

HISTORIC AMERICAN ENGINEERING RECORD

INDEX TO PHOTOGRAPHS

HALEAKALA NATIONAL PARK ROADS
Haleakala National Park
Pukalani vicinity
Maui County
Hawaii

HAER No. HI-52

INDEX TO BLACK AND WHITE PHOTOGRAPHS

Jet Lowe, Photographer, April, 1998.

- HI-52-1 SUMMIT HOUSE AT MAGNETIC PEAK.
- HI-52-2 SUMMIT HOUSE AND PARKING LOT.
- HI-52-3 ROAD TO SUMMIT SHOWING VISITOR OVERLOOK AND
"SCIENCE CITY," FROM ATOP WHITE HILL. NOTE THE
ARCHAEOLOGICAL REMAINS OF WHAT APPEARS TO BE A
CIRCULAR SHELTER AT LOWER RIGHT.
- HI-52-4 ROAD TO SUMMIT AND SLIDING SANDS HIKING TRAIL,
FROM WHITE HILL.
- HI-52-5 HALEAKALA VISITOR CENTER, FROM SUMMIT.
- HI-52-6 PARKING LOT AT OVERLOOK NEAR SUMMIT, "HOUSE OF THE
SUN" VISITOR CENTER, ROAD DOWN HILL AT UPPER LEFT.
- HI-52-7 "HOUSE OF THE SUN" VISITOR CENTER, 3/4 VIEW, FROM
WHITE HILL TRAIL.
- HI-52-8 "HOUSE OF THE SUN" VISITOR CENTER, 3/4 DETAIL.
NOTE HOW LAVA ROCKS BECOME INCORPORATED INTO THE
WALL.
- HI-52-9 HALEAKALA CRATER AND CINDER CONES.
- HI-52-10 ROAD VIEWS NEAR KALAHAKU OVERLOOK. LEFT VIEW OF
UPHILL TRANSITIONAL CURVES; RIGHT VIEW OF DOWNHILL
TANGENTS AND CURVES.
- HI-52-11 DETAIL OF HAIRPIN CURVE WITH BOULDER EDGING.

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HI-52-12 MILEPOST 19. VIEW NE.

HI-52-13 ROAD VIEW NEAR 8,000 FT. ELEVATION WITH DRY-LAID
RETAINING WALL AND FILL.

HI-52-14 ROADCUT BELOW KALAHAKU OVERLOOK.

HI-52-15 BREASTWALL DETAIL IN CLOUD LAYER.

HI-52-16 BREASTWALL DETAIL IN THE SUN.

HI-52-17 CATCHMENT AND PIPE CULVERT NEAR 7,500 FT.

HI-52-18 BOX CULVERT AT MILEPOST 16. EXPOSED FACADE IS
ADDITION TO WIDEN 1930'S BOX CULVERT.

HI-52-19 BRIDGE DECK AND ROAD FROM ABOVE, LOOKING DOWN HILL
TOWARD BOTTOM OF CRATER ROAD.

HI-52-20 SAME BRIDGE, LOOKING UPHILL.

HI-52-21 BRIDGE PERSPECTIVE FROM DOWNSTREAM SIDE.

HI-52-22 OHE O BRIDGE AT SEVEN POOLS, CONTEXTUAL VIEW
SHOWING DOWNSTREAM ELEVATION WITH POOLS IN
FOREGROUND.

HI-52-23 OHE O BRIDGE, DOWNSTREAM ELEVATION.

HI-52-24 OHE O BRIDGE, POOL AND BEACH FROM ROAD DECK WITH
RAIL IN FOREGROUND.

HI-52-25 OHE O BRIDGE, 3/4 ELEVATION OF SOUTH PORTAL, VIEW
NE.

HI-52-26 OHE O BRIDGE, DECK VIEW, SOUTH PORTAL, WITH
PEOPLE.

HI-52-27 OHE O BRIDGE, DECK VIEW, SOUTH PORTAL, WITHOUT
PEOPLE.

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HI-52-28 OHE O BRIDGE, UPSTREAM ELEVATION.

INDEX TO COLOR TRANSPARENCIES

All color xerographic copies were made from a duplicate color transparency.

Jet Lowe, Photographer, April, 1998.

HI-52-29 (CT) ROAD TO SUMMIT SHOWING VISITOR OVERLOOK AND "SCIENCE CITY," FROM ATOP WHITE HILL. NOTE THE ARCHAEOLOGICAL REMAINS OF WHAT APPEARS TO BE A CIRCULAR SHELTER AT LOWER RIGHT.

HI-52-30 (CT) ROAD TO SUMMIT (RIGHT) AND SLIDING SANDS HIKING TRAIL, FROM WHITE HILL.

HI-52-31 (CT) HALEAKALA CRATER AND CINDER CONES.

HI-52-32 (CT) MILEPOST 19, VIEW NE.

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These images are photographic copies of historic photographs located in the Hawaii Volcanoes National Park Archives. Unless otherwise noted, the photographer is unknown.

HI-52-33 From "Superintendent's Monthly Report," February 1934.
"SHOVEL WORKING IN ROAD CUT NEAR BRIDGE CONSTRUCTION."

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- HI-52-34 From "Final Construction Report on the Haleakala Road Project--NR-7, Hawaii National Park, Island of Maui, Territory of Hawaii," H.L. Handley, Assistant Highway Engineer, March 30, 1935.
"... NOTE HOW THE LOCATION FITS THE CONTOUR OF THE HILL. LOOKING FROM STATION 382+00 ON HALEAKALA HIGHWAY."
- HI-52-35 From "Final Construction Report on the Haleakala Road--Project NR-7, Hawaii National Park, Island of Maui, Territory of Hawaii."
"LOOKING BACK FROM STATION 335 AT RETURN CURVE."
- HI-52-36 From Final Construction Report on the Haleakala Road--Project NR-7, Hawaii National Park, Island of Maui, Territory of Hawaii."
"TYPICAL RUBBLE MASONRY HEADWALL AND BOX CULVERT."
- HI-52-37 From "Final Construction Report on the Haleakala Road--Project NR-7, Hawaii National Park, Island of Maui, Territory of Hawaii."
"HAND-LAID ROCK BERM ON RETURN CURVE TO PREVENT SCOUR AND SEEPAGE THROUGH FILLS."
- HI-52-38 From "Final Construction Report on the Haleakala Road--Project NR-7, Hawaii National Park, Island of Maui, Territory of Hawaii."
"BRIDGE AT STATION 85+."
- HI-52-39 From "Final Construction Report, Haleakala Road--Project 7, Hawaii National Park, Island of Maui, Territory of Hawaii, T.H.," by Merel S. Sager, Resident Landscape Architect, April 16, 1935.
"COVERING CONSPICUOUS ROCK FILLS WITH SOIL."

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- HI-52-40 From "Final Construction Report, Haleakala Road--
Project 7, Hawaii National Park, Island of Maui,
Territory of Hawaii, T.H."
"GENERAL VIEW OF THE PROJECT SHOWING CONSPICUOUS
SCARS." THE "BEFORE" PHOTO OF A "BEFORE AND
AFTER" SET. "AFTER" PHOTO IS HI-52-41.
- HI-52-41 From "Final Construction Report, Haleakala Road--
Project 7, Hawaii National Park, Island of Maui,
Territory of Hawaii, T.H."
"VIEW FROM APPROXIMATELY THE SAME SPOT SHOWING HOW
COVERING THE ROCK FILLS WITH SOIL HAS ALMOST
OBLITERATED THESE SCARS. TO IDENTIFY A POINT FOR
COMPARISON NOTICE THE BRIDGE GULCH JUST TO THE
LEFT OF THE CENTER IN THE UPPER PICTURE AND
COMPARE WITH THE SAME GULCH IN THE LOWER PICTURE."
THE "AFTER" PHOTO OF A "BEFORE AND AFTER" SET.
"BEFORE" PHOTO IS HI-52-40.
- HI-52-42 From "Superintendent's Monthly Report," March
1935.
"DEDICATION OF HALEAKALA HIGHWAY, FEBRUARY 23,
1935. A ONE-HOUR RADIO BROADCAST BY KGU IN
HONOLULU WAS TRANSMITTED FROM THE SUMMIT
CEREMONIES TO ISLANDERS THROUGHOUT THE TERRITORY."
- HI-52-43 From "Superintendent's Monthly Report," March
1936.
Haleakala District Ranger J.A. Peck, Photographer.
"THIS IS HAWAII - CLEARING SNOW FROM HALEAKALA
ROAD AFTER STORM. HOWEVER THIS IS NOT A
PRELIMINARY JUSTIFICATION FOR THE PURCHASE OF
ROTARY PLOW. PHOTO PECK, FEB. 5."
- HI-52-44 From "Superintendent's Monthly Report," July 1936.
"ASSOCIATE ARCHITECT MR. MEREL S. SAGER, WHO HAS
BEEN TRANSFERRED BACK TO THE MAINLAND. IT IS NOT
BELIEVED THE BOTTLE HE IS CARRYING IS MILK."

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- HI-52-45 From "Superintendent's Monthly Report," June 1941.
"VIEW OF SUMMIT OBSERVATION STATION, PARKING LOT,
AND HALEAKALA HIGHWAY."
- HI-52-46 From "Superintendent's Monthly Report," July 1954.
"ENTRANCE TO NEW SILVERSWORD OVERLOOK ROAD. A
TRAFFIC WYE, WITH 24 FOOT DIVIDED LANE ON EITHER
SIDE OF THE CENTRAL ISLAND, WAS PROVIDED FOR
SAFETY."

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Addendum to
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Photographs HI-52-1 to HI-52-46 were previously transmitted to the Library of Congress.

David Franzen, Photographer

February- March 2012

ROAD OVERVIEW PHOTOGRAPHS (#47-88)

- HI-52-47 Overview of road looking uphill from the Park boundary showing the entrance kiosk. View facing southwest.
- HI-52-48 Overview of road looking downhill toward the Hosmer Grove intersection. View facing north northwest.
- HI-52-49 Overview of road showing switchback 1, looking downhill. View facing north northwest.
- HI-52-50 Overview of road looking downhill toward switchback 1. View facing north northeast.
- HI-52-51 Overview of road looking downhill from near Park headquarters. View facing north.
- HI-52-52 Overview of road looking uphill from near Park headquarters toward switchback 2. View facing south southwest.
- HI-52-53 Overview of road looking downhill toward switchback 2. View facing southwest.
- HI-52-54 Overview of road looking downhill toward switchback 2. Note park headquarters in the background. View facing west southwest.
- HI-52-55 Overview of road looking downhill toward the bridge. View facing west southwest.
- HI-52-56 Overview of road looking cross-country toward switchback 1. View facing west northwest.

- HI-52-57 Overview of road looking uphill toward switchback 3. View facing east.
- HI-52-58 Overview of road looking downhill from below switchback 3. View facing west.
- HI-52-59 Overview of road showing switchback 3. Taken from a service road that intersects the outer curve of the switchback. View facing west.
- HI-52-60 Overview of road looking downhill toward switchback 3. View facing north northeast.
- HI-52-61 Overview of road looking downhill toward switchback 3. View facing east.
- HI-52-62 Overview of road looking downhill from below switchback 4. View facing north northeast.
- HI-52-63 Overview of road looking downhill from switchback 4. View facing north.
- HI-52-64 Overview of road showing switchback 4. View facing north northwest.
- HI-52-65 Overview of road looking uphill from switchback 4. View facing northeast.
- HI-52-66 Overview of road looking downhill from below switchback 5. View facing southwest.
- HI-52-67 Overview of road looking downhill from below switchback 5. View facing southwest.
- HI-52-68 Overview of road looking downhill showing switchback 5. View facing northeast.
- HI-52-69 Overview of road looking downhill toward switchback 5. View facing northeast.
- HI-52-70 Overview of road looking cross-country toward switchback 5. View facing northeast.
- HI-52-71 Overview of road looking downhill from below switchback 6. View facing northeast.
- HI-52-72 Overview of road looking uphill toward switchback 6. View facing southwest.
- HI-52-73 Overview of road showing switchback 6. View facing west.
- HI-52-74 Overview of road looking downhill toward switchback 6. View facing southwest.

- HI-52-75 Overview of road looking uphill toward switchback 7. View facing east.
- HI-52-76 Overview of road looking cross-country. View facing west northwest.
- HI-52-77 Overview of road showing switchback 7. View facing west.
- HI-52-78 Overview of road looking downhill toward switchback 7. View facing northeast.
- HI-52-79 Overview of road looking uphill toward switchback 8. View facing southwest.
- HI-52-80 Overview of road showing switchback 8 and road uphill. View facing northeast.
- HI-52-81 Overview of road showing switchback 9. View facing north.
- HI-52-82 Overview of road looking uphill from switchback 9. View facing southwest.
- HI-52-83 Overview of road looking uphill from above switchback 9. View facing southwest.
- HI-52-84 Overview of road looking downhill toward switchback 9. View facing northeast.
- HI-52-85 Overview of road looking uphill toward summit. View facing southwest.
- HI-52-86 Overview of road looking uphill toward summit. View facing south southwest.
- HI-52-87 Overview of road looking downhill from near White Hill intersection. View facing north.
- HI-52-88 Overview of road looking toward summit from near White Hill intersection. View facing south.

CULVERT & BRIDGE PHOTOGRAPHS (#89-181)

- HI-52-89 0.627 culvert inlet. Elevation with scale device. View facing northwest.
- HI-52-90 0.627 culvert outlet. Oblique. View facing southwest.
- HI-52-91 0.844 culvert inlet. Oblique. View facing north.
- HI-52-92 0.844 culvert outlet. Elevation with scale device. View facing south southeast.
- HI-52-93 0.883 culvert inlet. Oblique. View facing south southwest.

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- HI-52-94 0.883 culvert outlet. Elevation with scale device. View facing east southeast.
- HI-52-95 0.993 culvert inlet. Oblique. View facing west.
- HI-52-96 0.993 culvert outlet. Oblique. View facing southeast.
- HI-52-97 1.296 culvert inlet. Elevation with scale device. View facing northwest.
- HI-52-98 1.296 culvert outlet. Oblique. View facing east.
- HI-52-99 1.361 culvert outlet. Oblique. View facing southwest. Note: this culvert's inlet was inaccessible – no photo taken.
- HI-52-100 1.550 culvert inlet. Oblique. View facing west southwest.
- HI-52-101 1.550 culvert outlet. Elevation with scale device. View facing southeast.
- HI-52-102 1.558 culvert inlet. Elevation with scale device. View facing north.
- HI-52-103 1.558 culvert outlet. Oblique. View facing southeast.
- HI-52-104 Bridge overview looking downhill. View facing west northwest.
- HI-52-105 Bridge showing the inboard side of the upstream parapet. View facing southwest.
- HI-52-106 Bridge showing the inboard side of the downstream parapet. View facing north northeast.
- HI-52-107 Bridge parapet elevation detail with scale device. Showing the masonry of the upstream parapet. View facing south.
- HI-52-108 Bridge showing the underside of the bridge deck. View facing northeast.
- HI-52-109 1.705 culvert inlet. Oblique. View facing northeast.
- HI-52-110 1.705 culvert outlet. Oblique. View facing southeast.
- HI-52-111 1.777 culvert inlet. Elevation with scale device. View facing northwest.
- HI-52-112 1.777 culvert outlet. Oblique. View facing southeast.
- HI-52-113 1.847 culvert inlet. Oblique. View facing northeast.

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HI-52-114	1.847 culvert outlet. Oblique. View facing south
HI-52-115	1.993 box culvert inlet. Oblique. View facing north.
HI-52-116	1.993 box culvert outlet. Elevation with scale device. View facing south southwest.
HI-52-117	1.993 box culvert detail showing the diversion feature upstream of the culvert. View facing south.
HI-52-118	2.010 culvert inlet. Elevation with scale device. View facing northwest.
HI-52-119	2.010 culvert outlet. Elevation with scale device. View facing south southeast.
HI-52-120	2.113 culvert inlet. Elevation with scale device. View facing north.
HI-52-121	2.113 culvert outlet. Oblique. View facing south southeast.
HI-52-122	2.195 culvert inlet. Oblique. View facing north.
HI-52-123	2.195 culvert outlet. Elevation with scale device. View facing southeast.
HI-52-124	2.428 culvert inlet. Oblique. View facing northwest.
HI-52-125	2.428 culvert outlet. Elevation with scale device. View facing south southeast.
HI-52-126	2.497 culvert inlet. Oblique. View facing west.
HI-52-127	2.497 culvert outlet. Elevation with scale device. View facing southeast.
HI-52-128	2.621 box culvert inlet. Elevation with scale device. View facing northwest.
HI-52-129	2.621 box culvert outlet. Elevation with scale device. View facing southeast.
HI-52-130	2.700 culvert inlet. Oblique. View facing northwest.
HI-52-131	2.700 culvert outlet. Elevation with scale device. View facing south.
HI-52-132	2.855 culvert inlet. Elevation with scale device. View facing west.
HI-52-133	2.855 culvert outlet. Oblique. View facing north east.

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- HI-52-134 2.863 culvert inlet. Oblique. View facing southwest. Note: this culvert outlet was inaccessible – no photo taken.
- HI-52-135 2.937 box culvert inlet. Oblique. View facing northwest.
- HI-52-136 2.937 box culvert outlet. Elevation with scale device. View facing southeast.
- HI-52-137 2.950 box culvert inlet. Elevation with scale device. View facing northwest.
- HI-52-138 2.950 box culvert outlet. Oblique. View facing south southeast.
- HI-52-139 3.345 culvert inlet. Oblique. View facing north northwest.
- HI-52-140 3.345 culvert outlet. Elevation with scale device. View facing east.
- HI-52-141 3.513 culvert inlet. Oblique. View facing northwest.
- HI-52-142 3.513 culvert outlet. Oblique. View facing south southeast.
- HI-52-143 3.583 culvert inlet. Oblique. View facing southwest.
- HI-52-144 3.583 culvert outlet. Elevation with scale device. View facing east.
- HI-52-145 3.698 culvert inlet. Elevation with scale device. View facing northwest.
- HI-52-146 3.698 culvert outlet. Elevation with scale device. View facing southeast.
- HI-52-147 3.789 culvert inlet. Elevation with scale device. View facing northwest.
- HI-52-148 3.789 culvert outlet. Oblique. View facing east southeast.
- HI-52-149 3.966 box culvert inlet. Elevation with scale device. View facing north.
- HI-52-150 3.966 box culvert outlet. Elevation with scale device. View facing south.
- HI-52-151 3.966 box culvert detail showing the raised stone roadway curb formed by the top courses of the inlet headwall. View facing west.
- HI-52-152 4.209 box culvert inlet. Elevation with scale device. View facing northwest.
- HI-52-153 4.209 box culvert outlet. Oblique. View facing southeast.
- HI-52-154 4.250 culvert inlet. Oblique. View facing west northwest.

HI-52-155 4.250 culvert outlet. Oblique. View facing south.

HI-52-156 4.300 culvert inlet. Oblique. View facing north.

HI-52-157 4.300 culvert outlet. Oblique. View facing east northeast.

HI-52-158 4.800 culvert inlet. Oblique. View facing north northwest.

HI-52-159 4.800 culvert outlet. Oblique. View facing east.

HI-52-160 4.873 culvert inlet. Oblique. View facing north northwest.

HI-52-161 4.873 culvert outlet. Elevation with scale device. View facing southeast.

HI-52-162 4.985 box culvert inlet. Elevation with scale device. View facing northwest.

HI-52-163 4.985 box culvert outlet. Oblique. View facing south.

HI-52-164 5.212 box culvert inlet. Elevation with scale device. View facing northwest.

HI-52-165 5.212 box culvert outlet. Oblique. View facing east.

HI-52-166 5.819 box culvert inlet. Elevation with scale device. View facing west.

HI-52-167 5.819 box culvert outlet. Oblique. View facing east southeast.

HI-52-168 5.840 box culvert inlet. Elevation with scale device. View facing west.

HI-52-169 5.840 box culvert outlet. Oblique. View facing east southeast.

HI-52-170 5.910 box culvert inlet. Elevation with scale device. View facing northwest.

HI-52-171 5.910 box culvert outlet. Oblique. View facing south.

HI-52-172 6.269 culvert inlet. Oblique. View facing west.

HI-52-173 6.269 culvert outlet. Oblique. View facing southeast.

HI-52-174 6.499 culvert inlet. Oblique. View facing southwest.

HI-52-175 6.499 culvert outlet. Oblique. View facing northeast.

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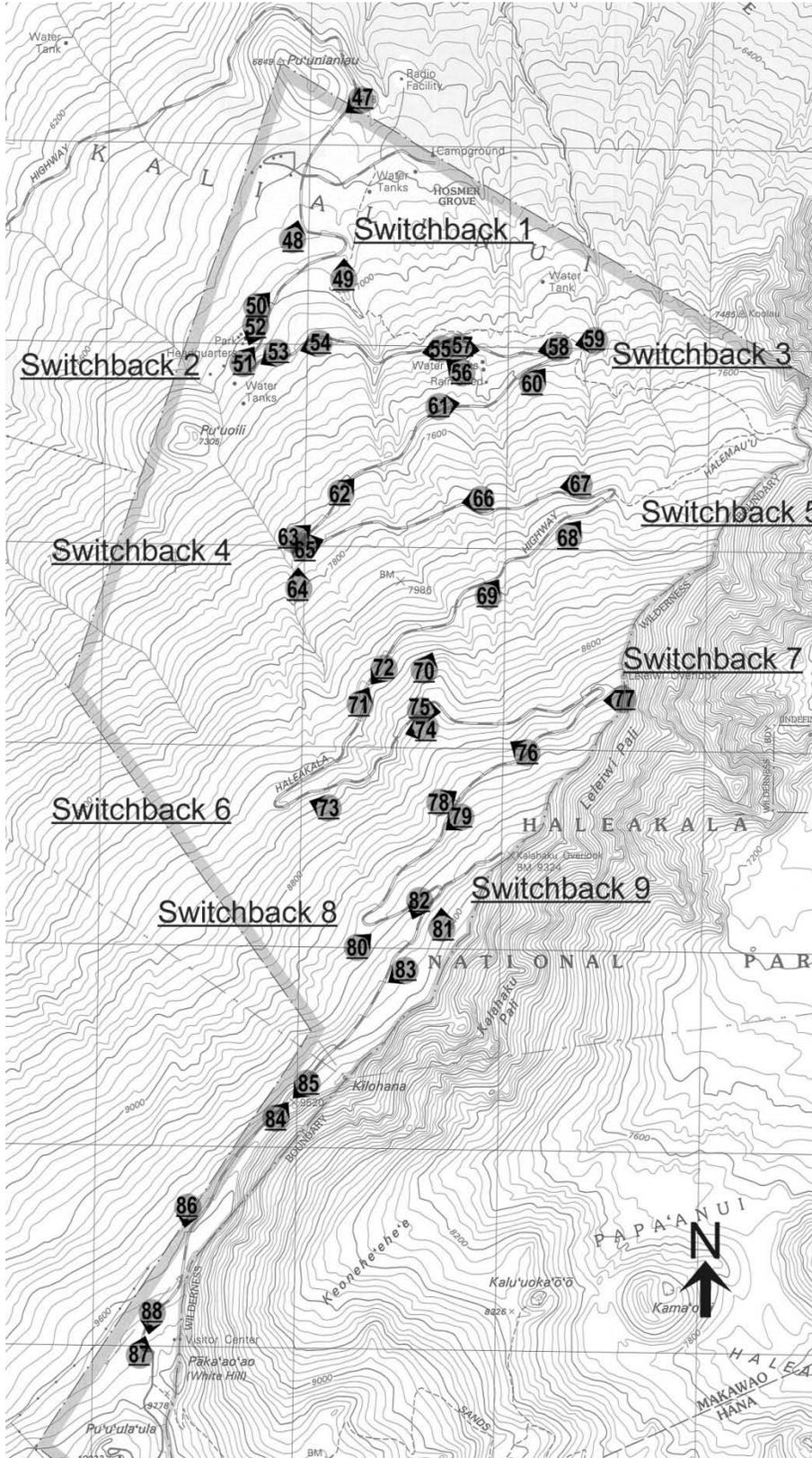
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- HI-52-176 6.599 culvert inlet. Oblique. View facing west.
- HI-52-177 6.599 culvert outlet. Elevation with scale device. View facing east.
- HI-52-178 8.547 culvert inlet. Elevation with scale device. View facing northwest.
- HI-52-179 8.547 culvert outlet. Elevation with scale device. View facing southeast.
- HI-52-180 10.500 culvert inlet. Elevation with scale device. View facing northwest.
- HI-52-181 10.500 culvert outlet. Oblique. View facing east.

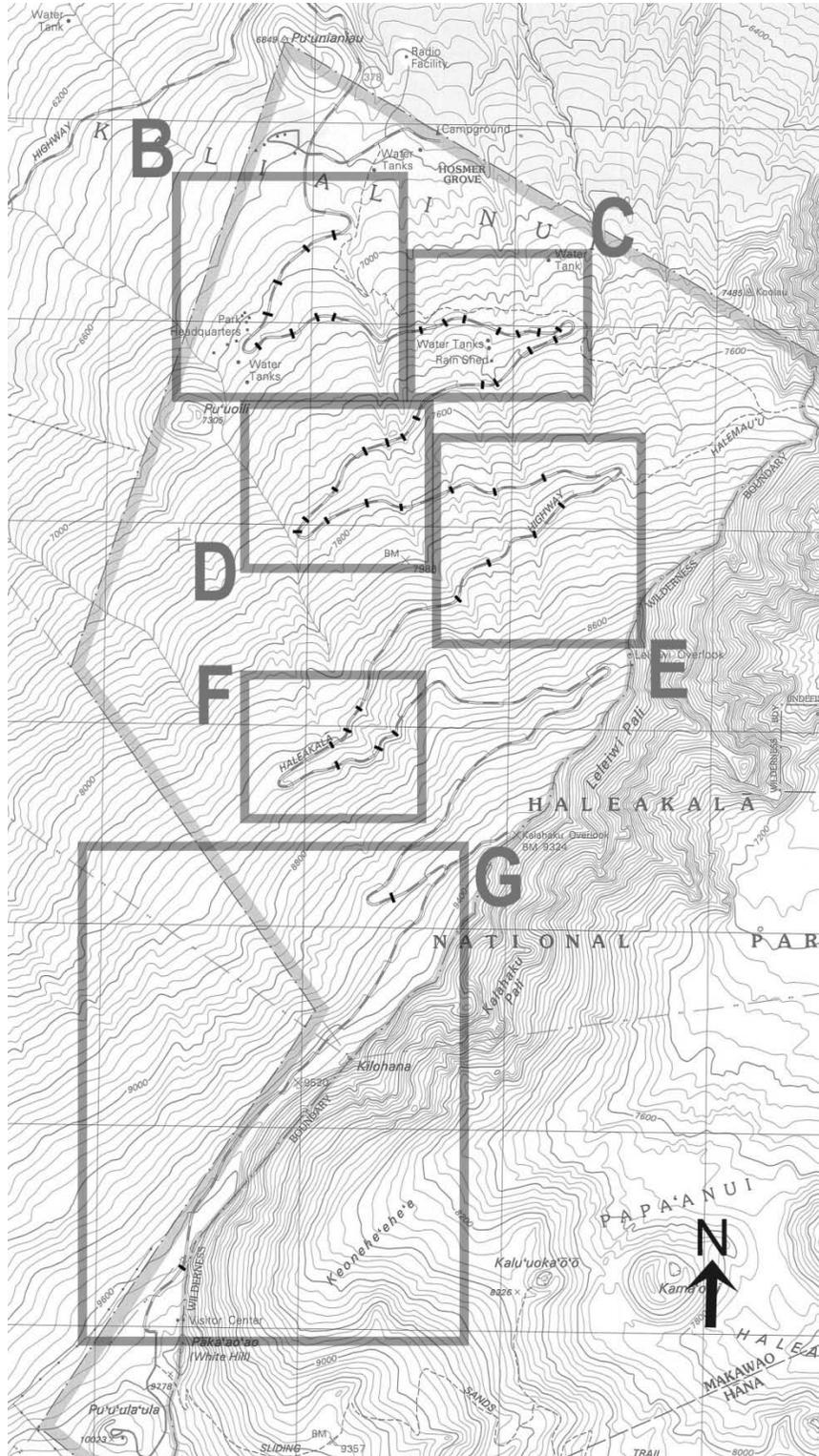
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Photo key section "A" for road overview photographs 47 through 88. No scale.



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Photo key showing the following key sections "B" through "G" for culvert (and bridge) photographs 89 through 181. See the following lettered key sections for individual photo locations. No scale.



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Photo key section "B" for culverts 0.627 through 1.558 and the bridge, photos HAER HI-52-89 through HAER HI-52-108. No scale.

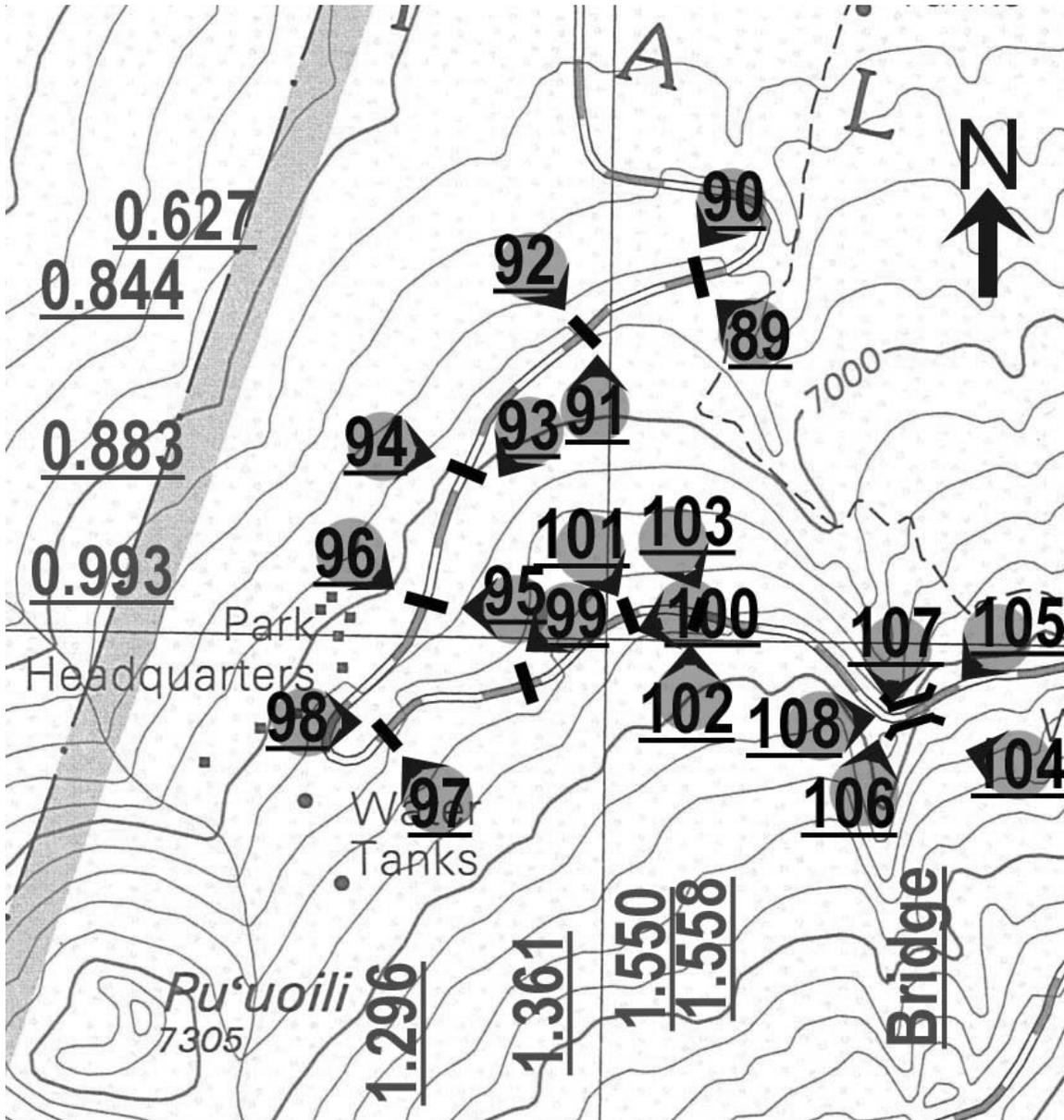


Photo key section "C" for culverts 1.705 through 2.700, photos HAER HI-52-109 through HAER HI-52-131. No scale.

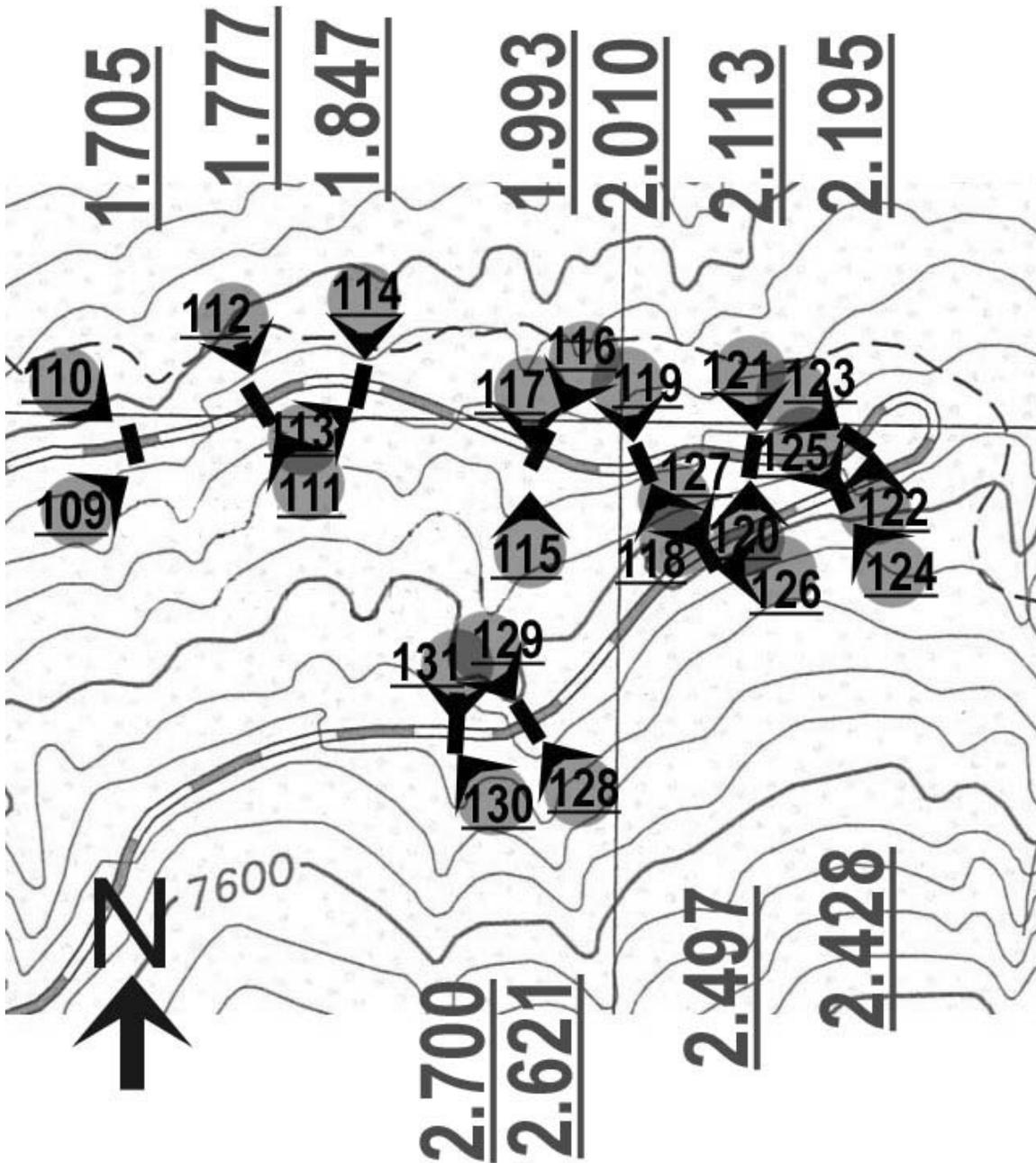
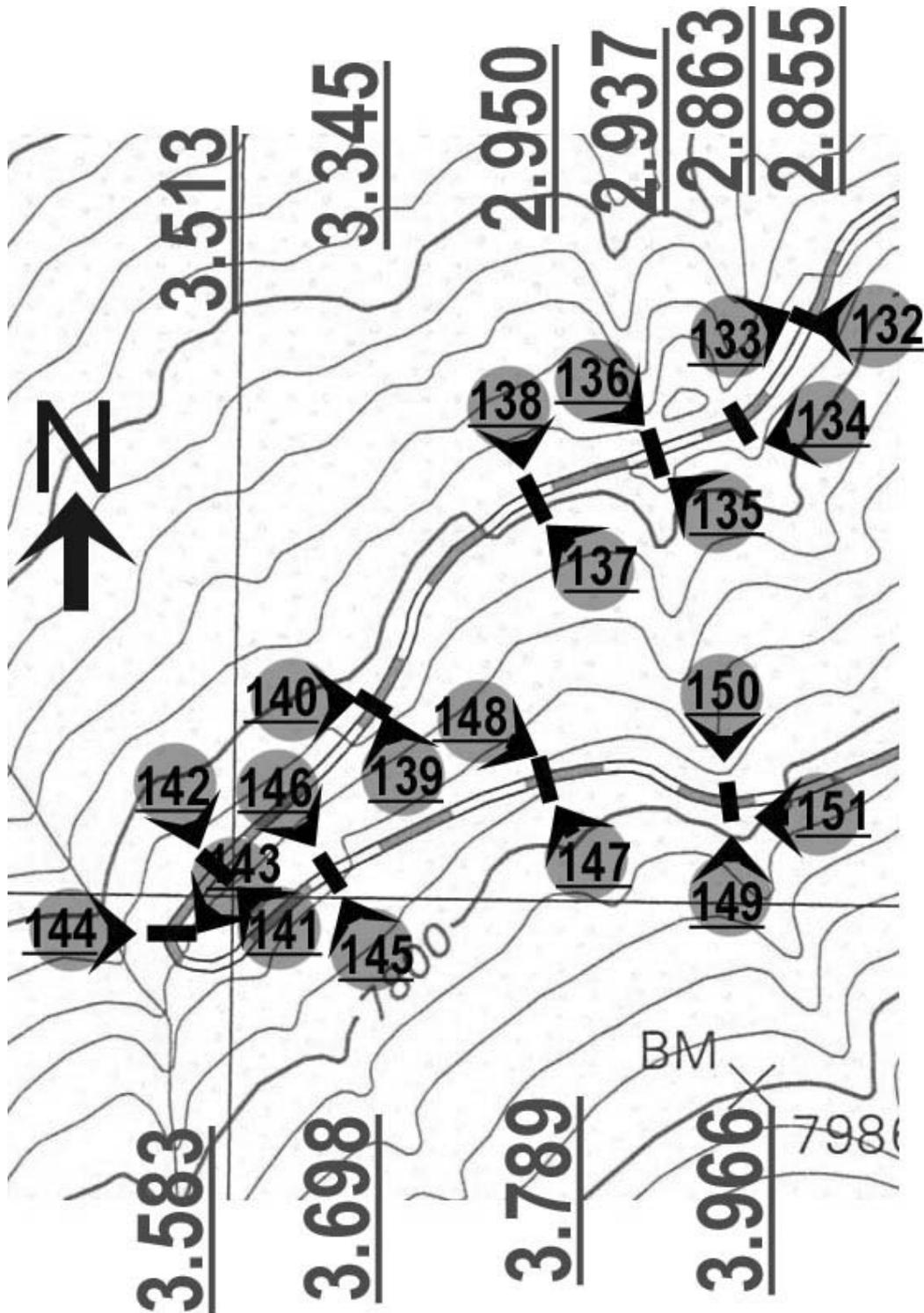


Photo key section "D" for culverts 2.855 through 3.966, photos HAER HI-52-132 through HAER HI-52-151. No scale.



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Photo key section "E" for culverts 4.209 through 5.212, photos HAER HI-52-152 through HAER HI-52-165. No scale.

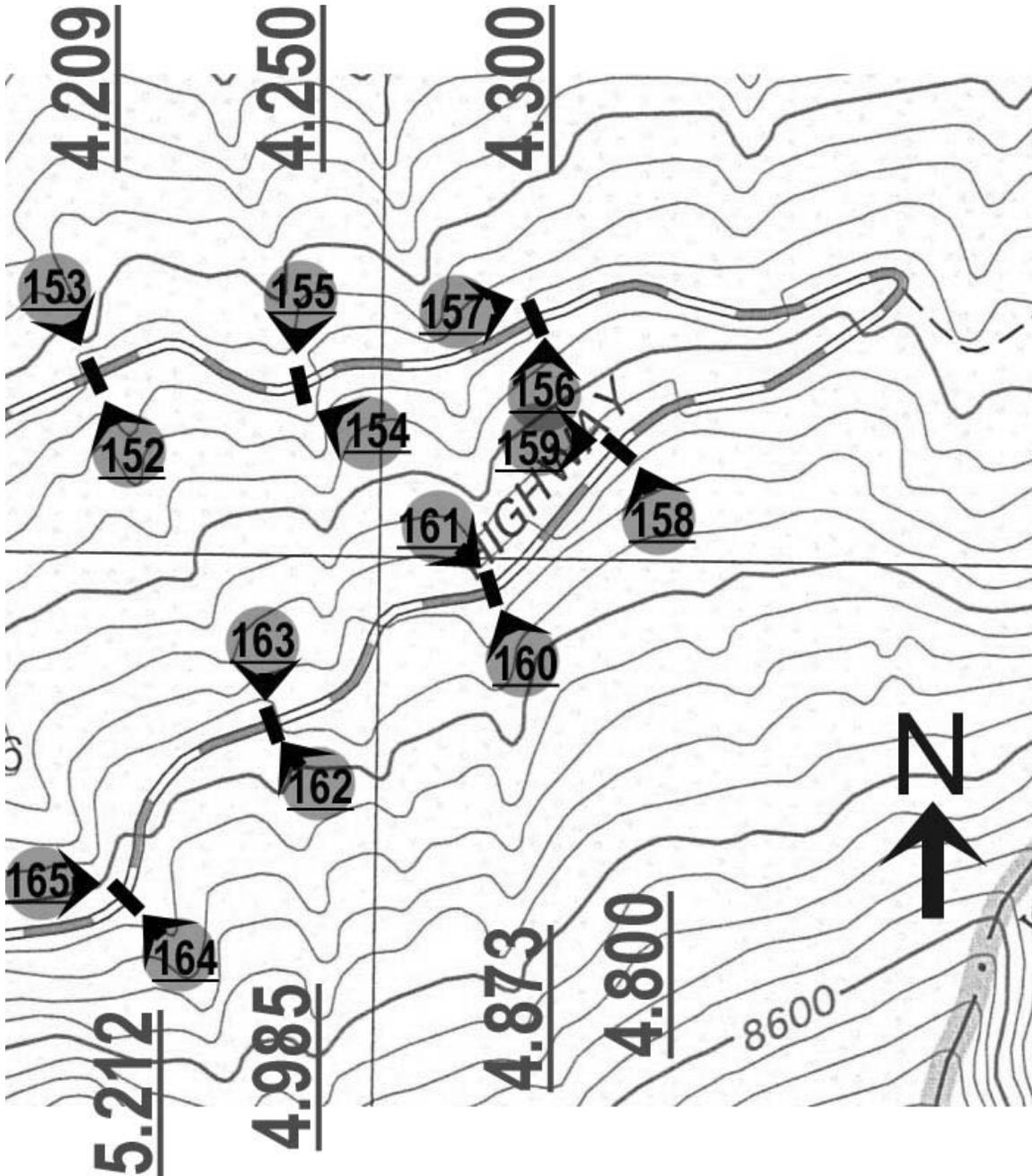
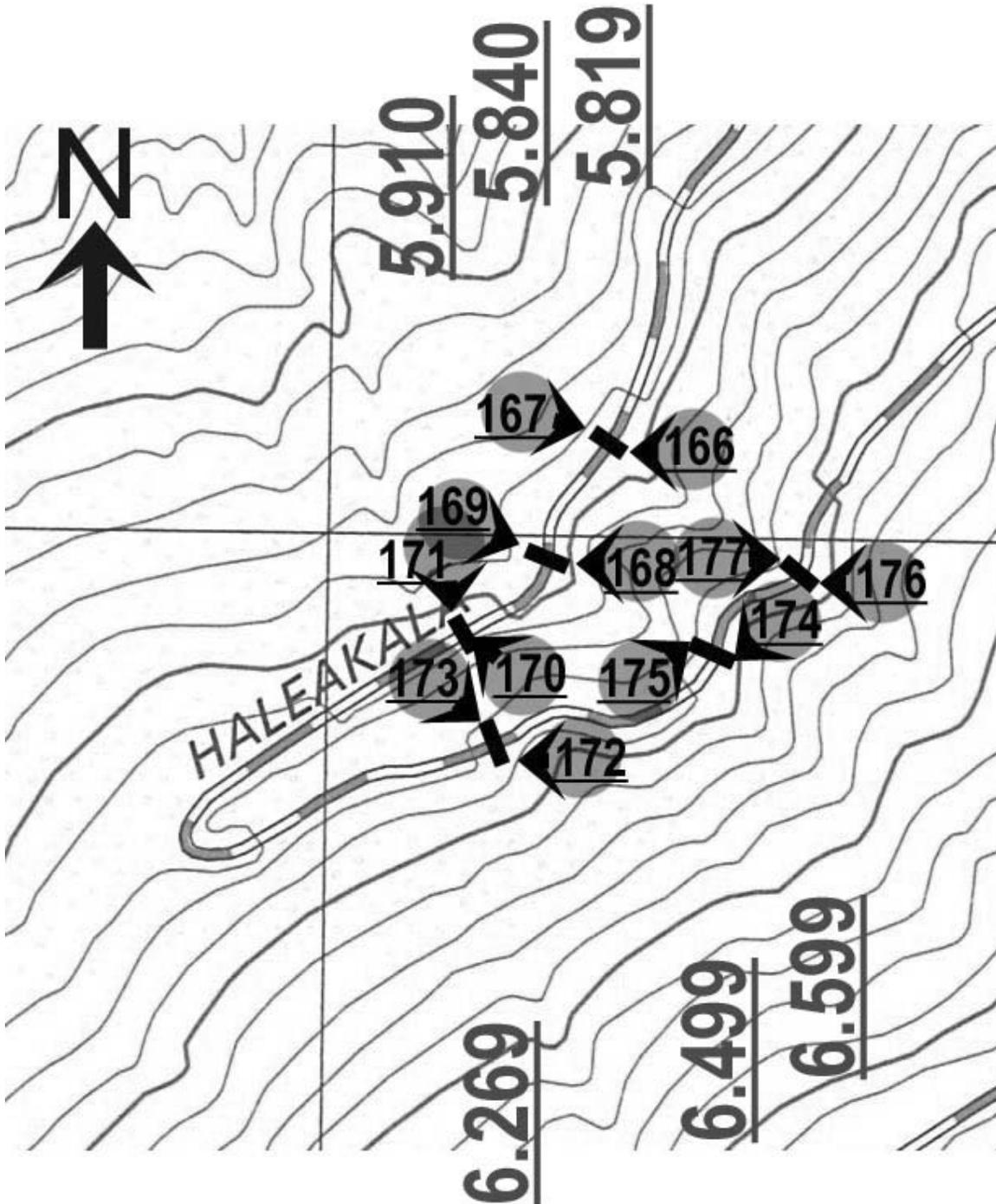


Photo key section "F" for culverts 5.819 through 6.599, photos HAER HI-52-166 through HAER HI-52-177. No scale.



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Photo key section "G" for culverts 8.547 and 10.500, photos HAER HI-178 through HAER HI-181. No scale.

