SITE NUMBER: H-428R-01A (was H-L2-06)
LOCAL NAME: Barlow Pond
WRIA: 20.0428B

NORTH COAST OFF CHANNEL SITE INVENTORY DATA

RIVER SYSTEM: Hoh River (Rev. 9/88) **DATE:** 6-30-87 **OBSERVER:** Young/Nettnin
CHANNEL TYPE: Gravel pit.

TRIBUTARY TO: Braden Ck. (22.0428)

SITE LOCATION: L.B. @ R.M. 5.0 - 5.2

LEGAL DESCRIPTION:

SOURCE OUTLET POND
WATER TEMP.: (See water temps. later in writeup)

SITE SIZE: **Length-** 1.8 acres
Width-
Depth- Avg. 3.5' Max. 6.2'.

WATER SOURCE: Groundwater.

DIRECTIONS TO SITE: Turn west at the G and L shake mill approx. - mile north of the Braden ck. bridge crossing highway 101. Stay to the left at fork in the road. Road takes you to the north end of the gravel pit.

FISH ACCESS AND CURRENT USE: Pit was originally inaccessible before an outlet channel was dug to connect the pond to Braden Creek in 1988.

FLOODING POTENTIAL: Low.

LANDOWNER: C.E. Barlow

COMMENTS & RECOMENDATIONS: The channel entering Braden Ck. the furthest downstream appears to receive overflow water more often then the rest of the channels in this area. It has a very muddy bottom at its lower end. This channel drains the area southwest of the pit. Open rangeland throughout allows cattle free access to all areas.

GPS: (decimal degrees, Datum WGS84): 11/02
fishway - N47.74202, W124.35667

DATE: 11/21/87 **OBSERVER:**
D.O.'s were taken. Pond level had increased to the point where there were no isolated pools. Level was staked.

DATE: 12/3/87 **OBSERVER:**
Water level staked. USGS gauge at 6.75'.

DATE: 12/6/87 **OBSERVER:**
Water level staked. USGS gauge at 9.2'. Pond level had only come up 4" above level on 12-3-87.

DATE: 12/10/87 **OBSERVER:** Nettnin
Rock pit near G&L Shake Co. area of road that goes through the main part of the pit has 4 to 5 inches of water over it. Staked pond level near Kings stakes. Also staked differential in two ponds, near road, in center.

DATE: 12/11/87 **OBSERVER:** Nettnin
Water Temp. 45F
Air Temp. 36F
Around 11CFS where channel crosses road. Water is clear. No adults observed and no redds. All channels near river are three quarters full of river water. Water has been up to the alders in this area.

DATE: 12/28/87 **OBSERVER:**
Pond level at 72" at pond TBM. USGS gauge at 3.5'.

DATE: 1/6/88 **OBSERVER:**
Gravel pit ponds at H-L2-06 - The elevations of stakes which marked various pond levels were shot today (see Pat Powers). Two additional water temperatures were also taken. 1.) SW corner of the south pond - 41 F 2.) NE corner of the north pond - 49 F. Note: Air Temp was at 49 F at the time water temps were taken.

DATE: Summer 1988 **OBSERVER:**
An egress channel was dug from the pond to Braden Creek and the central section of the pond was deepened by excavating a trench.

DATE: Fall 1988 **OBSERVER:**

Flow control weirs were installed at the outlet of the pond to monitor flows and to set the pond level at a predesigned point.

DATE: 10/88 **OBSERVER:** Nettnin
Seeded banks of excavated channel. Spread hay on banks to reduce erosion. Placed habitat structures in channel. Much of this work was done by crews from the Clearwater Correction Center.

DATE: 11/88 **OBSERVER:**
Installed a temporary control weir at the outlet of the pond.

DATE: 11/22/88 **OBSERVER:** Nettnin/Young
Gauge readings at weir:
Upstream gauge = 16.75 inches
Downstream gauge = 20.25 inches
Note: Water completely covered the lower weir. There was about a 2 inch plunge over the upper weir. The notch in the upper weir was reduced to a width of two feet.

DATE: 12/6/88 **OBSERVER:** Nettnin/Young
Electroshocked around all cover structures in the SW part of the south pond (i.e. near the pond outlet and weir) and in the egress channel downstream of the weir. Results are listed below:

Site	Area	Effort	Results	(Sec.)
1.)	Six root wads in the	147	No fish. Excellent habitat.	SW lobe of the pond.
2.)	Two root wads just	34	No fish. Excellent habitat.	above pond outlet.
3.)	Egress channel (from	143	No fish. Excellent habitat.	weir downstream 50 to 75 m).

DATE: 12/19/88 **OBSERVER:**

Pond depths were recorded and total area figured. Average depth = 3.5 feet. Maximum depth = 6.2 feet. Total area = 7423 sq.m. or 1.8 acres.

DATE: 1/6/89 **OBSERVER:**
Upstream gauge at weir read 17.25 inches. Downstream control was spilling water. The control boards have warped and bent. This situation does not appear to be critical, however. The bags on the left bank of the upstream control had tipped over and fallen toward the pond. These bags were replaced.

DATE: 1/12/89 **OBSERVER:**
Juvenile fish were seen in the pond.

DATE: Spring 1989 **OBSERVER:**
Pond was trapped for outmigrant smolts and 749 coho were trapped.

DATE: 7/25/89 **OBSERVER:** Young

Has been rather cool and damp so far this summer. These observations were made between 10:00 and 10:30. The pond contains significant water but there was no outflow. Water temperature of the pond just above the new concrete fishway (i.e. at the outlet of the pond) was 19.5° C (or 67° F) . Fish in the pond seemed very active and were seen hitting the surface frequently.

DATE: Summer 1989 **OBSERVER:**

A concrete fish ladder was installed in the outlet of the pond and more LOD was added. A snorkle survey was done in August of 1989 and schools of coho fry were seen using the deeper center portion of the pond rather than the shallows. Water temps are recorded in the table below.

DATE: 10/26/89 **OBSERVER:** Young

4 to 5 inches of rain from 10/20 to 10/23. D.K. stopped by site on 10/23 and pulled upper dam board at fishway. At the time of this observation the temperature of the water leaving the pond was 12 C. There was about a one inch drop over the upper dam board while the two lower boards were completely submerged. Water appears to be backing into the channel from Braden Creek. Water temp of Braden Cr. was 11 C.

DATE: 11/22/89 **OBSERVER:**

Depth of water over upper stop log in fishway = 1.25".

DATE: 12/18/89 **OBSERVER:**

Depth of water over stop log = 1". It has been 2 weeks since the last rain.

Barlow Pond

	Date	Pond Avg.	Source	Outlet
Pre-Proj.	9-2-87	70°	----	N.A.
" "	9-24-87	63°	54°	N.A.
" "	11-20-87	52°	52°	N.A.
" "	12-3-87	48°	----	N.A.
" "	12-28-87	42°	----	N.A.
" "	1-6-88	41°	----	N.A.
Post-Proj.	7-25-89	66°	56°	66°
" "	8-1-89	61°	51°	63°
" "	8-9-89	63°	51°	65°
" "	8-22-89	61°	51°	62°
" "	9-13-89	---	---	63°

DATE: 10/26/94 **OBSERVER:** King

Good flow. Everything looks good. Fishway was open. Small amount of beaver debris in the upper control was removed. Outlet channel looks great! No fish were seen in project area.

DATE: 3/27/95 **OBSERVER:** Darrow

A small beaver dam blocking control bays was removed. There is a small lower dam in channel above confluence with creek -this is not a barrier. Several dozen coho fry were observed in control bays and below control apron.

DATE: 11/2/95 **OBSERVER:** Powell/Darrow

There is an active beaver damming lower end (with confluence with creek) - we opened this dam. The fishway was also plugged with recent beaver activity - we pulled the majority of the debris out of the fishway; 3 cfs flow kept us from cleaning all the debris out. This project will need to be monitored for beaver activity. No fish were observed.

DATE: 4/1/96 **OBSERVER:** Darrow

Beaver activity continues in this area. Beaver dam was removed in the lower porion of the channel (16 - 18 feet above confluence of Bradden Cr.). This winter, a barrier fence was placed above fishway. It slowed activity down but the beaver has been going around the fence. Debris was cleared from fishway, and additional deterrents were placed on sides of barrier fence. This site will need periodic checks. A few fry were observed at the foot of the fishway.

DATE: 10/22/96 **OBSERVER:** Darrow
Cleared beaver debris from cement control at pond outlet and lower channel ~4-5 meters above confluence with Braden Creek; barrier screen is helping to keep dam size small. Hoh tribal biologist said they would monitor this spot.

DATE: 3/23/97 **OBSERVER:** Darrow
Beaver barrier screen above fishway appears to be working - no recent beaver activity. Dam at confluence has not been rebuilt either. Willow and alder are well established along pond. Pond level and flows seem to be stable and do not appear affected by gravel processing nearby. Did not observe any fry on this date, but did seem some rises in the upper-mid portion of the project.

DATE: 8/27/97 **OBSERVER:** Nettnin
Thinned alders along the shore and fell them into the pond to provide cover.

DATE: 10/9/97 **OBSERVER:** King
Project looked good, no problems.

DATE: 2/28/98 **OBSERVER:** Darrow
Fishway open and no recent beaver activity was encountered. Aquatic vegetation was moderate to heavy in pond. Estimated flow was ~ 3/4 - 1 CFS. A couple of rises were observed in open area of middle pond.

DATE: 10/25/98 **OBSERVER:** King
Channel was free of beaver dams or obstructions. Cement flume fishway at pond outlet had some drift debris at the top end which was removed. No fish were observed.

DATE: 4/4/99 **OBSERVER:** Darrow
Fishway was clear of debris and no recent beaver activity was encountered. Vegetation along pond bank is getting large and providing shade. Observed numerous fry at the base of the fishway.

DATE: 10/16/99 **OBSERVER:** Darrow
Beaver activity has resumed. Fishway and barrier fence had sticks that were removed. This site will need to be monitored. No beaver activity encountered in the channel downstream of the fishway.

DATE: 4/15/00 **OBSERVER:** Darrow
Beaver dam at fishway had been mostly removed. There was no beaver activity in the lower end of the channel. No recent beaver activity observed. Numerous coho fry and sticklebacks observed in the fishway.

DATE: 10/17/00 **OBSERVER:** Darrow
Fishway and barrier fence at outlet were clear of debris. It appears that new bay divider boards have been installed in the fishway. Good outflow. Road along channel has been dug out. Did not observe any fish.

DATE: 2/21/01 **OBSERVER:** Darrow
Project looks good. Aquatic vegetation is thick in many places. Rises were observed on the pond. Fishway and barrier fence remain clear of debris. Numerous ducks were observed on the pond.

DATE: 12/1/01 **OBSERVER:** Darrow
No beaver dams or barriers encountered. Some one is keeping barrier screen upstream of fishway cleaned off of debris. Observed a few adult coho at the confluence of the lower channel & Braden Cr.
DATE: 4/10/02 **OBSERVER:** Nettnin
There was a small amount of beaver debris at the inlet of the fishway. The fill material has eroded away on the right bank side of the fishway.

DATE: 11/7/02 **OBSERVER:** King
Opened beaver dams. Cleaned out fishway.
GPS: (decimal degrees, Datum WGS84):
fishway - N47.74202, W124.35667

DATE: 11/14/02 **OBSERVER:** King
Fishway is open and flowing. Observed one adult coho.

DATE: 2/27/03 **OBSERVER:** King
Removed a small amount of beaver debris from fishway.

DATE: 5/9/03 **OBSERVER:** King
Removed a small amount of beaver debris from fishway. Lots of fry downstream of fishway.

DATE: 10/28/03 **OBSERVER:** Nettnin
Access road is washed out. Project looks good. Removed some old beaver debris.

FISH PASSAGE FACT SHEET

FISHWAY/BARRIER: Barlow Pond

( ) New Fishway
( ) Fishway inspection
( ) Unresolved Fish Passage Problem
(X) Corrections or Additions the Database

STREAM/WRIA #: Trib to Braden Ck. (20.0428) RIVER MILE: ~0.5 (see King)

RIVER MILE OF FISHWAY/BARRIER: 0.05 LEGAL (S,T,R): SE¼ 22(26-13)

DIRECTIONS TO FISHWAY/BARRIER: Heading north on highway 101 turn left at the G and L shake mill approx. 0.5 miles north of the Braden ck. bridge crossing. Stay to the left at fork in the road. Road takes you to the north end of the gravel pit drive through the pit area to the south end where the project is.

DESCRIPTION OF FISHWAY/BARRIER: The fishway is of pre-cast concrete construction. There are three bays with plank weirs.

YEAR COMPLETED: 1989 IDENTIFIED BY/YEAR: D. King and P. Powers/1987

LANDOWNER: Rocky Fletcher PHONE NUMBER: See D. King

ADDRESS: Forks

MAINTENANCE CONTRACT: None

FISHWAY CONDITION:(X) DURABLE AND EFFICIENT ( ) MAINTENANCE NEEDED

MAINTENANCE PERFORMED WHILE ON SITE: Removed sticks. Modified beaver debris to allow better downstream passage.

MAINTENANCE/REPAIRS REQUIRED: None at this time.

PRIMARY SPECIES (impacted by barrier or utilizing fishway): Coho and trout

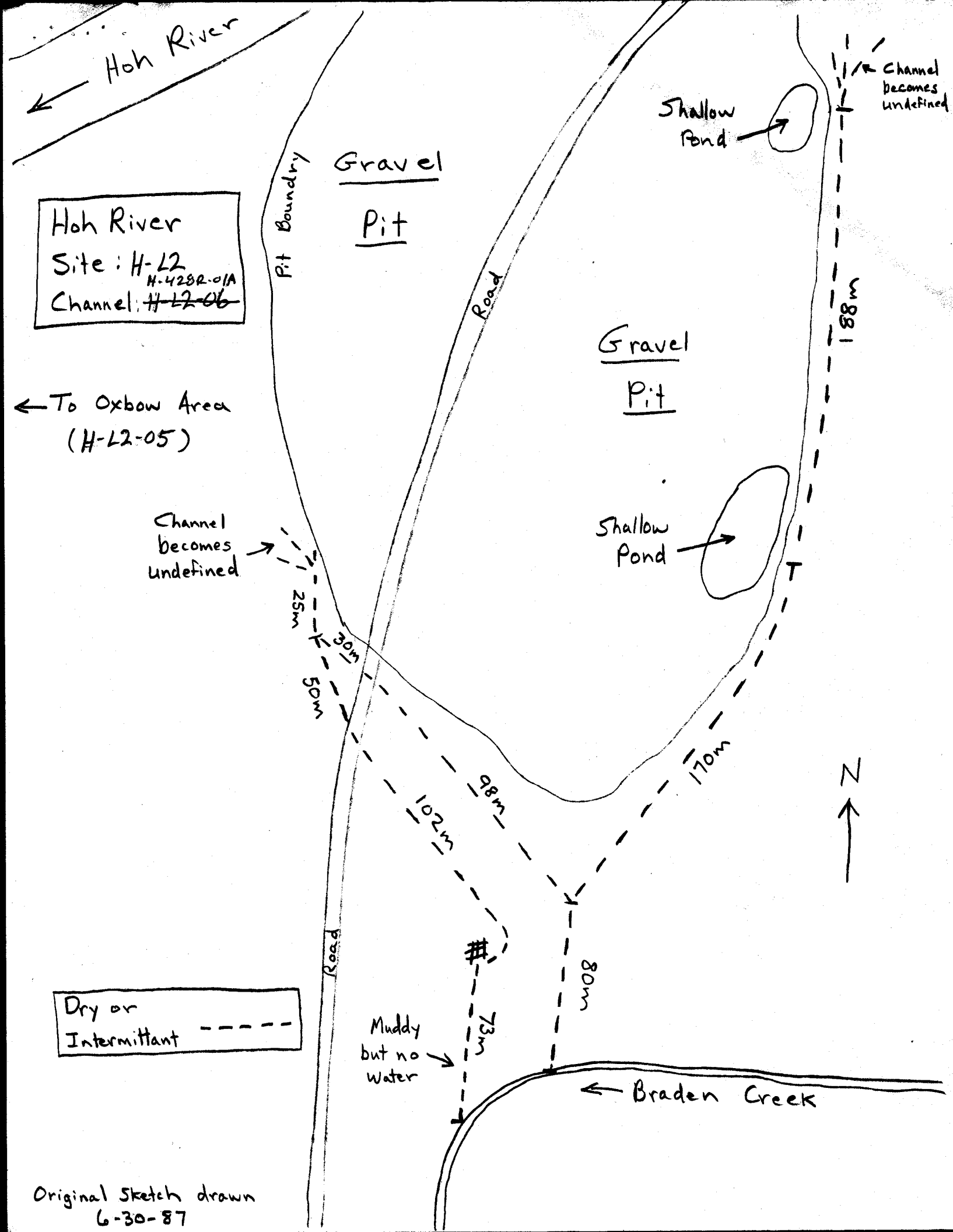
HABITAT AVAILABLE ABOVE FISHWAY OR BARRIER (miles): 7223 m^2 of pond.

REMARKS: C.E. Barlow was the landowner at the time of the project.

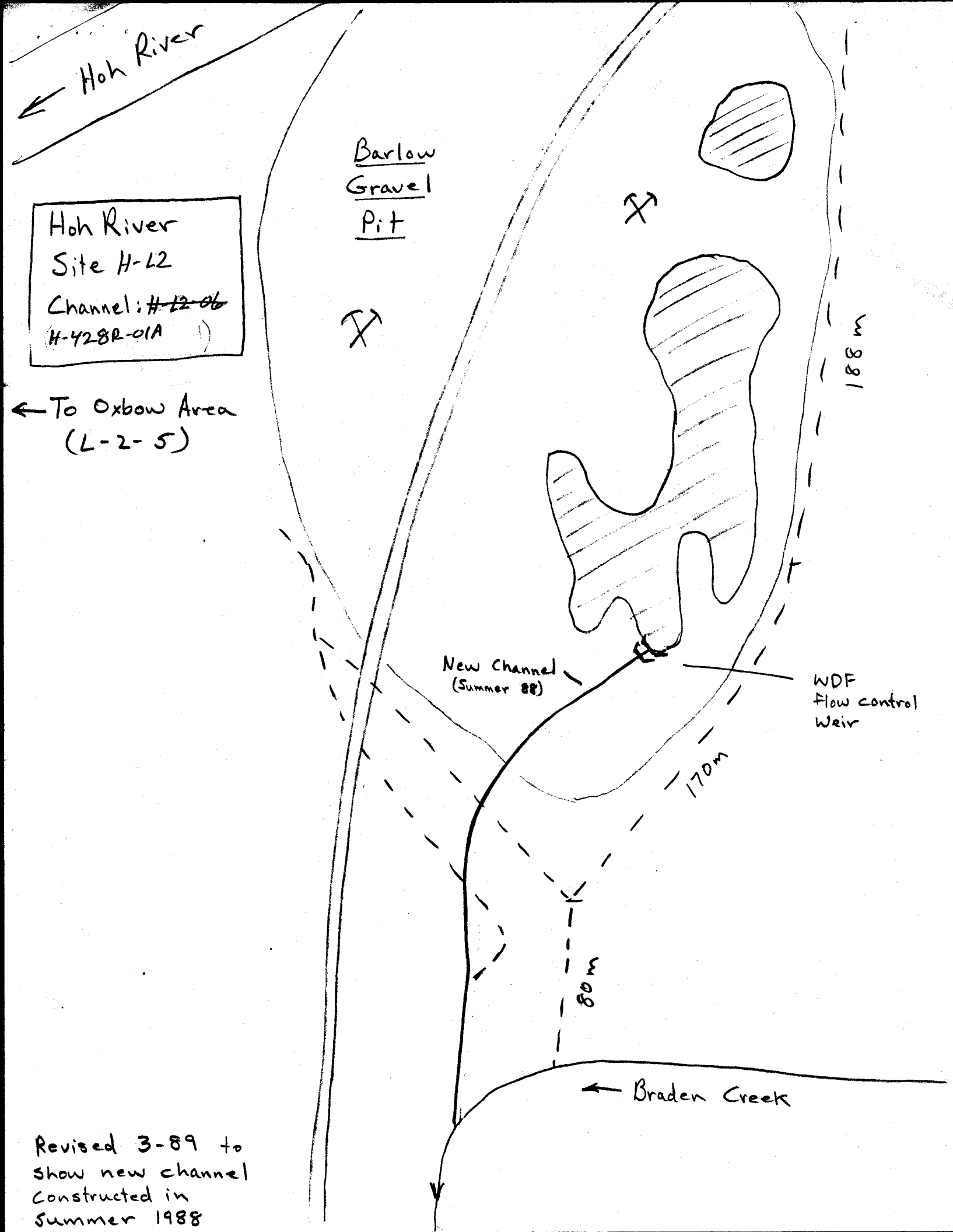
DATE/TIME INSPECTED: 1/95 - 4/12

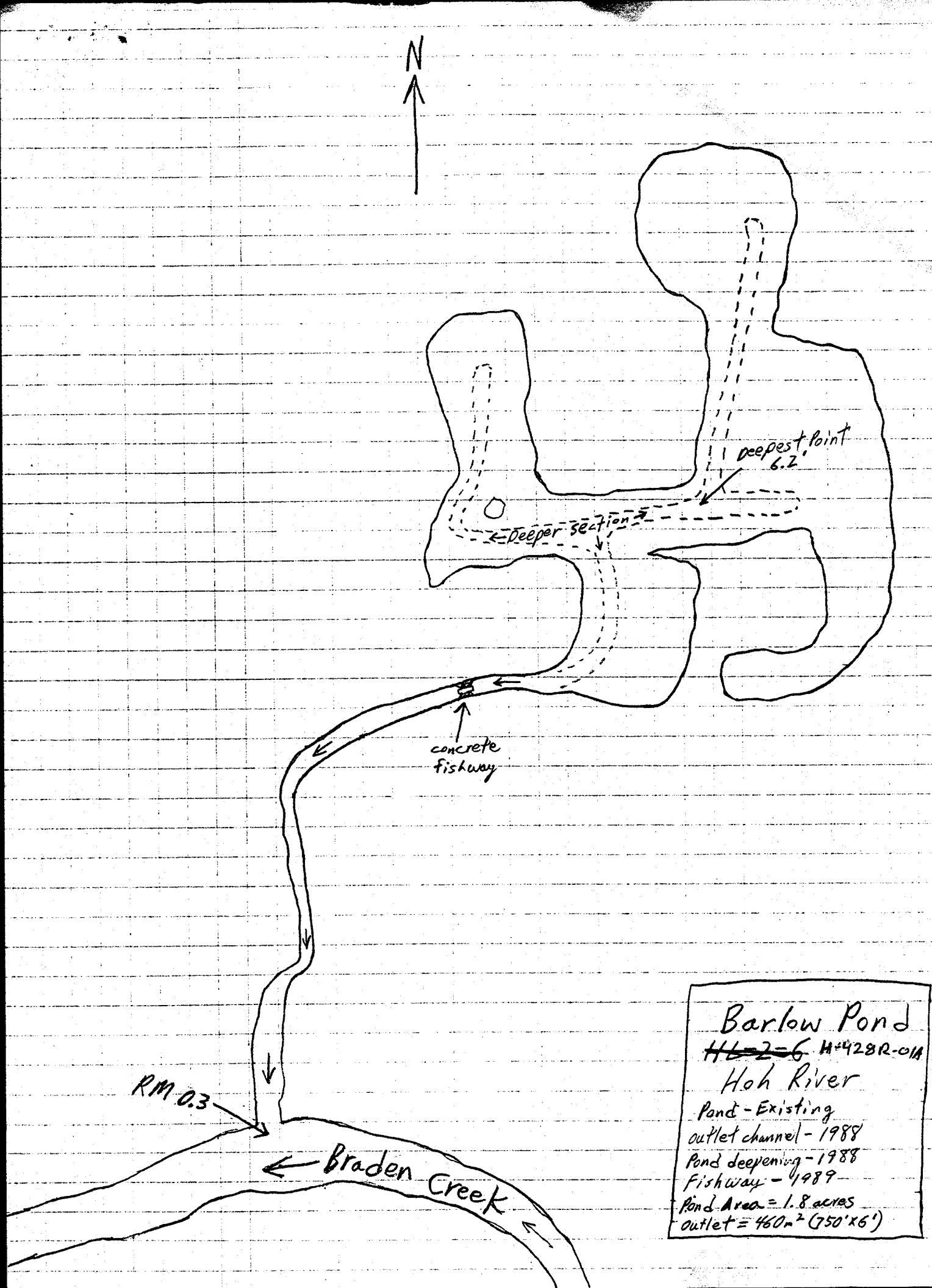
INSPECTED BY/TITLE: D. King, - Nettnin

REVIEWED BY/TITLE:

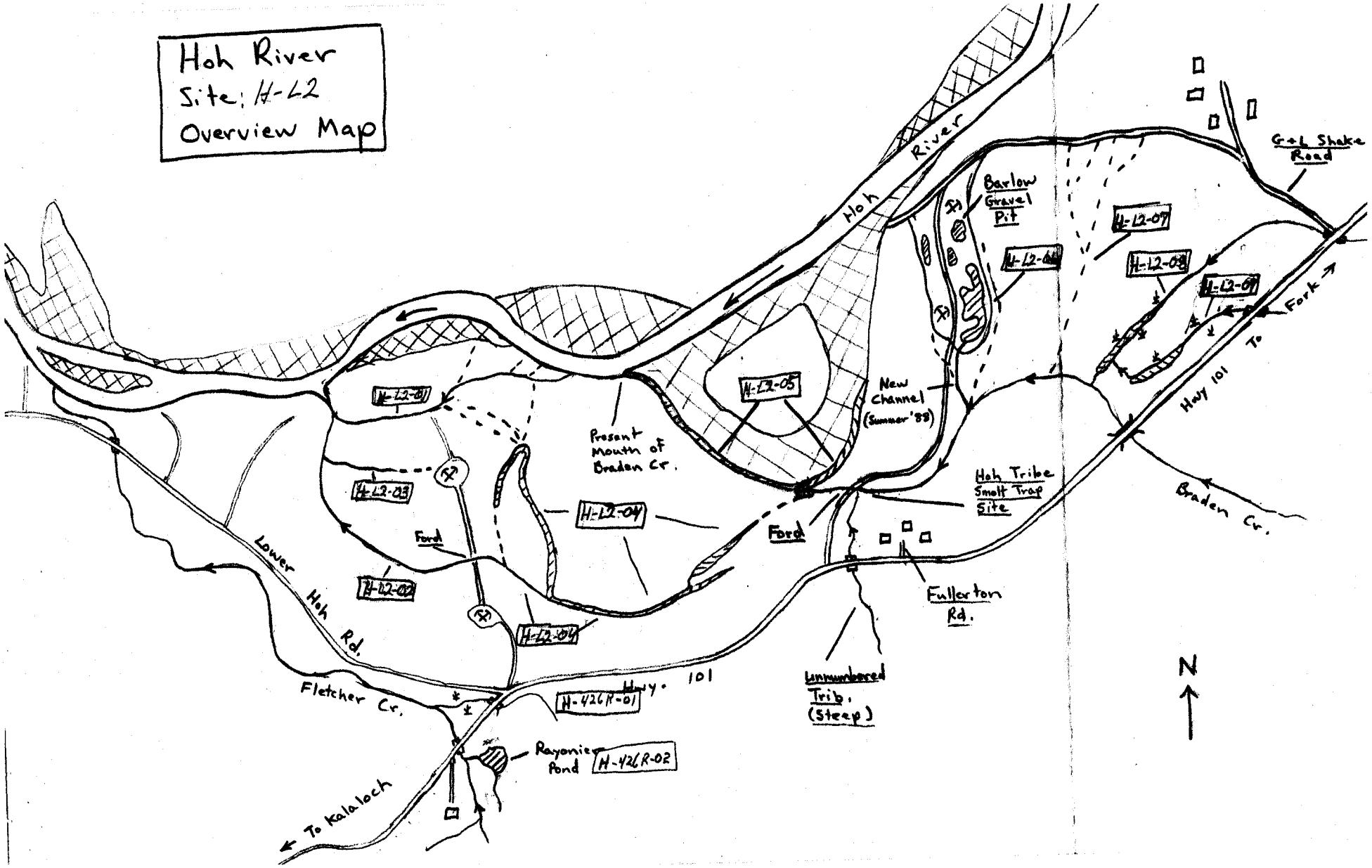


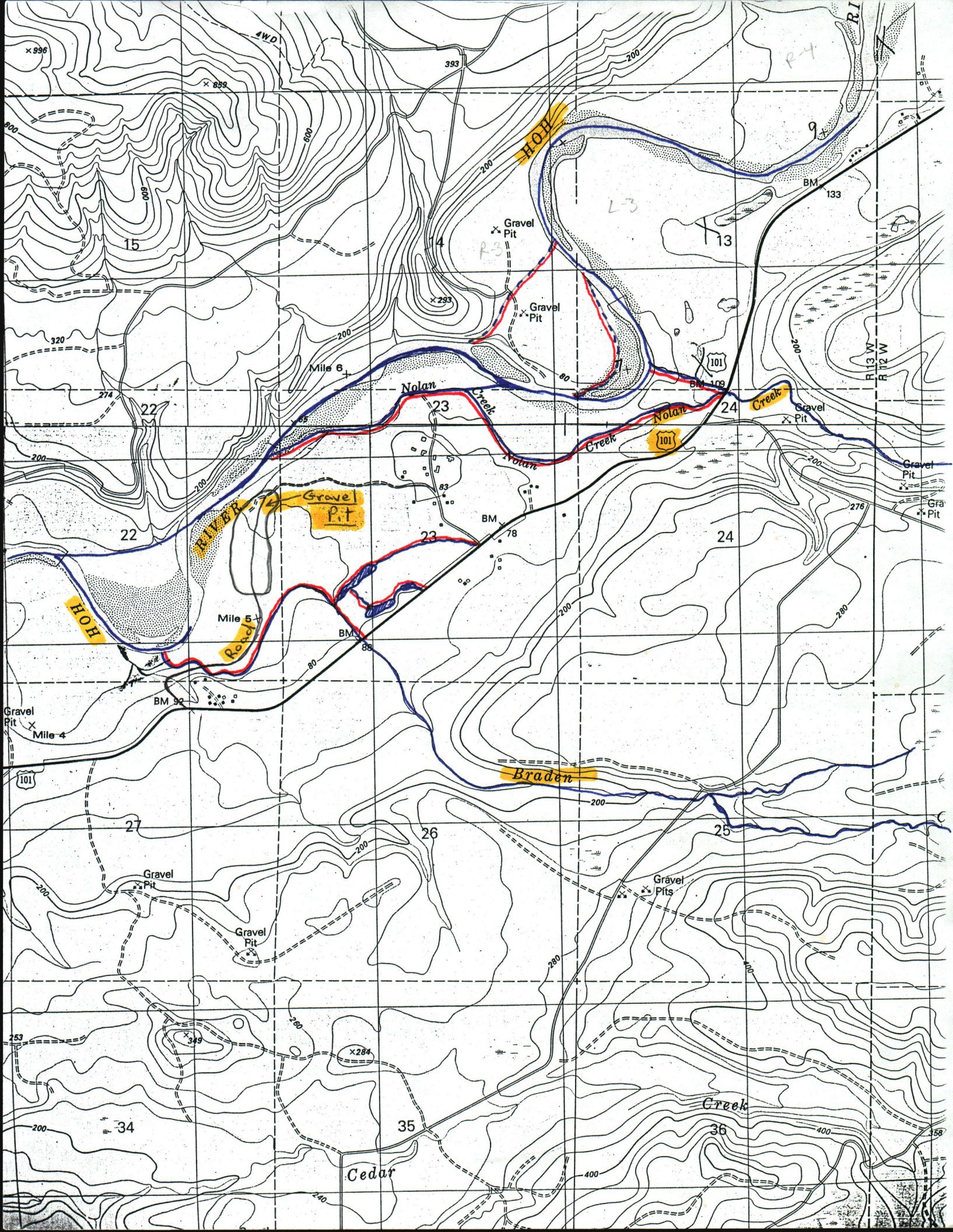
Original Sketch drawn
6-30-87


Hoh River
Barlow Gravel Pit
Hoh River Site H-L2
Channel: ~~H-L2-06~~ H-428R-01A
To Oxbow Area (L-2-5)
188m
New Channel (Summer 88)
WDF Flow control Weir
170m
80m
Braden Creek
Revised 3-89 to show new channel constructed in Summer 1988

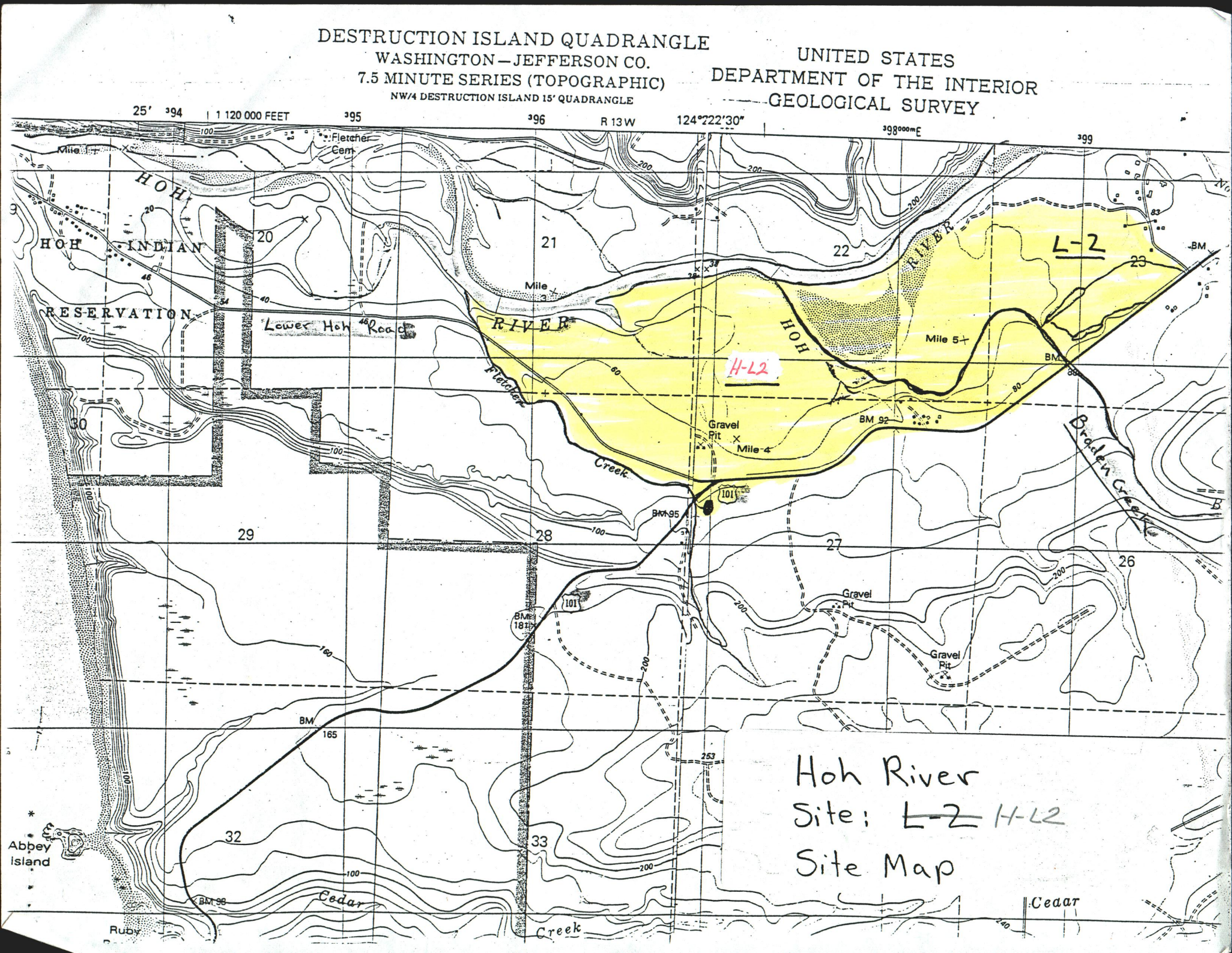


Barlow Pond
~~HL-2-6~~ H-428R-01A
Hoh River
Pond - Existing
outlet channel - 1988
Pond deepening - 1988
Fishway - 1989
Pond Area = 1.8 acres
outlet = 460m² (750'x6')


Hoh River
Site: H-L2
Overview Map
Hoh River
Barlow Gravel Pit
G+L Shake Road
H-L2-07
H-L2-06
H-L2-08
H-L2-09
Fork
To
Hwy 101
H-L2-05
New Channel (Summer '89)
Present Mouth of Braden Cr.
H-L2-01
H-L2-03
H-L2-04
Ford
Ford
Hoh Tribe Smolt Trap Site
Braden Cr.
Lower Hoh Rd.
H-L2-02
H-L2-10
Fullerton Rd.
Fletcher Cr.
Hwy. 101
H-426R-01
Unnumbered Trib. (Steep)
N
Rayonier Pond
H-426R-02
To Kalaloch



HOH
RIVER
Nolan
Creek
Road
Braden
Cedar
Creek
Gravel Pit
Gravel Pits
Mile 6
Mile 5
Mile 4
BM 133
BM 109
BM 78
BM 88
BM 92
101
R 13 W
R 12 W
4WD


DESTRUCTION ISLAND QUADRANGLE
WASHINGTON—JEFFERSON CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
NW/4 DESTRUCTION ISLAND 15' QUADRANGLE
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
1 120 000 FEET
R 13 W
124°22'30"
Fletcher Cem
HOH INDIAN RESERVATION
Lower Hoh Road
HOH RIVER
Mile 3
Mile 4
Mile 5
Gravel Pit
BM 92
BM 95
BM 181
BM 165
BM 98
Fletcher Creek
Braden Creek
Cedar Creek
Abbey Island
Ruby
L-2
H-L2
Hoh River
Site: ~~L-2~~ H-L2
Site Map