STATE OF WASHINGTON

# DEPARTMENT OF FISH & WILDLIFE

## LANDS AND RESTORATION SERVICES PROGRAM

Salmonid Screening, Habitat Enhancement &
Restoration Division (SSHEAR)

## *OFF-CHANNEL SITE INVENTORY DATA*

**General Information:**

**Region:** North Coast

**Observer(s):** Nettnin

**River System:** Sol Duc River

**Date:** 3/28/00

**Site Identifier:** S-326R-04

**WRIA:** 20.0326D (P)

**River Mile Location:** 0.18

**RB/LB:** RB

**Local Name:** Unnamed

**Trib. to:** Johnson Creek (20.0326)

**Legal Description:** NE¼ Sec 20 T30N R12W

**County:** Clallam

**Habitat Type:** Spring Creek

**Landowner:** () Federal () State () County () Other Government (X) Private
- Unknown private

**Directions to site:** North from Forks on highway 101 to M.P. 203.9. Turn left onto SR 113 and follow for 1.5 miles to a gravel road to the right. This is a private drive with a gate. Park (do not block gate) and walk the left fork of the driveway to the bridge. Follow the right bank of Johnson Creek downstream for 250 meters to two small right bank tributaries. The upstream tributary is S-326R-04.

**Site Overview:** This is a small spring fed system which is part of large forested wetland complex. It is located between Johnson and Rainey Creeks, and the toe of the valley wall. This channel receives water from individual springs and seeps as it flows across the forested wetland.

**Habitat Information:**

**Water source:** Springs and seeps from the wetland

**Intermittent/year-around:** Year-around

**Estimated flows (cfs):** Lower end: 0.1 - 0.2 Upper end: 0.01 - 0.05

**Water temperatures:** Lower end: 6.0 °C Upper end: 6.0 °C

**Adjacent stream temperature:** 6.5 °C

**Other water observations:** Clear water

**Site area measurements:** () Indirect (X) Direct () Combination

| | | | |
|---|---|---|---|
| Widths: | Channel- 1.0 m | Ponds- NA | Wetlands- See wetland description |
| Depths: | Channel- 3 - 15 cm | Ponds- NA | Wetlands- " " " |

Total length surveyed (includes ponds and wetlands): 60 m

**Total existing habitat area (est.):** 60 m²

Spawning area: 20 m²
Impounded area: 00 m²
Other rearing area: 40 m²

**Spawning Habitat conditions:** () None (X) Poor () Fair () Good () Excellent

**Describe spawning habitat:**
- Very limited.
- Small aggregate substrate with a mixture of fines.
- Water may be a too shallow for coho spawning.

**Rearing habitat conditions:** () None () Poor () Fair () Good (X) Excellent

**Describe pond and other rearing habitat:**
- Lacks woody debris. Aquatic vegetation and skunk cabbage provide some cover.
- Alders, 40 - 50 years old provides 90% shade coverage.
- Channel has a gradient of 8%.

**Describe unaccessible habitat:** NA

**Describe wetland:** () Bog () Marsh () Scrub-shrub Wetland (X) Forested Wetland

-This channel drains a portion of a large wetland. The overall dimensions of the wetland are approximately 700 m long and 200 - 400 m wide. This wetland drains into both Rainey Creek and Johnson Creek. There are four channels that drain into lower 400 m of Johnson Creek. There are eight channels that drain from the wetland into the lower 500 m of Rainey Creek.

- Alder is the predominant shade provider with some conifer mixed in. The canopy closure has a variety of ranges: dense closures of 90 - 100% over the area drained by the smaller tributaries, moderate closure of 40 - 60% along the mainstem reaches, and a total lack of a canopy in the open marsh and beaver pond areas.
- The under story is dense to moderate and is composed of primarily salmonberry, interspersed with stink berry and vine maple.

**Flooding potential:** (X) Low () Medium () High

**Fish Information:**

**Site entry condition to Johnson Creek (20.0326):** (X) Poor () Fair () Good
- There is a small cascade at the egress. It flows into an eddy of Johnson Creek.
- Moderate to high flows may inundate the cascade.

**Coho access and use:**

Juvenile- (X) Unknown () None () Poor () Fair () Good
Adult- (X) Unknown () None () Poor () Fair () Good
- No juveniles were observed during the survey.
- Coho are documented to spawn in the mainstem of Johnson Creek.

**Other species access and use:** () Chum () Pink () Sockeye () Chinook (X) Trout
- Trout were not identified during the survey. It is assumed that trout use this channel.
- Trout were observed in the mainstem.

**Habitat Improvements:**

**Enhancement opportunities:**

Possible project type
- Pool and weir beaded channel
- Maintain the integrity of the channel and the overall wetland.

Equipment access: No

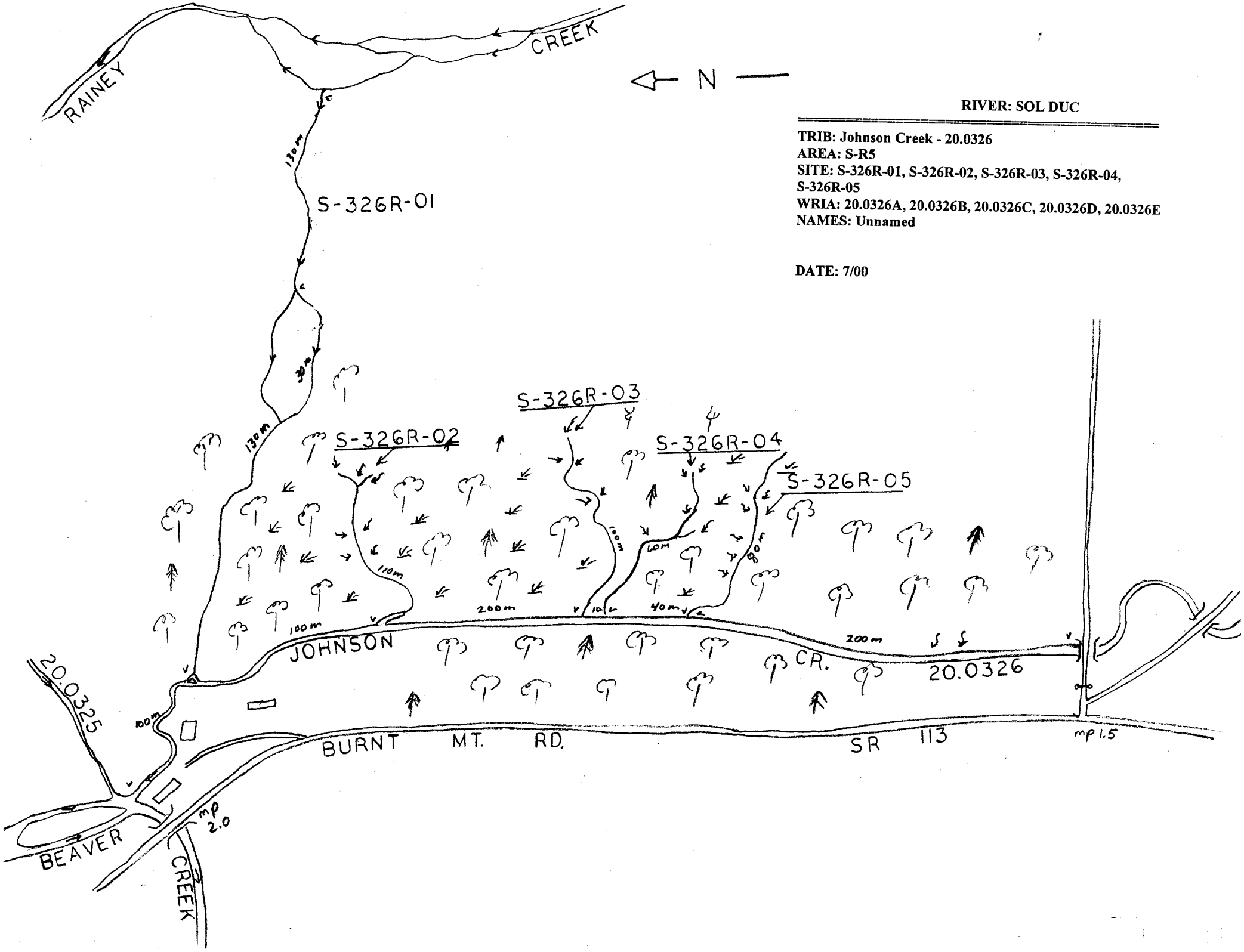
**Additional Comments:**

- The Quileute Nation has a spawner index on this reach of Johnson Creek
- Johnson Creek had not been depicted correctly in the WRIA catalog. The associated numbering in relation to this channel is in error. The stream catalog does not show the lower reach of Johnson Creek. A supplemental number 20.0324C, was assigned to represent this creek. However, the catalog shows a left bank tributary (20.0326) to Rainey Creek at RM 1.2. This tributary is in fact, the upper reach of Johnson Creek. It is suggested that all of Johnson Creek be given the WRIA number 20.0326. This document reflects this change.

**Attachments Available:**

**Contact respective SSHEAR habitat biologist for the following checked items:**

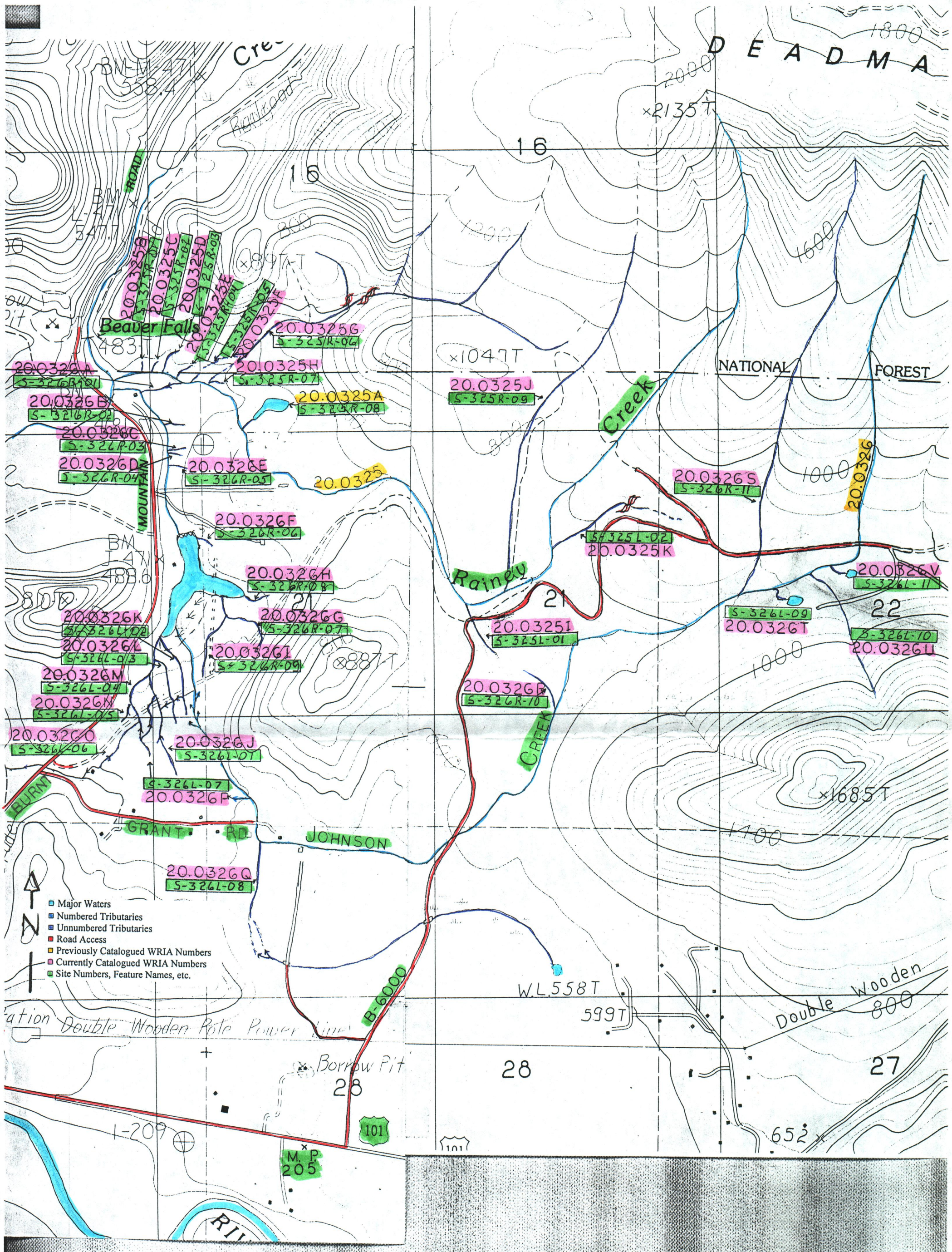
| | | | |
|---|---|---|---|
| () Aerials | (X) Sketch | () Maps | () Culvert Report |
| () Other references | () Spawning surveys | () Juvenile trapping | () Fishway Report |




**RIVER: SOL DUC**

**TRIB: Johnson Creek - 20.0326**
**AREA: S-R5**
**SITE: S-326R-01, S-326R-02, S-326R-03, S-326R-04, S-326R-05**
**WRIA: 20.0326A, 20.0326B, 20.0326C, 20.0326D, 20.0326E**
**NAMES: Unnamed**

**DATE: 7/00**

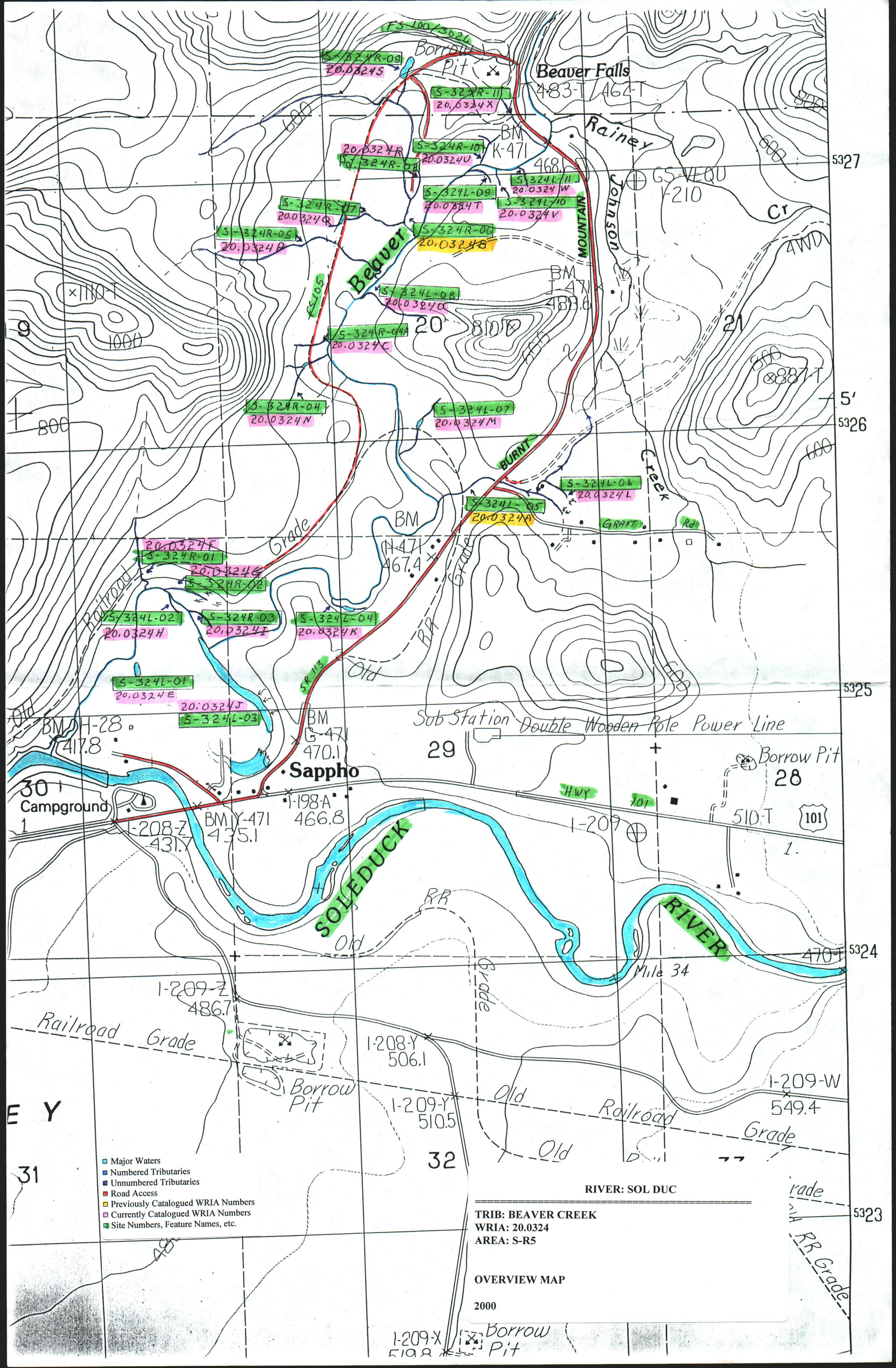



**RIVER: SOL DUC**

**TRIB: JOHNSON CREEK & RAINEY CREEK**
**WRIA: 20.0326, 20.0325**
**AREA: S-R5**

**OVERVIEW MAP**

**2000**


Major Waters
Numbered Tributaries
Unnumbered Tributaries
Road Access
Previously Catalogued WRIA Numbers
Currently Catalogued WRIA Numbers
Site Numbers, Feature Names, etc.
RIVER: SOL DUC
TRIB: BEAVER CREEK
WRIA: 20.0324
AREA: S-R5
OVERVIEW MAP
2000
Beaver Falls
Sappho
Campground
Borrow Pit
Sub Station
Double Wooden Pole Power Line
Rainey
Johnson
MOUNTAIN
Beaver
Creek
BURNT
GRANT
Rd
HWY
101
SOLEDUCK
RIVER
Mile 34
Railroad
Grade
Old
RR
S-324R-09
20.0324S
S-324R-11
20.0324X
S-324R-10
20.0324U
20.0324R
S-324R-08
S-324L-11
20.0324W
S-324L-09
20.0324T
S-324L-10
20.0324V
S-324R-07
20.0324Q
S-324R-05
20.0324P
S-324R-06
20.0324S
S-324L-08
20.0324O
S-324R-04A
20.0324C
S-324R-04
20.0324N
S-324L-07
20.0324M
S-324L-06
20.0324L
S-324L-05
20.0324A
20.0324F
S-324R-01
20.0324G
S-324R-02
S-324L-02
20.0324H
S-324R-03
20.0324I
S-324L-04
20.0324K
S-324L-01
20.0324E
20.0324J
S-324L-03
SR 113
FS 100/3026
FS 105
BM K-471
BM I-471
BM H-28
BM G-471
BM Y-471
I-198-A
466.8
I-208-Z
431.7
I-209
510-T
470-T
I-209-Z
486.7
I-208-Y
506.1
I-209-Y
510.5
I-209-W
549.4
I-209-X
519.8
5327
5326
5325
5324
5323