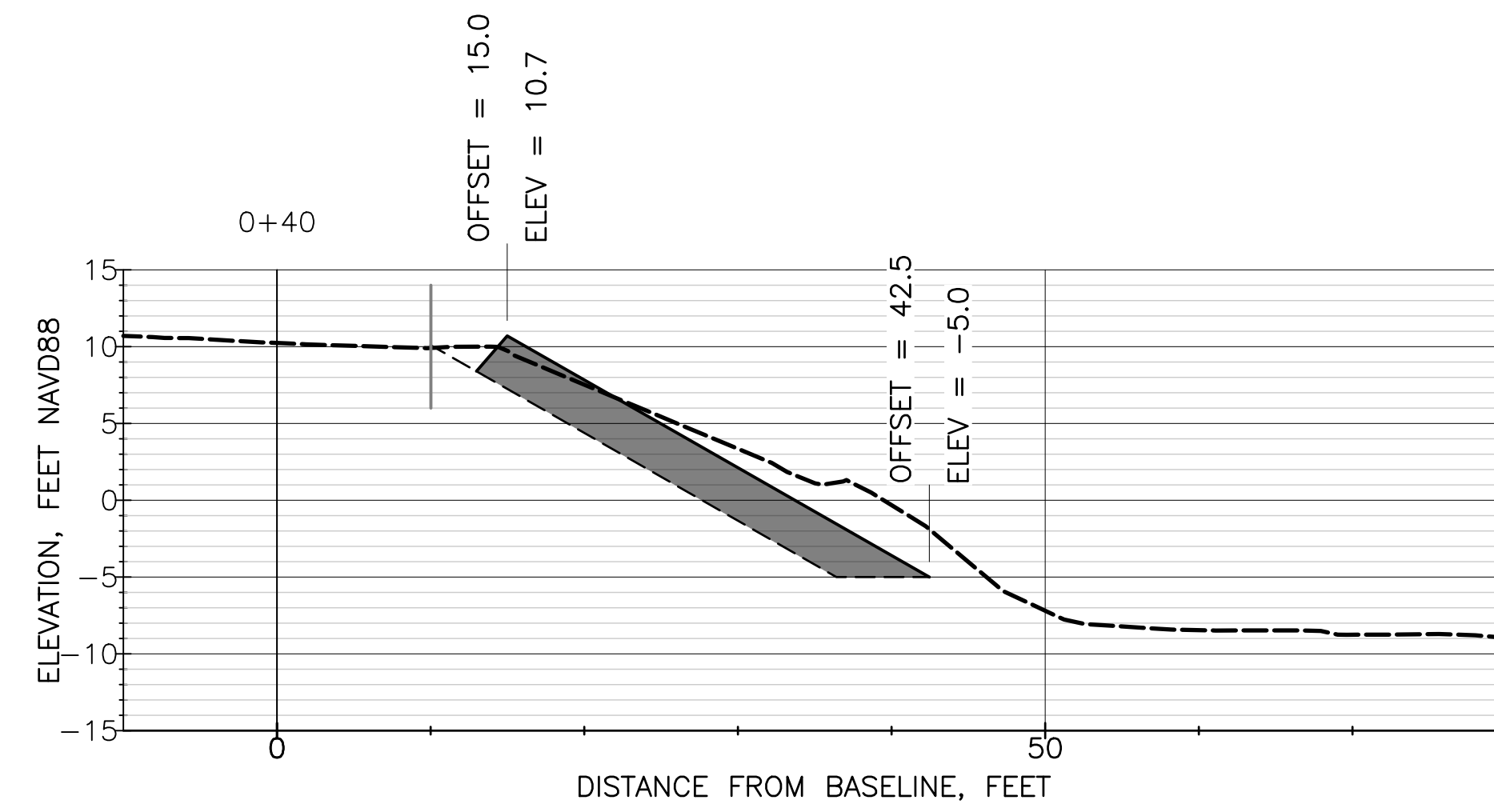
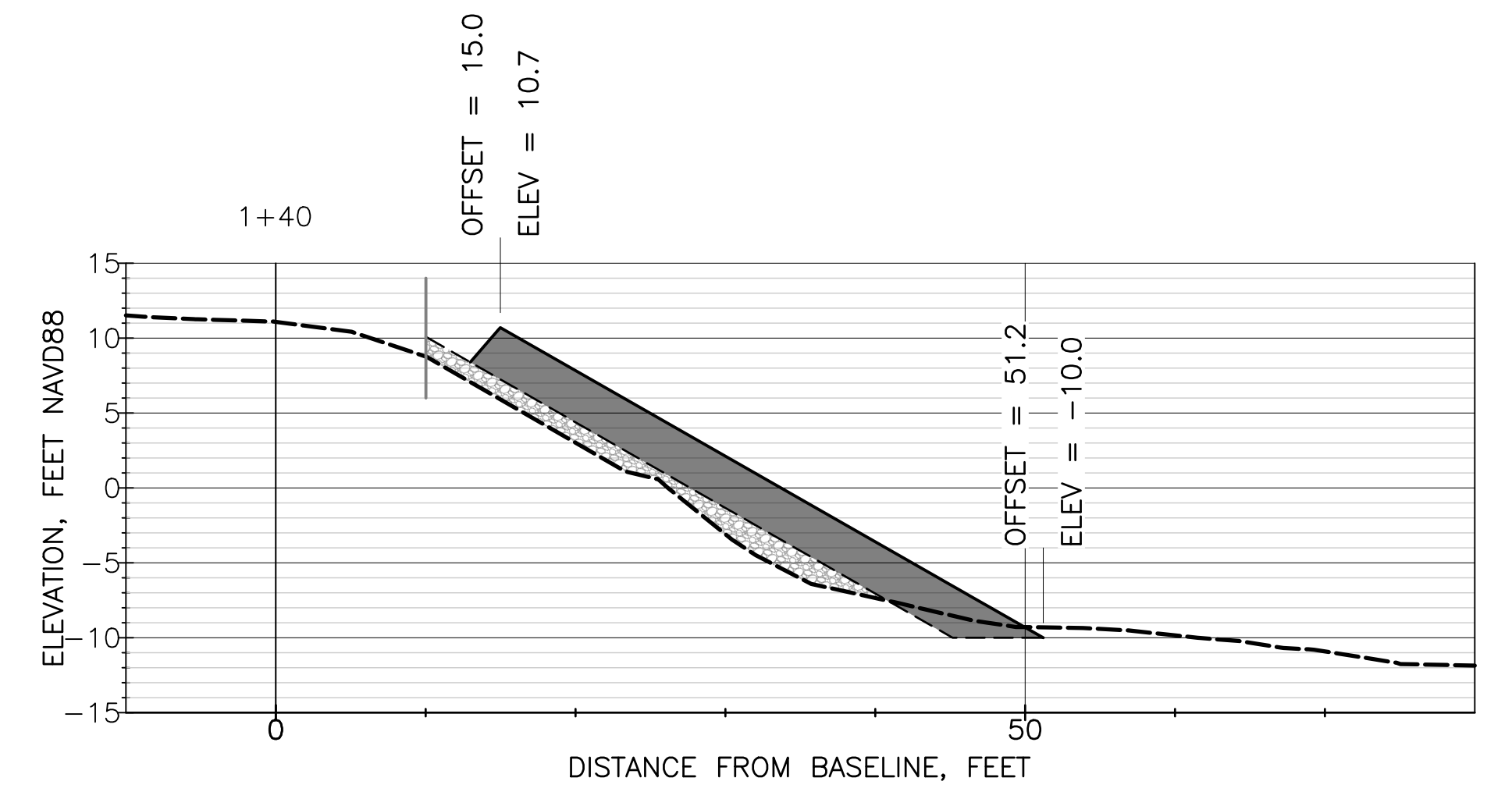
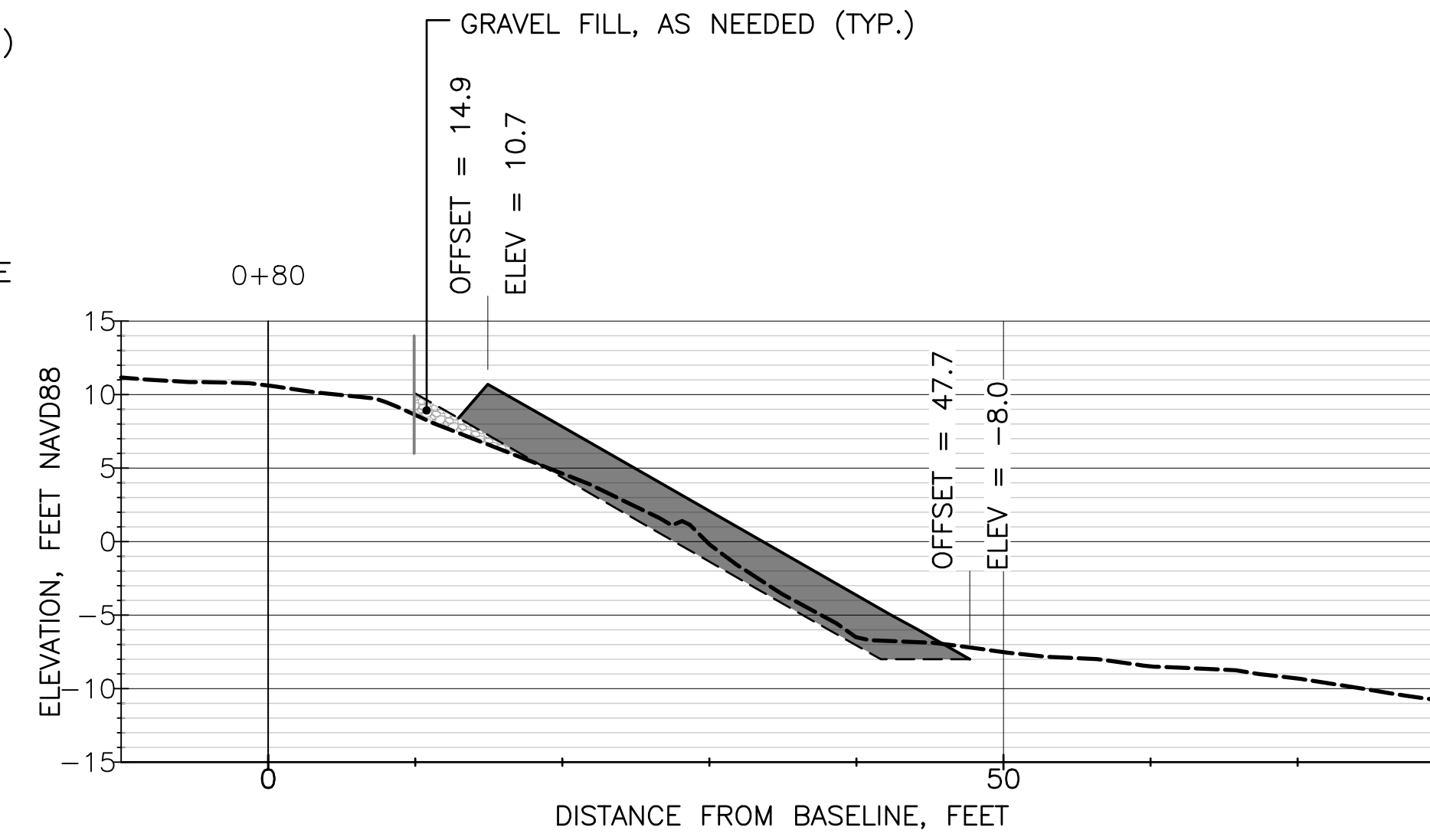
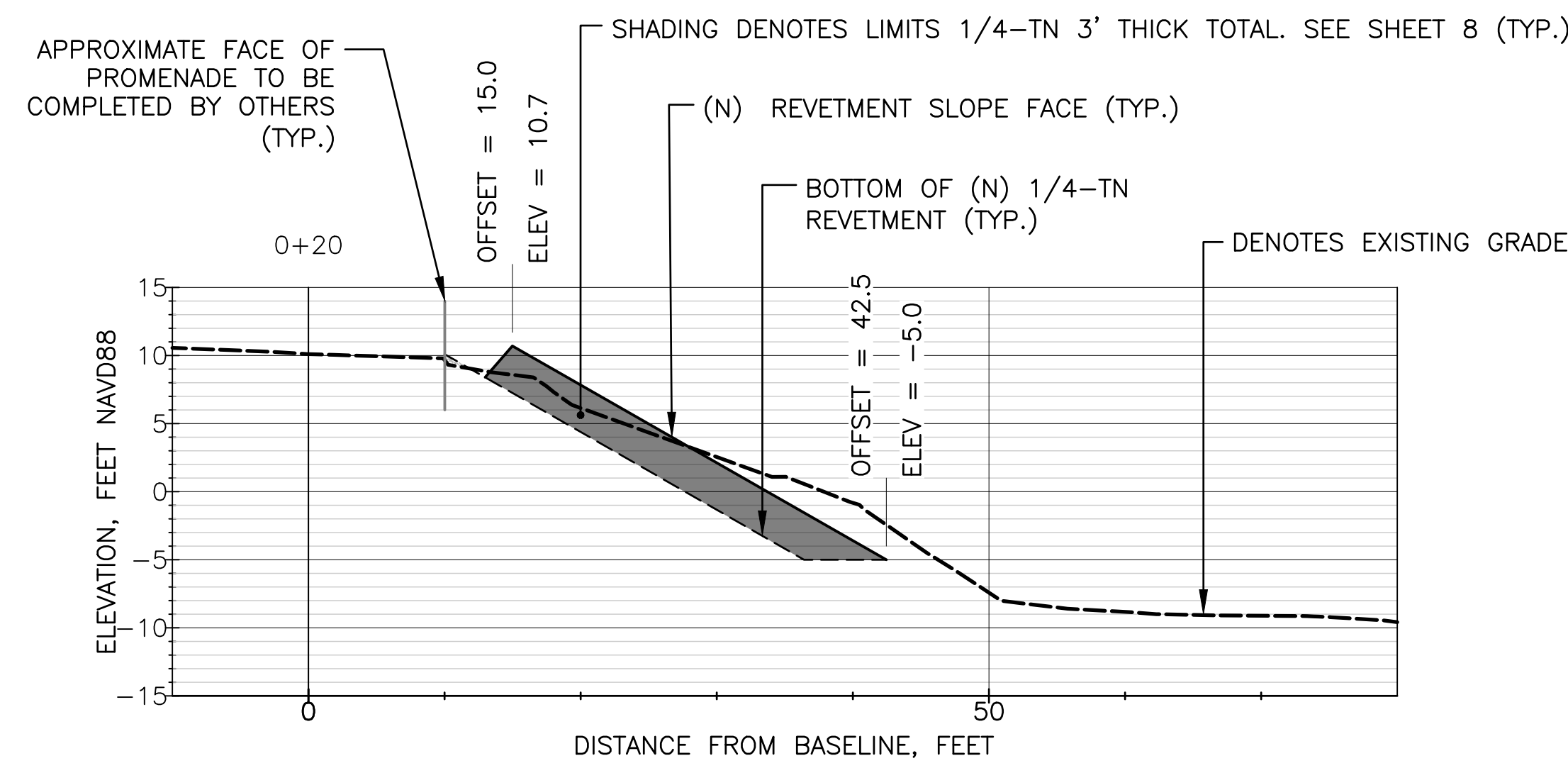
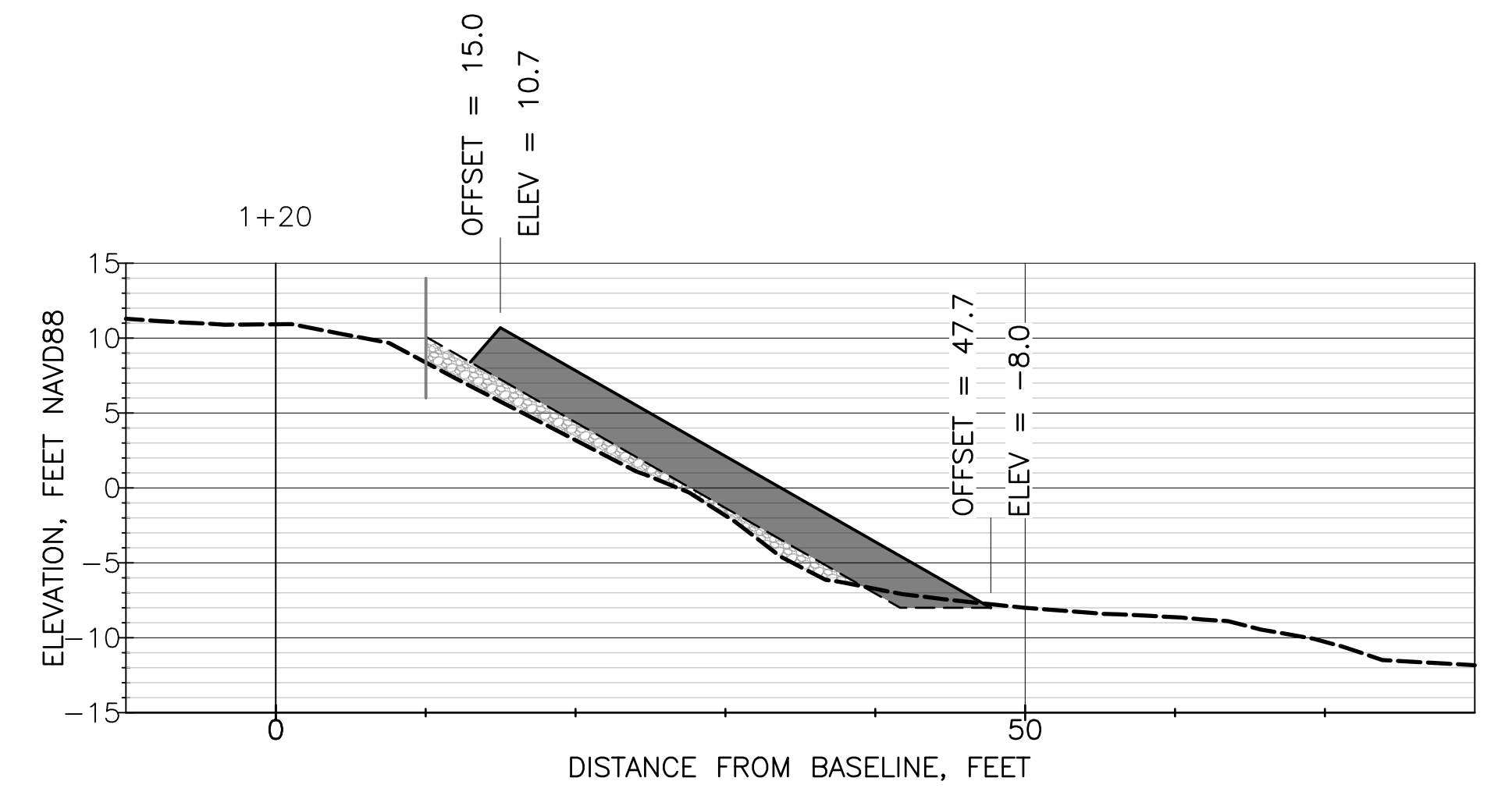
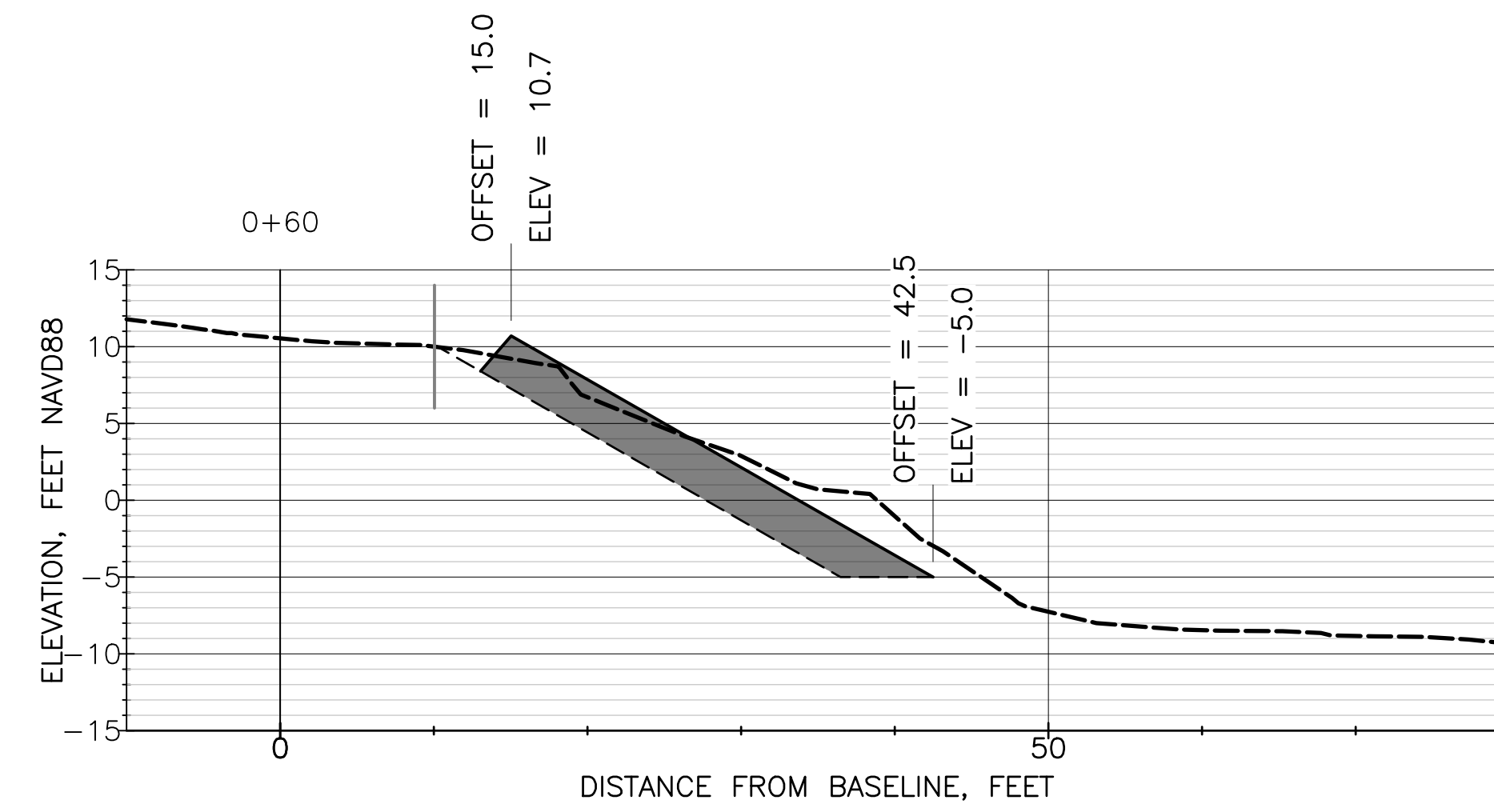
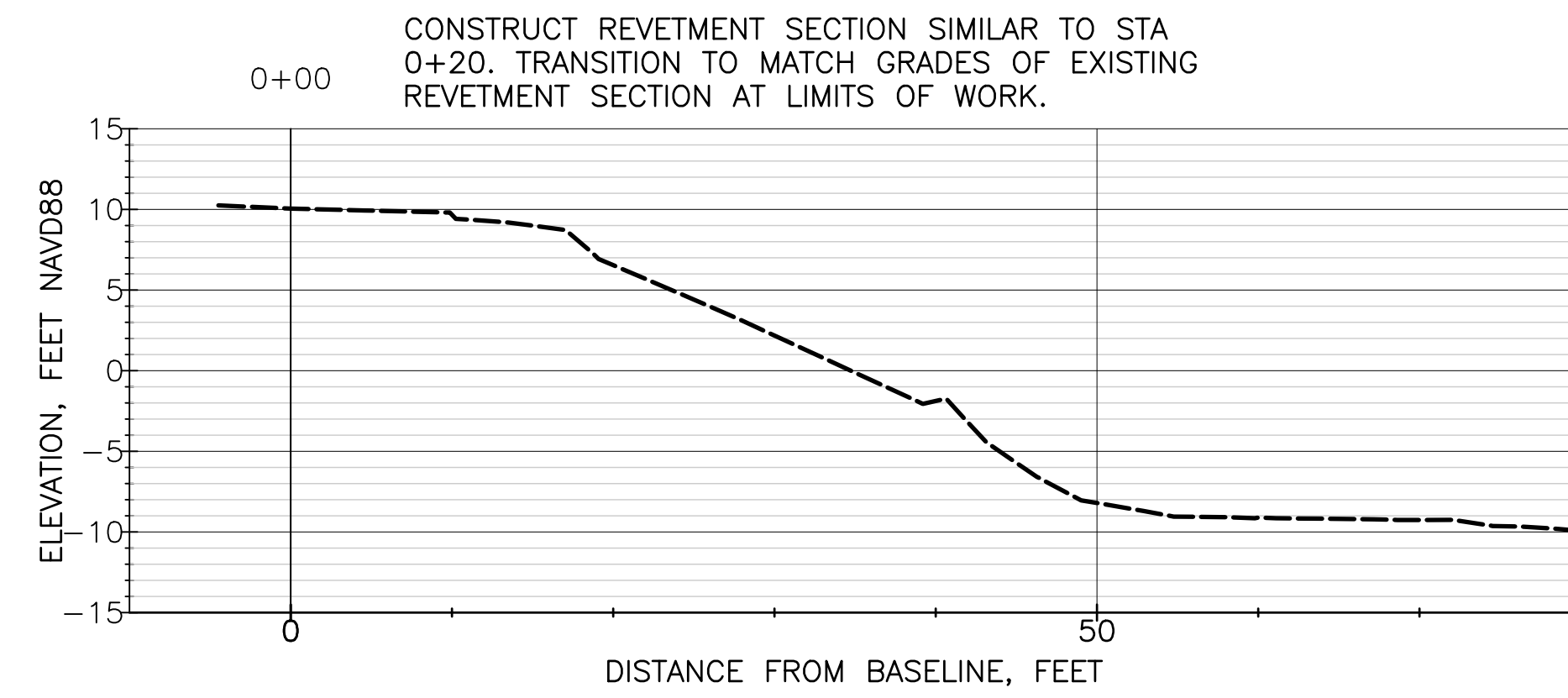
882A PATRIOT DRIVE
MOORPARK, CA 93021-3544
818-341-8133

NO.	DATE	REVISION
1	8/17	MODIFIED SLOPE REPAIR NOTE 6
2	9/13	MODIFIED QUANTITIES IN SLOPE REPAIR NOTES 6 AND 10

DESIGNED BY JBR
DRAWN BY BRW
CHECKED BY JBR/RHB
APPROV. BY RHB

COUNTY OF VENTURA
TYPICAL REVETMENT SECTION
CHANNEL ISLANDS HARBOR PENINSULA REVETMENT REPAIR

SHEET 10 OF 19
JOB NO. CFC-1144
SCALE AS SHOWN
DATE 9/13/2022



COASTAL
FRONTIERS

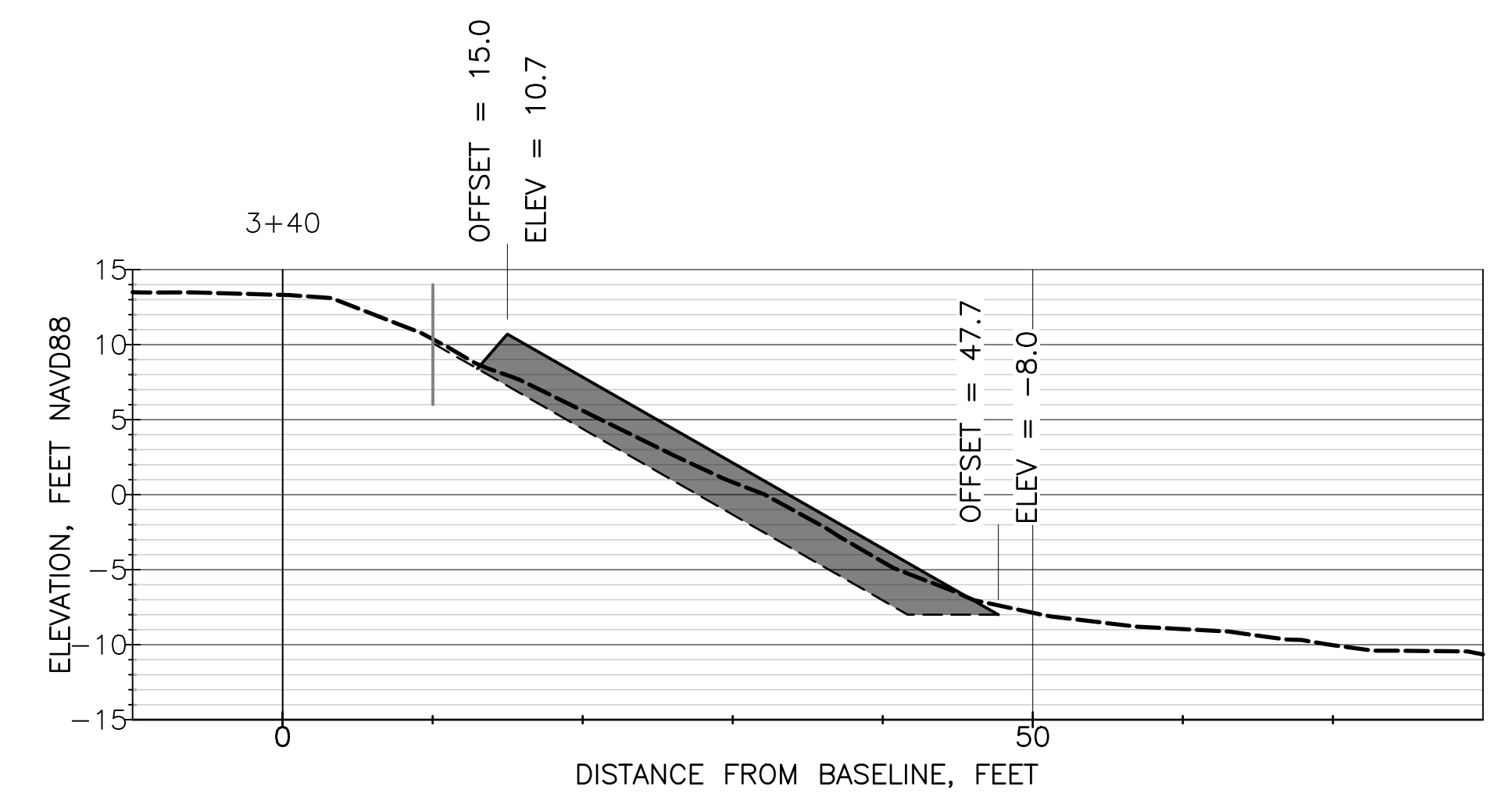
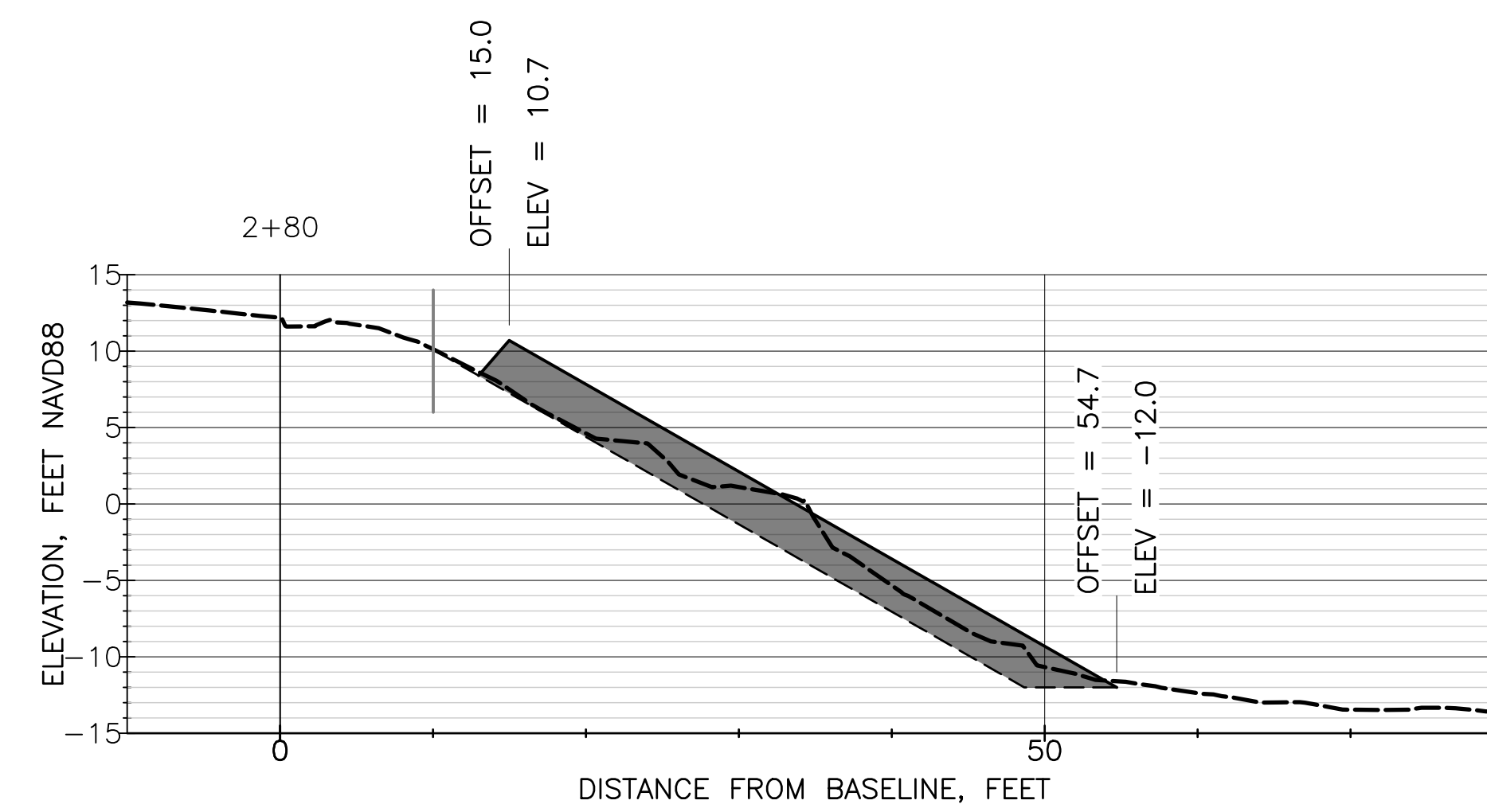
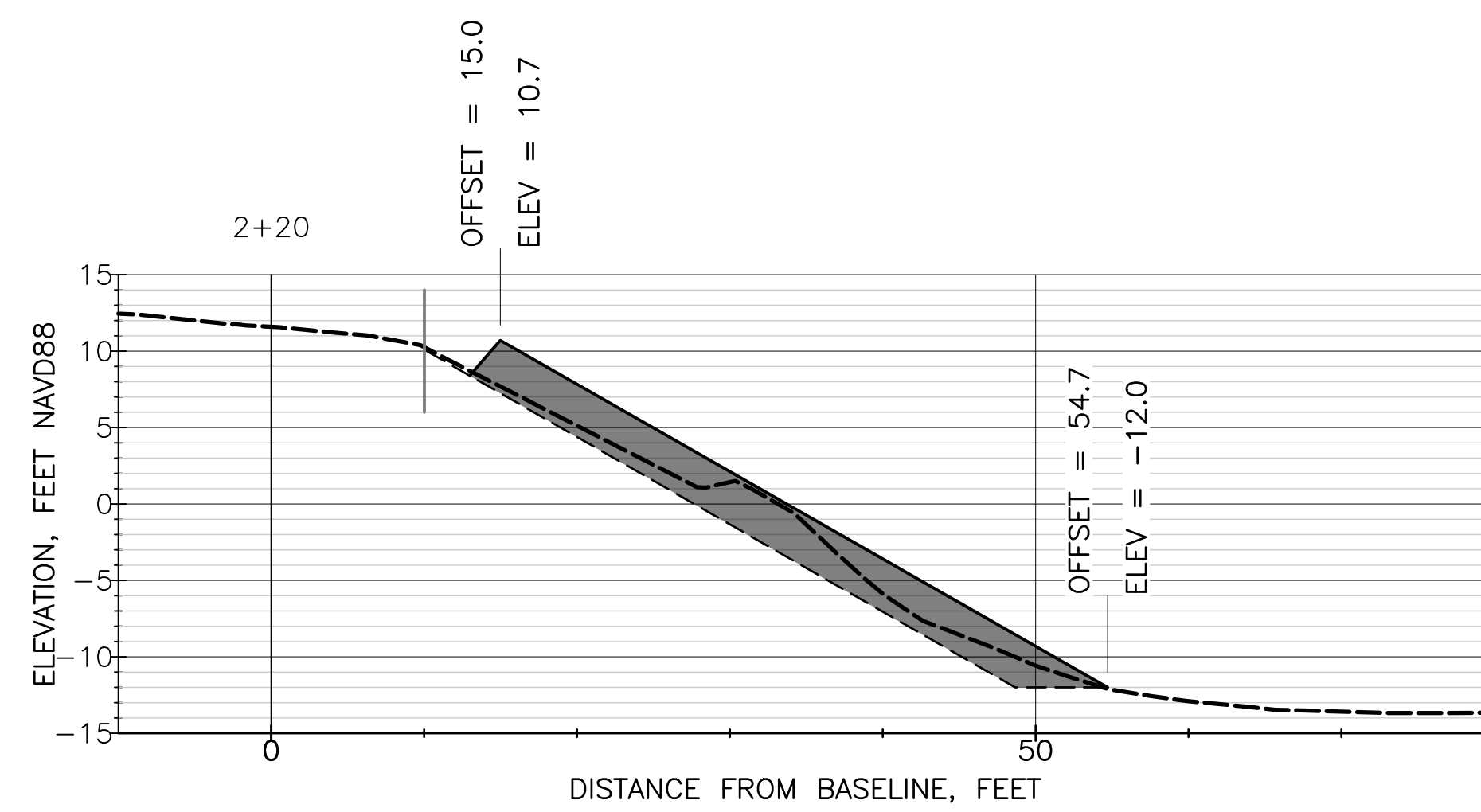
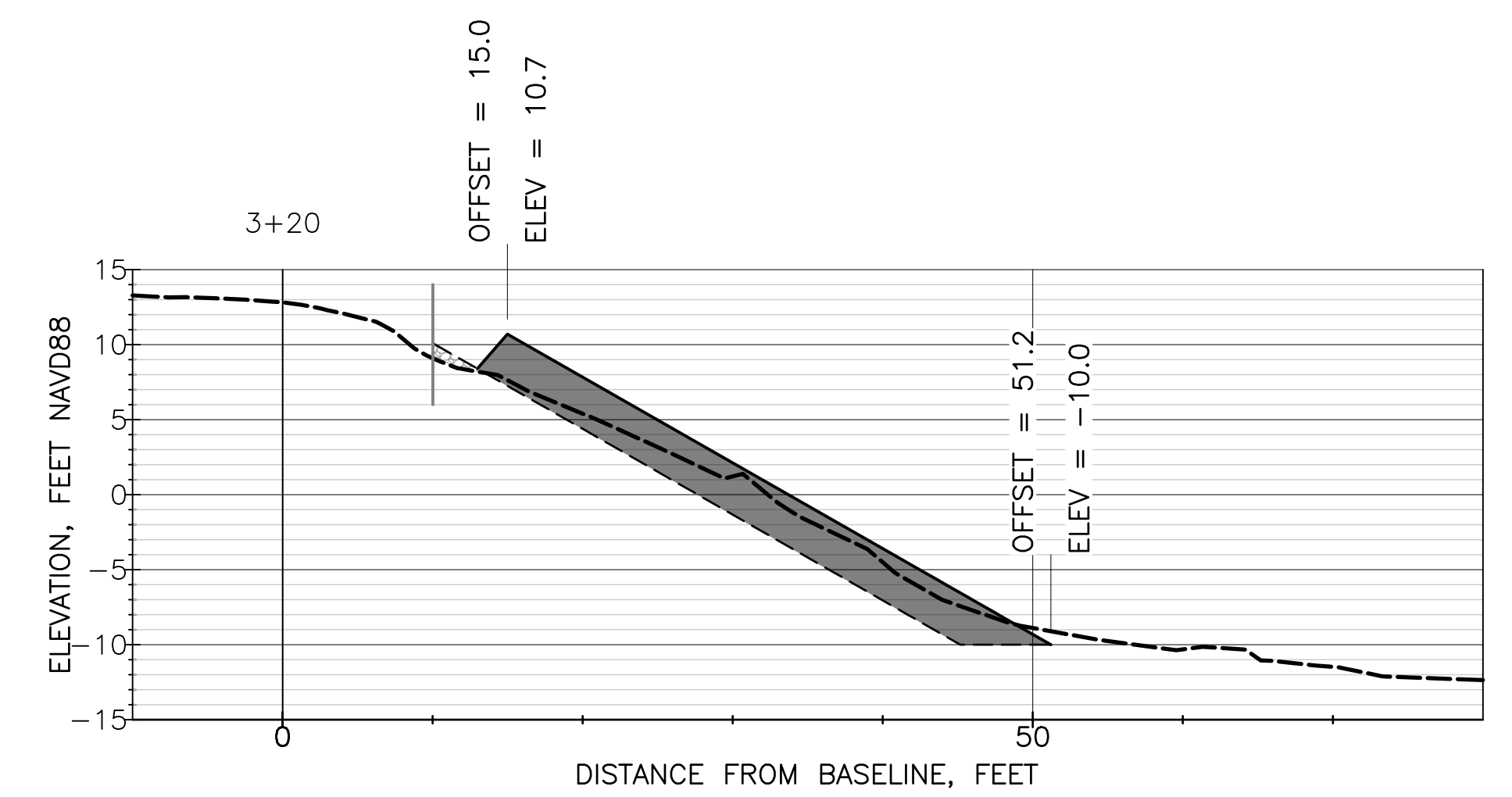
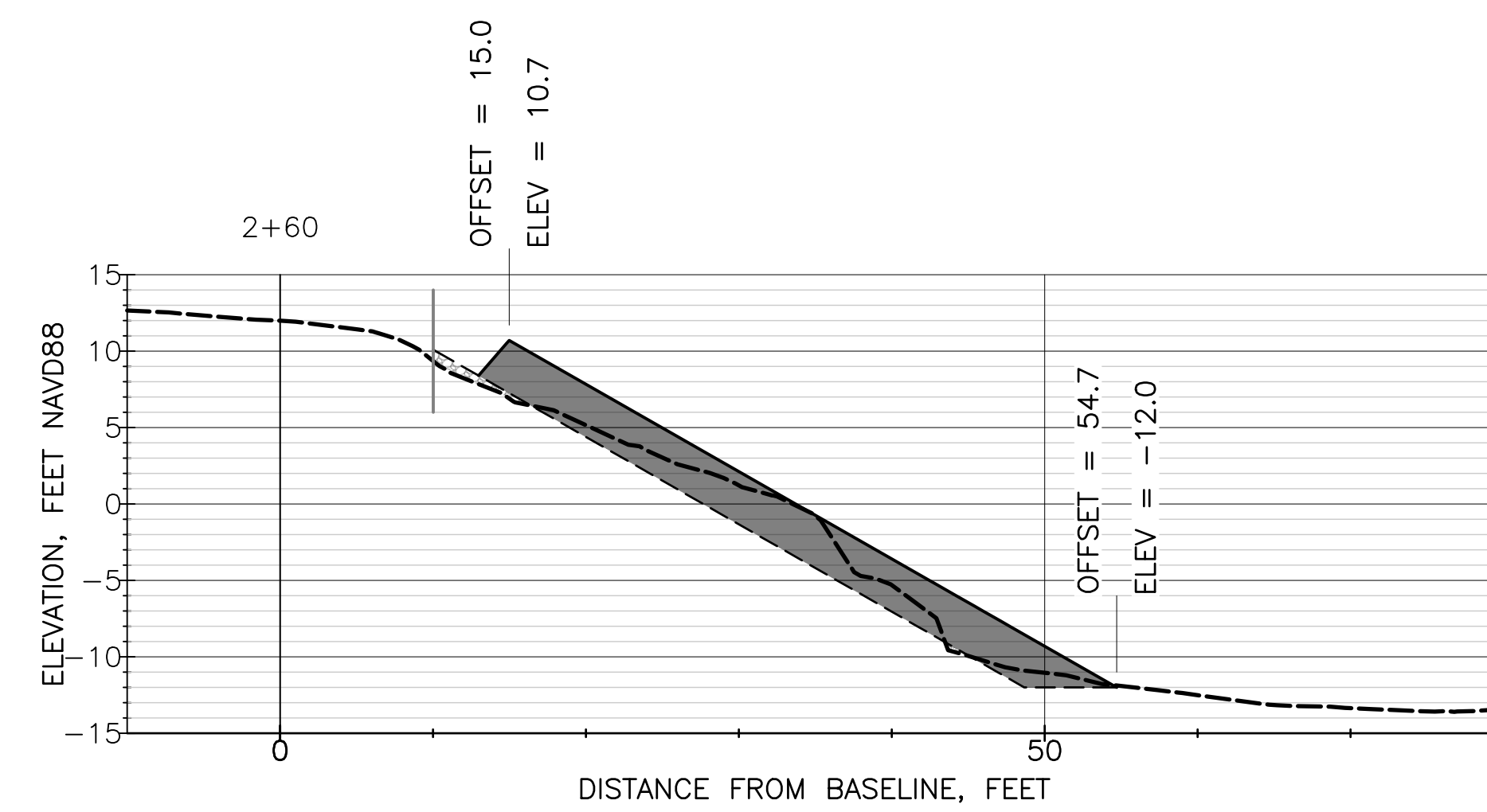
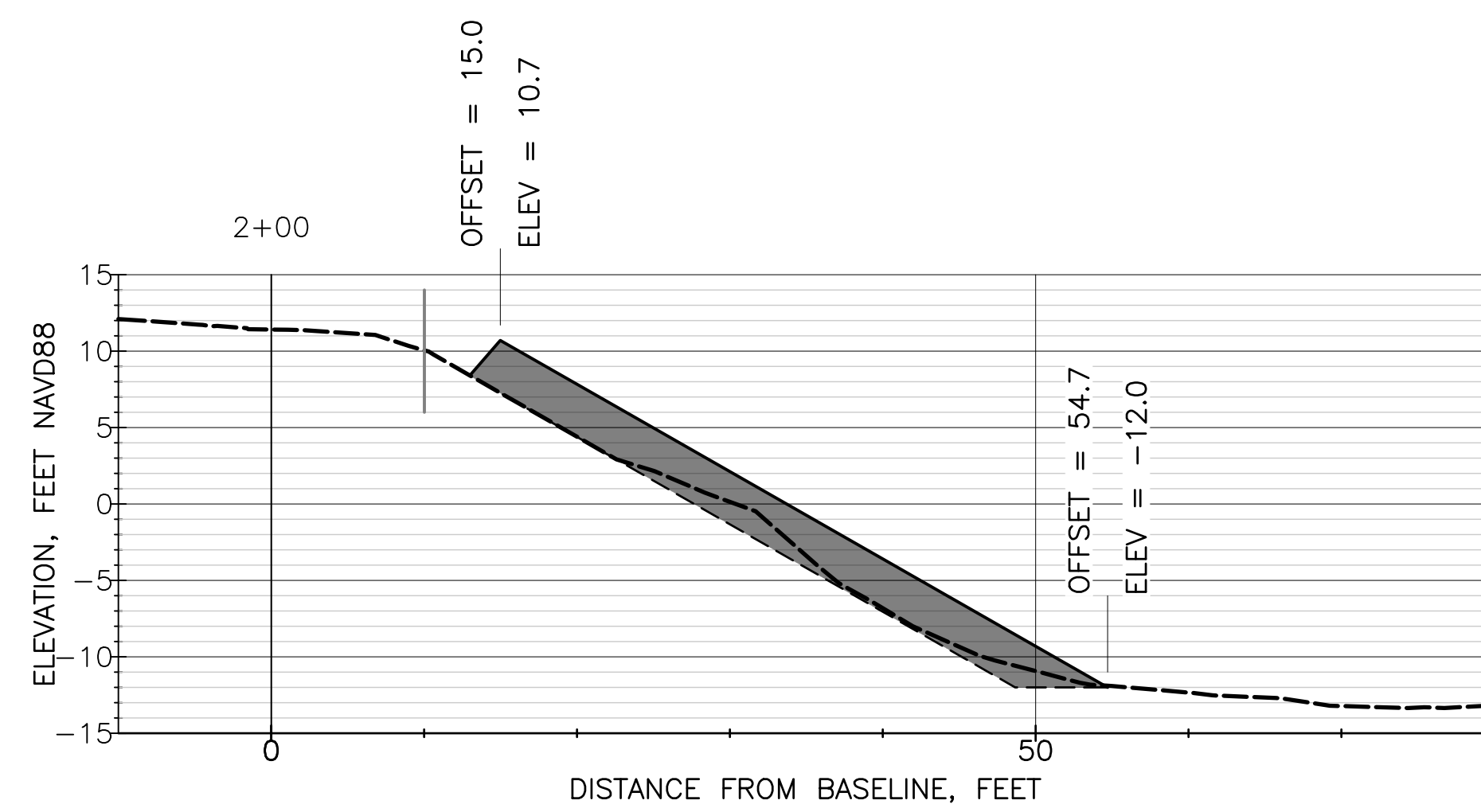
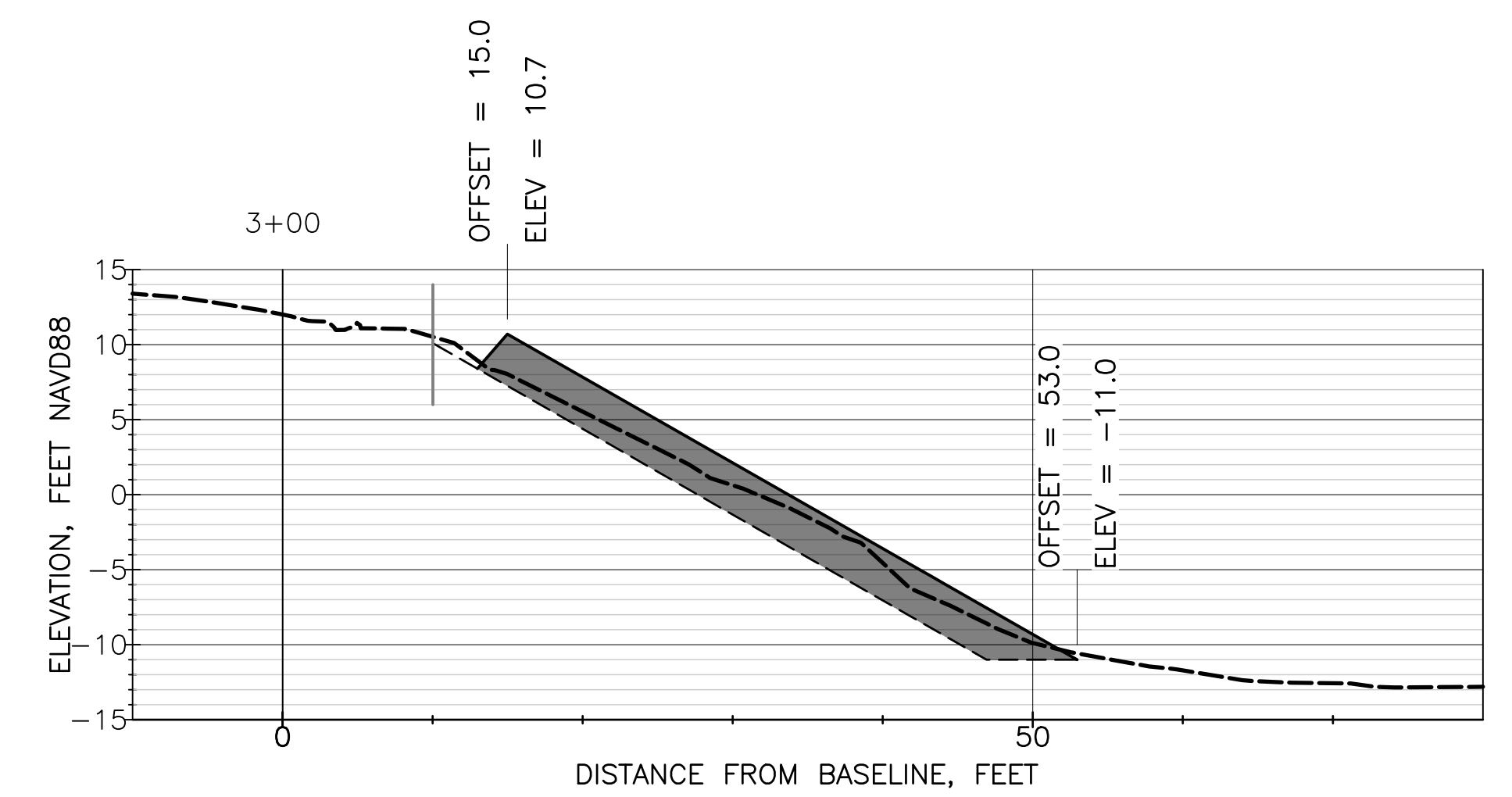
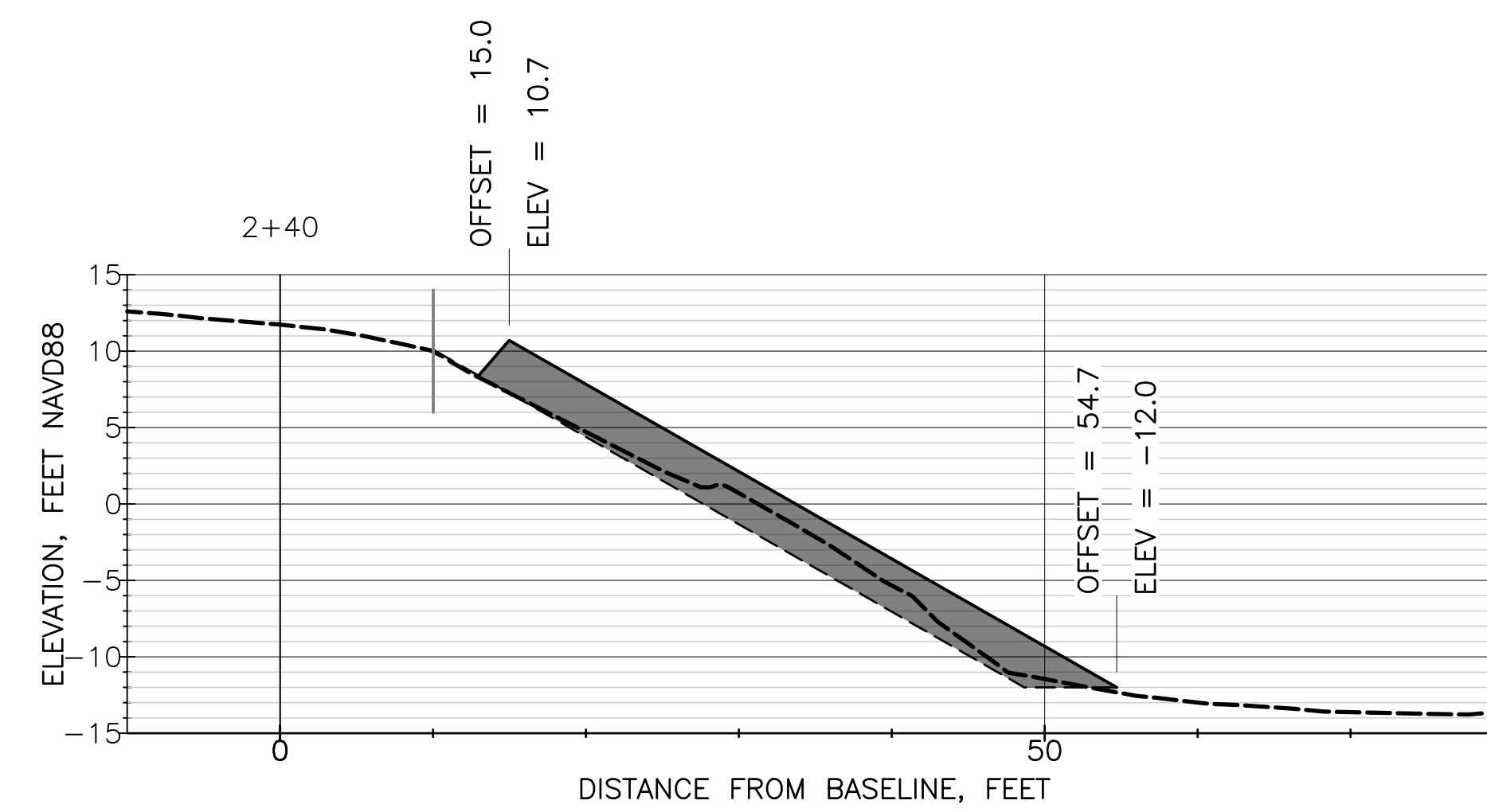
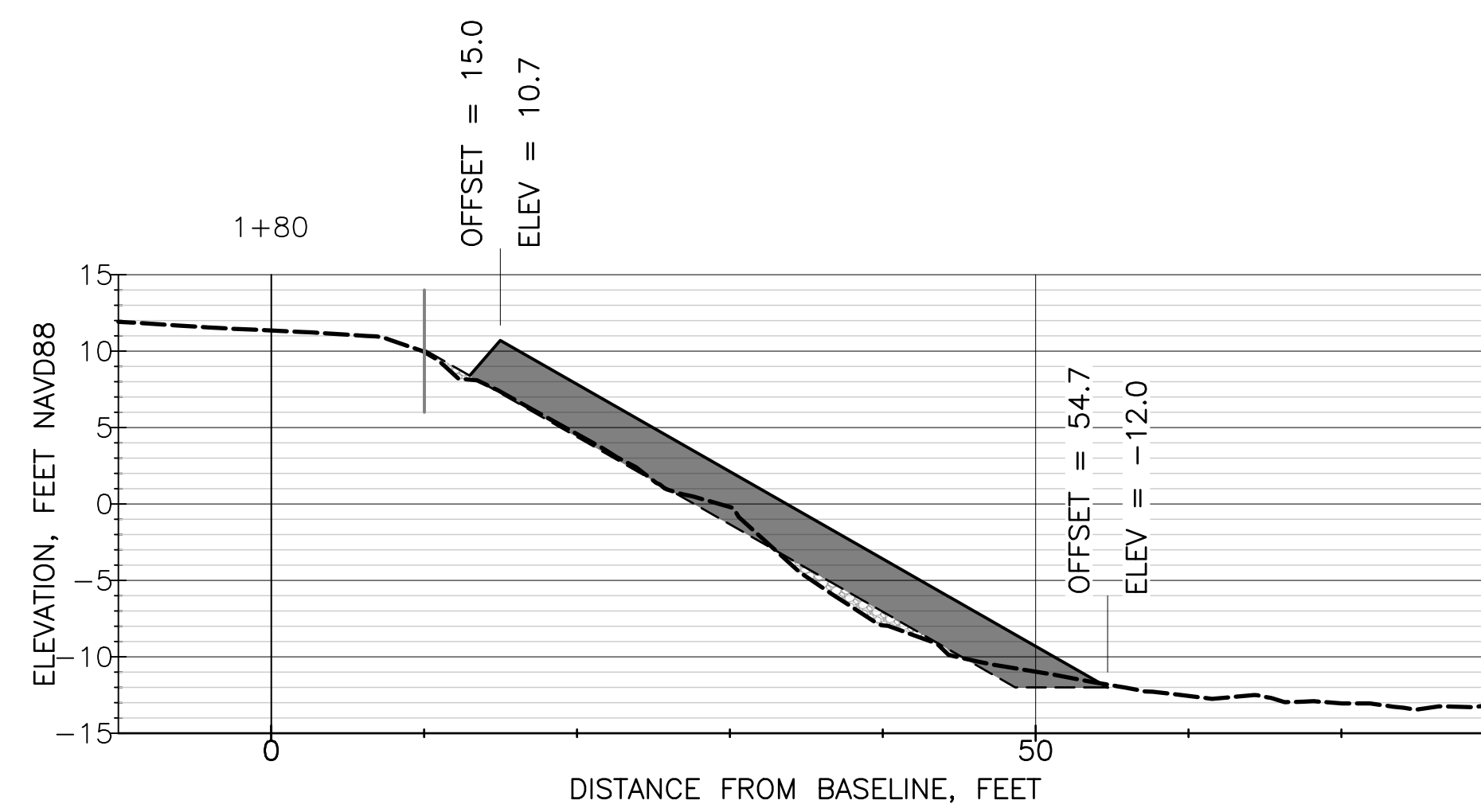
882A PATRIOT DRIVE
MOORPARK, CA 93021-3544
818-341-8133

NO.	DATE	REVISION

DESIGNED BY: JBR
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APPROV. BY: RHB

COUNTY OF VENTURA
SECTIONS STA 0+00 TO 1+60
CHANNEL ISLANDS HARBOR PENINSULA REVETMENT REPAIR

SHEET 11 OF 19
JOB NO. CFC-1144
SCALE AS SHOWN
DATE 7/1/2022



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882A PATRIOT DRIVE
MOORPARK, CA 93021-3544
818-341-8133

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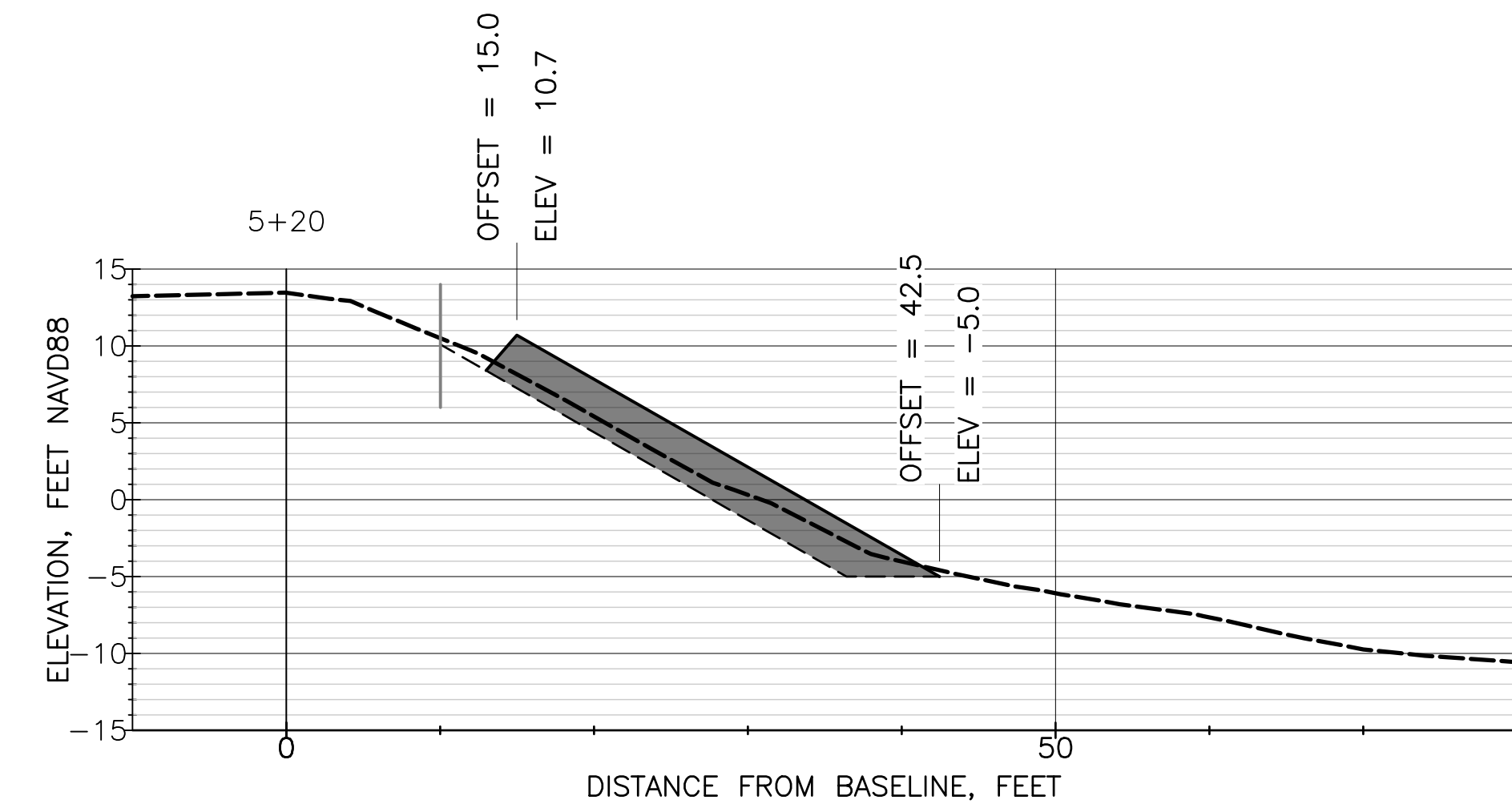
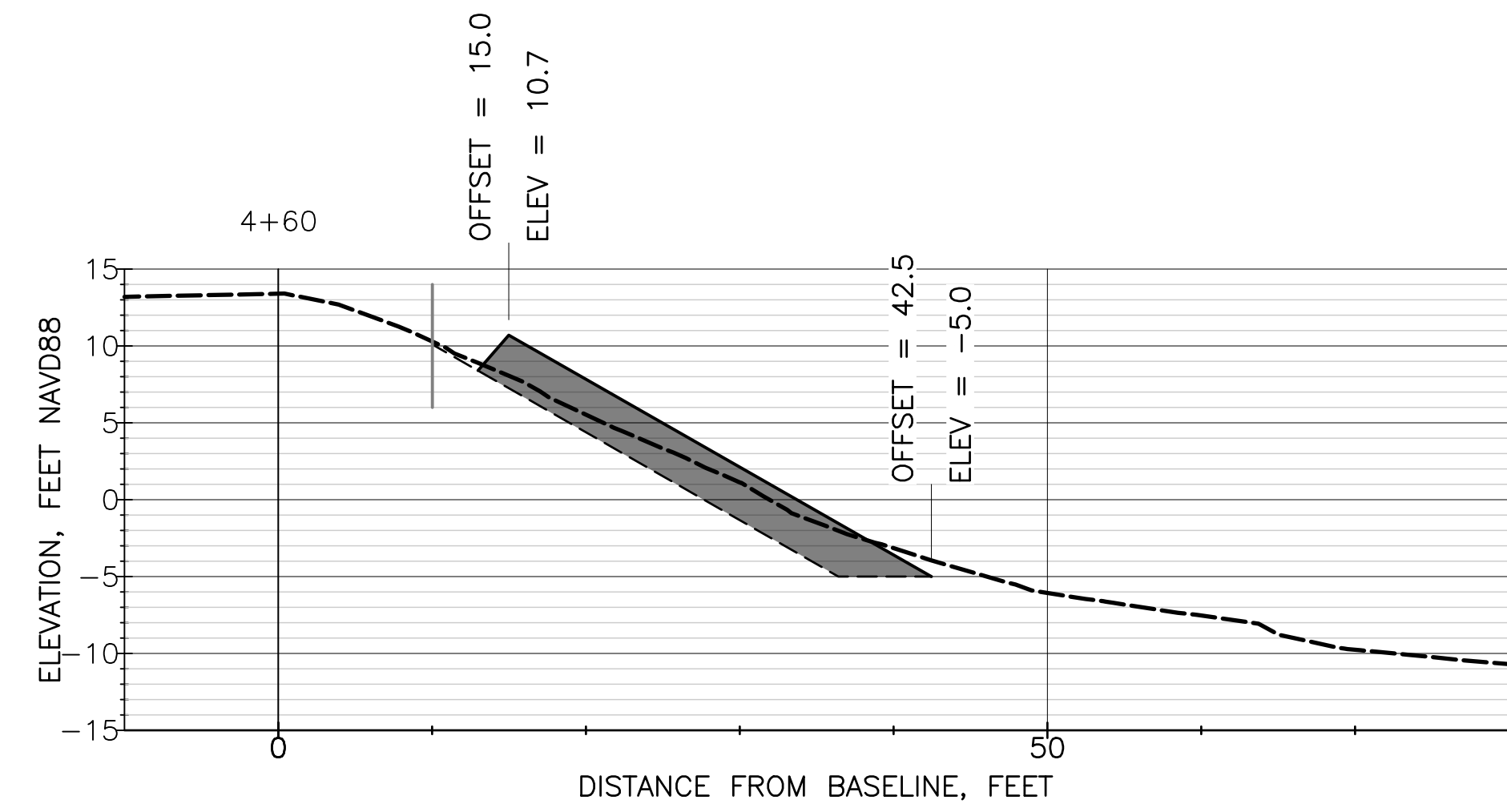
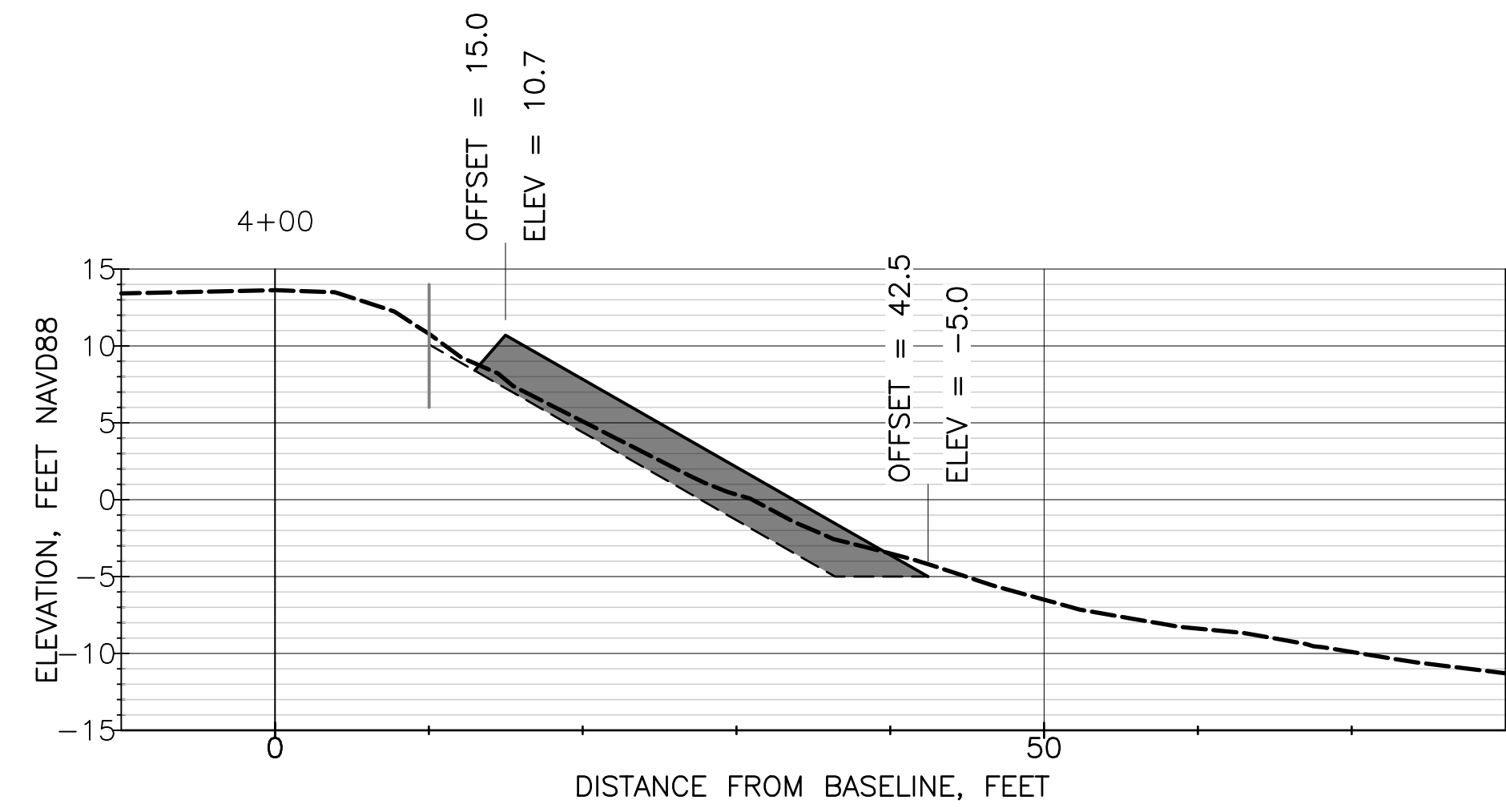
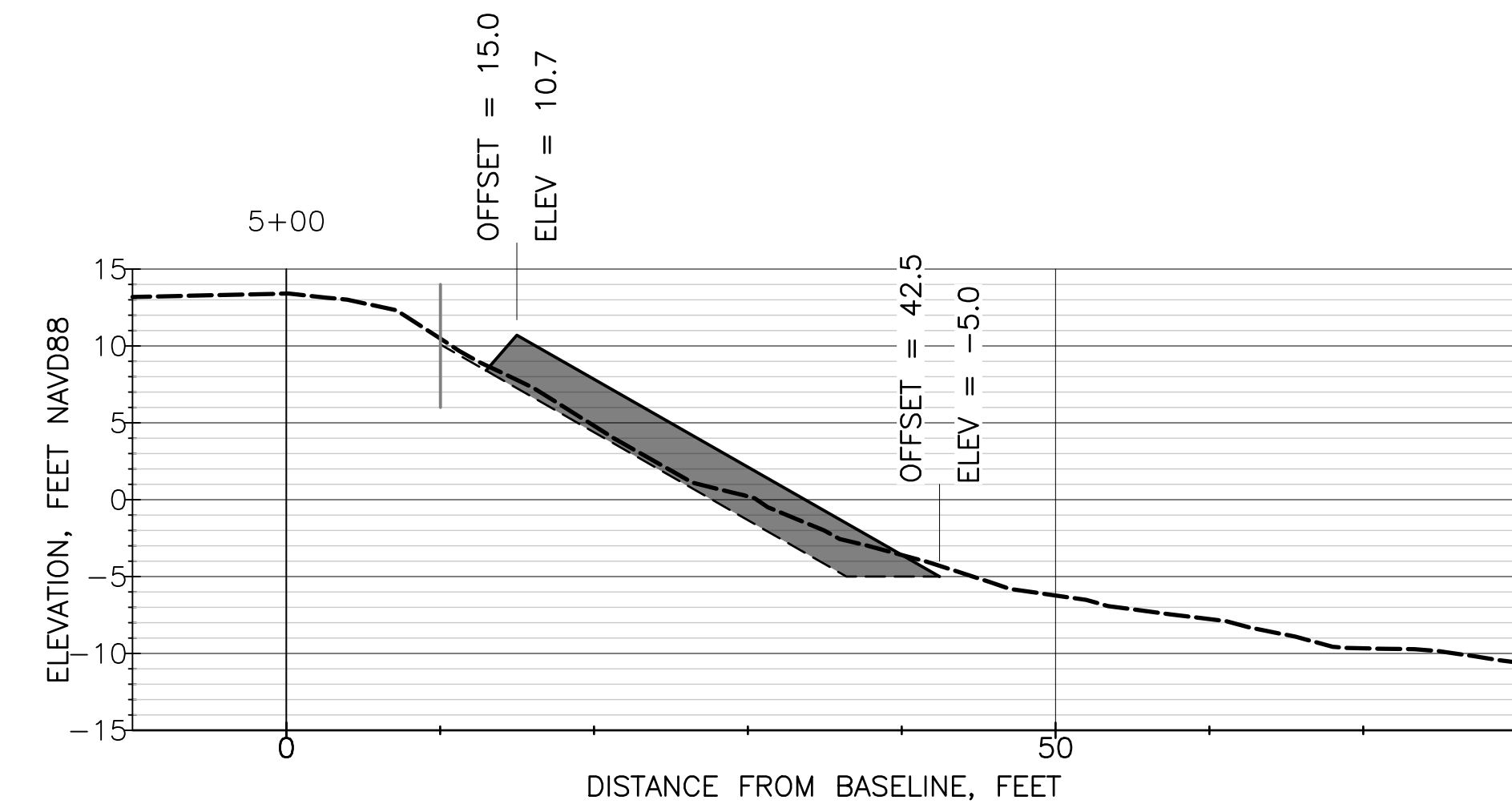
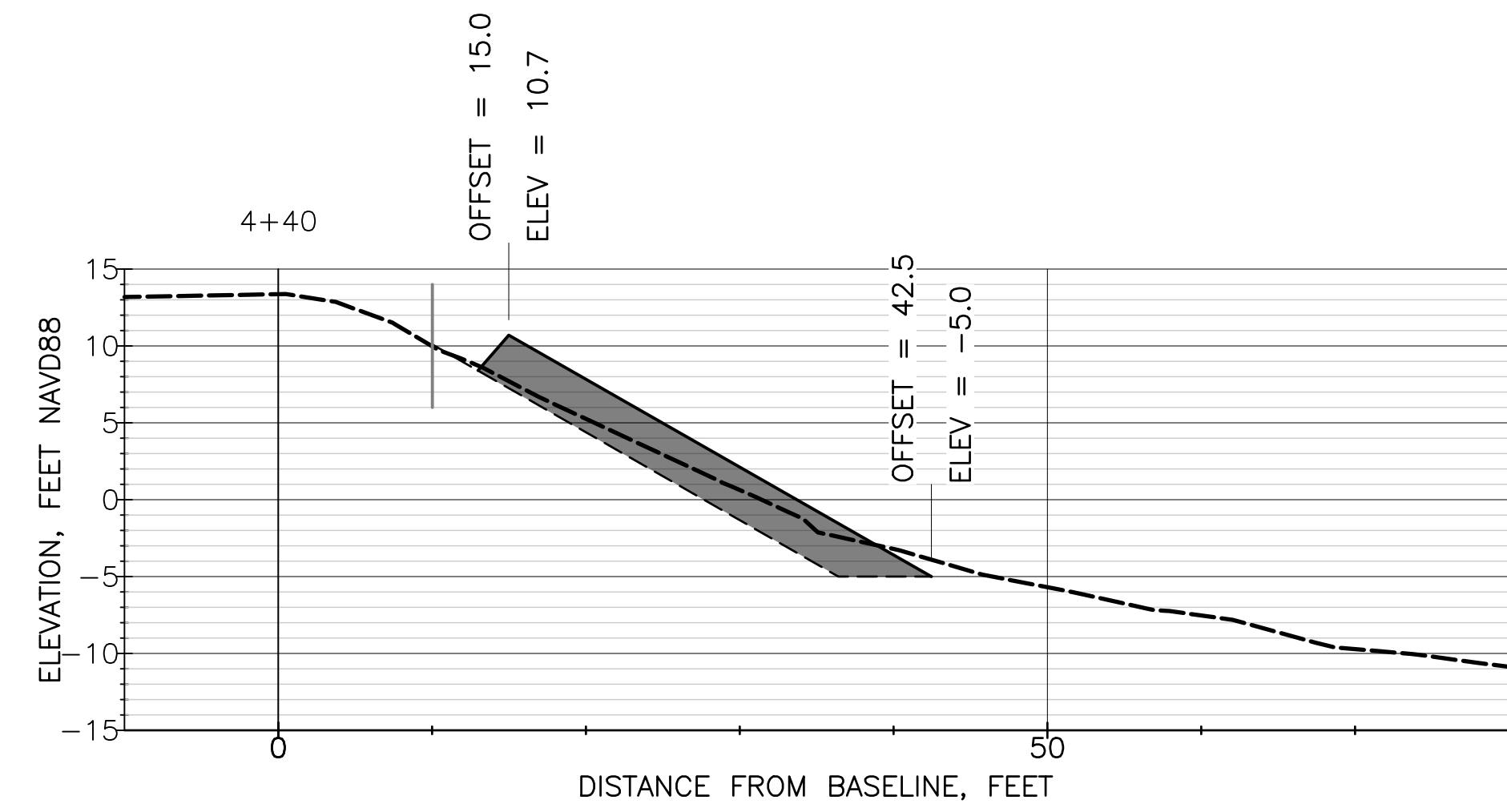
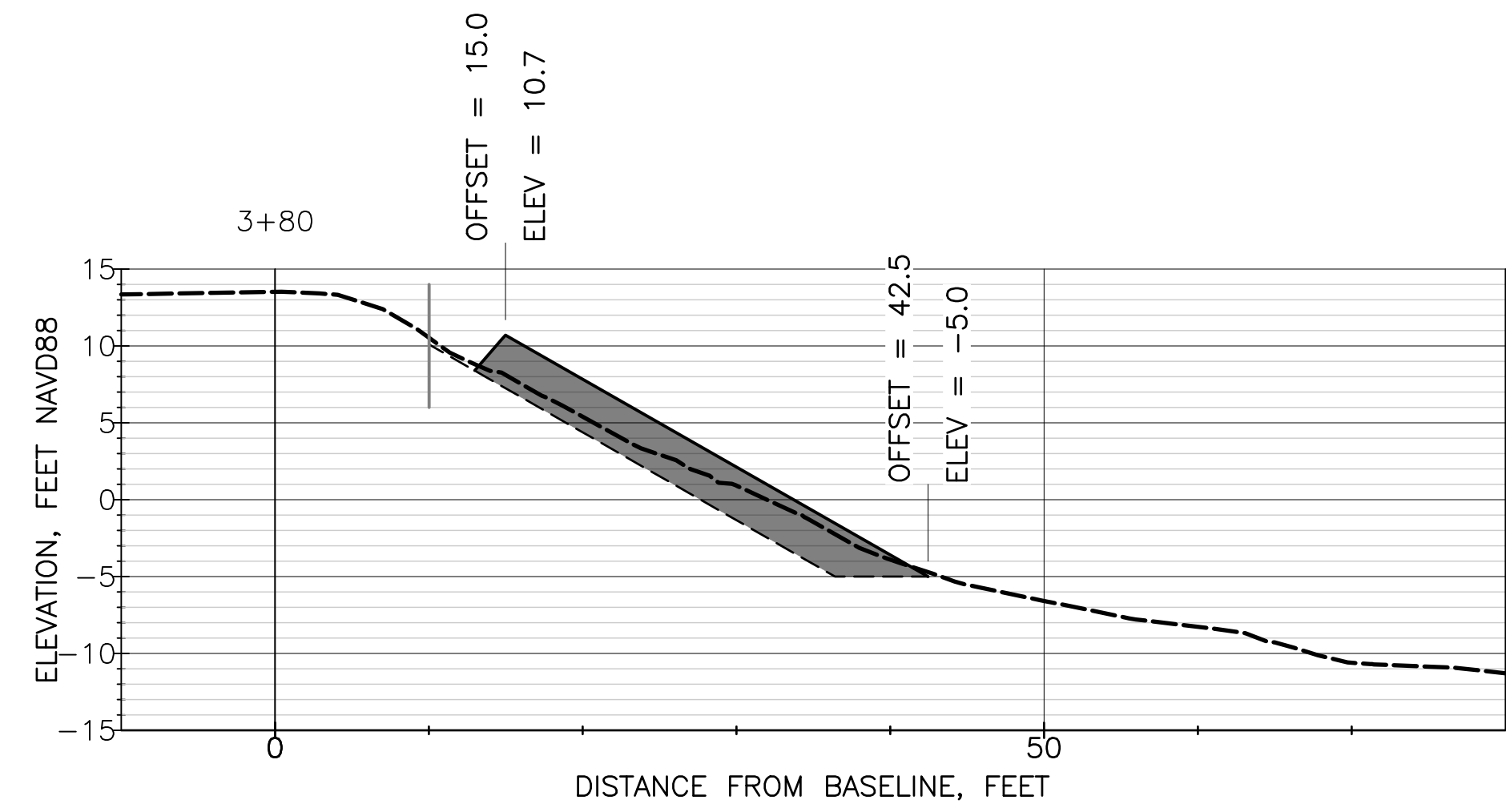
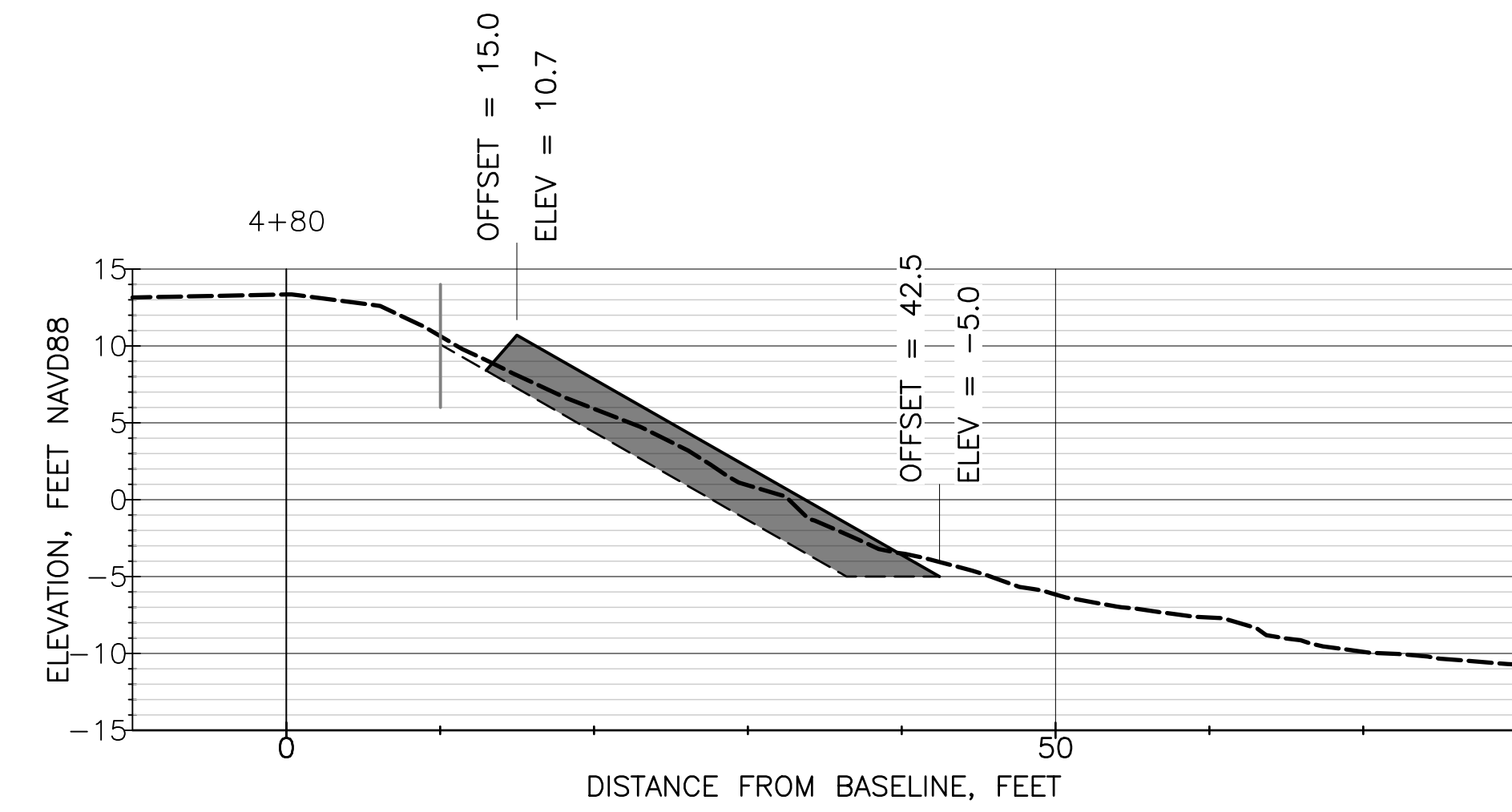
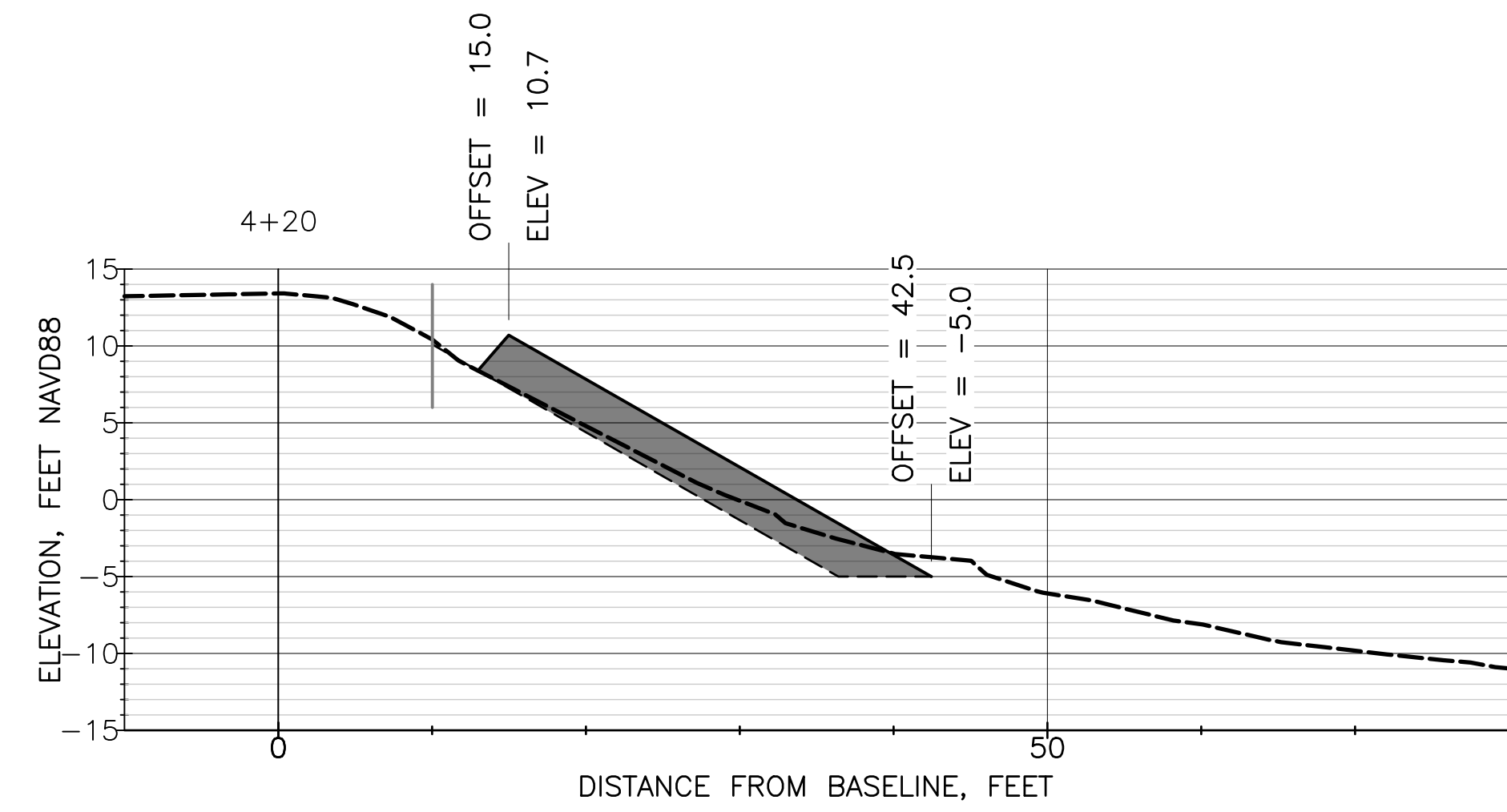
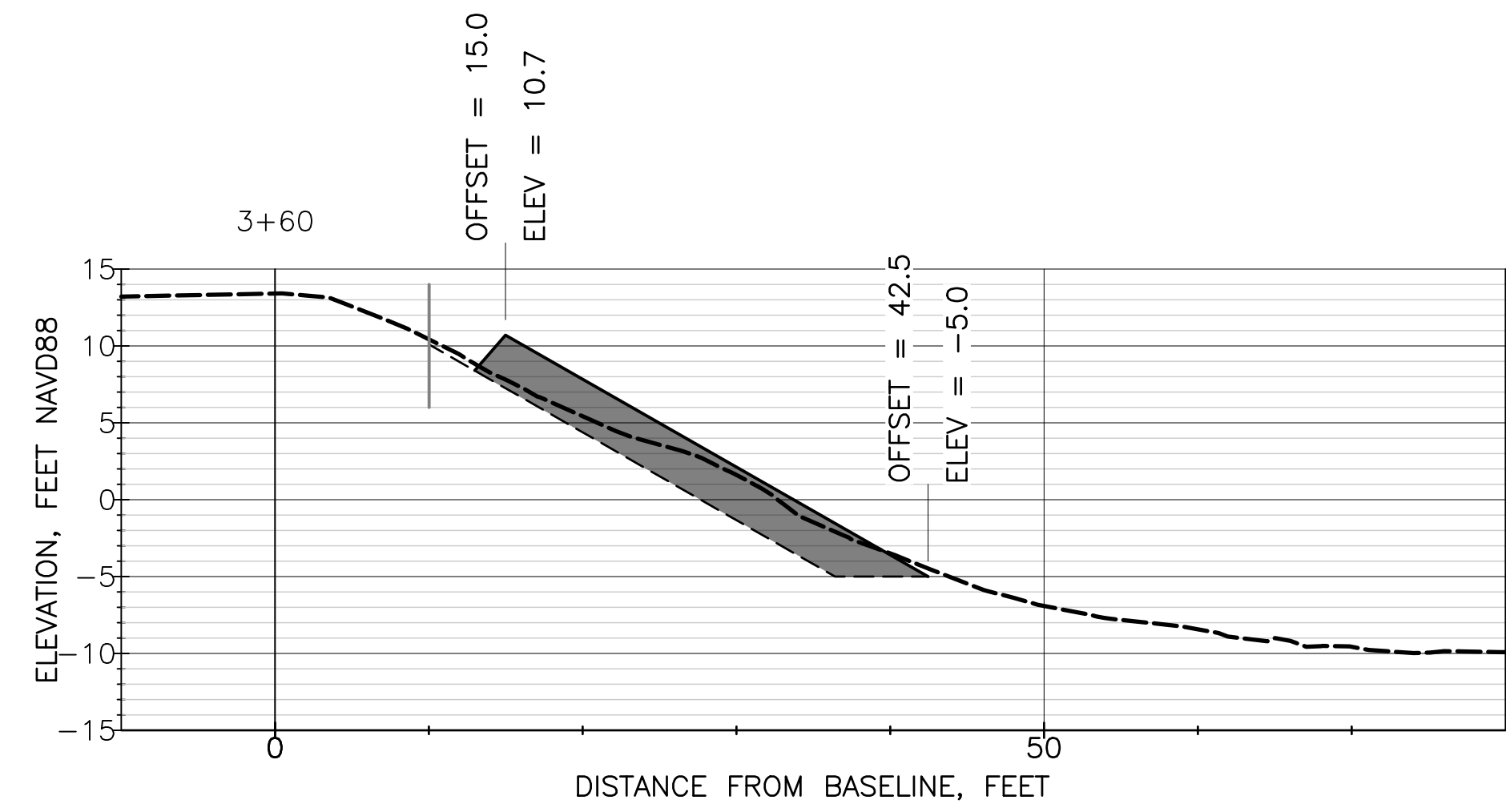
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DRAWN BY	BRW
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APPROV. BY	RHB

COUNTY OF VENTURA

SECTIONS STA 1+80 TO 3+40

CHANNEL ISLANDS HARBOR PENINSULA REVETMENT REPAIR

SHEET 12 OF 19
JOB NO. CFC-1144
SCALE AS SHOWN
DATE 7/1/2022



COASTAL
FRONTIERS

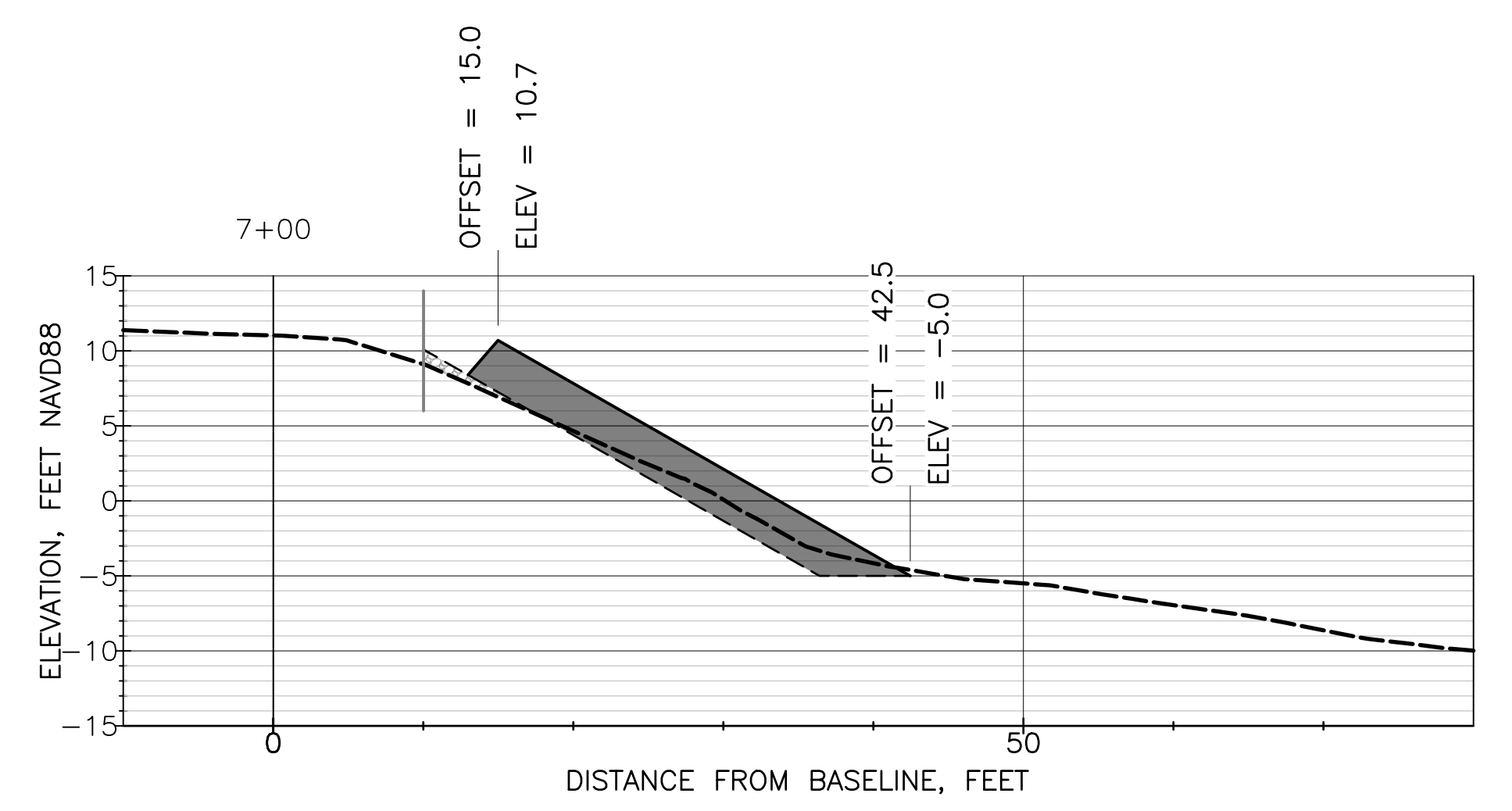
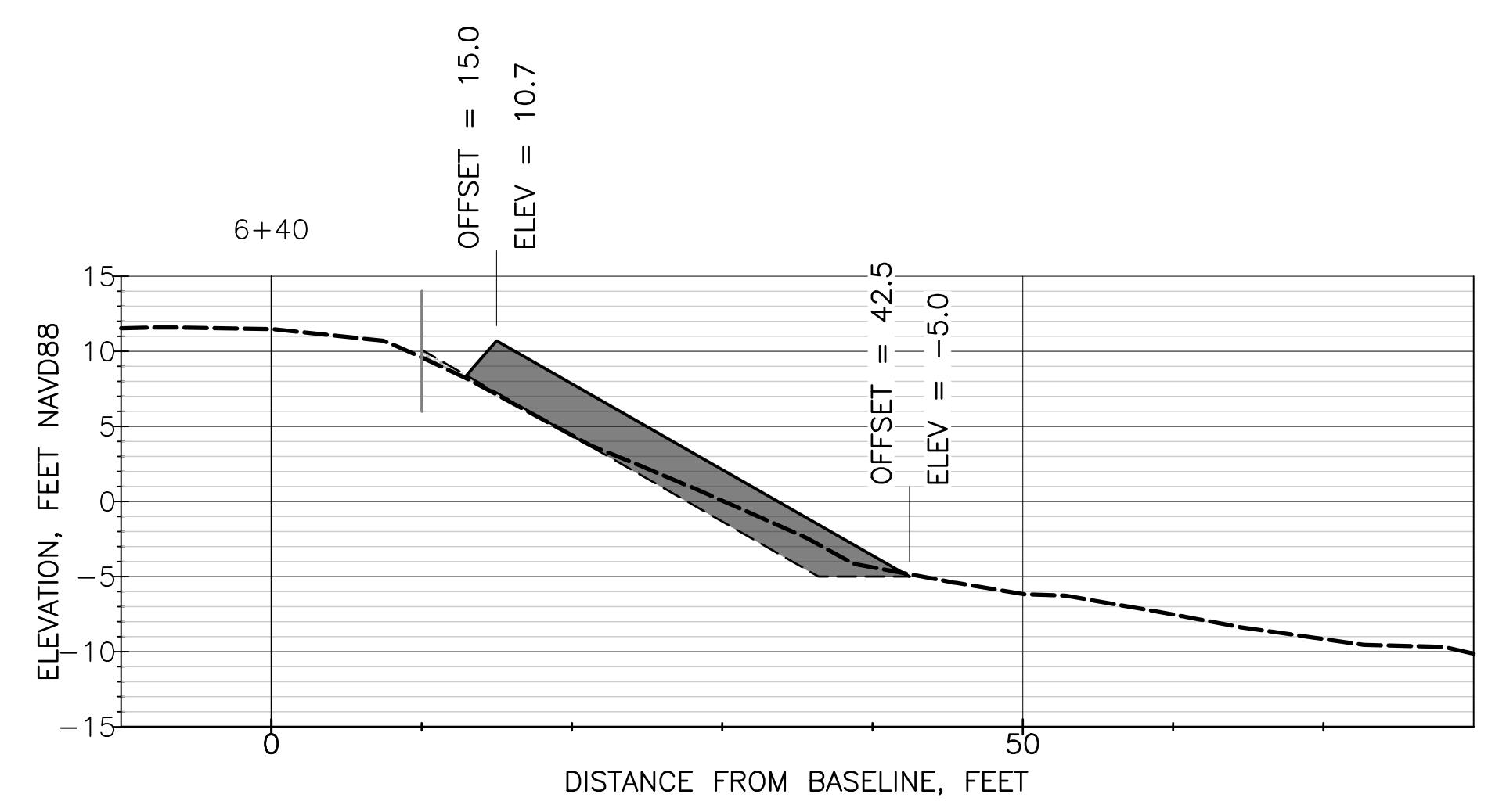
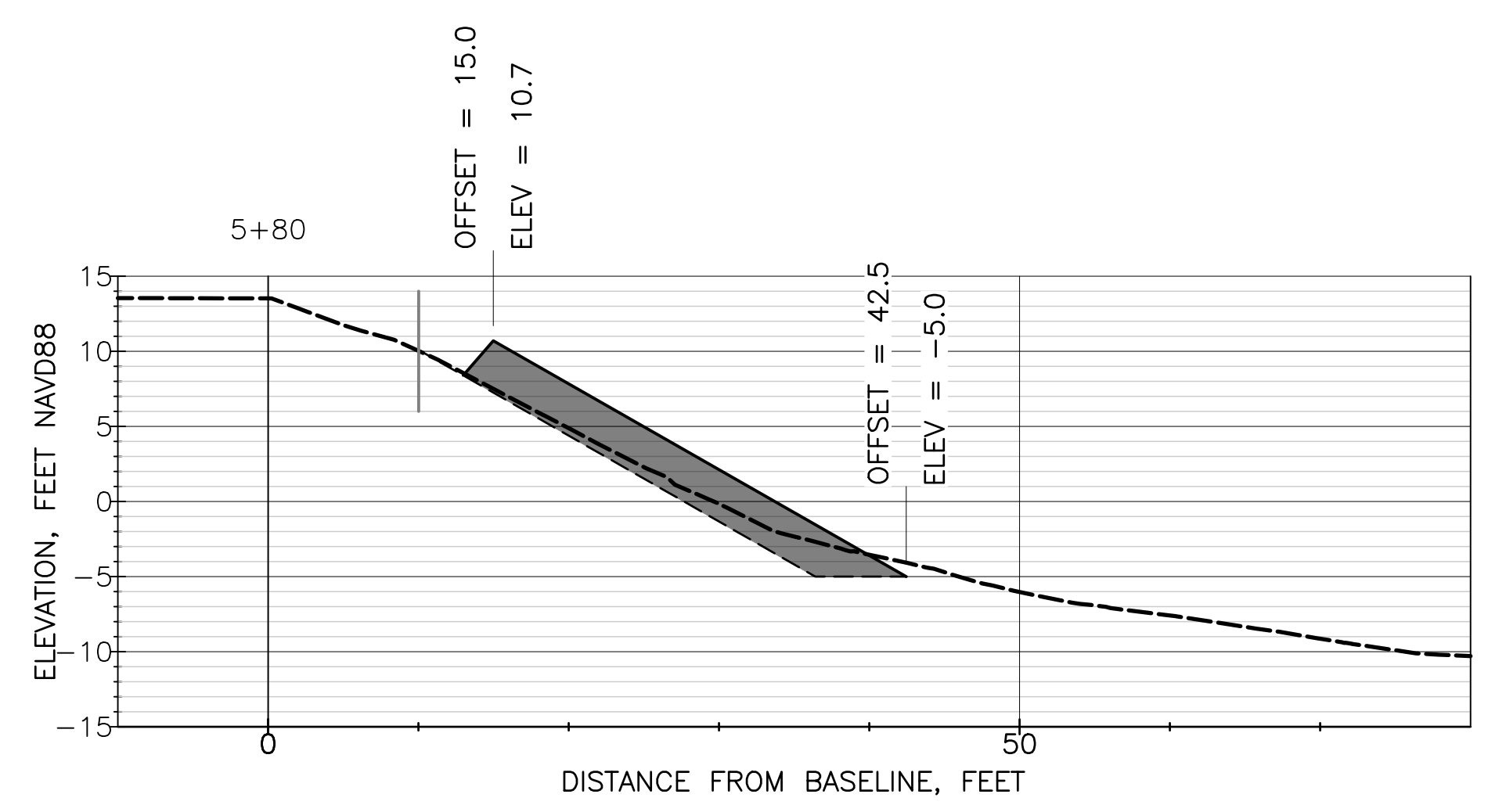
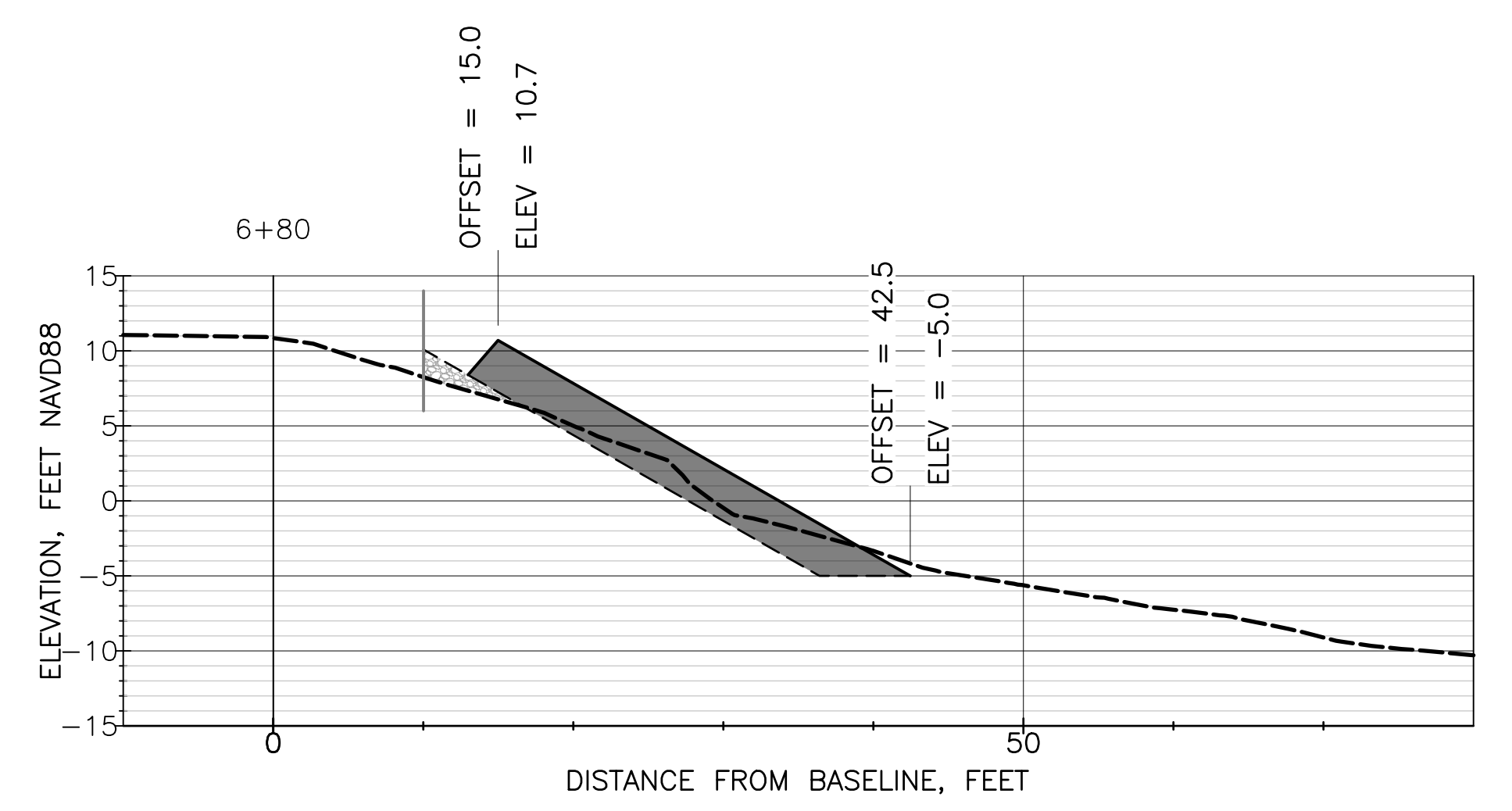
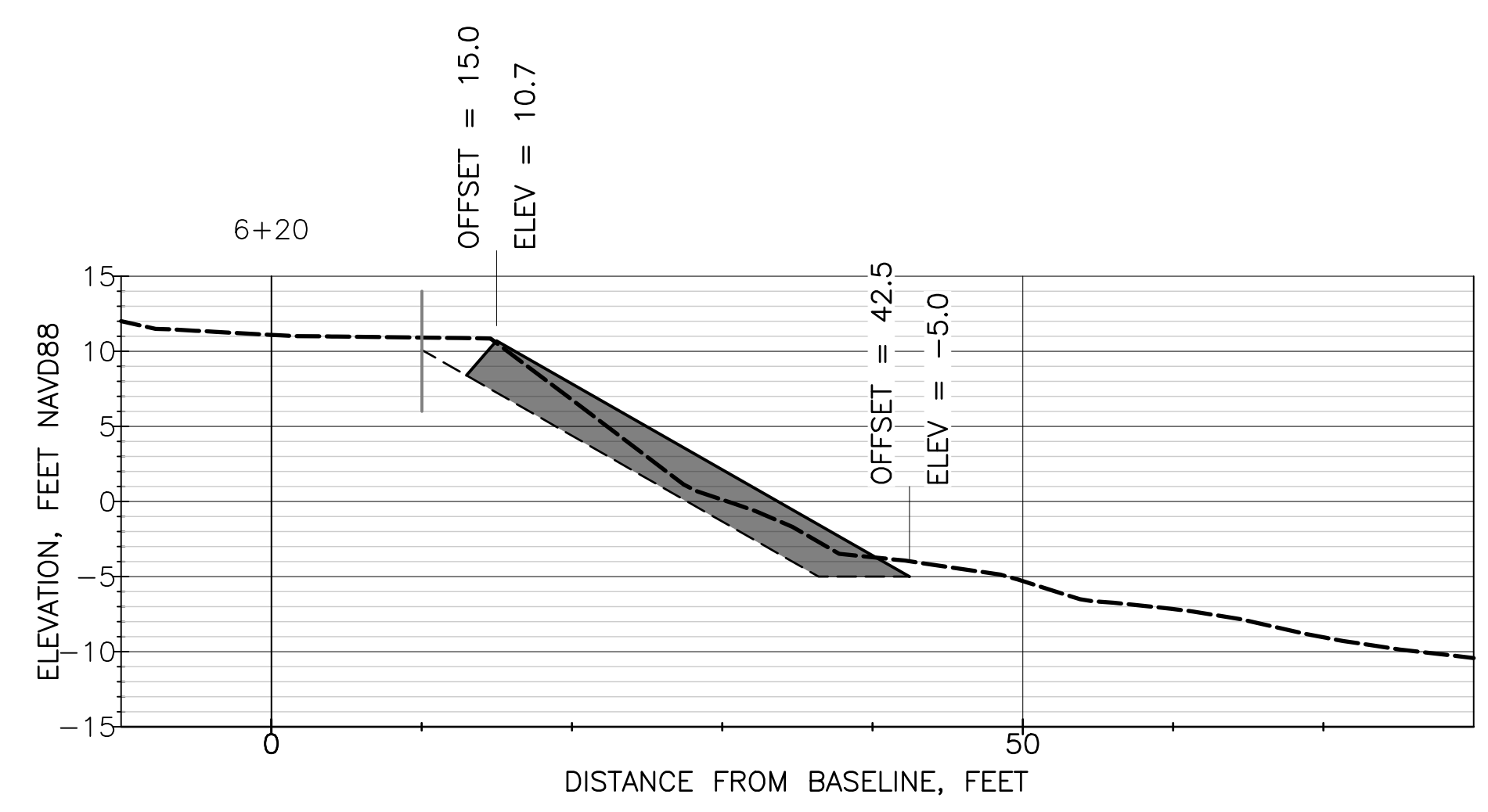
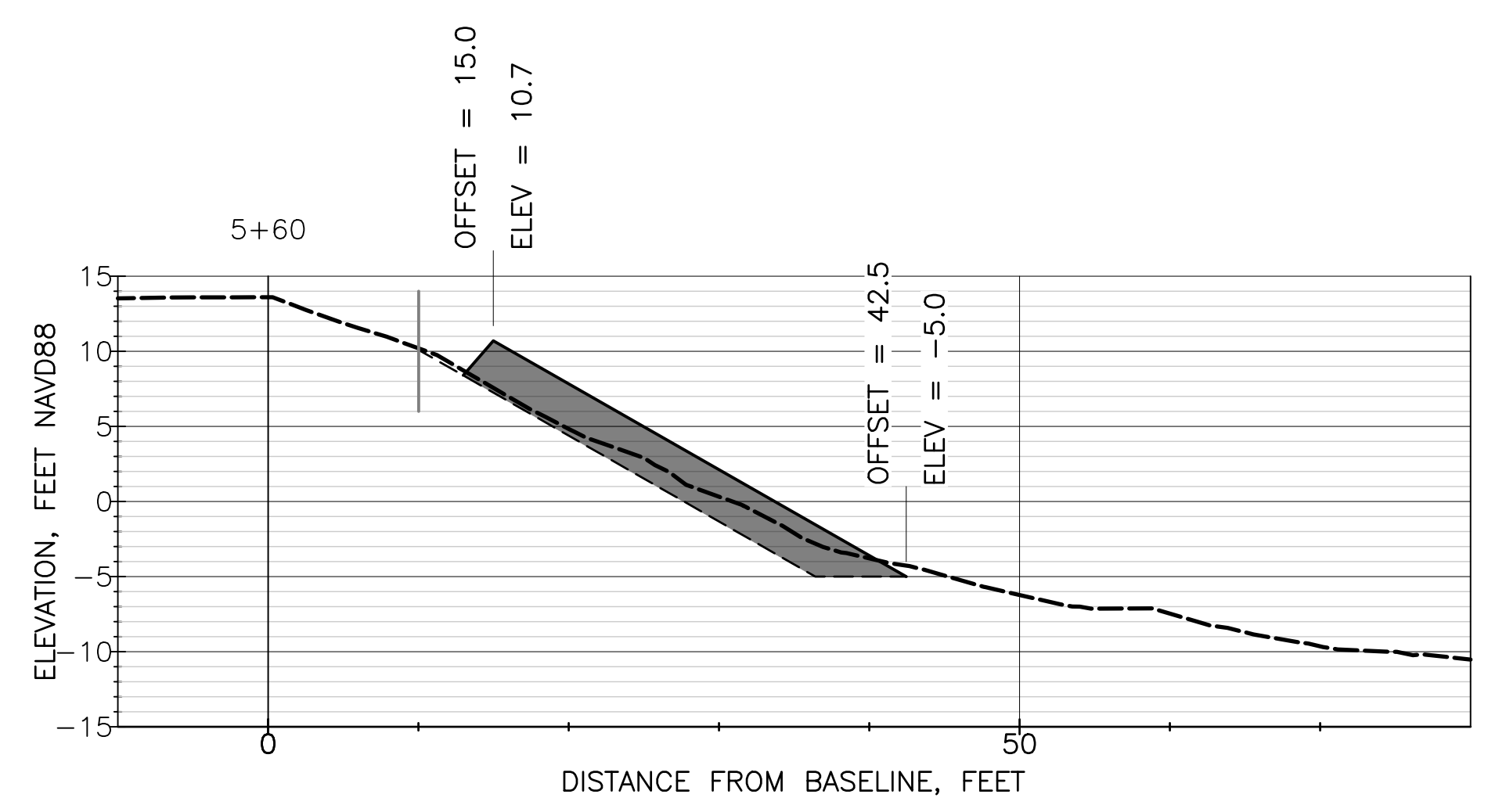
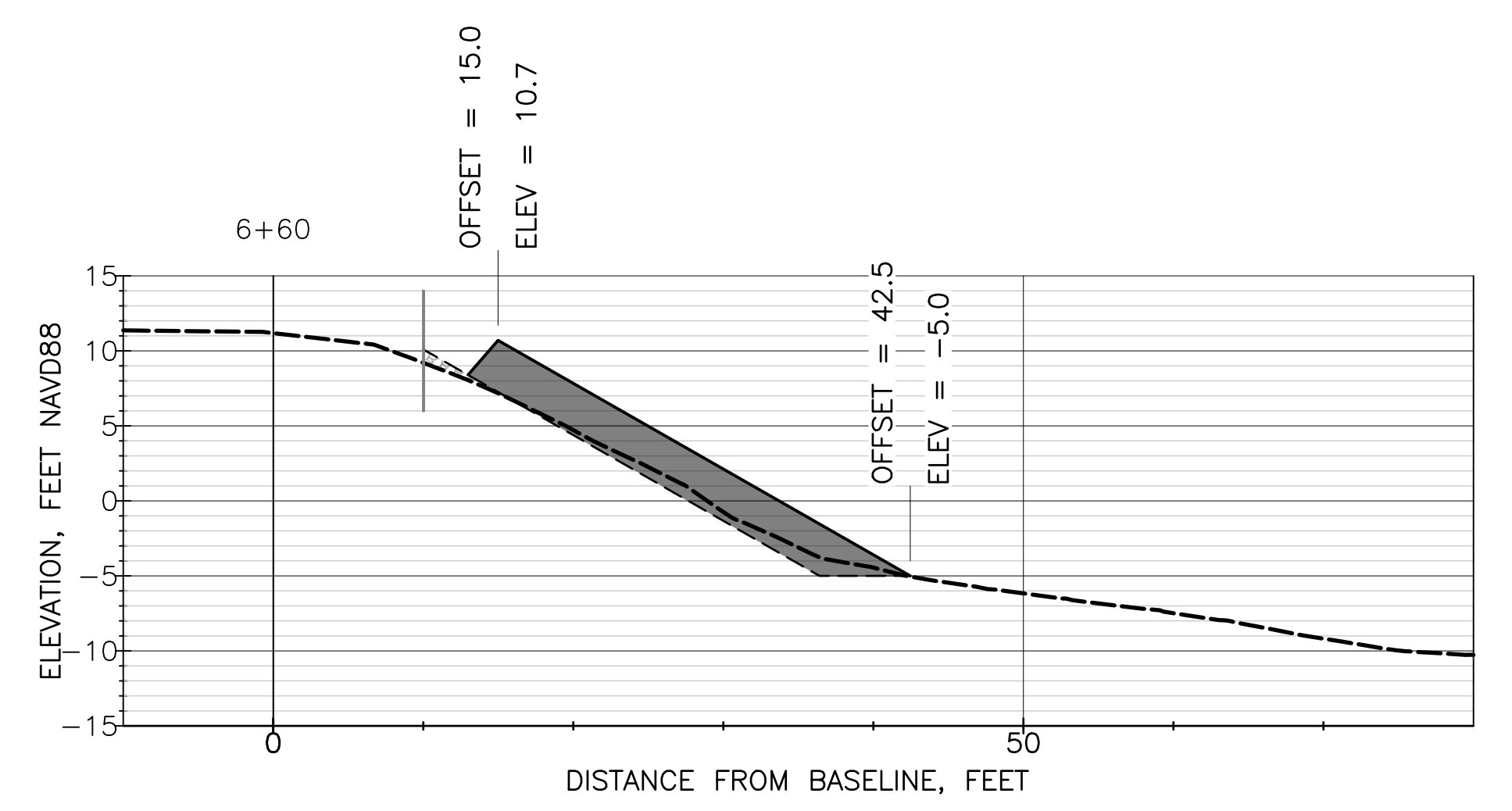
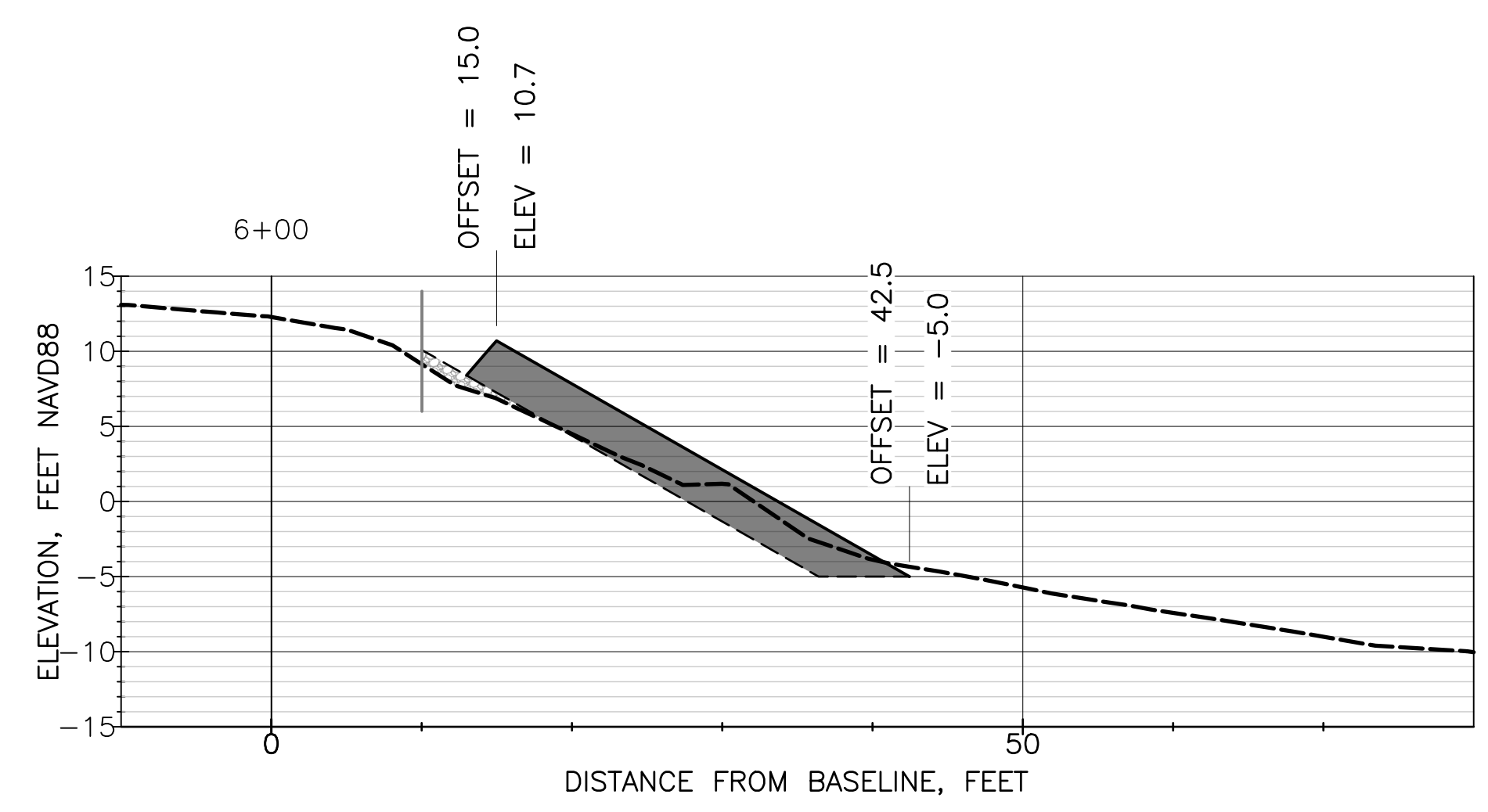
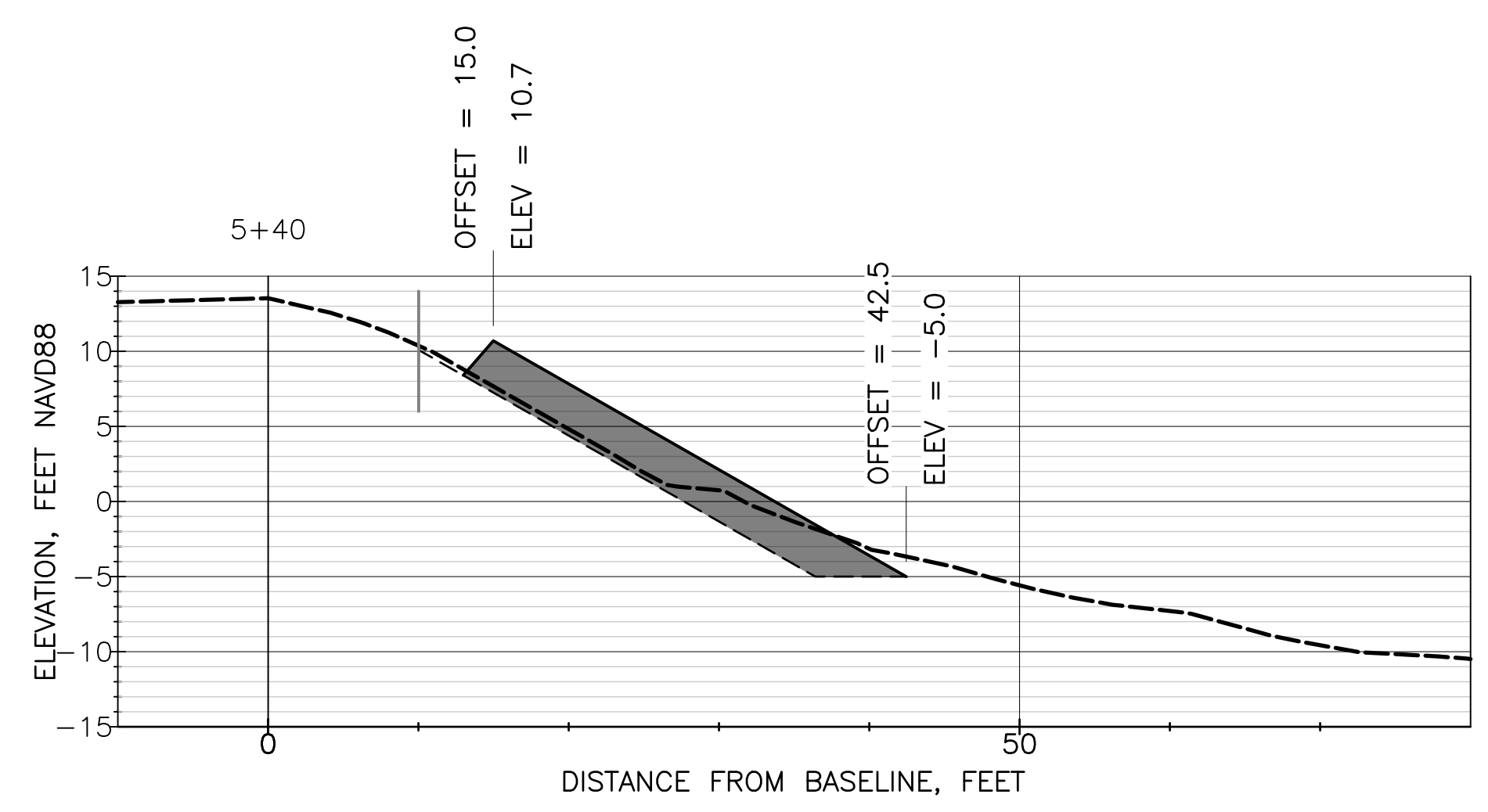
882A PATRIOT DRIVE
MOORPARK, CA 93021-3544
818-341-8133

NO.	DATE	REVISION

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COUNTY OF VENTURA
SECTIONS STA 3+60 TO 5+20
CHANNEL ISLANDS HARBOR PENINSULA REVETMENT REPAIR

SHEET	13	OF	19
JOB NO.	CFC-1144		
SCALE	AS SHOWN		
DATE	7/1/2022		



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FRONTIERS

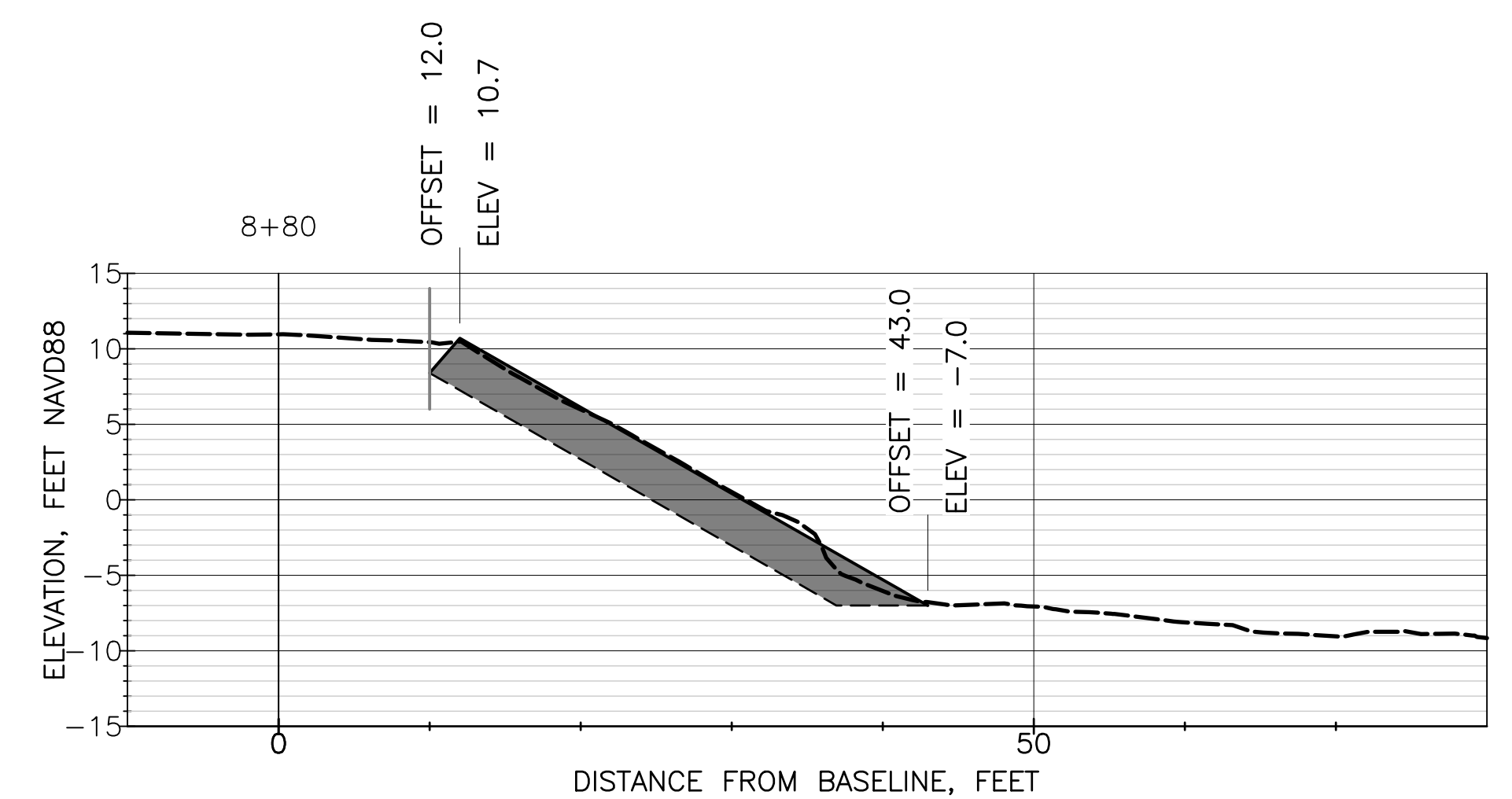
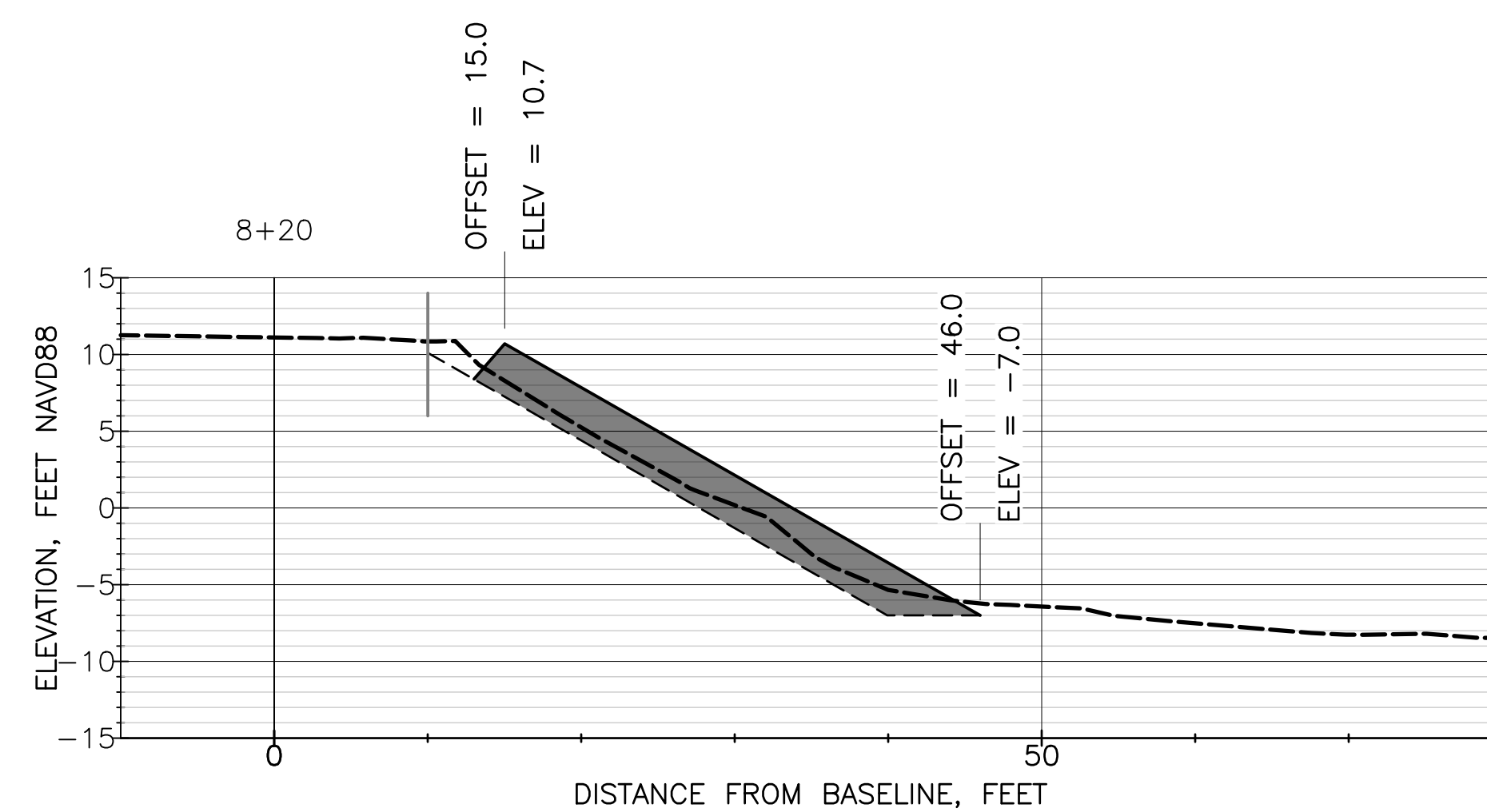
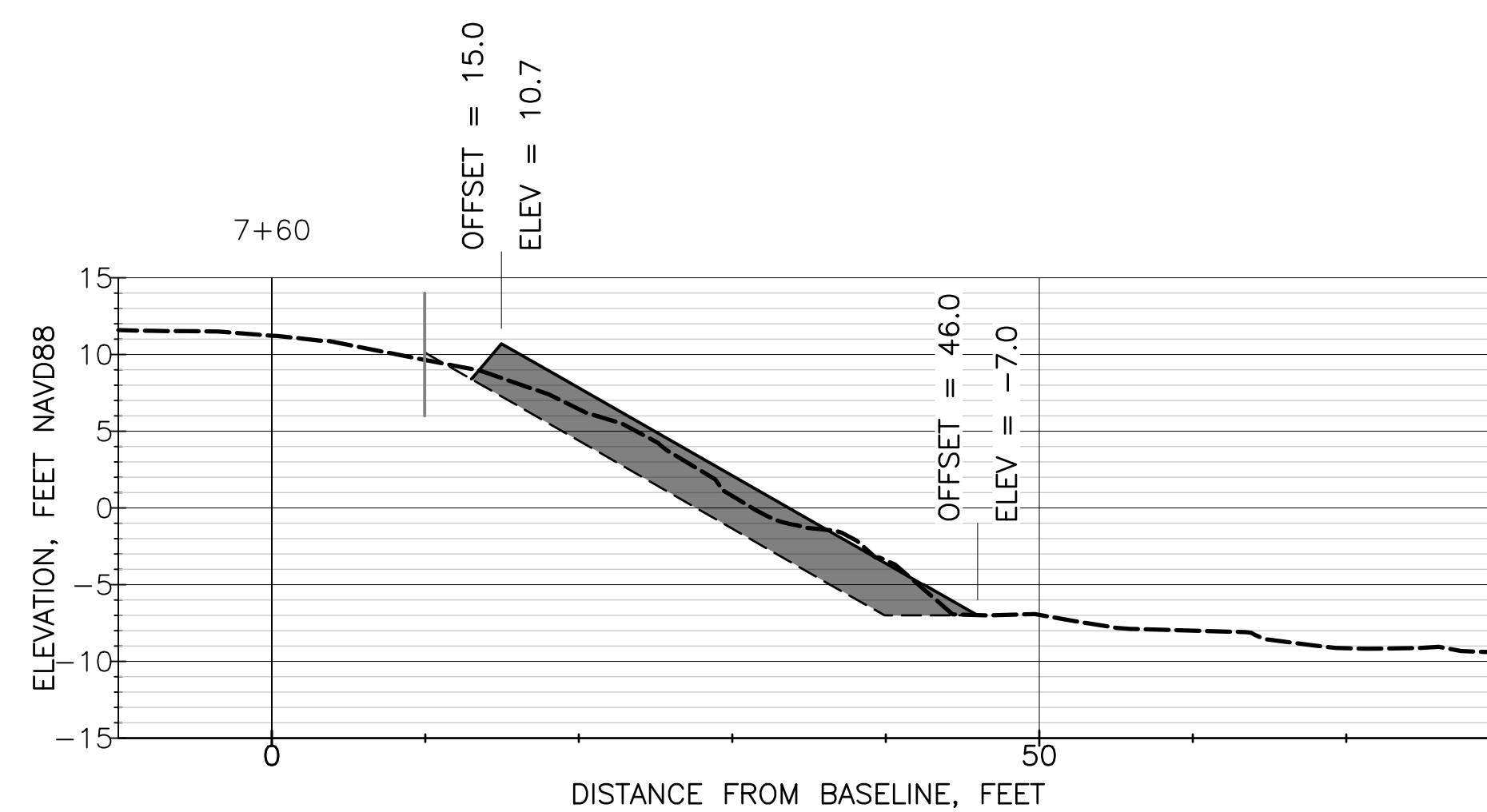
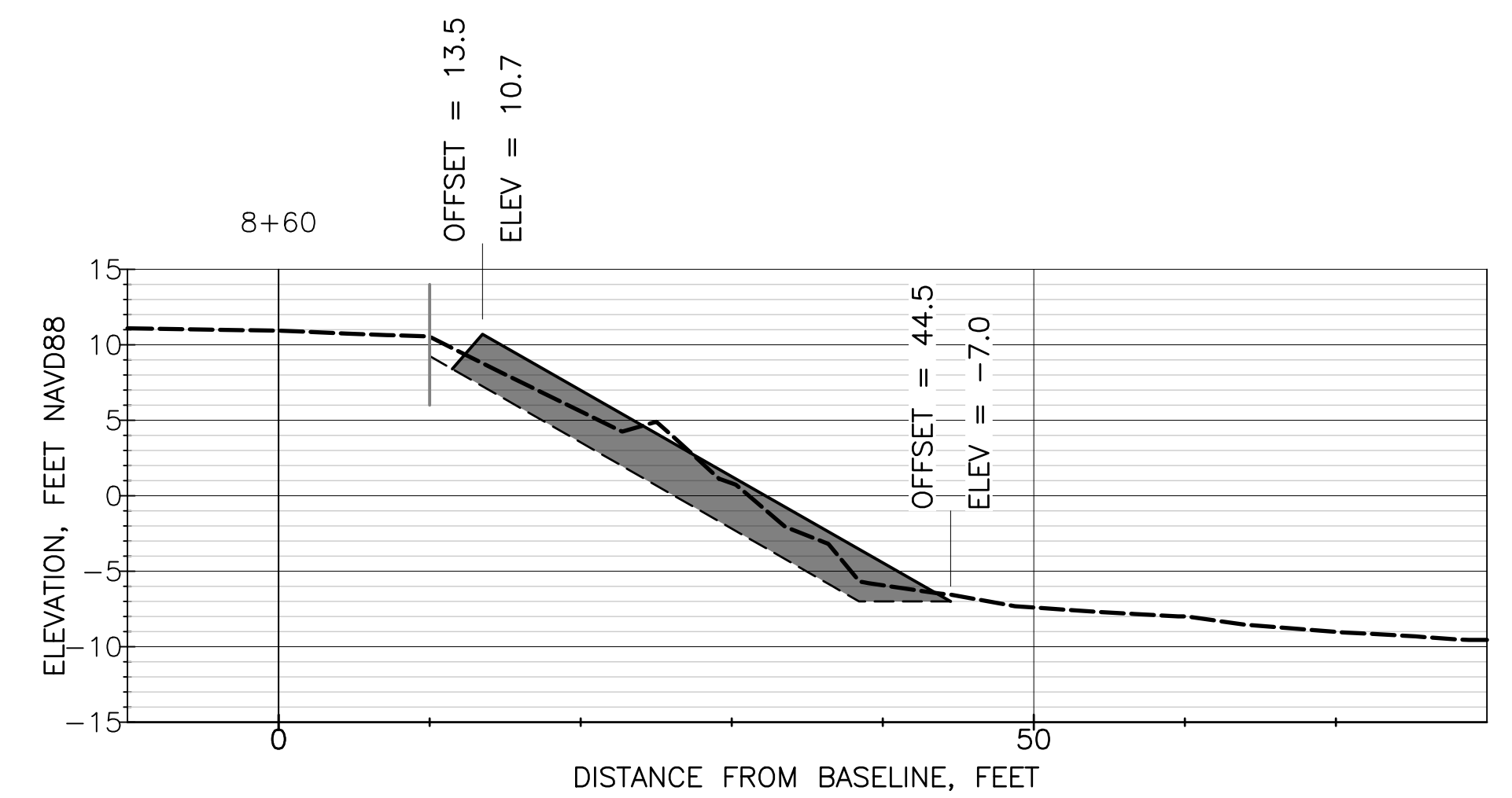
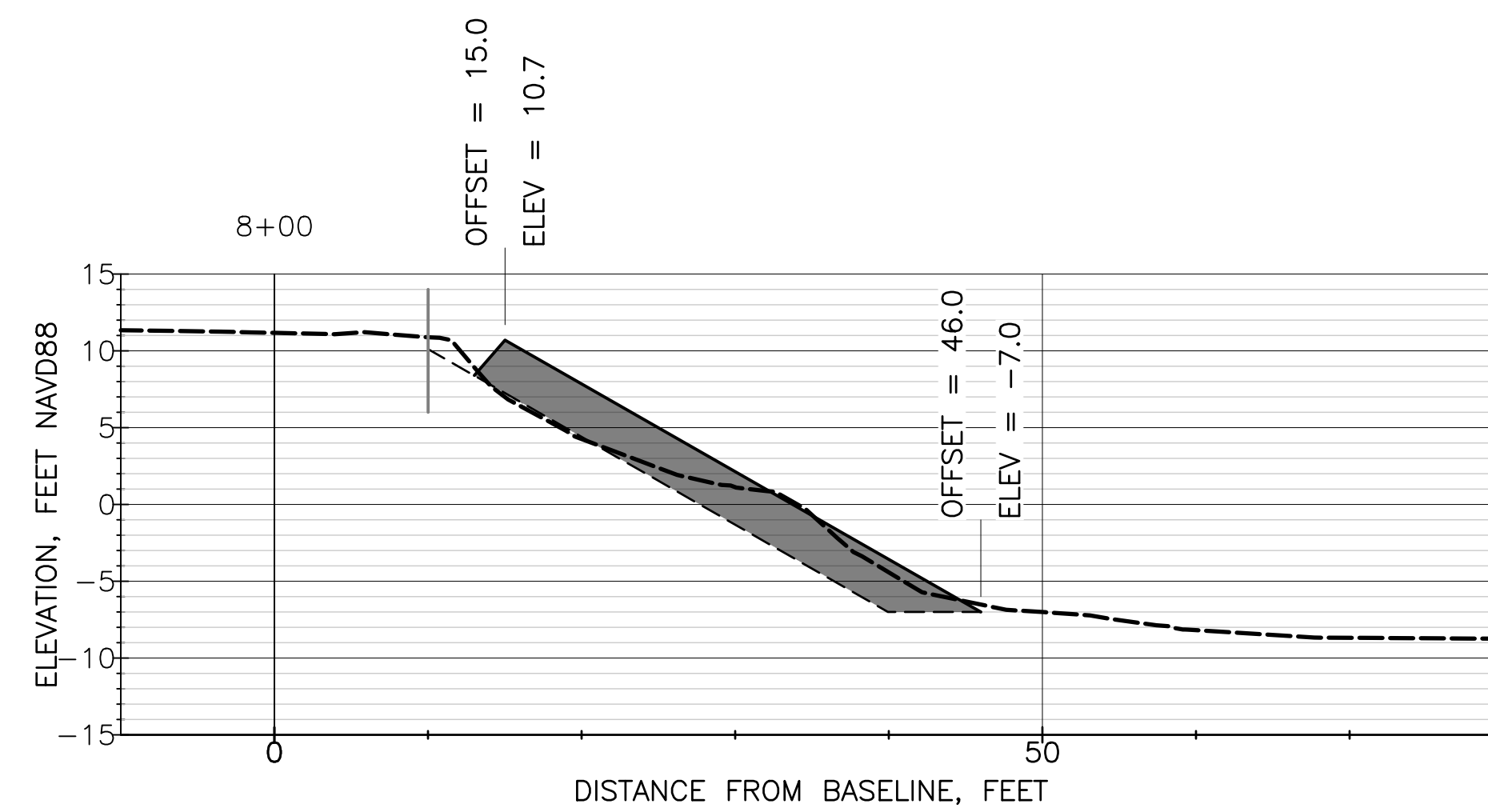
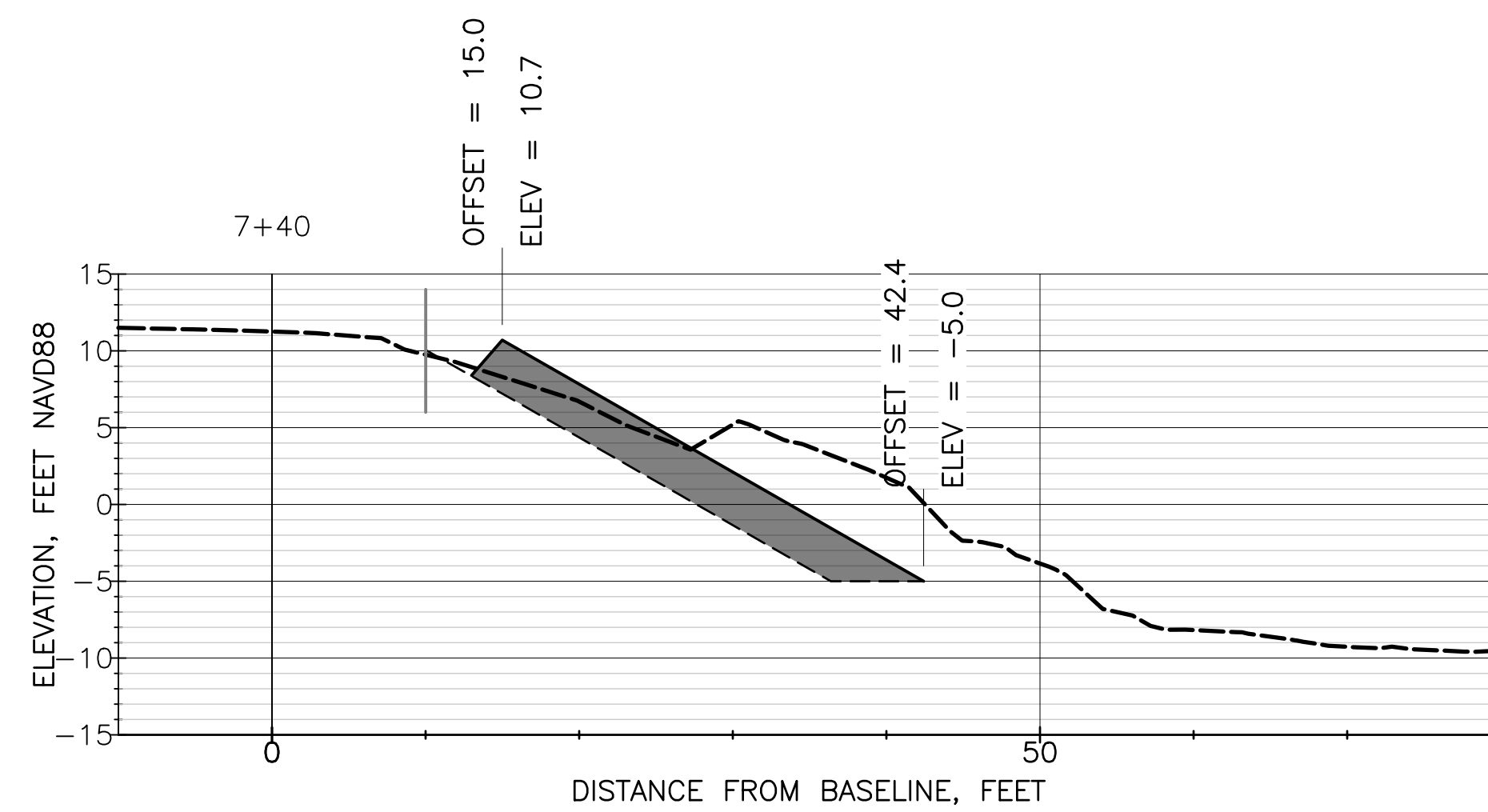
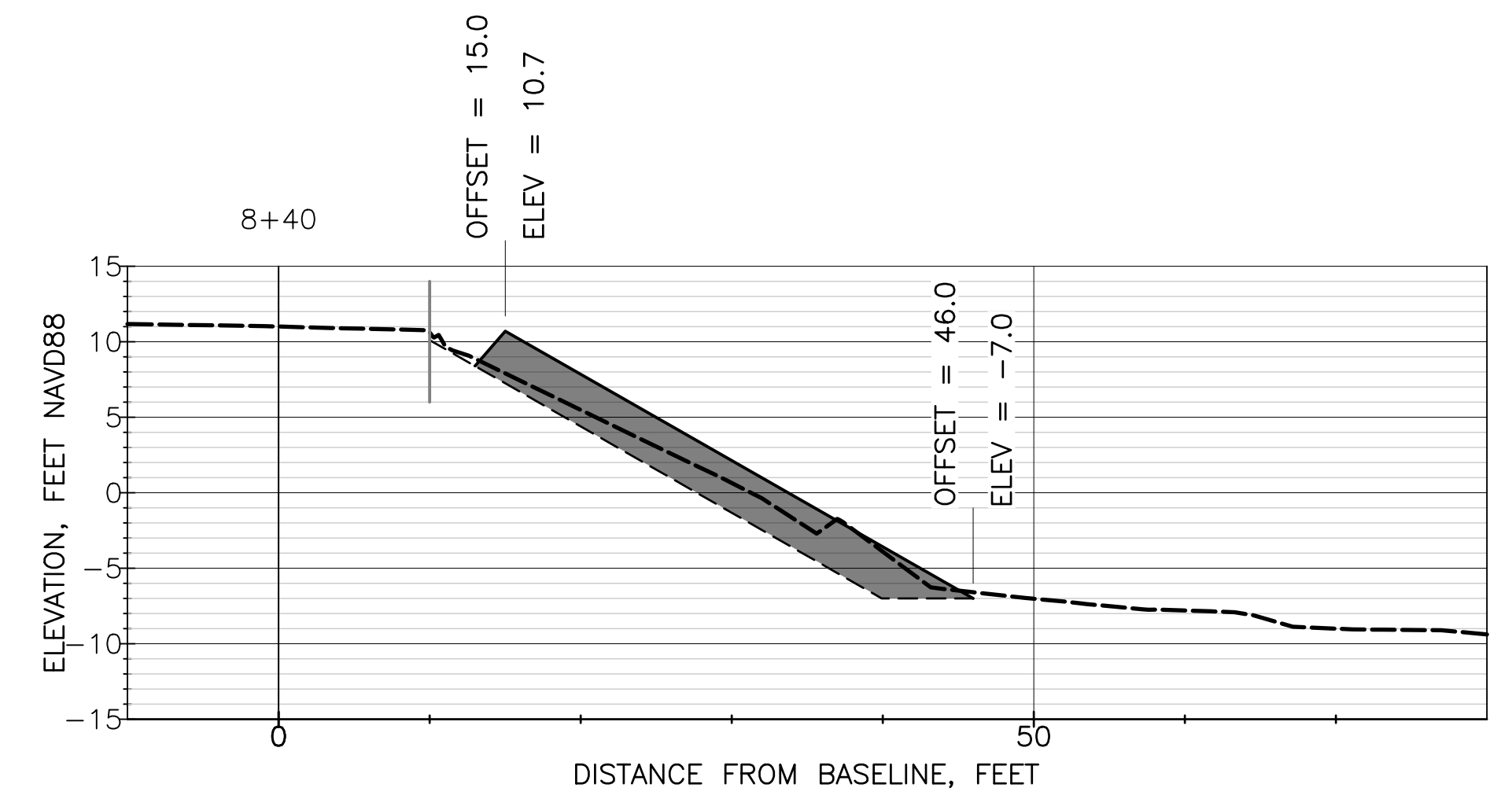
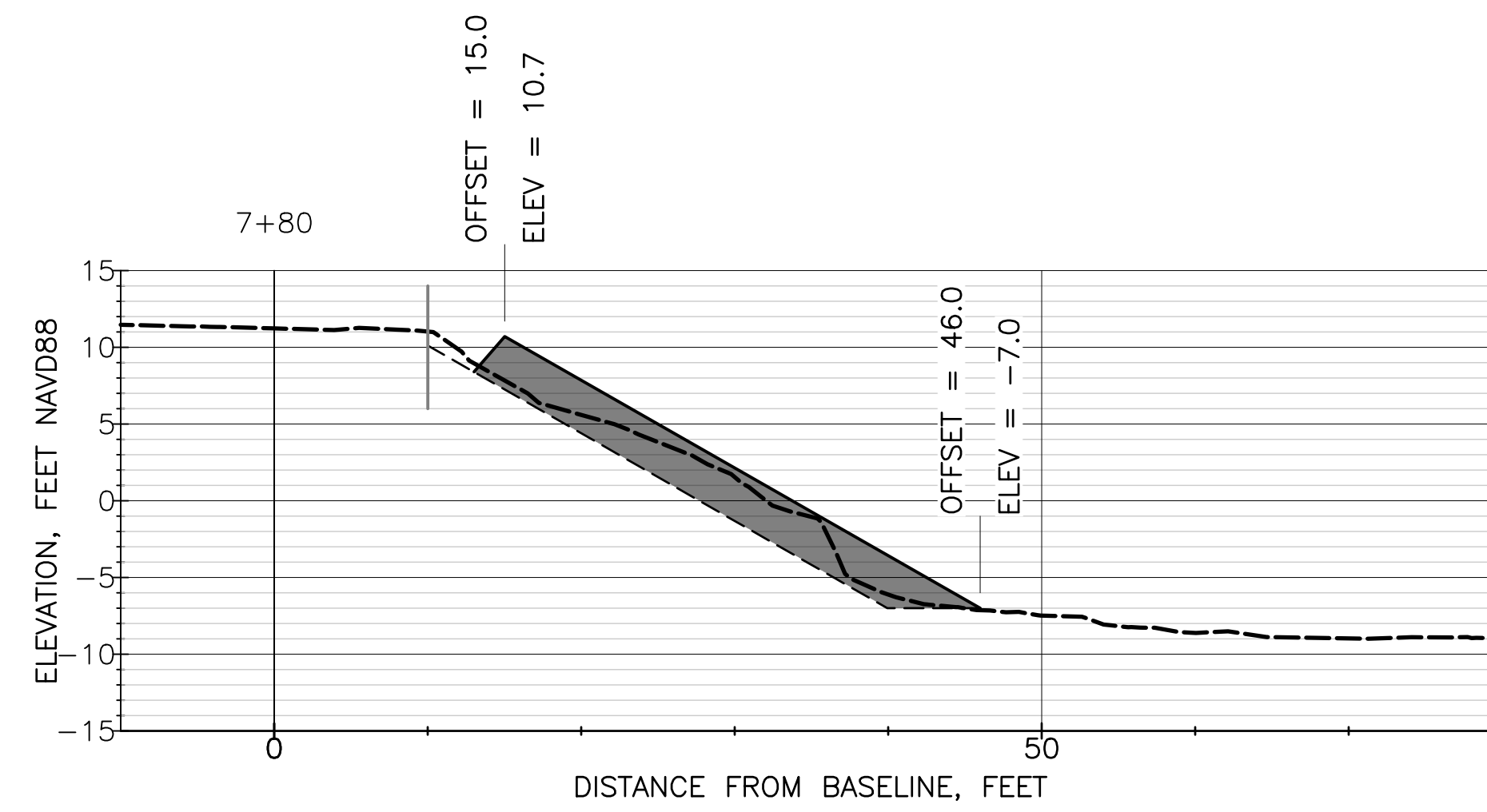
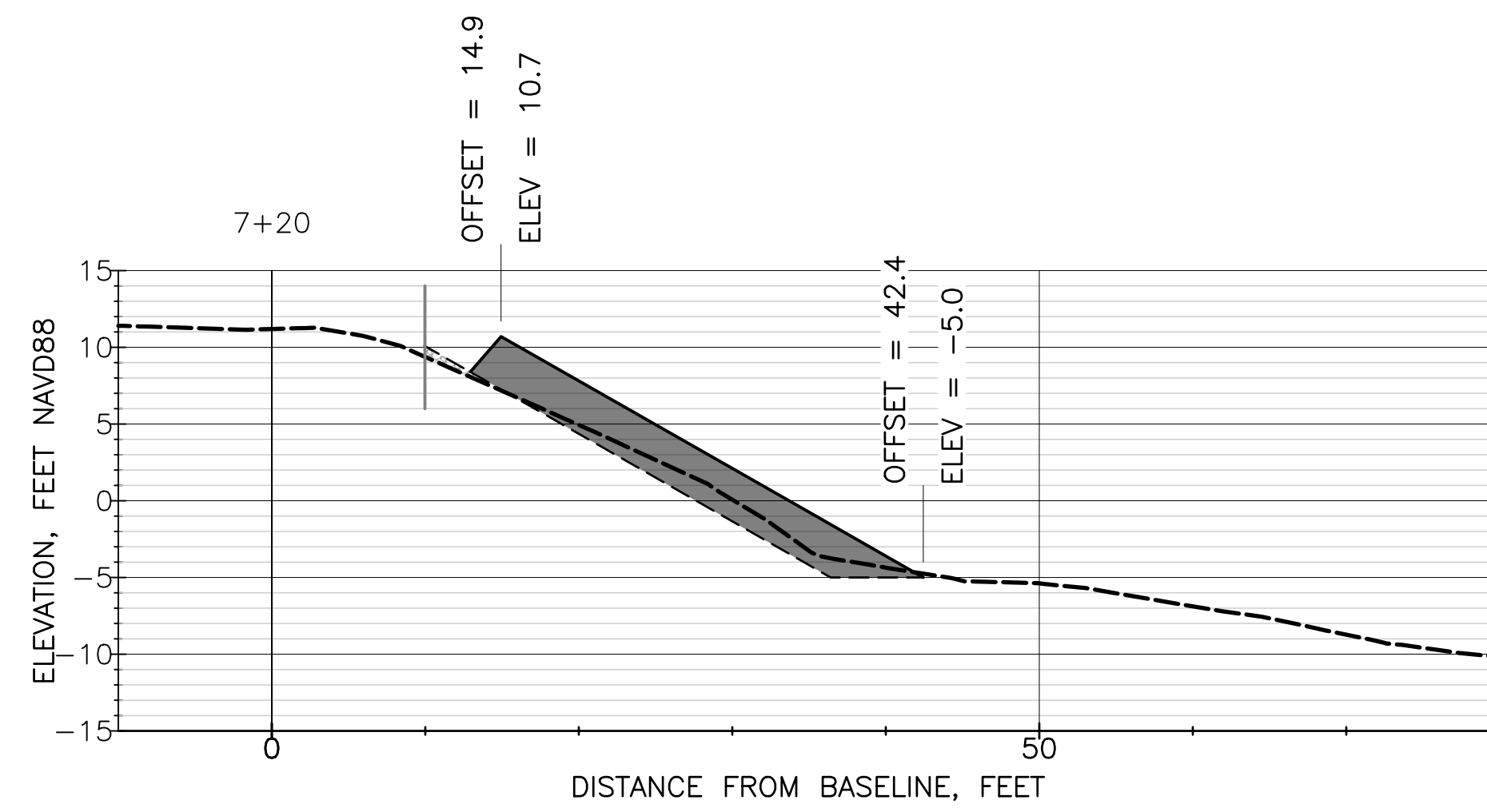
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MOORPARK, CA 93021-3544
818-341-8133

NO.	DATE	REVISION

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COUNTY OF VENTURA
SECTIONS STA 5+40 TO 7+00
CHANNEL ISLANDS HARBOR PENINSULA REVETMENT REPAIR

SHEET	14	OF	19
JOB NO.	CFC-1144		
SCALE	AS SHOWN		
DATE	7/1/2022		



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882A PATRIOT DRIVE
MOORPARK, CA 93021-3544
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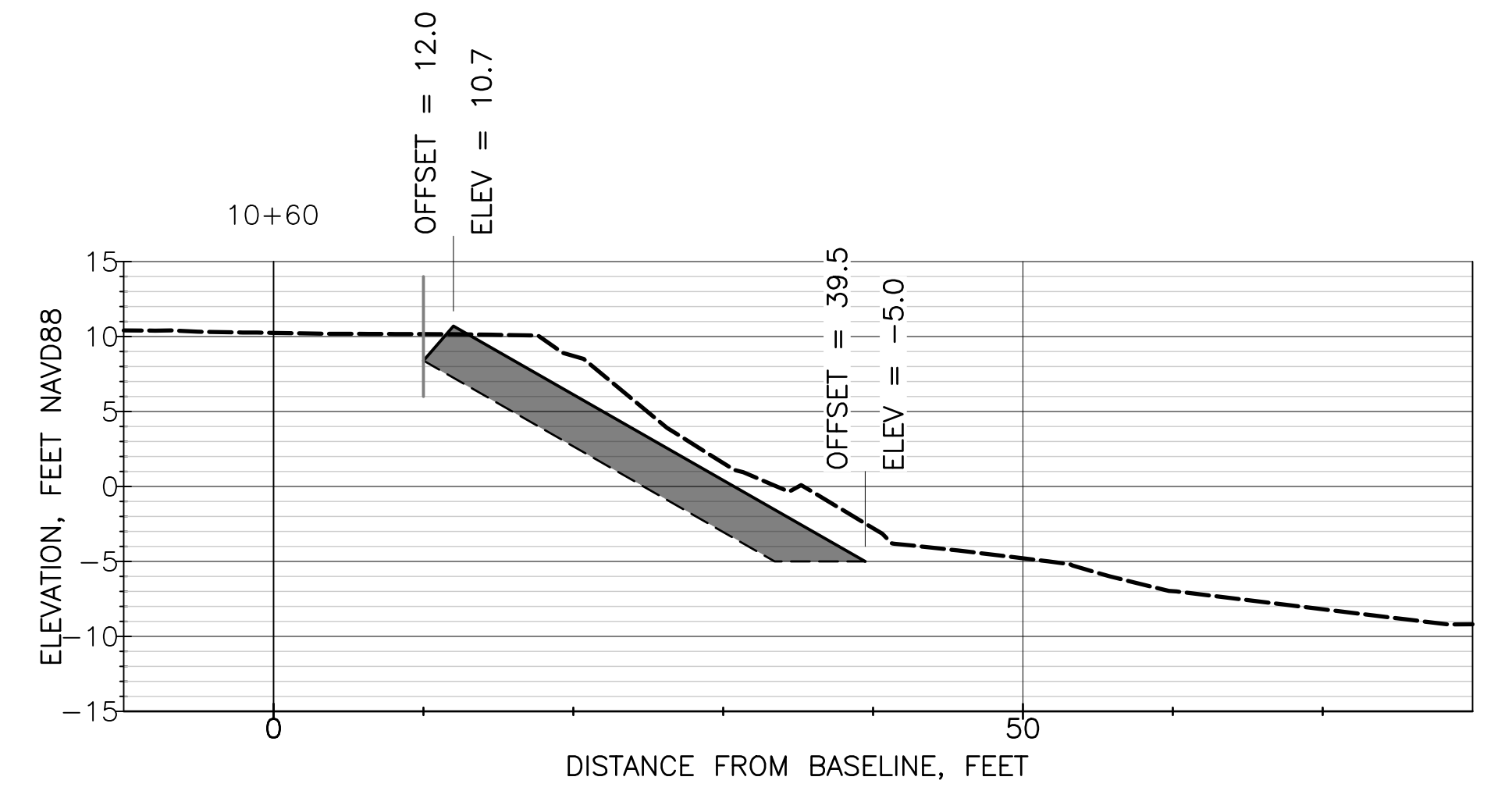
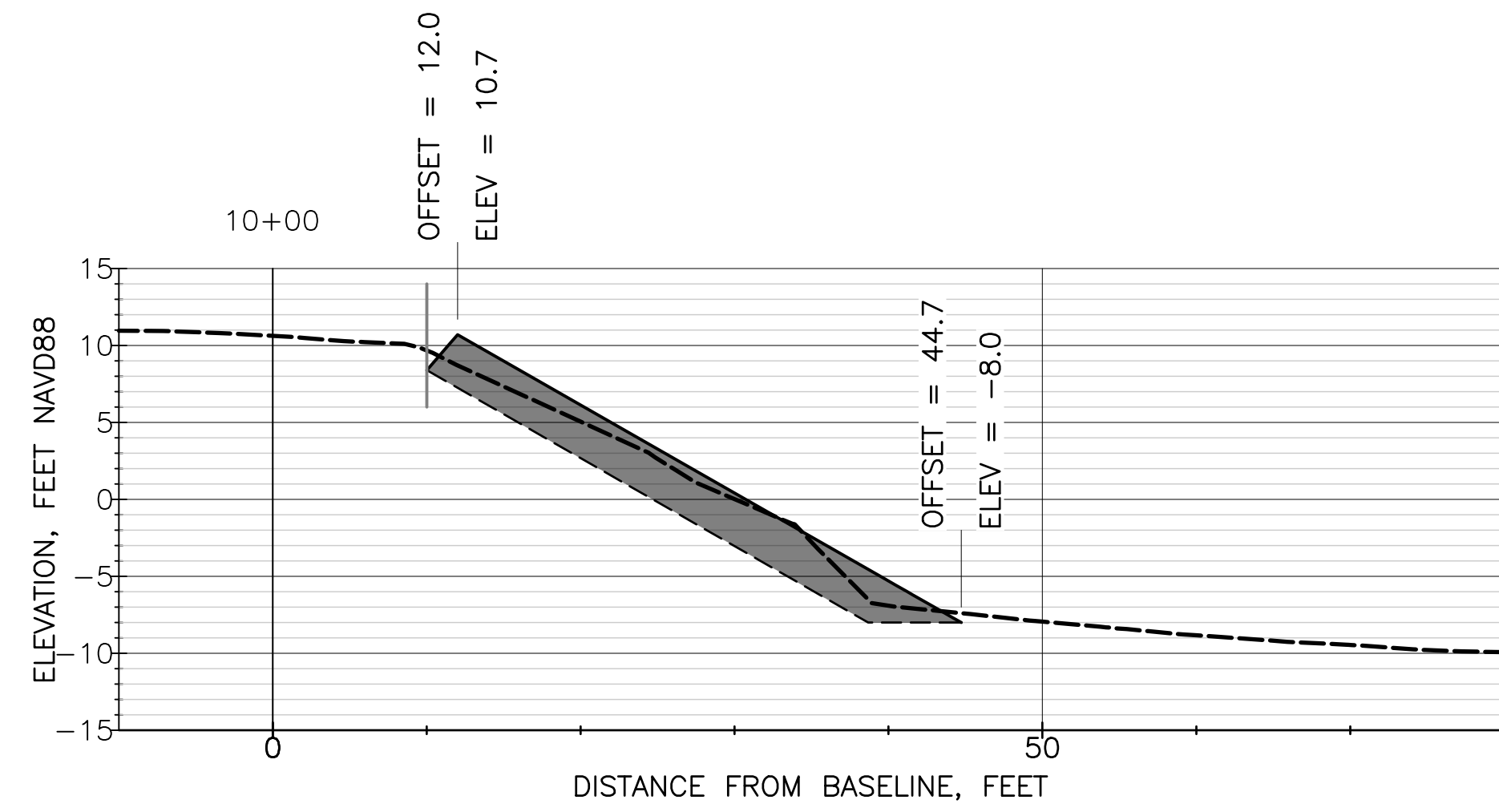
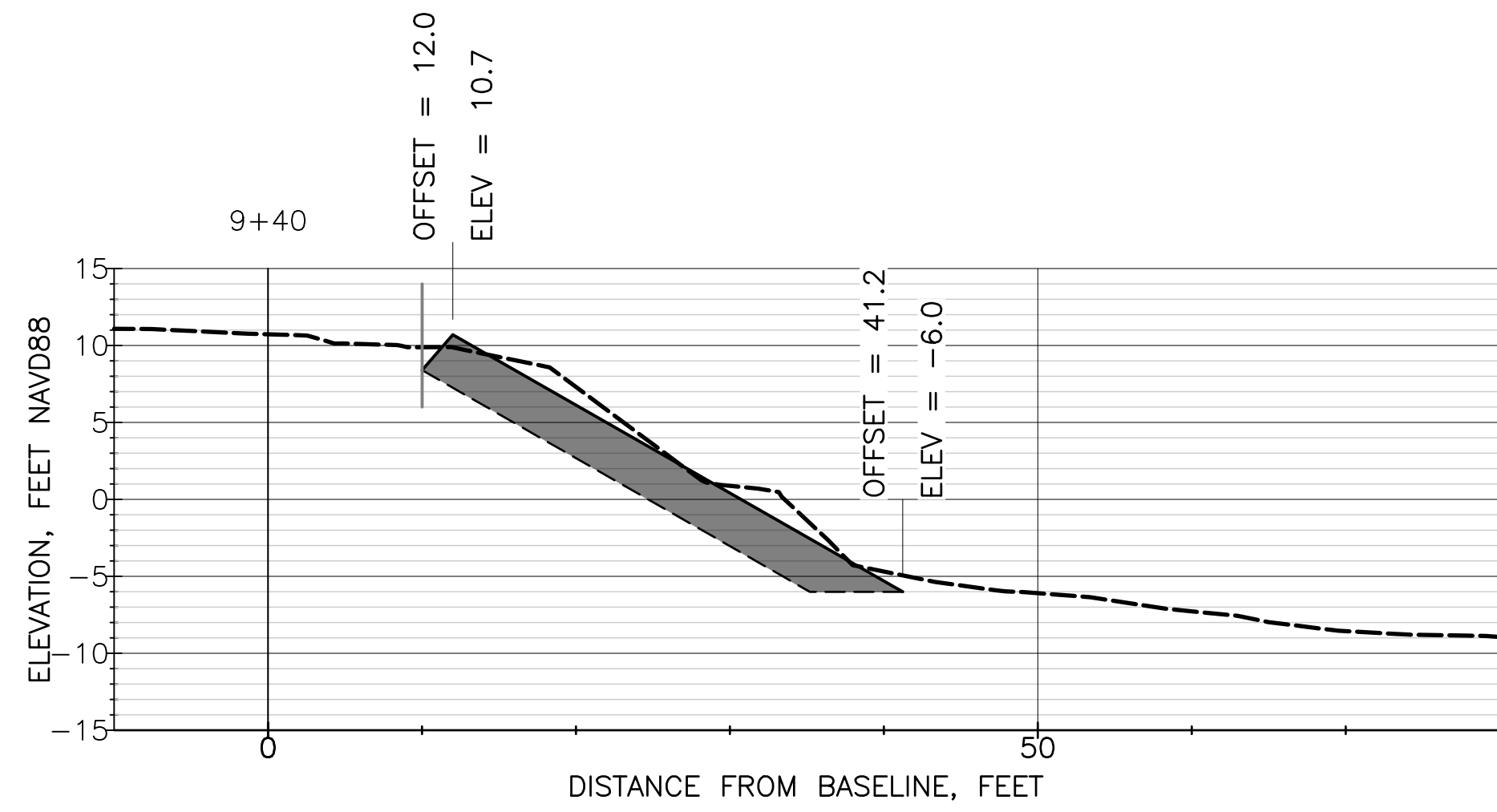
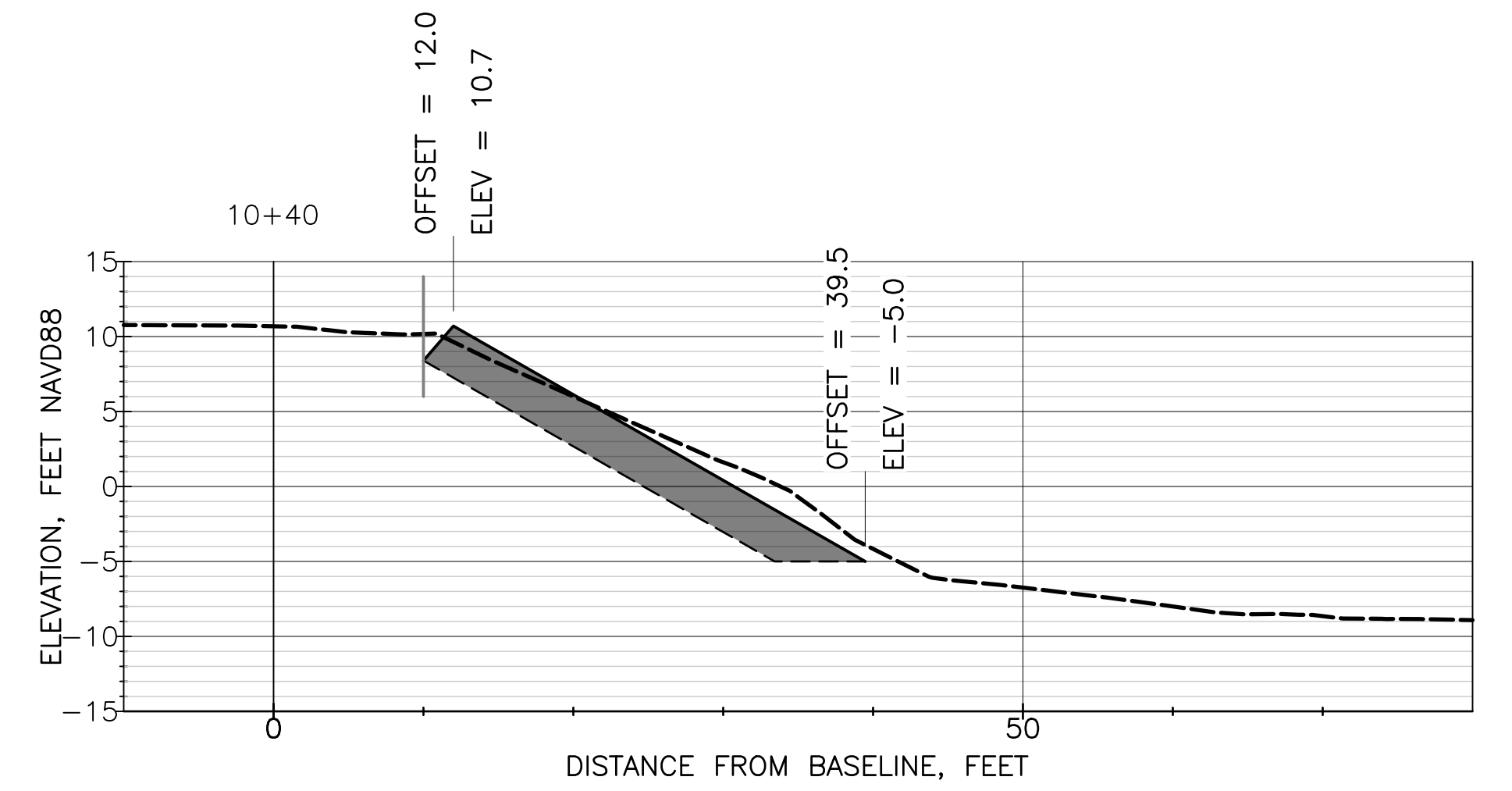
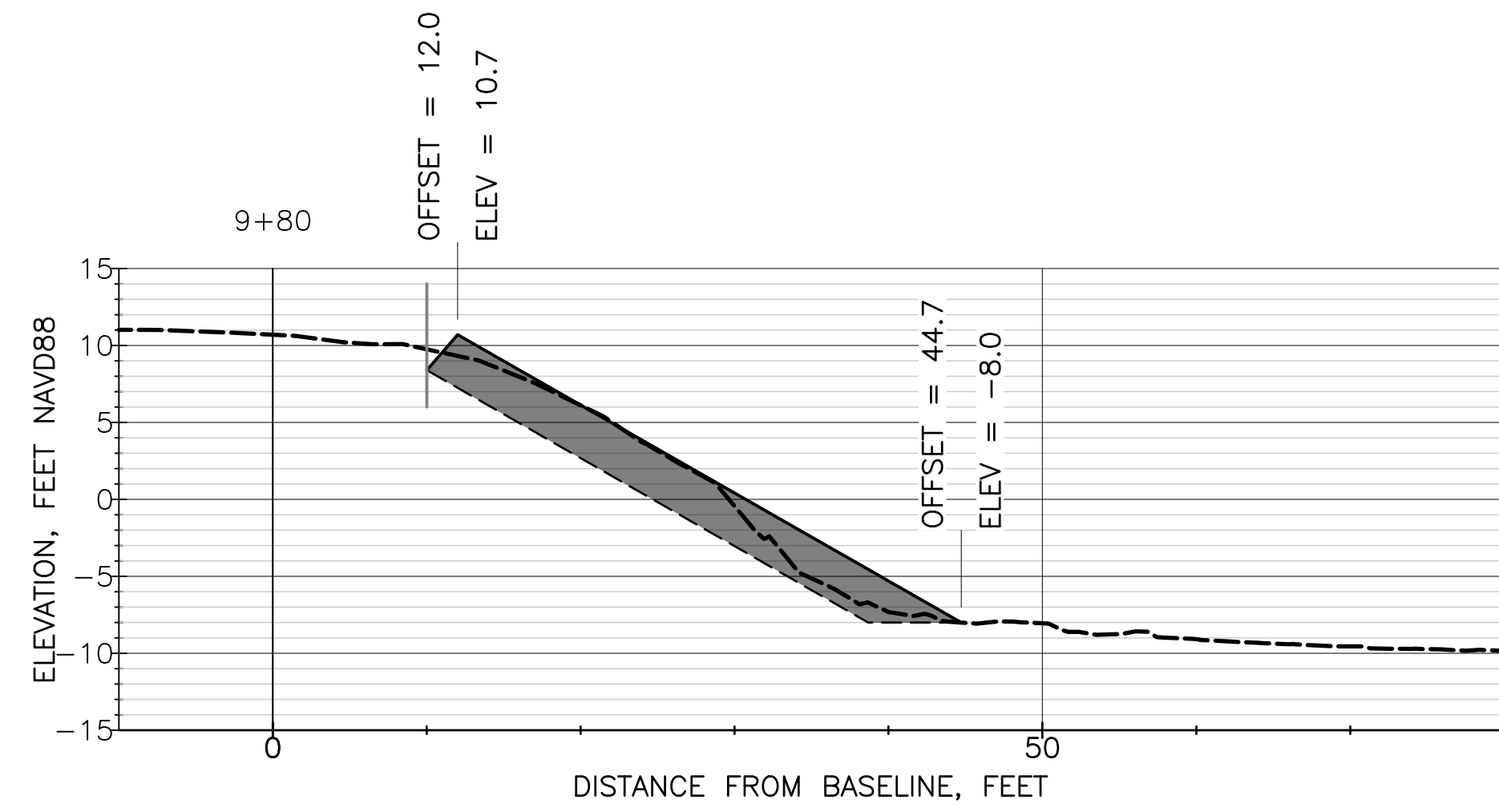
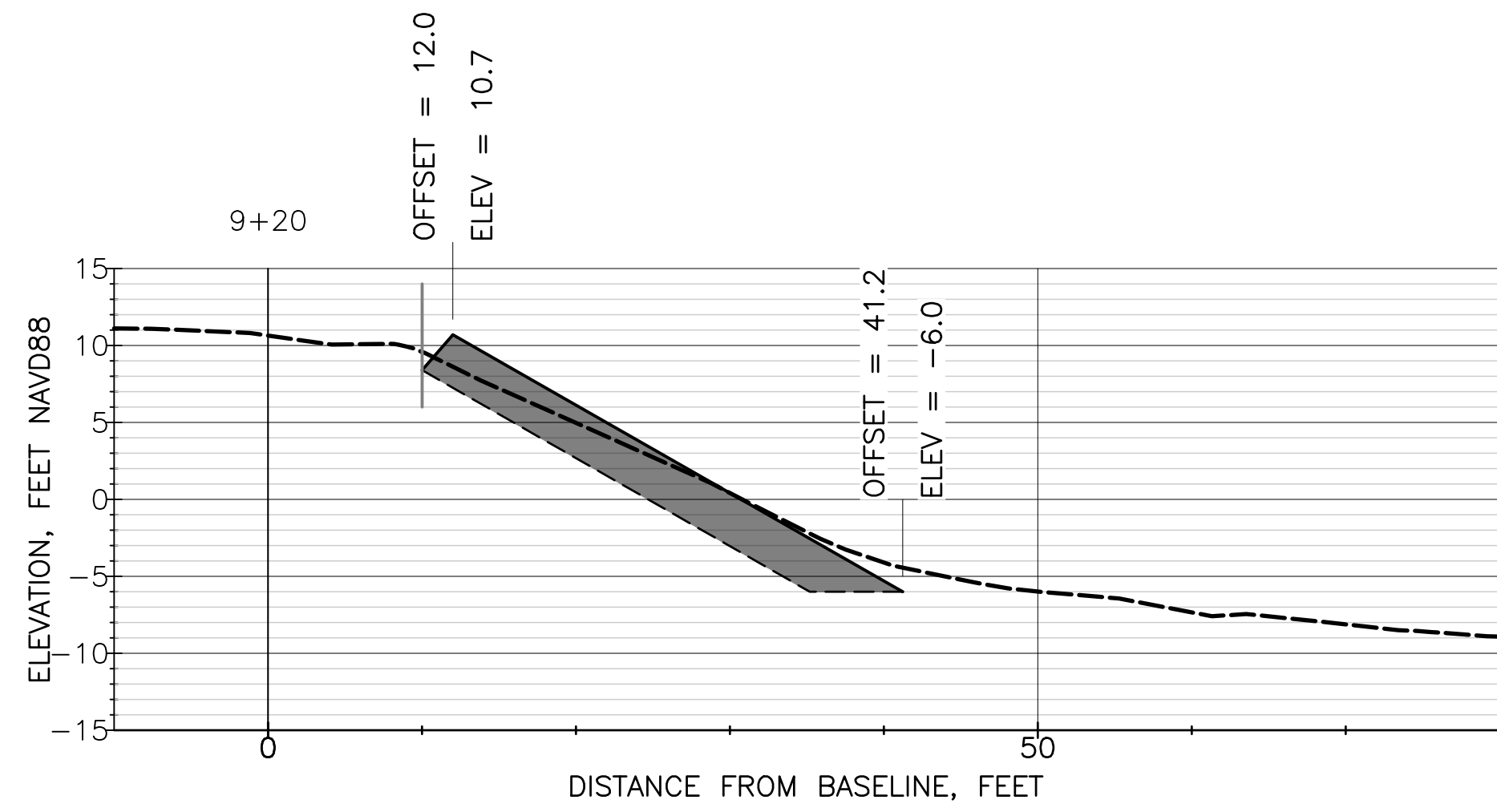
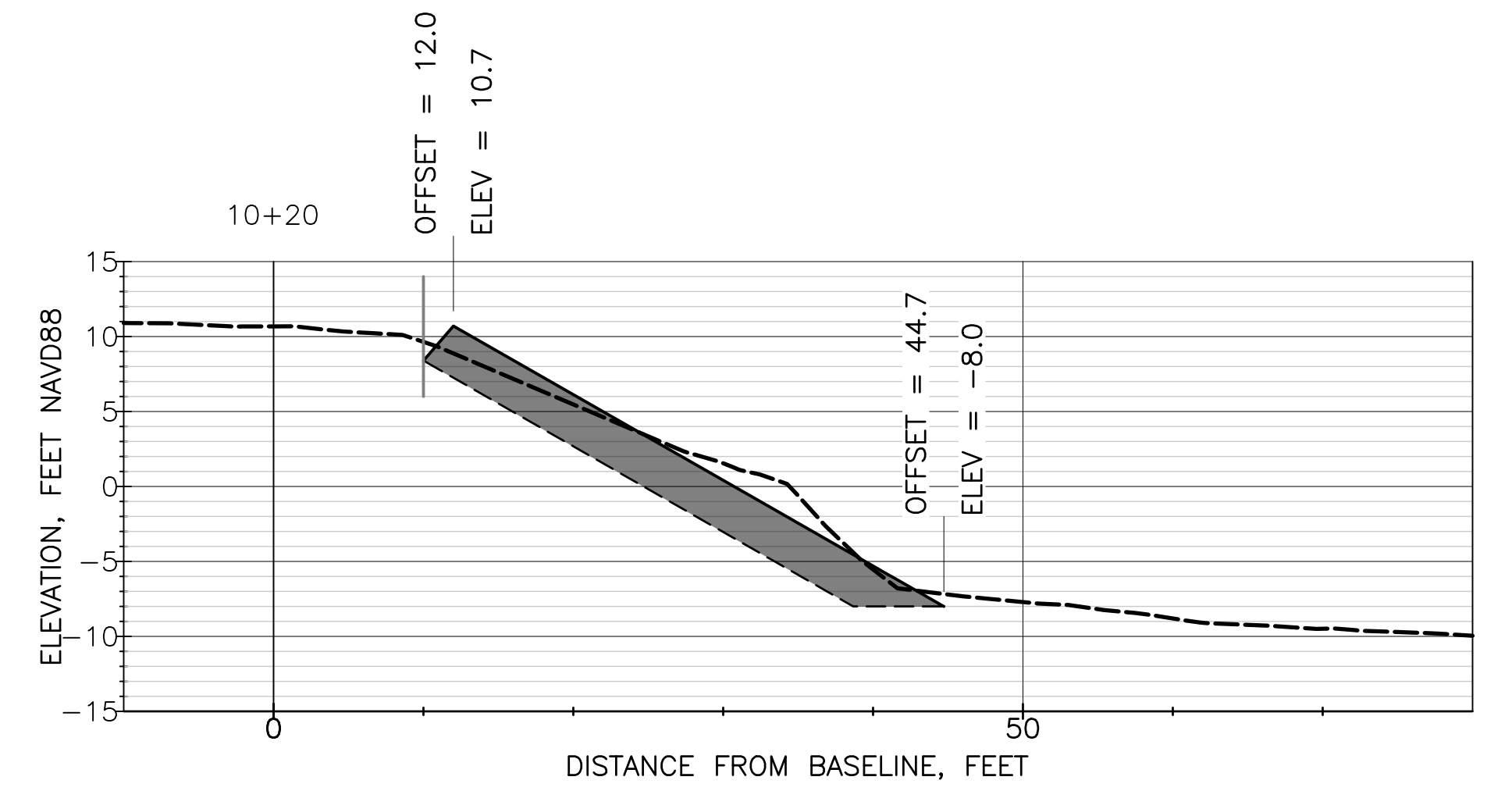
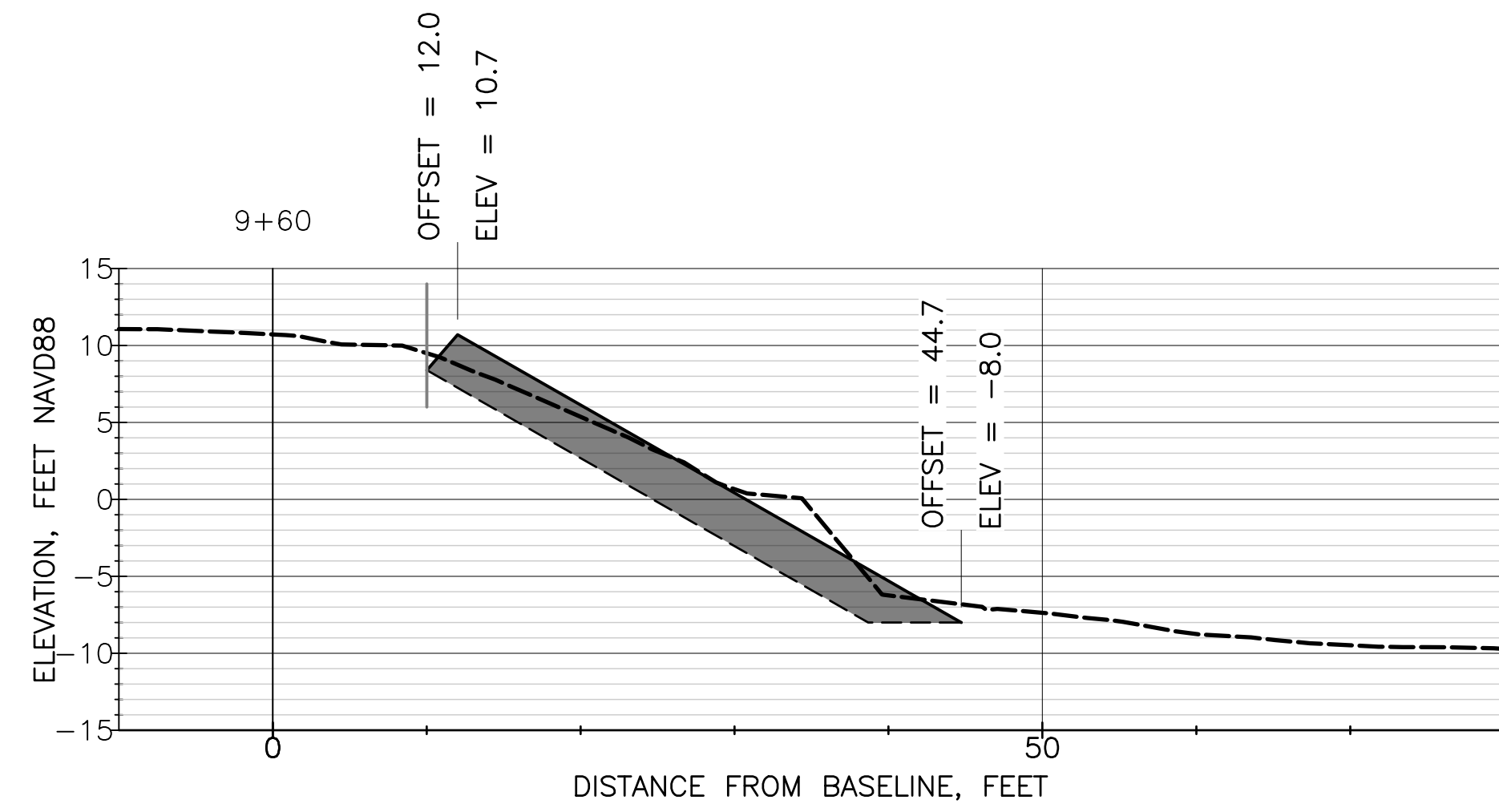
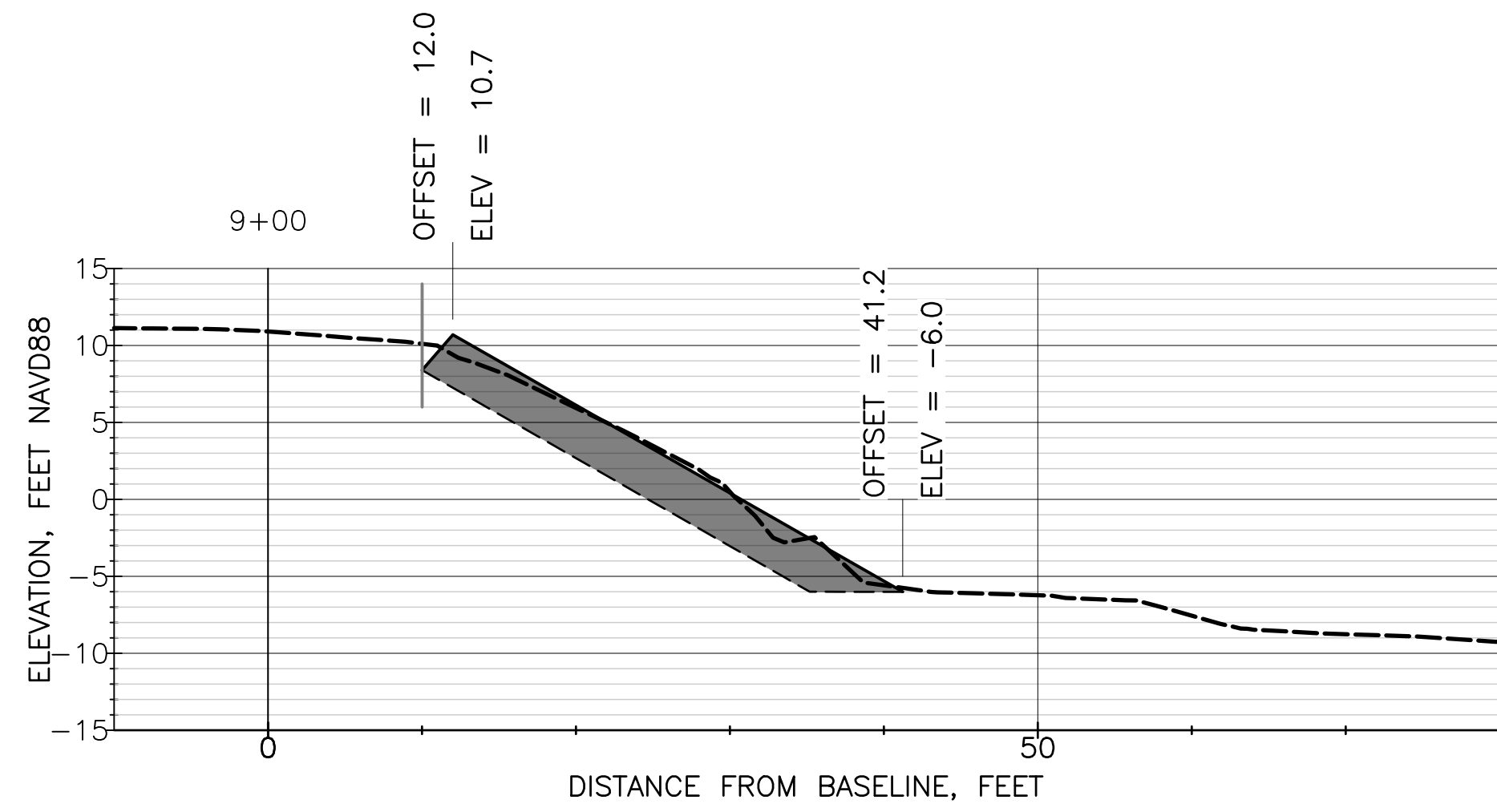
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COUNTY OF VENTURA

SECTIONS STA 7+20 TO 8+80

CHANNEL ISLANDS HARBOR PENINSULA REVETMENT REPAIR

SHEET 15 OF 19
JOB NO. CFC-1144
SCALE AS SHOWN
DATE 7/1/2022



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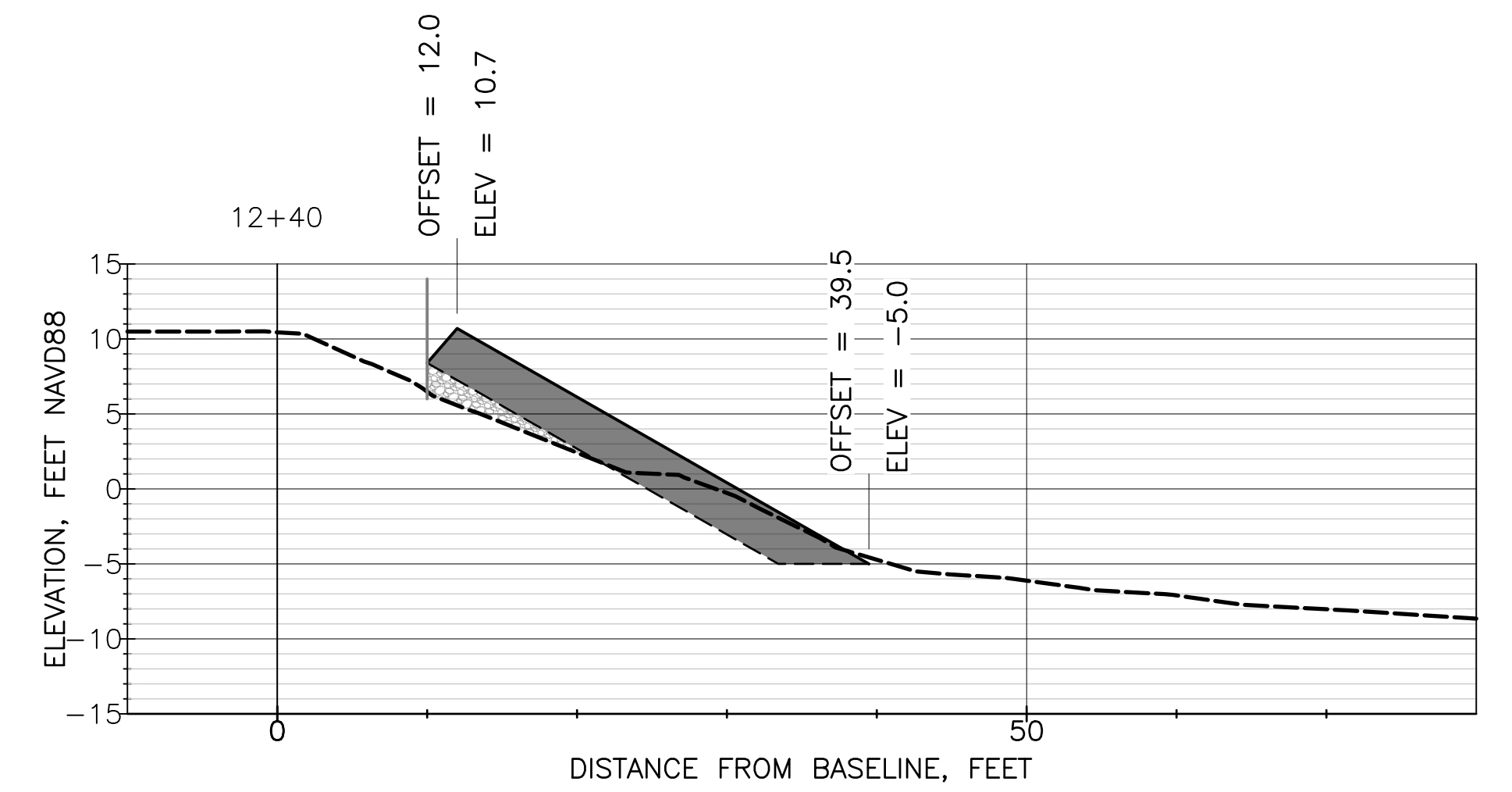
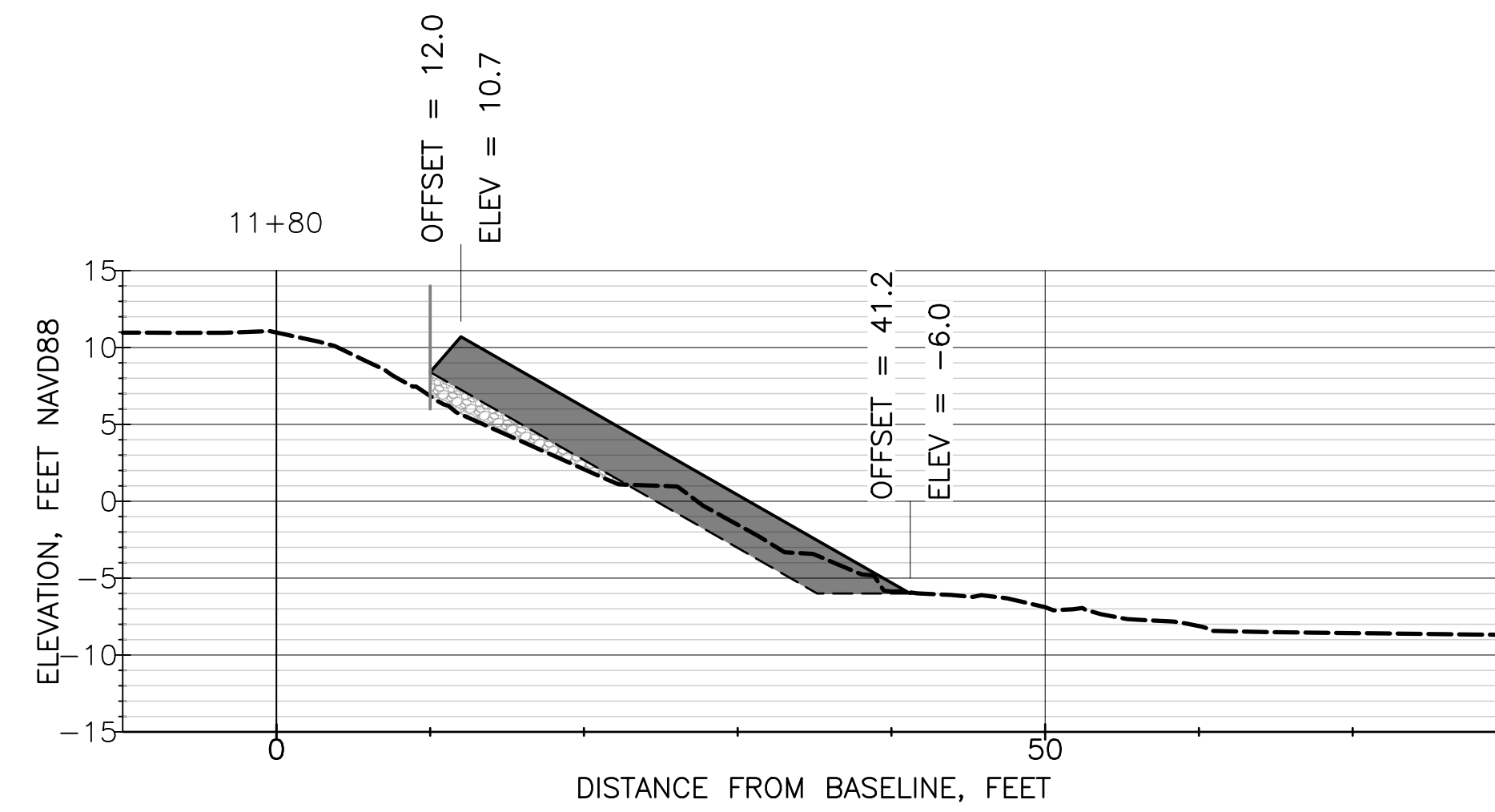
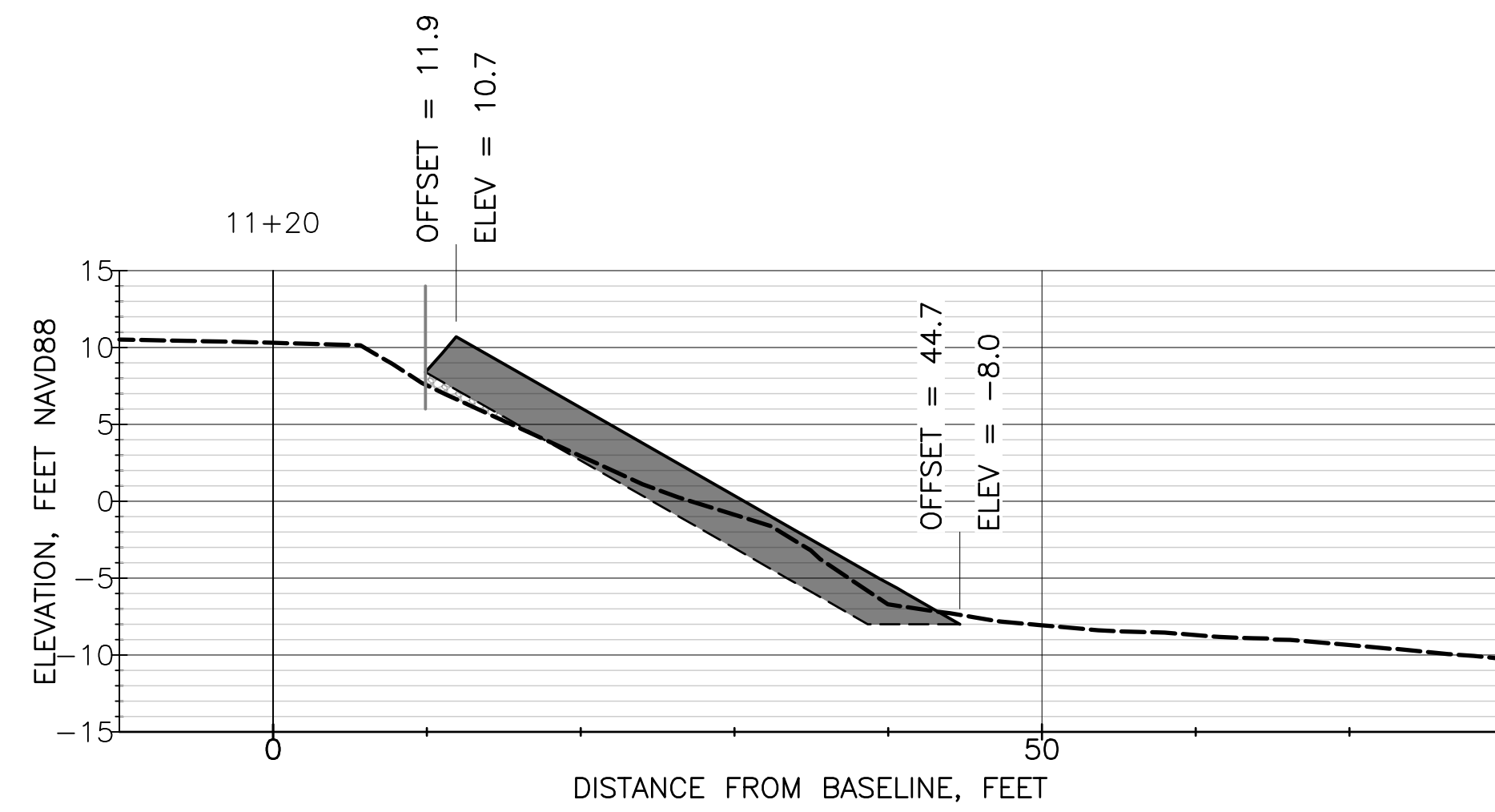
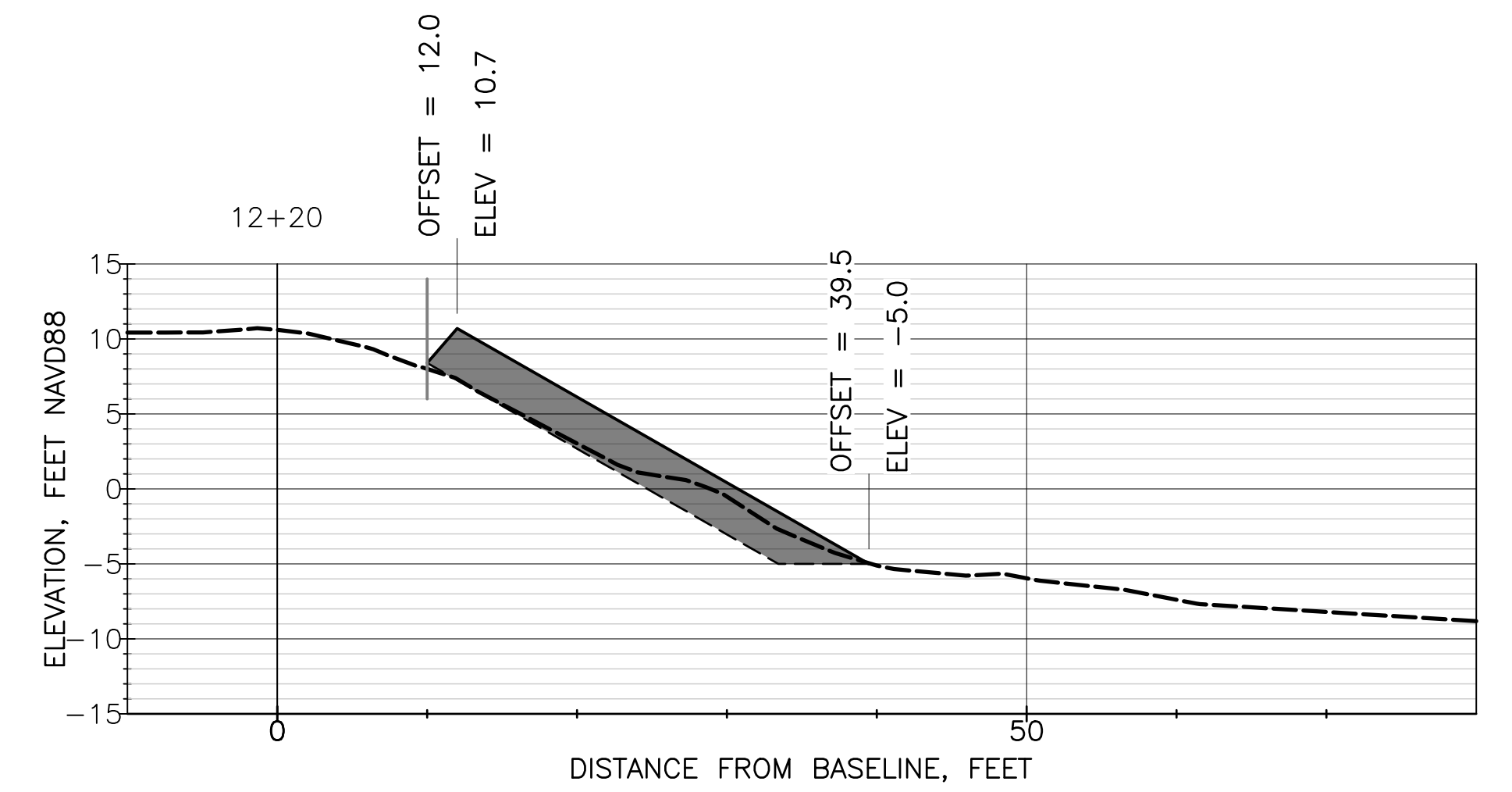
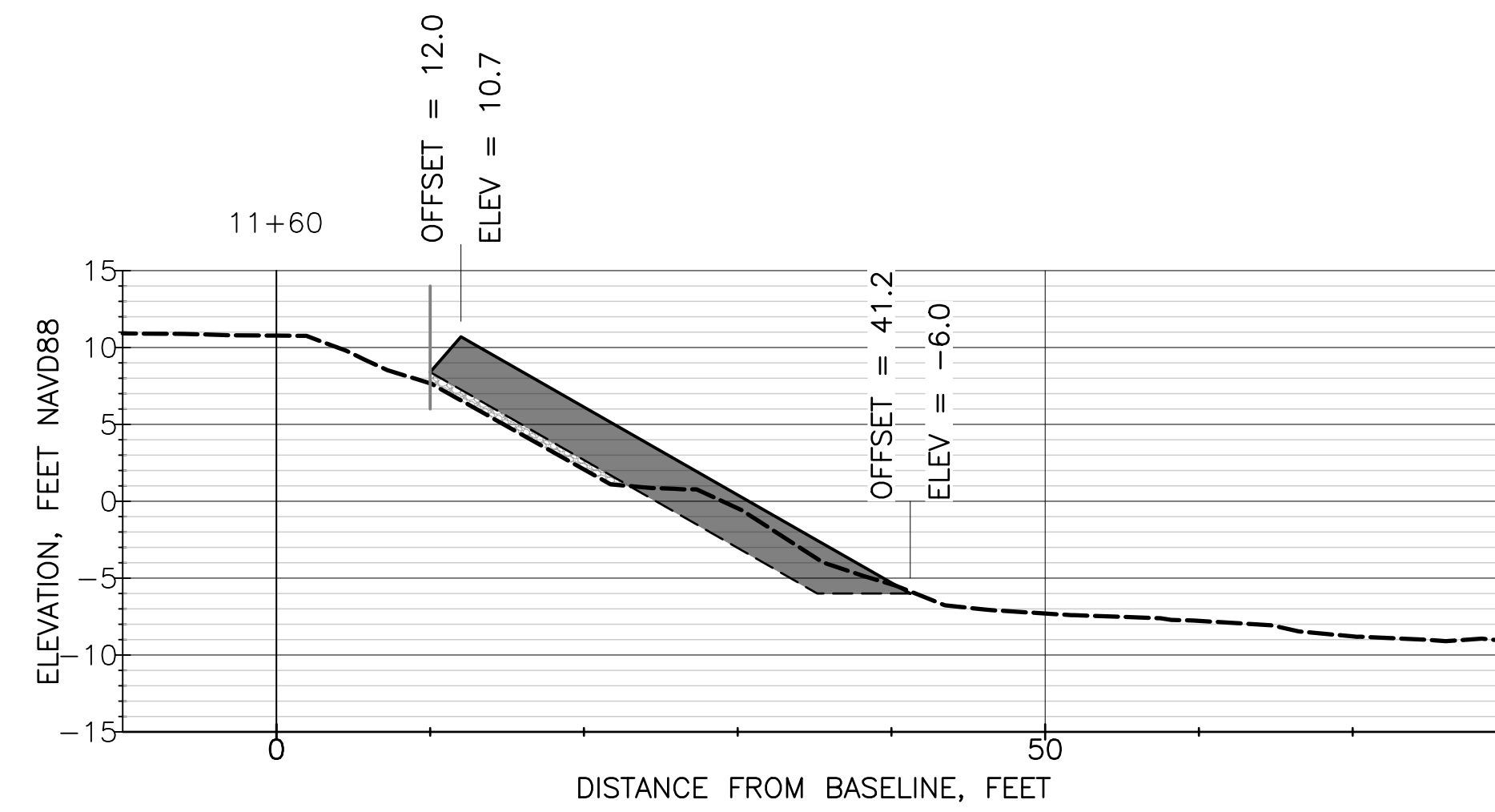
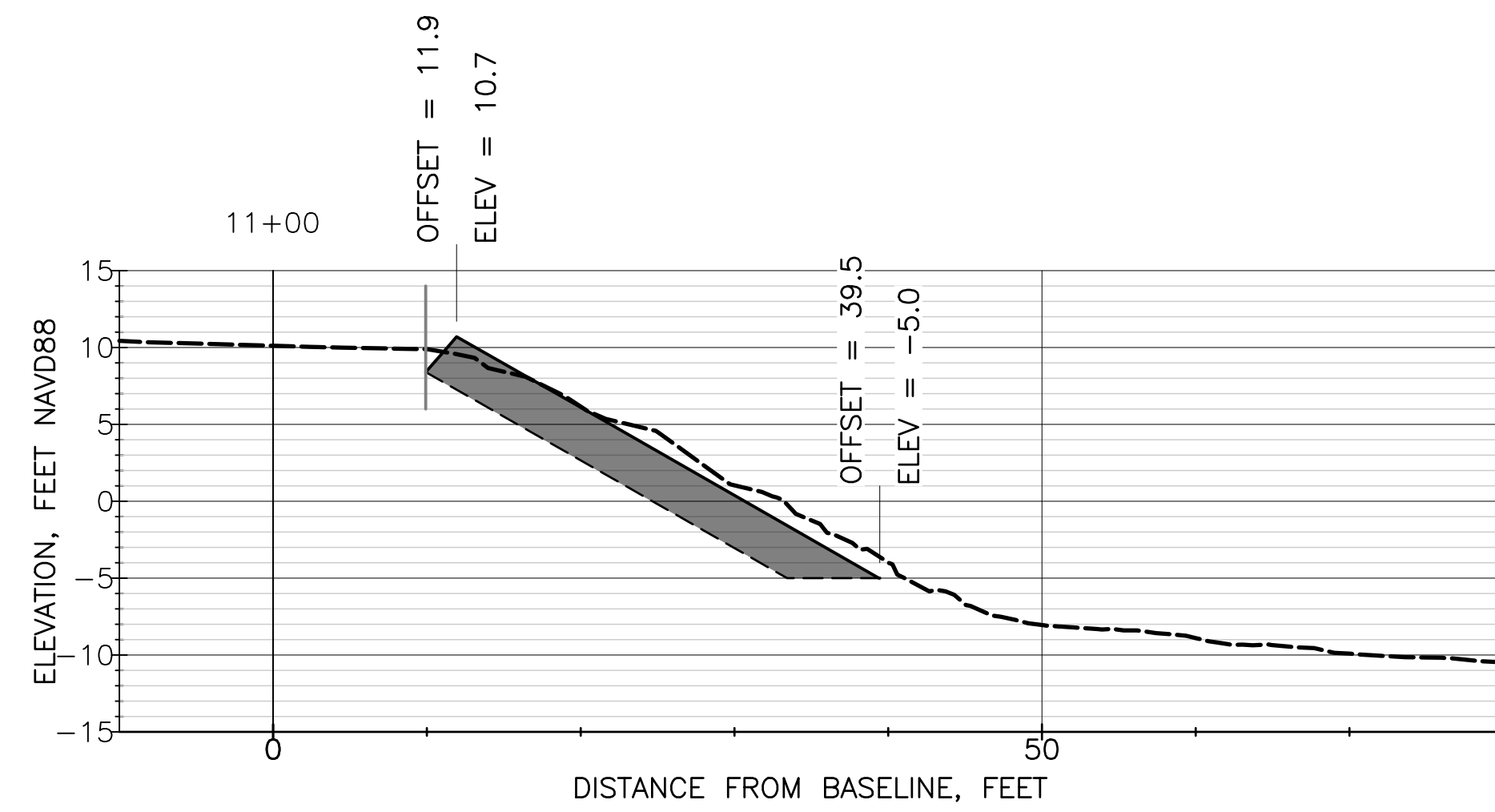
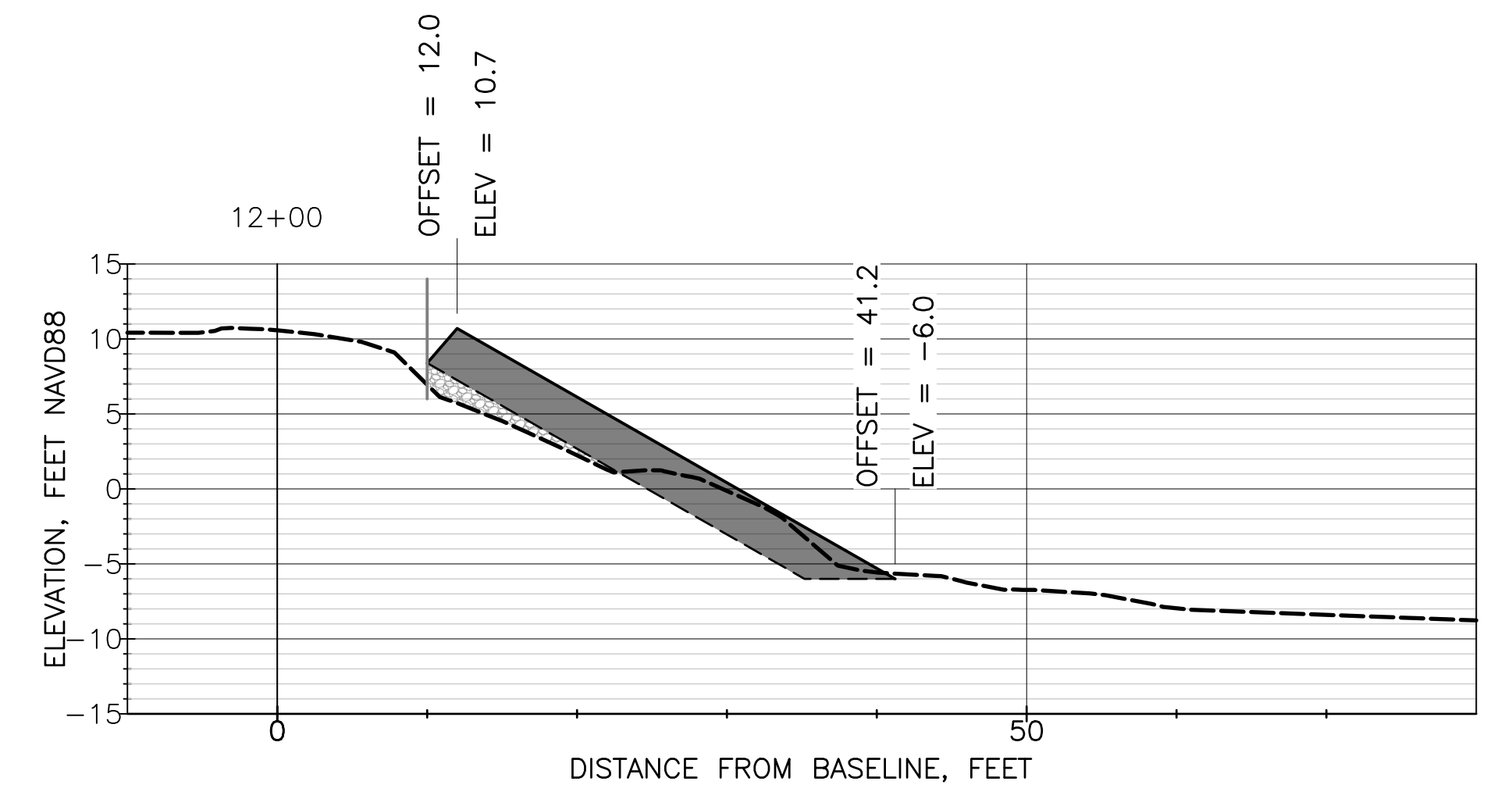
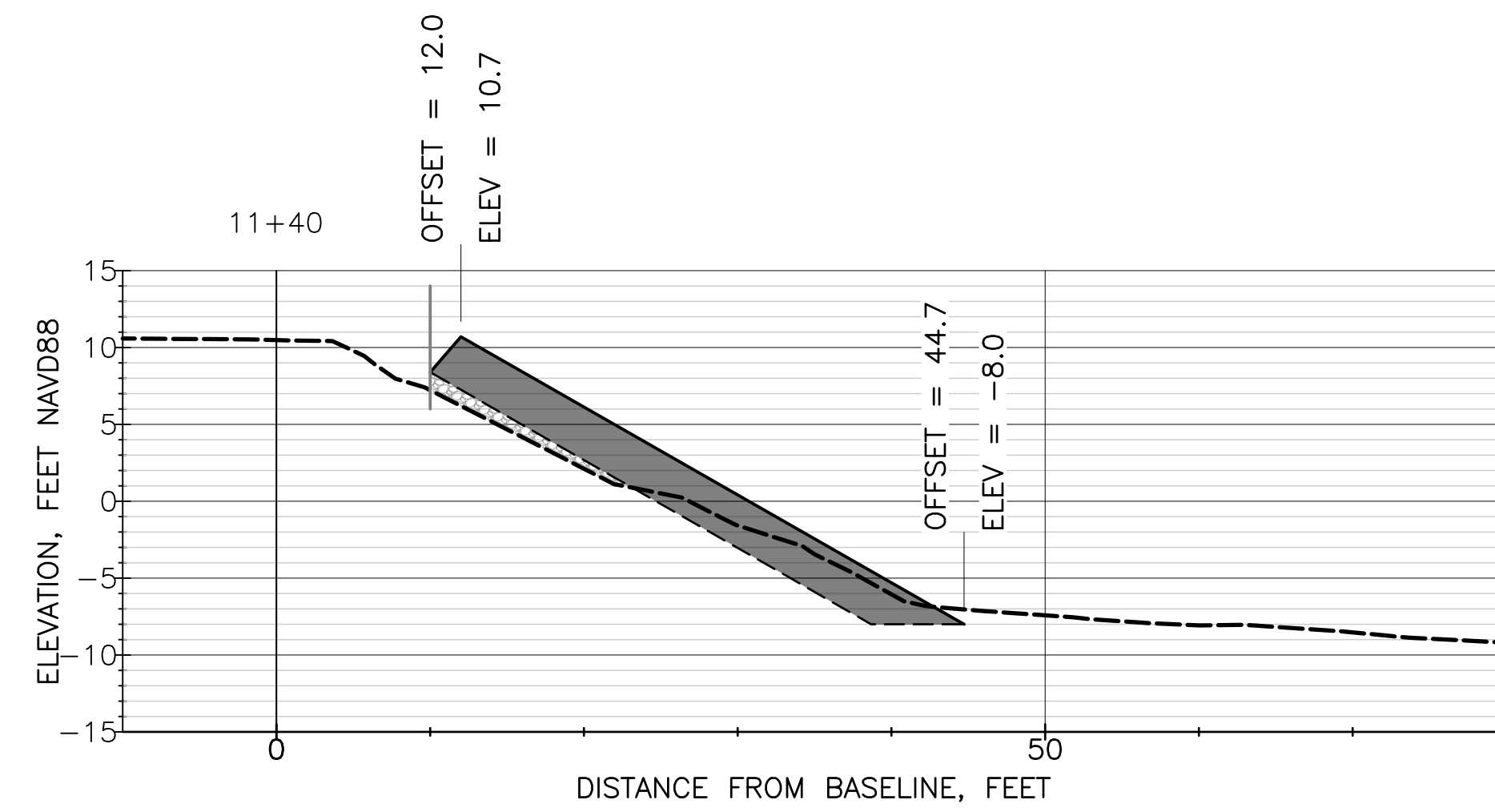
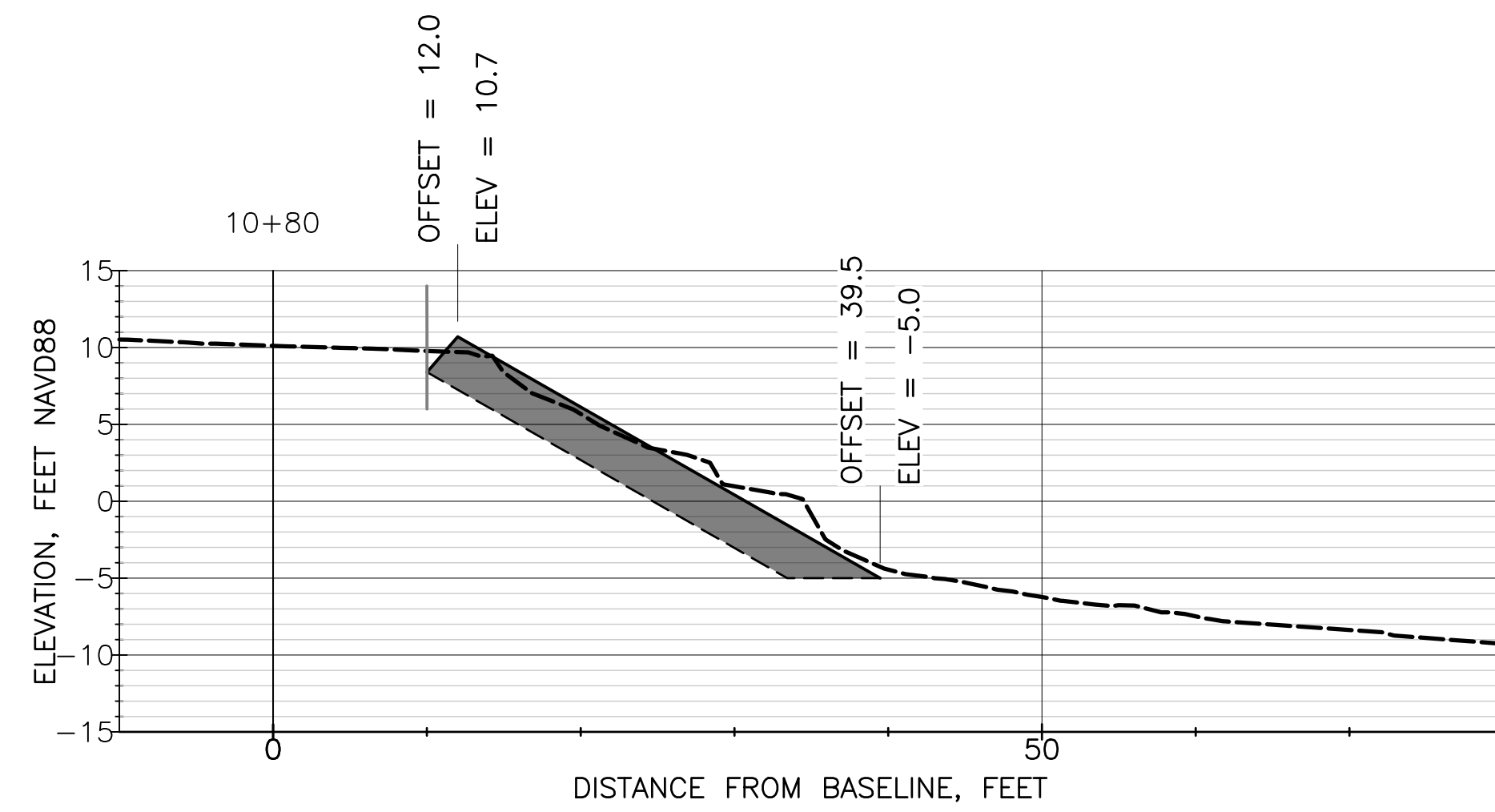
882A PATRIOT DRIVE
MOORPARK, CA 93021-3544
818-341-8133

NO.	DATE	REVISION

DESIGNED BY JBR
DRAWN BY BRW
CHECKED BY JBR/RHB
APPROV. BY RHB

COUNTY OF VENTURA
SECTIONS STA 9+00 TO 10+60
CHANNEL ISLANDS HARBOR PENINSULA REVETMENT REPAIR

SHEET 16 OF 19
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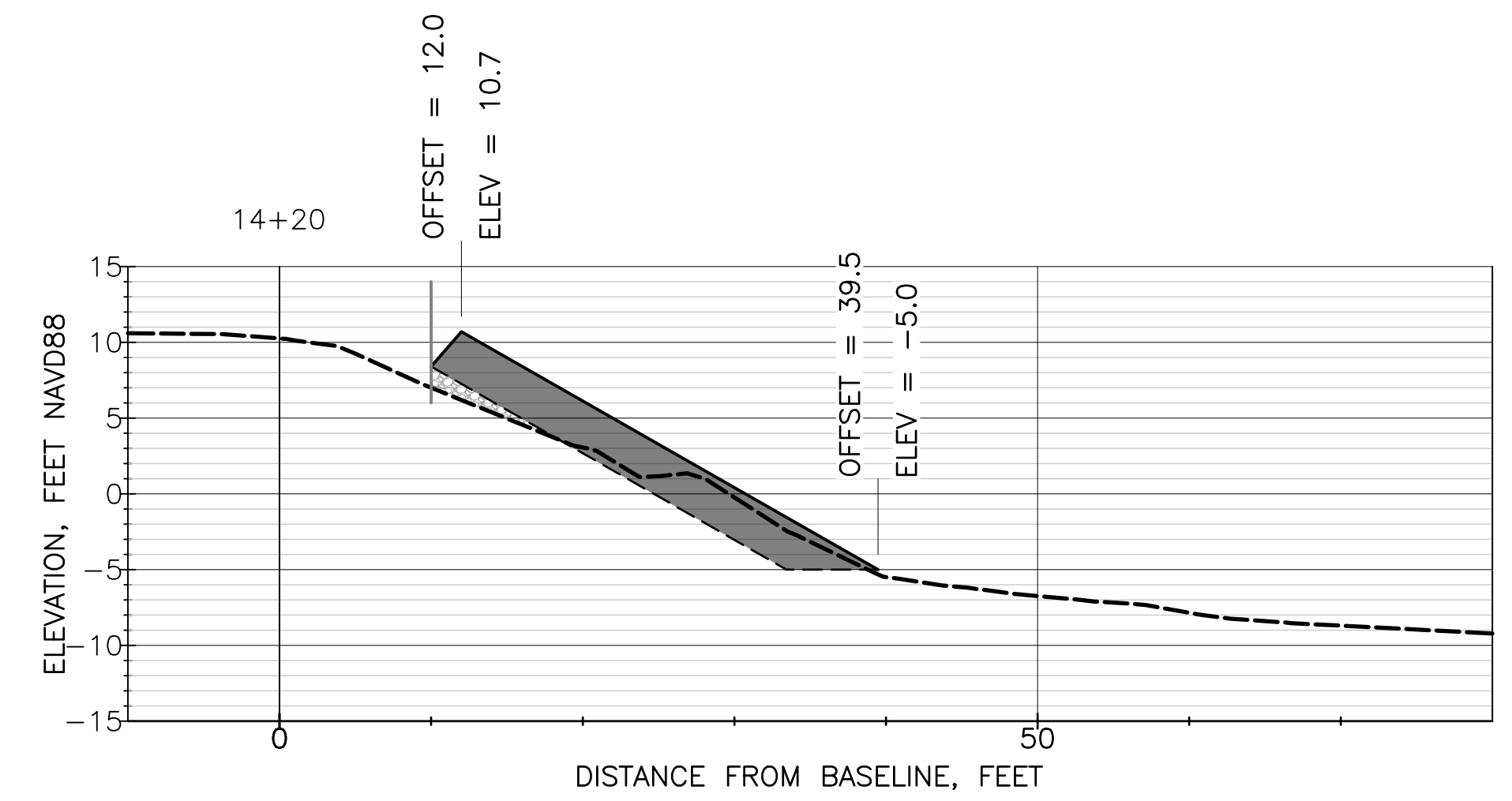
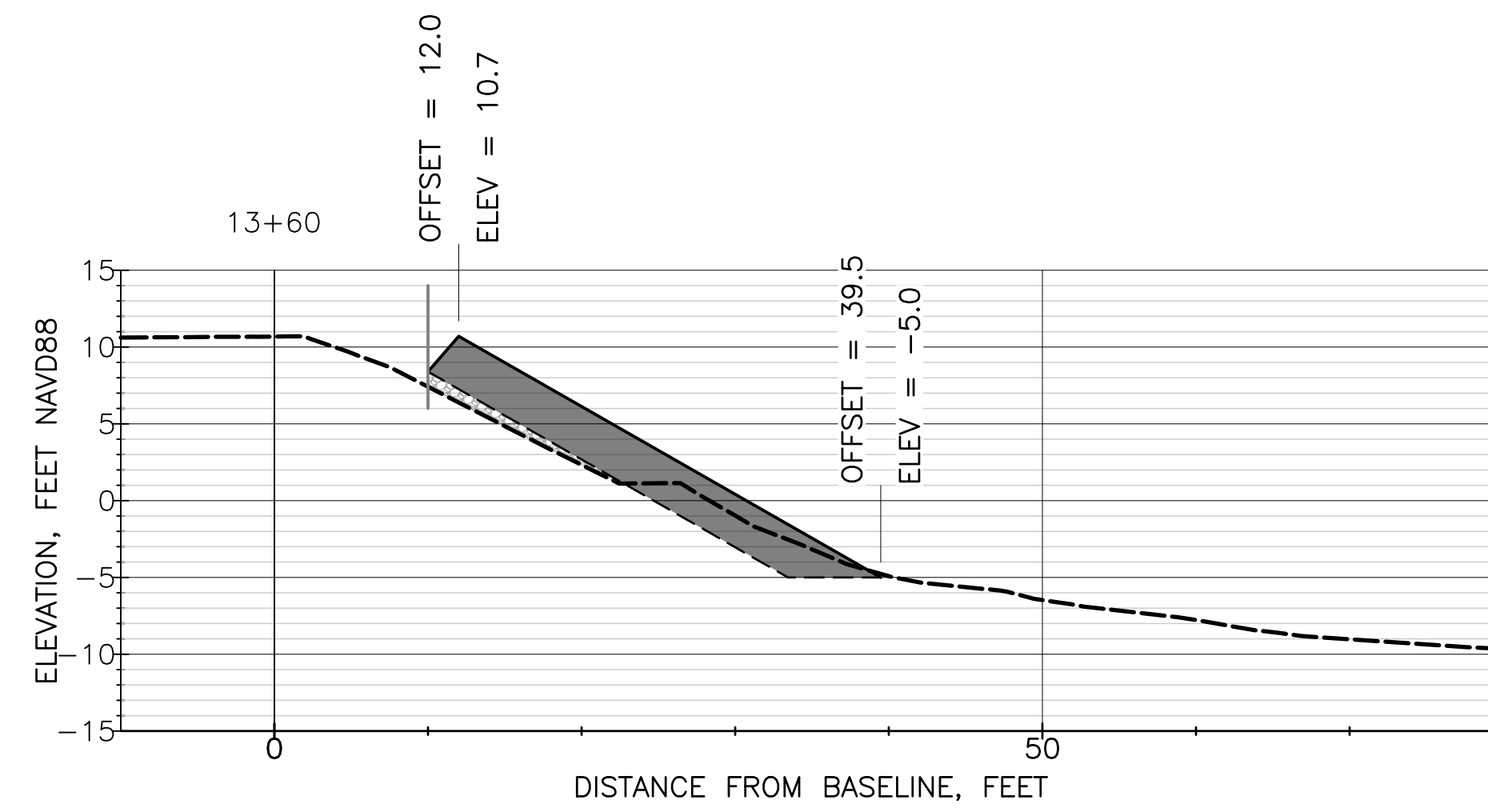
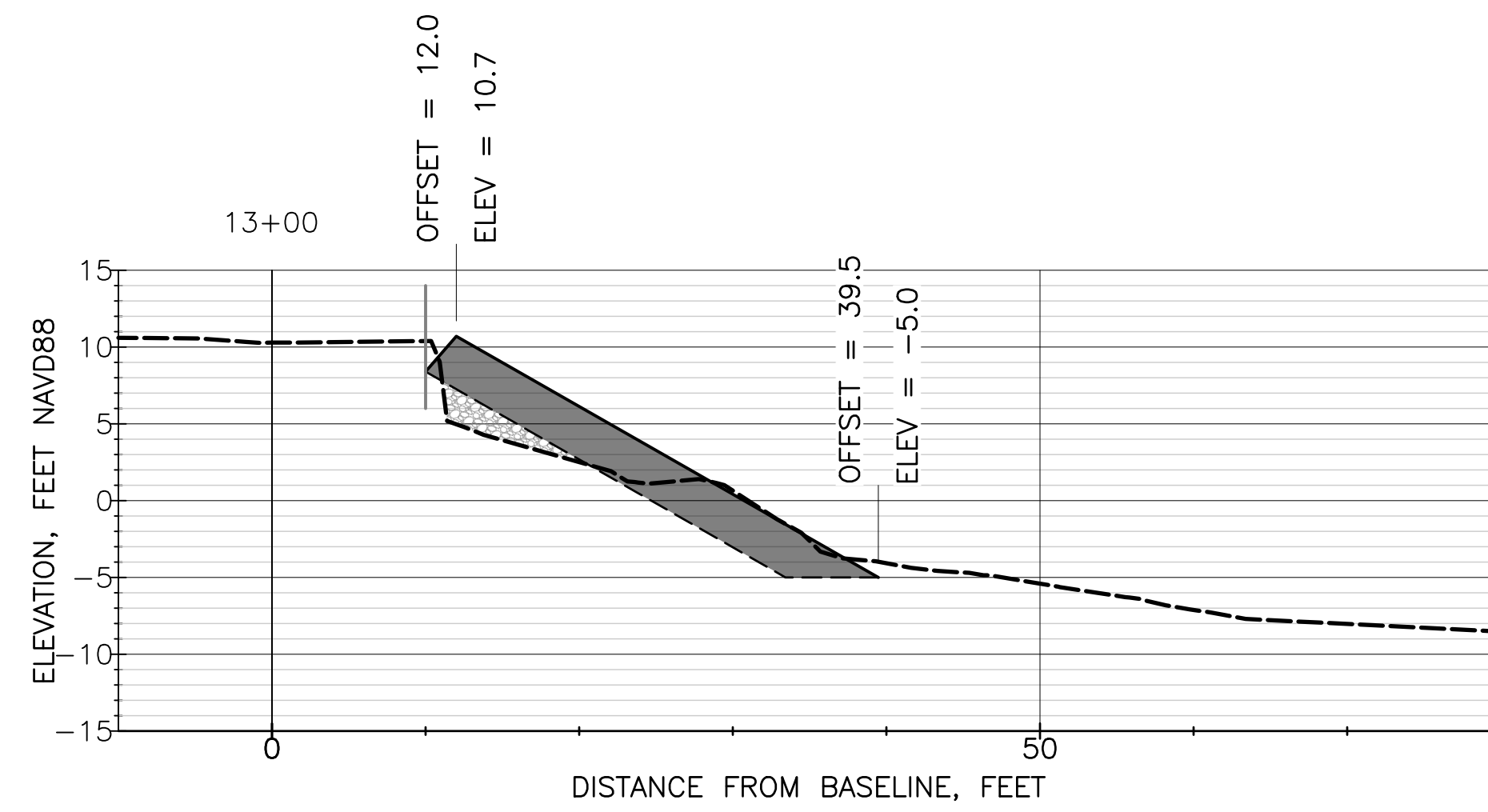
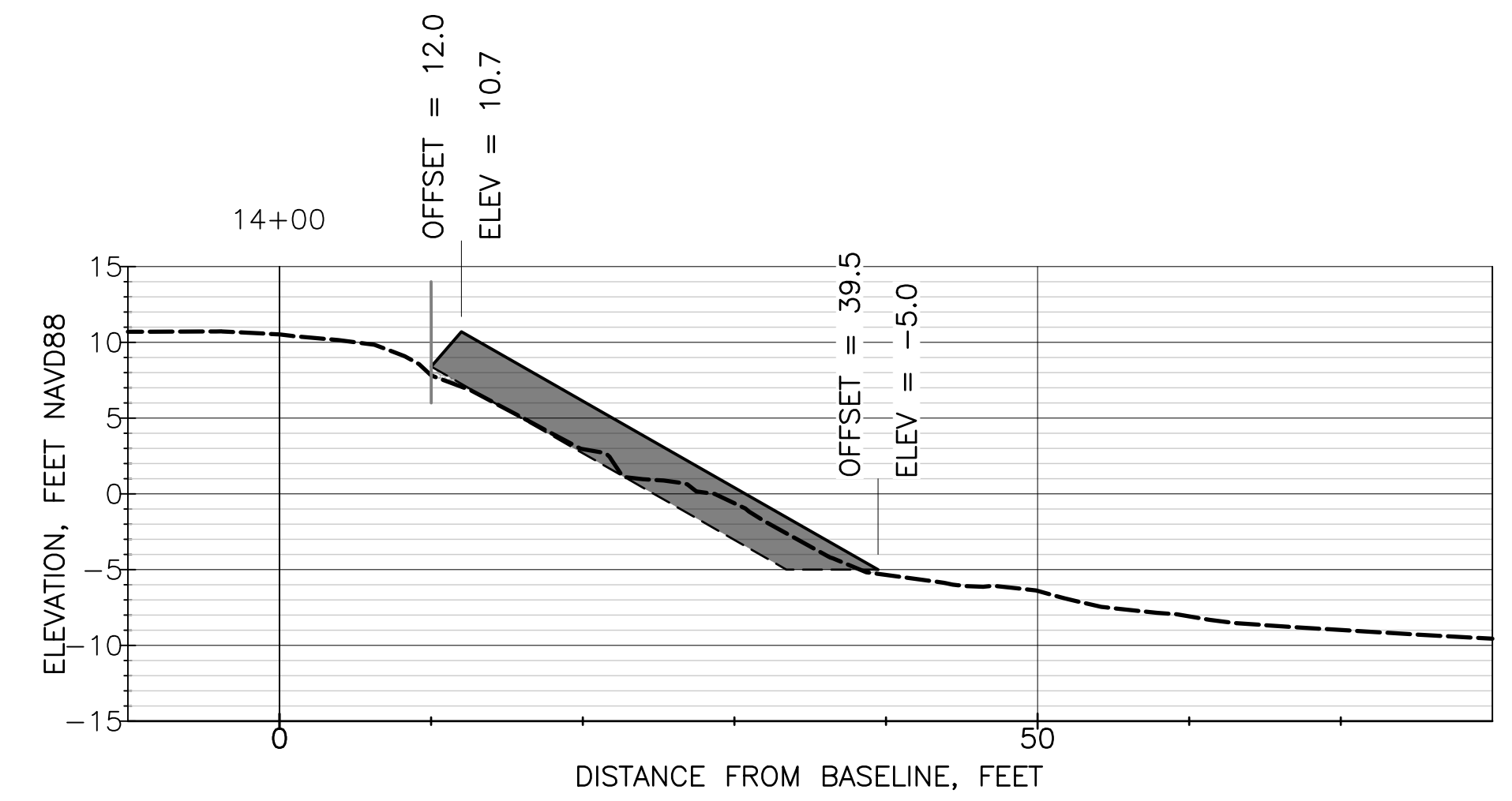
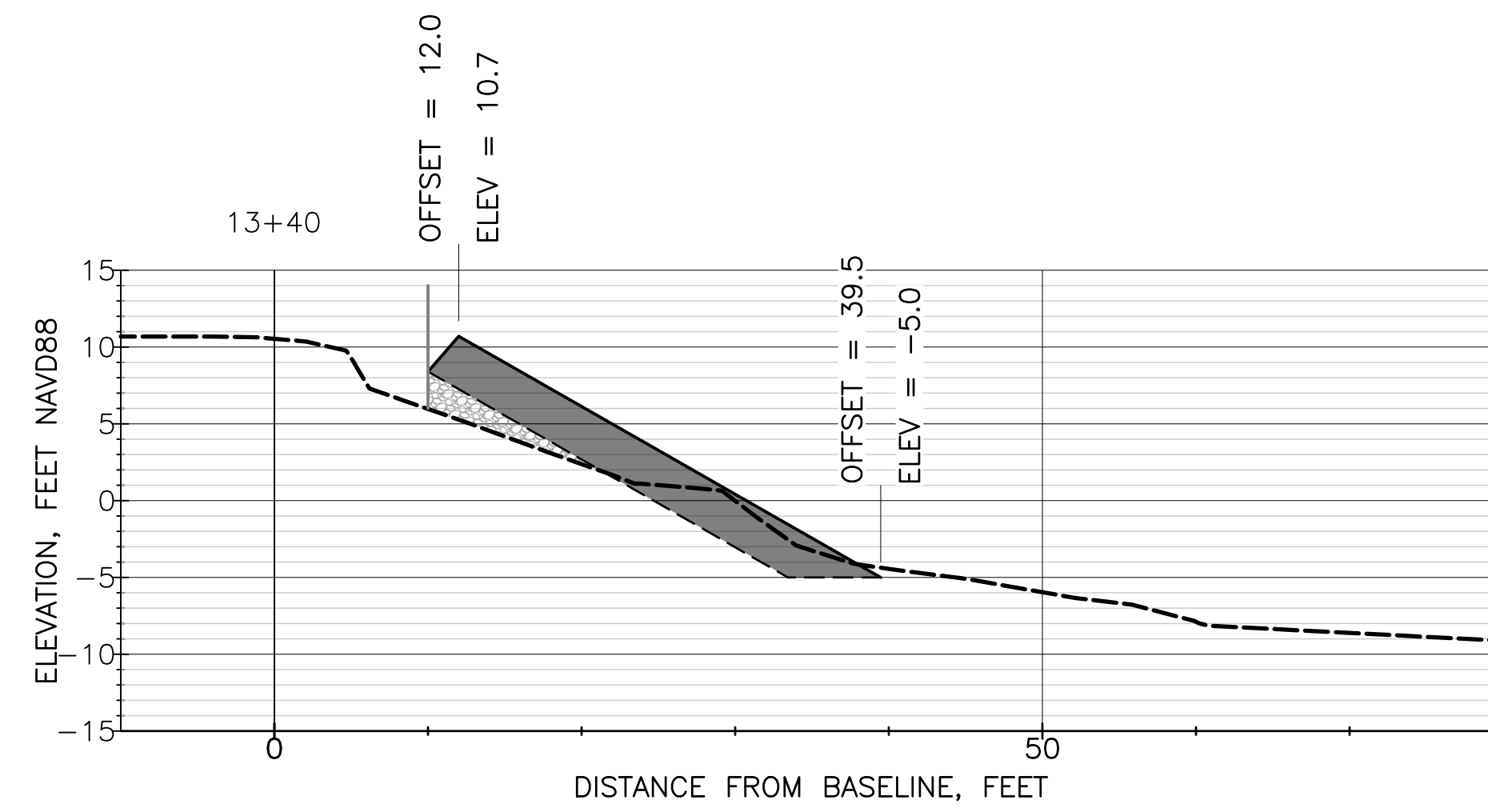
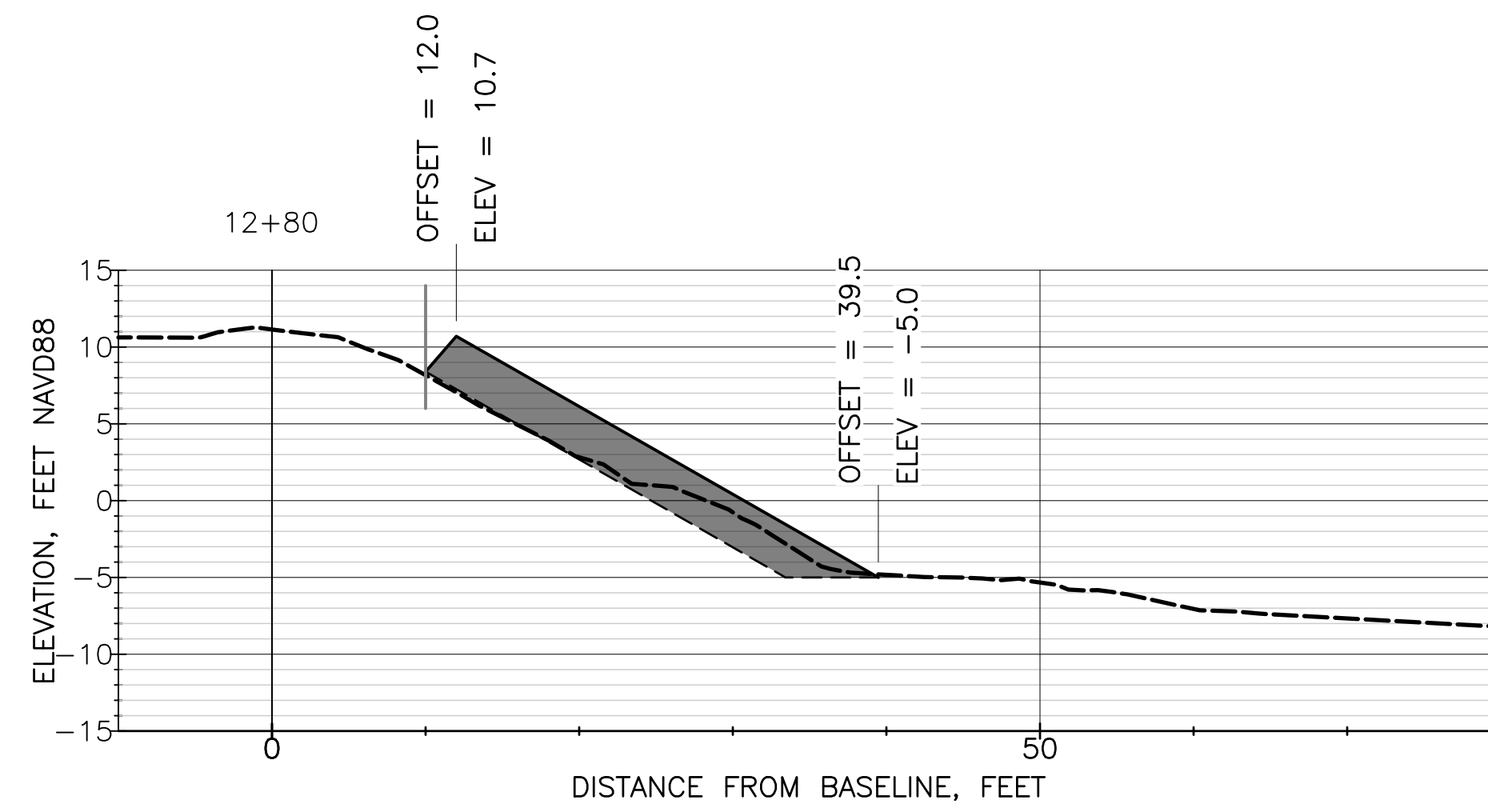
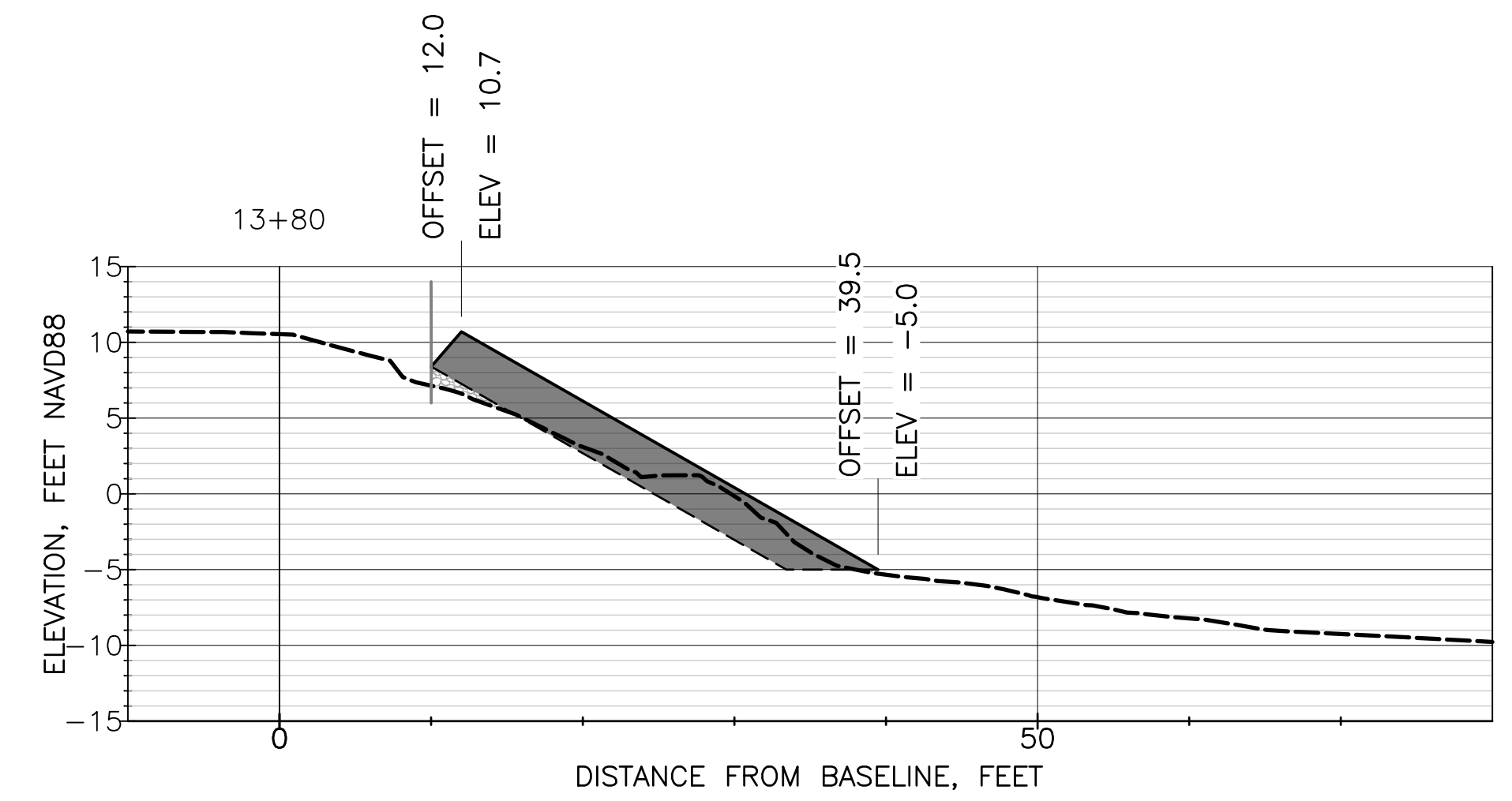
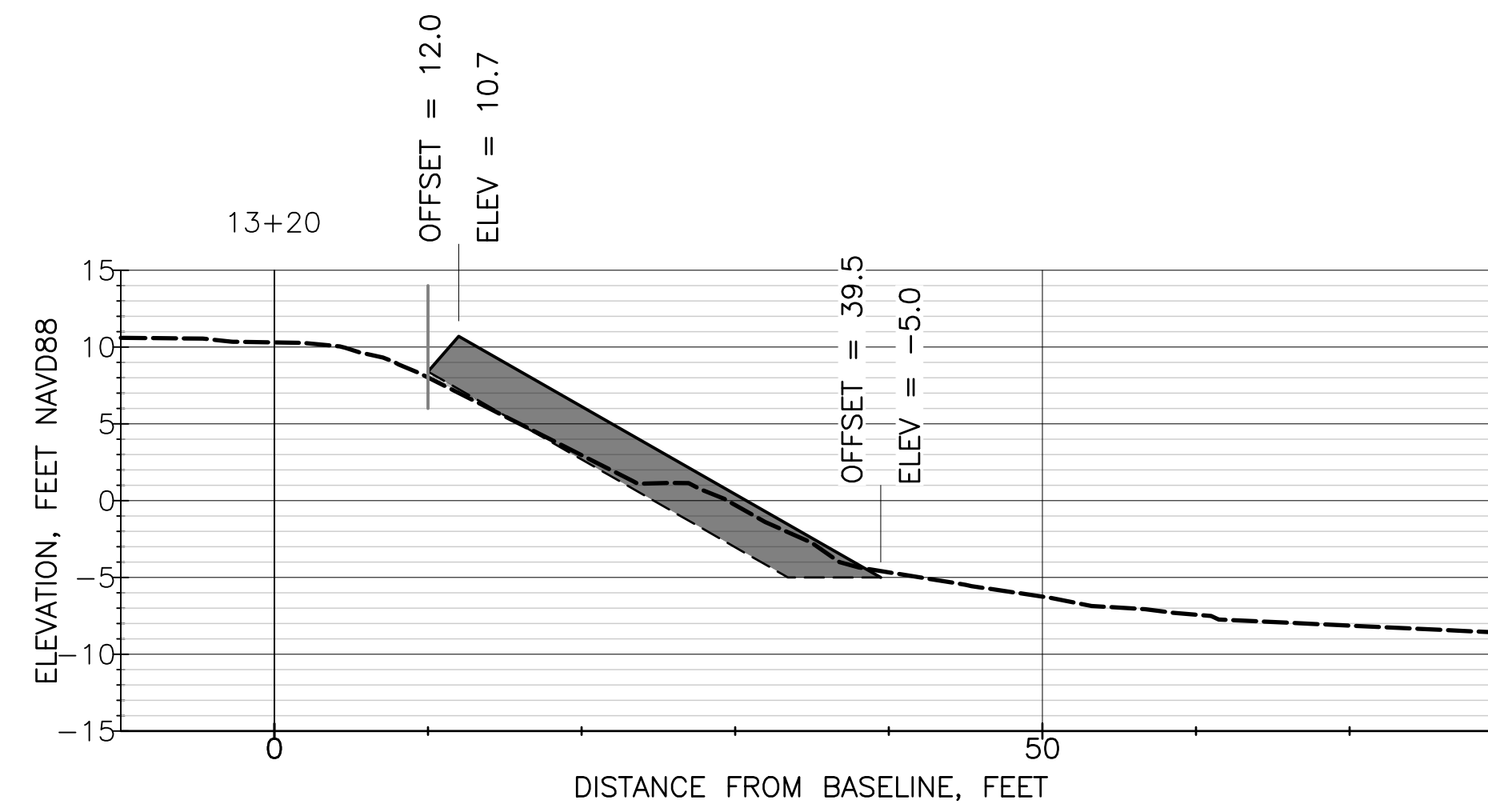
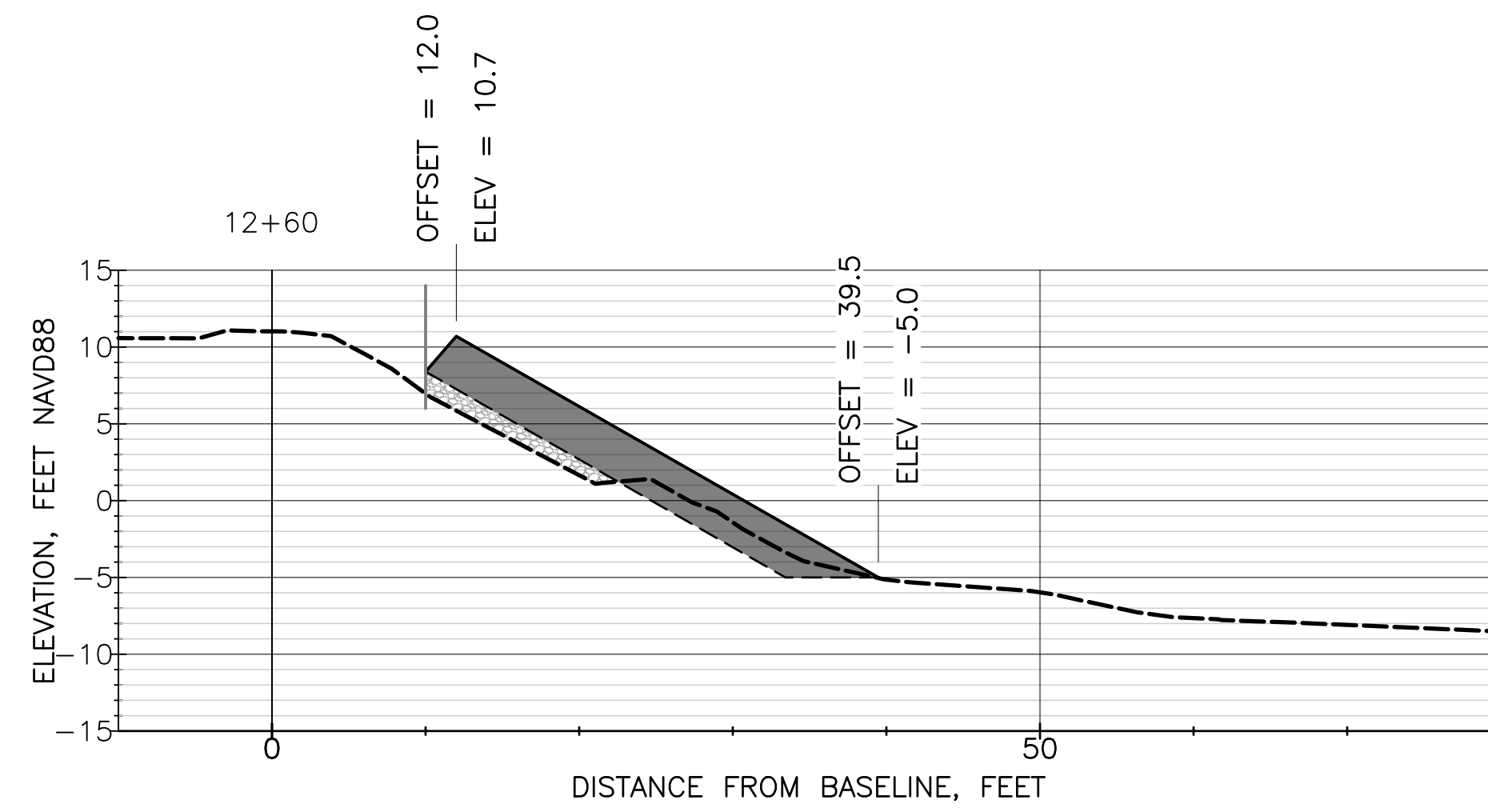
COASTAL
FRONTIERS

882A PATRIOT DRIVE
MOORPARK, CA 93021-3544
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COUNTY OF VENTURA		SHEET 17 OF 19
SECTIONS STA 10+80 TO 12+40		JOB NO. CFC-1144
CHANNEL ISLANDS HARBOR PENINSULA REVETMENT REPAIR		SCALE AS SHOWN
		DATE 7/1/2022



COASTAL
FRONTIERS

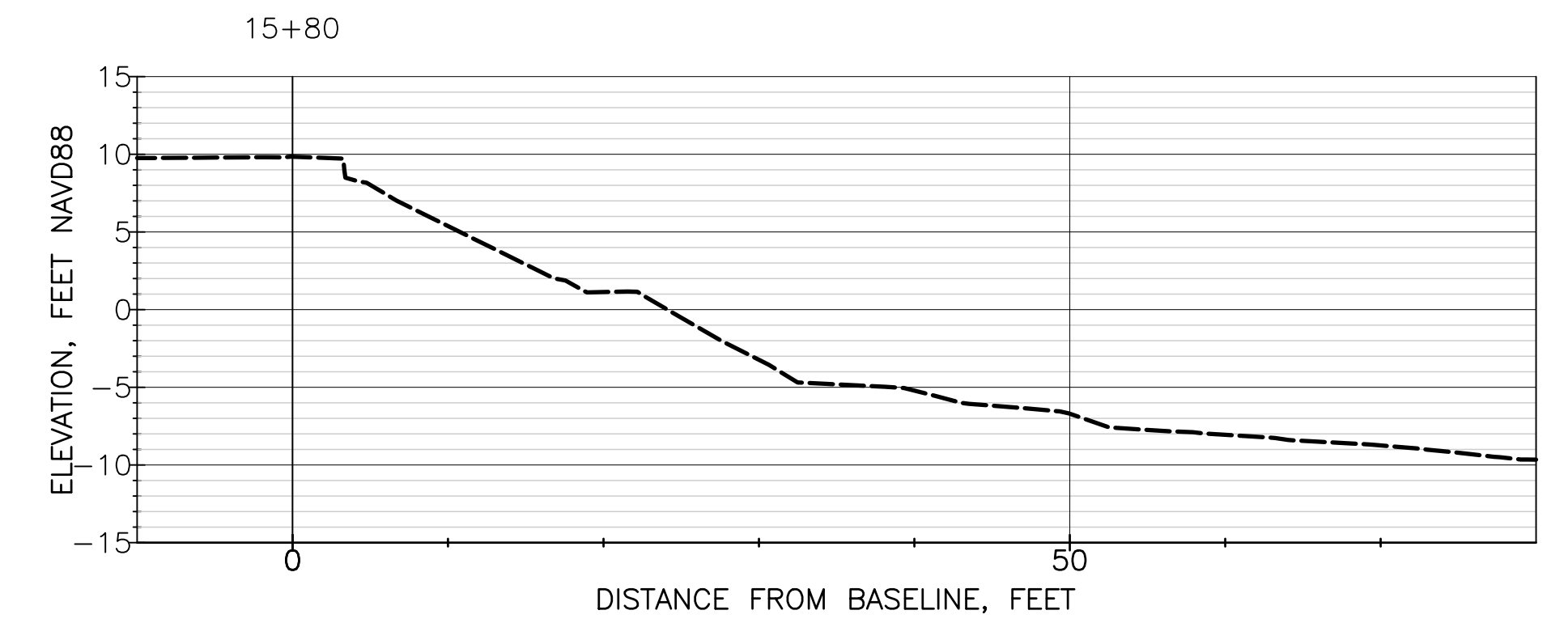
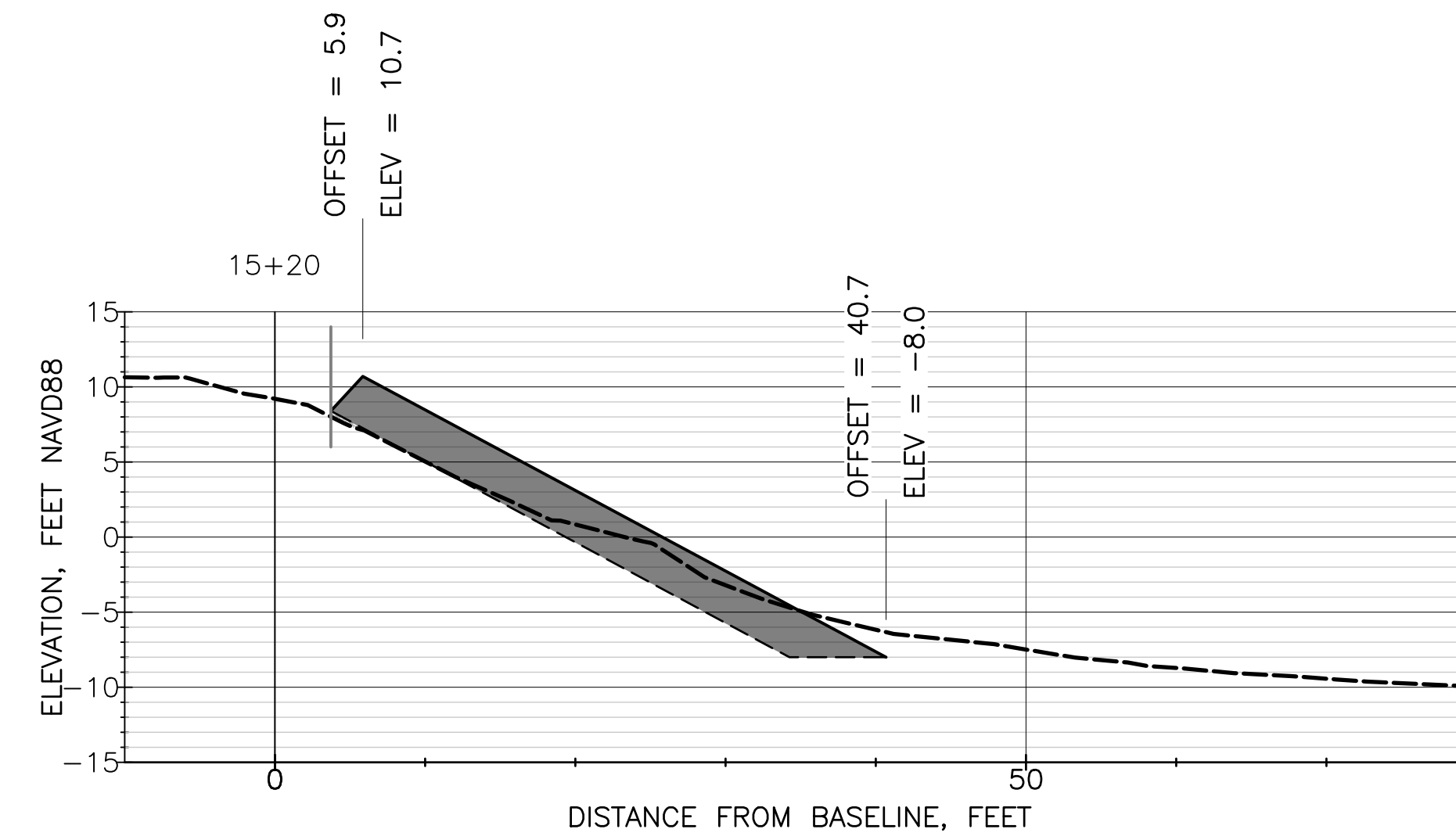
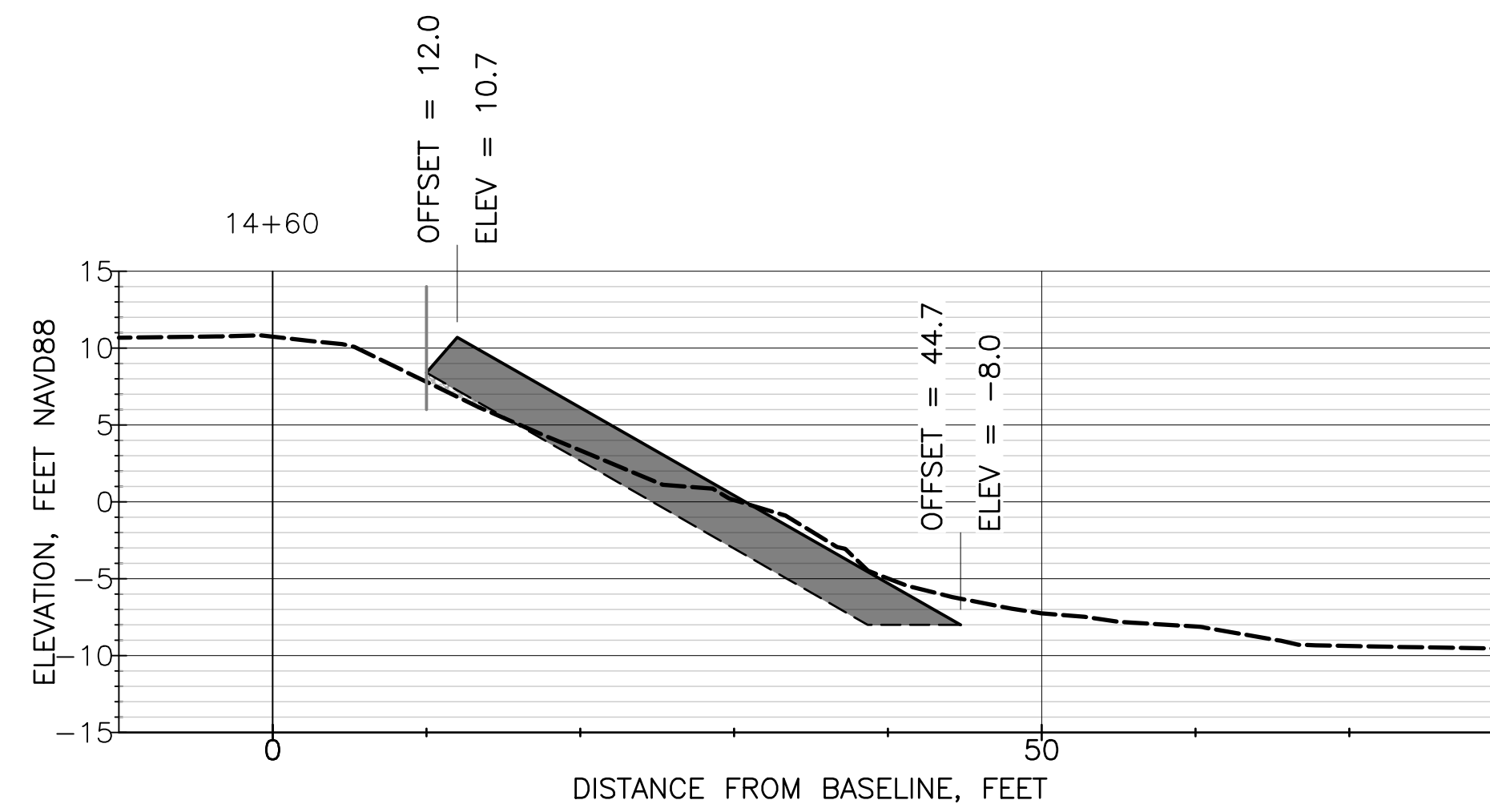
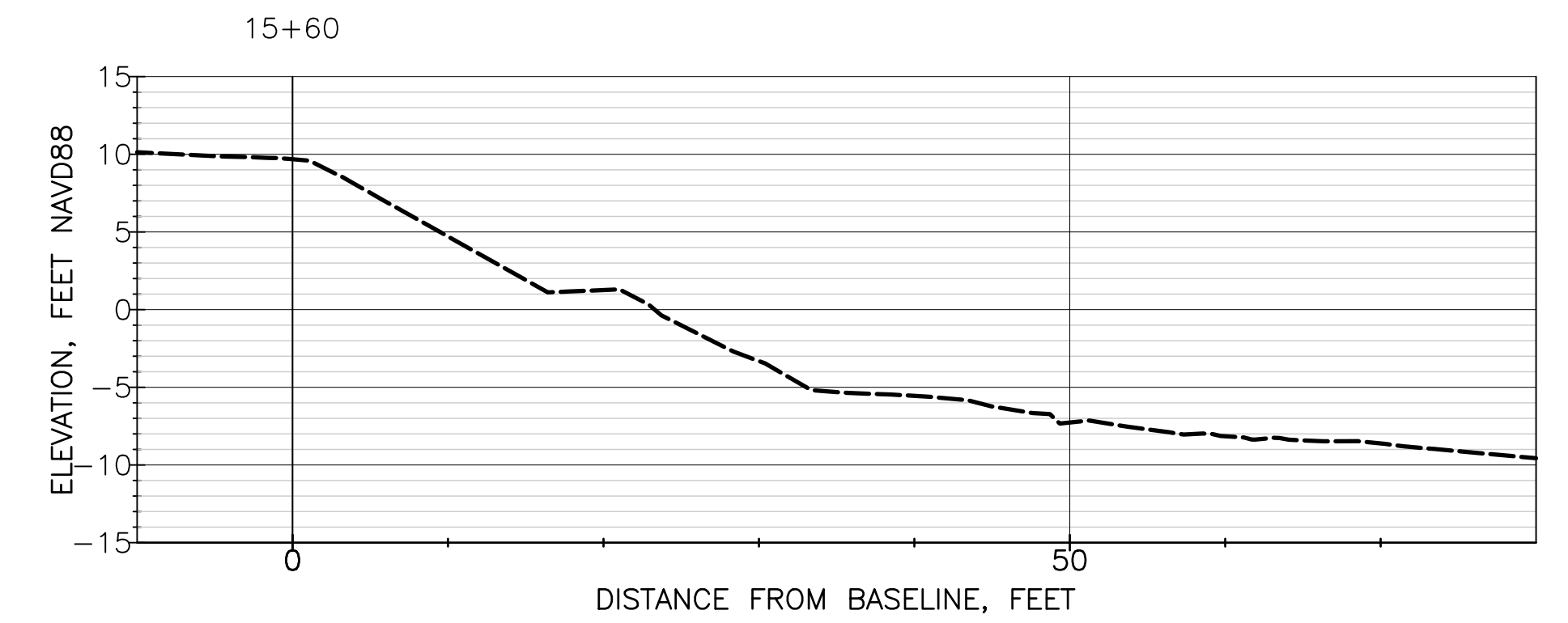
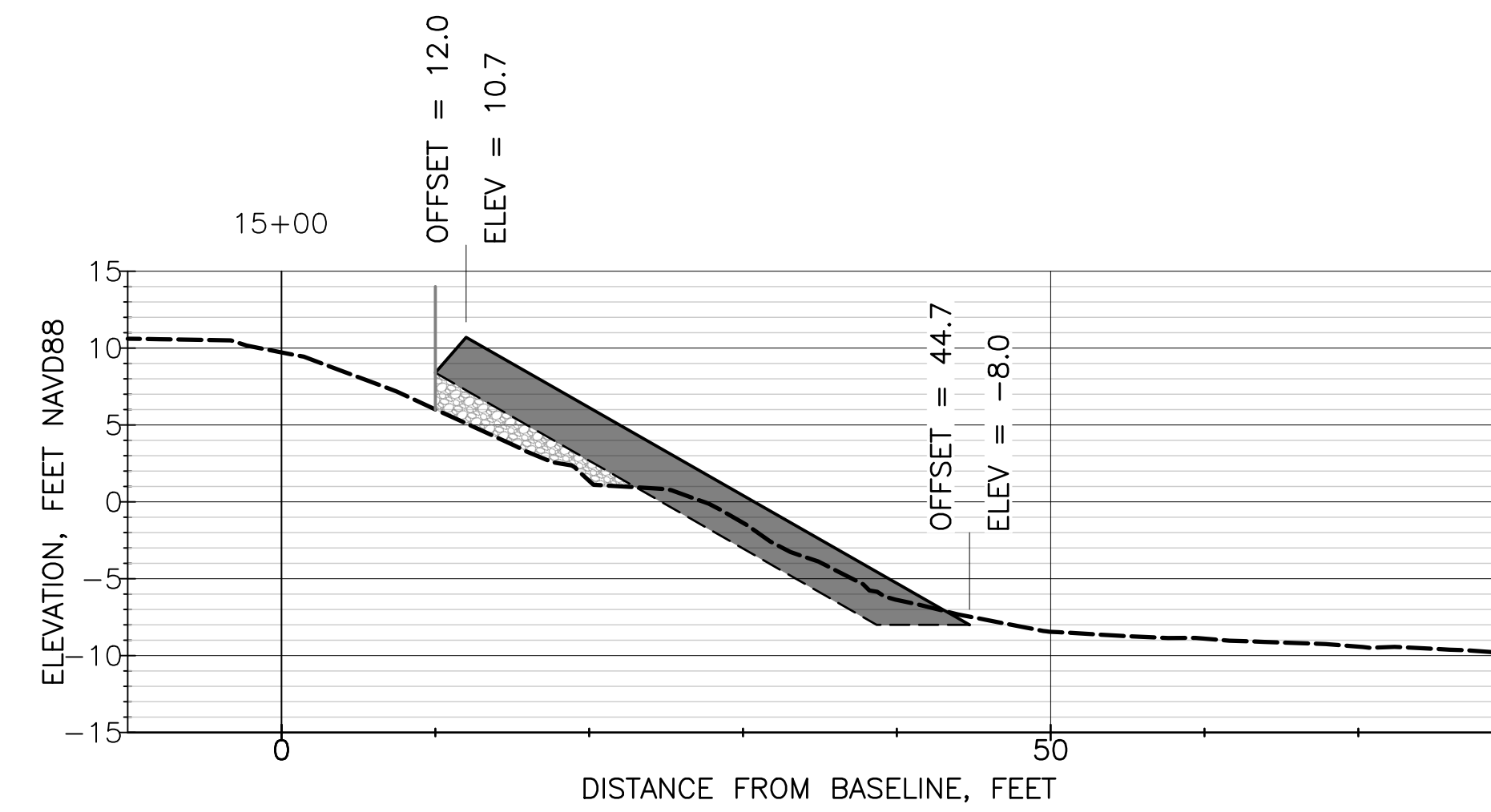
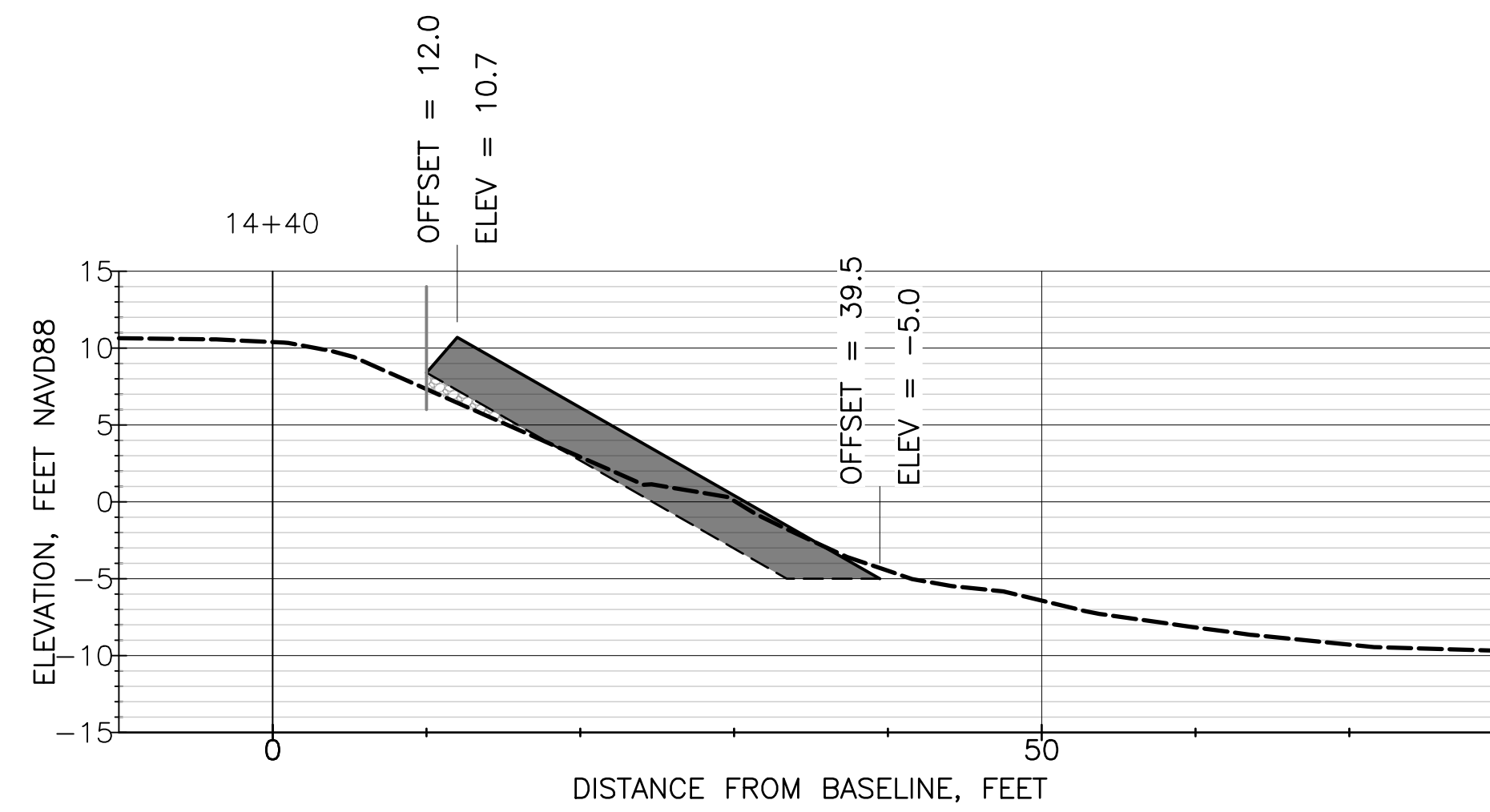
882A PATRIOT DRIVE
MOORPARK, CA 93021-3544
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NO.	DATE	REVISION

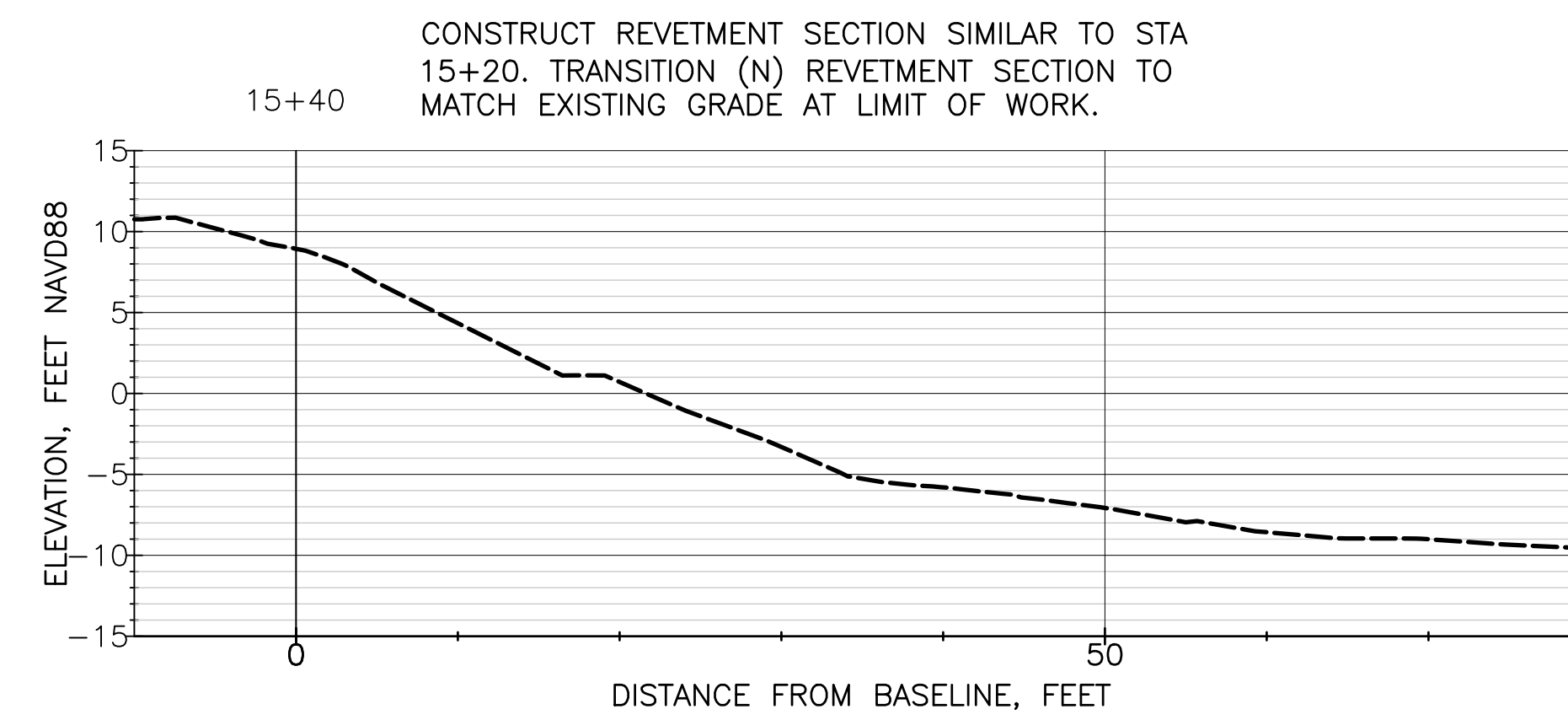
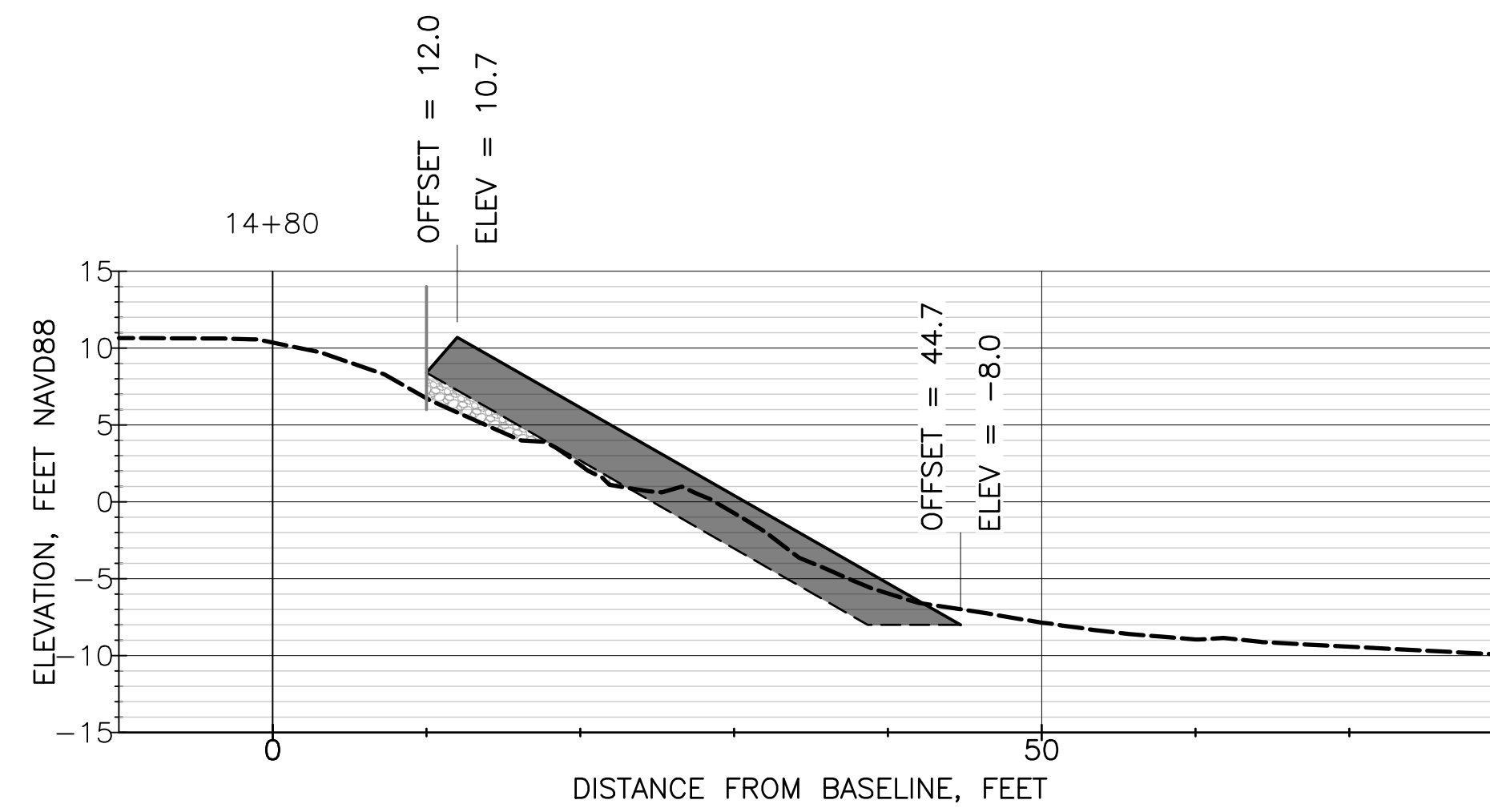
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COUNTY OF VENTURA
SECTIONS 12+60 TO 14+20
CHANNEL ISLANDS HARBOR PENINSULA REVETMENT REPAIR

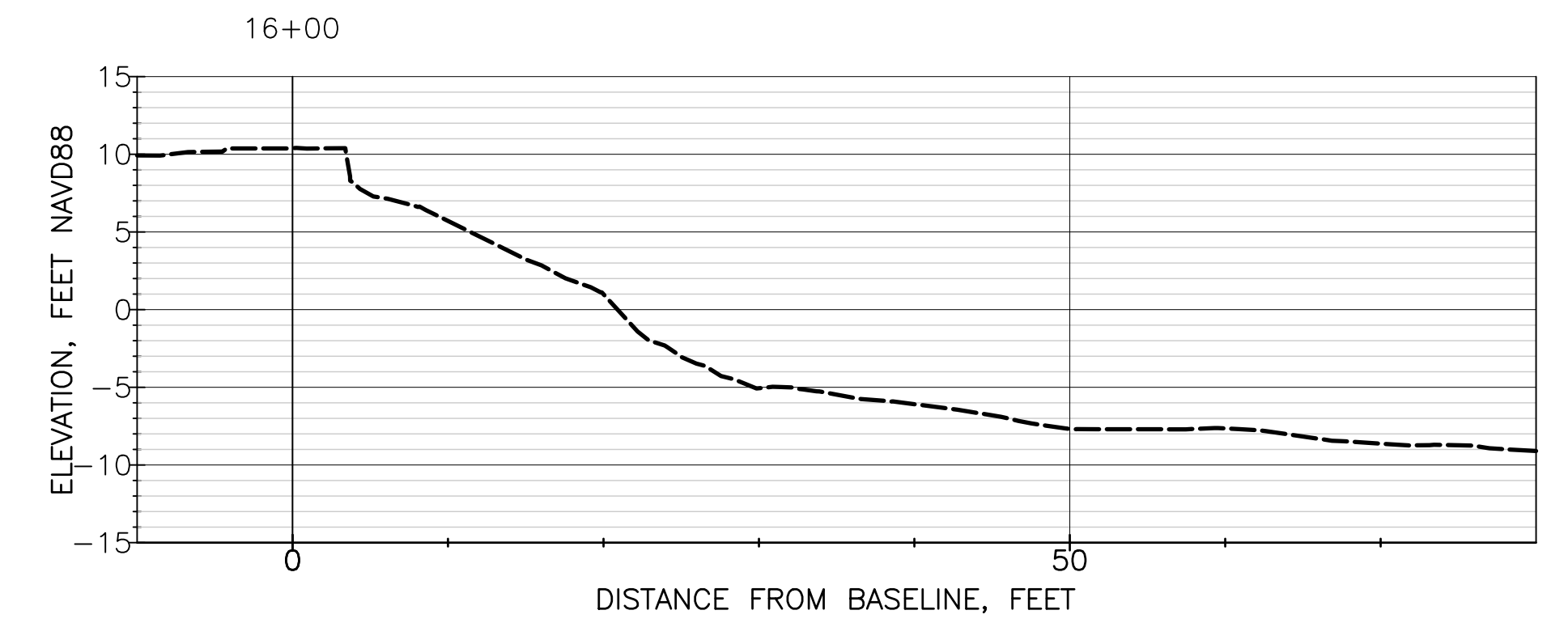
SHEET 18 OF 19
JOB NO. CFC-1144
SCALE AS SHOWN
DATE 7/1/2022



SECTION 15+20 IS NOT ORTHOGONAL TO REVETMENT FACE DUE TO ORIENTATION CHANGE RELATIVE TO BASELINE.



CONSTRUCT REVETMENT SECTION SIMILAR TO STA 15+20. TRANSITION (N) REVETMENT SECTION TO MATCH EXISTING GRADE AT LIMIT OF WORK.



COASTAL FRONTIERS

882A PATRIOT DRIVE
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COUNTY OF VENTURA
SECTIONS STA 14+40 TO 16+00
CHANNEL ISLANDS HARBOR PENINSULA REVETMENT REPAIR

SHEET	19 OF 19
JOB NO.	CFC-1144
SCALE	AS SHOWN
DATE	7/1/2022