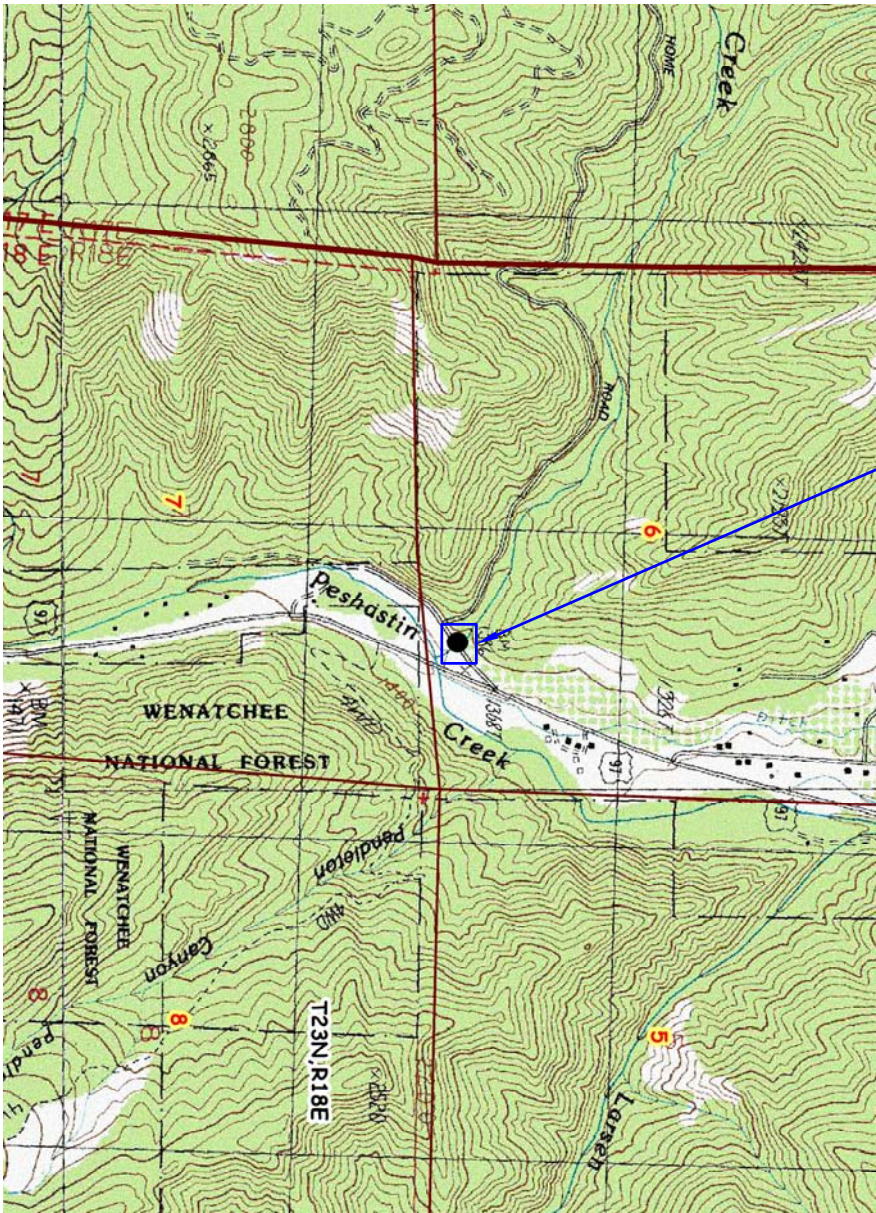
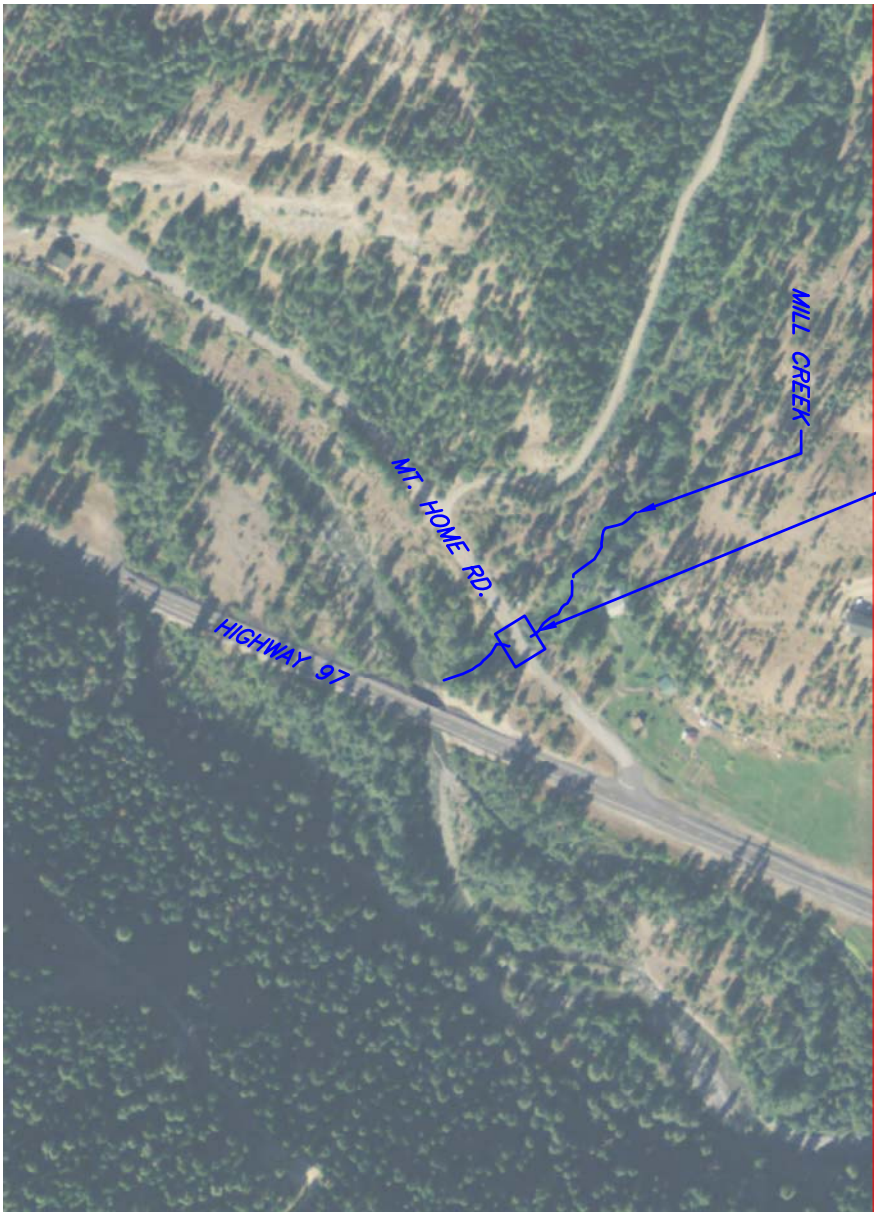


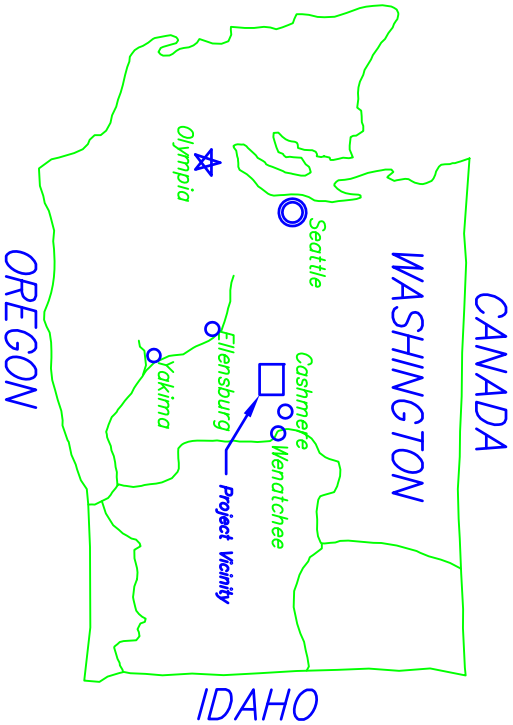
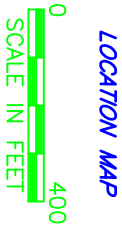
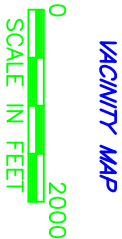
APPENDIX F – CONSTRUCTION DRAWINGS



PROJECT LOCATION



PROJECT SITE



LOCATION SUMMARY
SE1/4 S6 T23N R18E
47.51143°N 120.63167°W

DRAWING LIST	
PAGE NUMBER	DESCRIPTION
1	LOCATION MAP
2	GENERAL NOTES
3	EXISTING CONDITIONS, TRAFFIC CONTROL PLAN, & DEWATERING PLAN
4	EXISTING CREEK PROFILE
5	BRIDGE & CHANNEL LAYOUT
6	SECTION DETAILS

LOCATION MAP
MILL CREEK FISH BARRIER REMOVAL
CHELAN COUNTY NATURAL RESOURCES DEPARTMENT
USFW/NRCS HABITAT RESTORATION TEAM

		Date
Designed	JML	2-2013
Drawn	JML	2-2013
Checked	KAS	7-2013
Approved		



GENERAL NOTES:

1. The attached NRCS Construction and Material Specifications are part of this plan set and shall govern the installation of this project.
2. This project shall be constructed to the lines and grades as shown in these drawings and detailed in the Construction Specifications.
3. The project will be operated and maintained as described in the Operation and Maintenance Plan that is included with this plan set.

PERMITS:

The NRCS does not assume any responsibility in the determination, application, and/or securing of any necessary permits for the construction and operation of this facility. All permits are the responsibility of the Owner, Operator, and/or Contractor.

UTILITIES:

The NRCS does not make any representation to the existence or non-existence of any public and/or private buried or overhead utilities. Where utilities are shown on the drawings, their location, depth, and/or height are approximate. The exact location, depth, and/or height shall be determined by the responsible utility. Any construction and/or O&M activities with the utility easement shall be in conformance with the utility requirements.

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SURVEY CONTROL:

Locations of control points will be clearly marked by the NRCS.

Horizontal Datum: US State Plane Coordinate System, Washington North Zone, NAD83, US Survey Feet.

Vertical Datum: NAVD88.

SPECIAL NOTES:

The precast bridge units shall be handled and installed according to the manufacturer specifications.

BRIDGE:

- The bridge shall be a Central Pre-Mix Prestress Company, Spokane, WA, "Trideck" product or equivalent meeting the following requirements:
- Span = 48 feet (42 feet clear-span)
 - Width = 30 feet
 - The bridge deck shall be designed and fabricated in accordance with AASHTO Standard Specifications for Highway Bridges.
 - The abutments shall be designed to support an AASHTO HL-93 live load condition.
 - The abutments shall be designed and precast by the bridge manufacturer.

ABUTMENT FOUNDATION:

- Designed to the following minimum requirements:
- Designed in accordance with AASHTO Standard Bridge Specification for Highway Bridges, 17th Edition – 2002
 - Seismic Performance Category (SPC) = A
 - Horizontal ground acceleration for 10% probability of exceedance in 50 years, A=0.055

The voids in the rock riprap subgrade surface for the bridge footing foundation shall be filled and leveled with WSDOT Base Course material. The Base Course material shall be compacted by manually directed power tampers, plate vibrators, walk-behind, or self-propelled rollers.

GUARDRAILS:

Guardrails for the bridge shall be included by the bridge manufacturer. The guardrail to be installed on the bridge shall be a Type T-101 with a TL-2 test level. All beam guardrail shall be weathered steel.

Guardrail transitions from the bridge guardrail and guardrail terminals shall be installed in the location as shown on the drawings. The guardrails shall be installed in accordance to WSDOT Standard Specification 8-11 "Guardrail" and as shown in WSDOT Standard Plans C-1, C-3a, C-4e, and C-6. The Guardrail shall meet the material requirements of WSDOT Standard Specification 9-16 "Fence and Guardrail". All beam guardrail shall be weathered steel.

Flexible guideposts shall be installed on the guardrail mount at all four corners of the bridge deck. Flexible guideposts shall be installed in accordance to WSDOT Standard Specification 8-10 "Guide Posts" and as shown in WSDOT Standard Plan M-40.10-02. The Guide Posts shall meet the material requirements of WSDOT Standard Specification 9-17 "Flexible Guide Posts".

SOIL TREATMENT IN PLANTING AREAS:

This note applies to all disturbed areas outside of the road and bridge fill slope footprint. Post construction, these areas should be ripped 18" deep to minimize soil compaction. Final soil density should be less than 80% (>20% pore space). The top 18" of the soil shall consist of native topsoil. If the top 18" contains imported materials, then soil amendments, such as addition of compost, topsoil, and/or wood chips, may be required as determined by the Engineer.

ROAD SECTION:

Any damaged/removed section of Mountain Home Road shall be reconstructed as shown in the road section detail on sheet 6 (Chelan County Standard Plan PW-9). The road shall be constructed in accordance to WSDOT Standard Specification 4-04 "Ballast and Crushed Surfacing". The Base and Top Course materials shall meet the material requirements of WSDOT Standard Specification 9-03.9(3).

STREAMBED MATERIAL

The streambed material shall meet the gradation as shown on the drawings and as stated in the specifications. The streambed material shall contain no more than 10% fines (passing the #200 standard sieve) but no less than 5% fines. The fines on the surface shall be washed into the rock voids after all the streambed material is placed and before the dewatering/pollution control measures are removed.

Estimated Quantities		
Description	Quantity	Unit
Excavation	910	CY
Earthfill	200	CY
Streambed Material	70	CY
Crushed Surfacing – Base Course	76	Ton
Rock Riprap	240	CY
Geotextile	605	SY
Flexible Guide Posts	4	EA
Beam Guardrail – Type 4	50	LF
Beam Guardrail Anchor – Type 1	2	EA
Beam Guardrail Non-Flared Terminal	2	EA

Rock Riprap Gradation		
D	Lower (in.)	Upper (in.)
100		24
85	15.5	18.5
50	11.5	14
15	7.3	10.5

Streambed Mix Gradation		
D	Diameter	
100 *	15.8"	
84	6.3"	
50	2.5"	
16	0.75"	
10	#200	

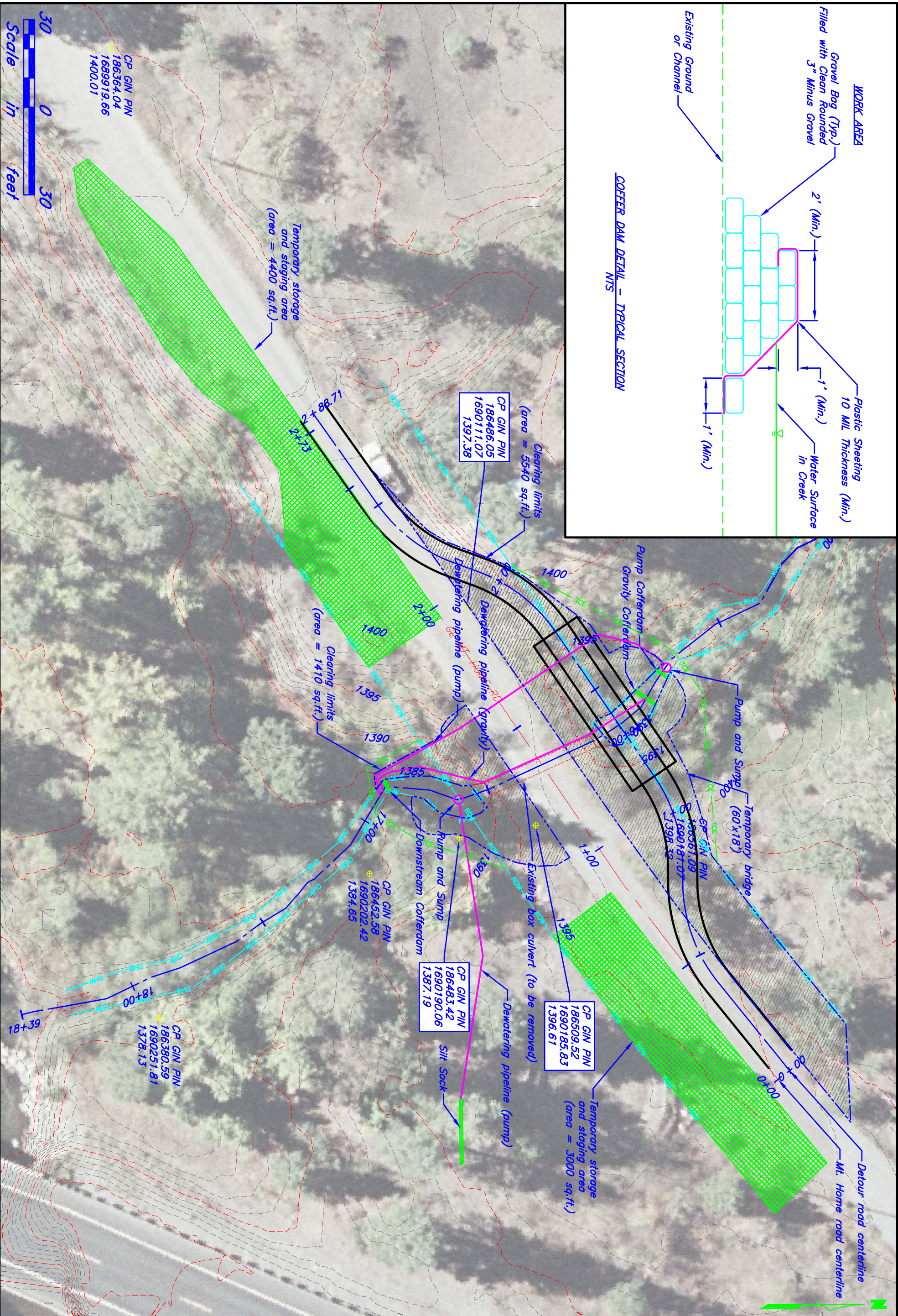
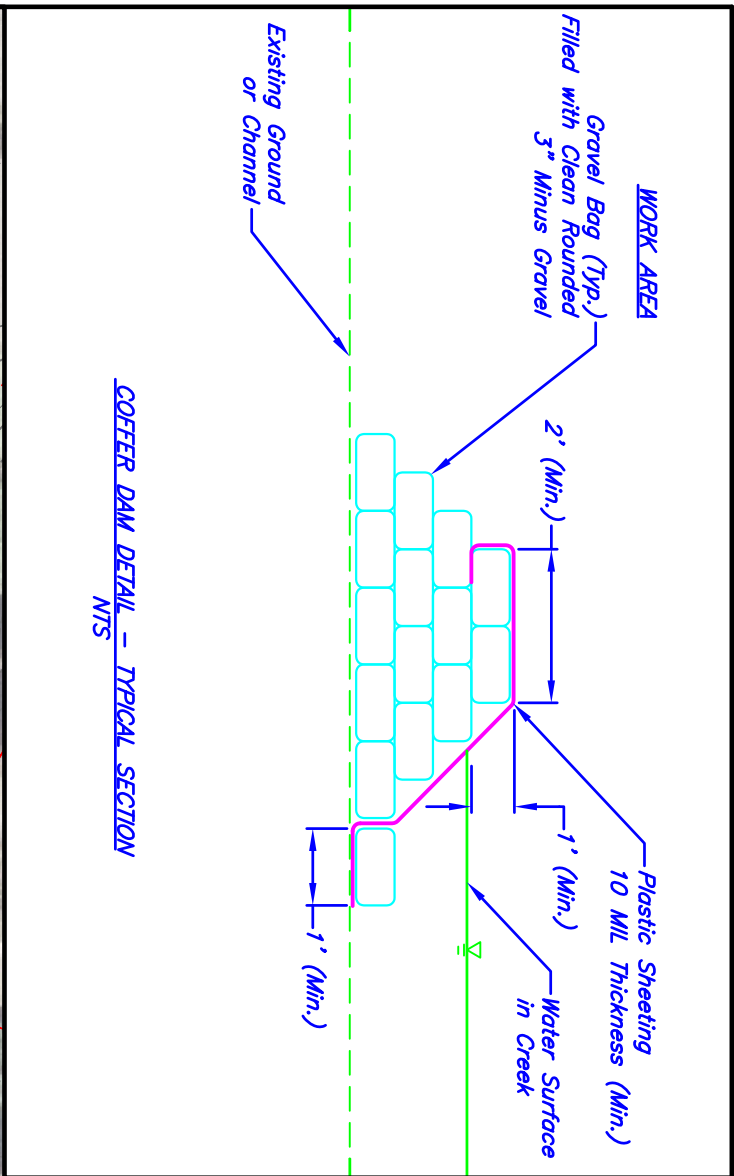
* STREAMBED MIX NOTE:

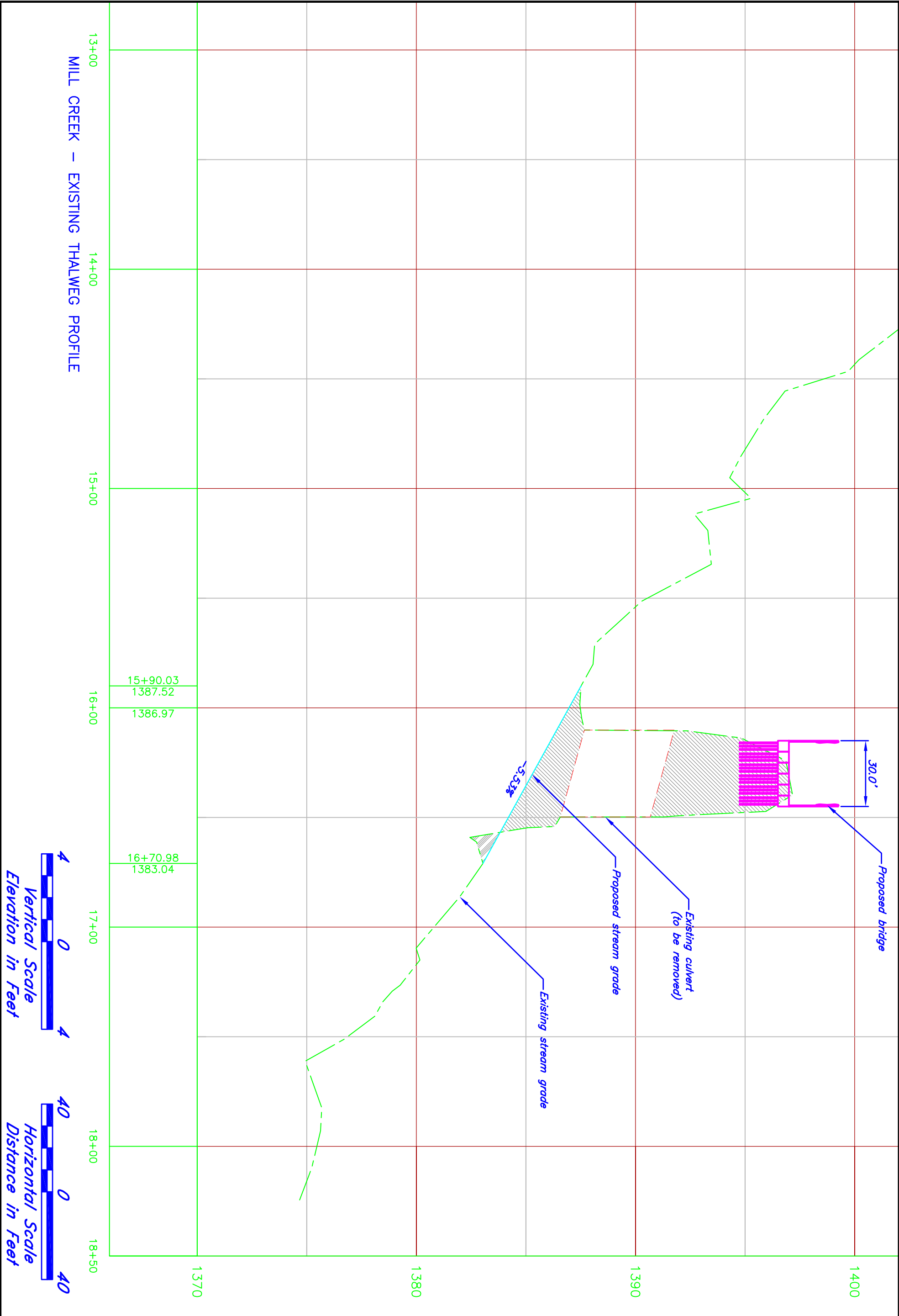
Approximately 15 boulders within the size range of 16" to 36" will be required in addition to the Streambed Mix rock as specified in the field gradation table. These boulders shall be placed as directed in the field by the engineer or the USFWS personnel to simulate the boulder erratic's of the existing streambed.

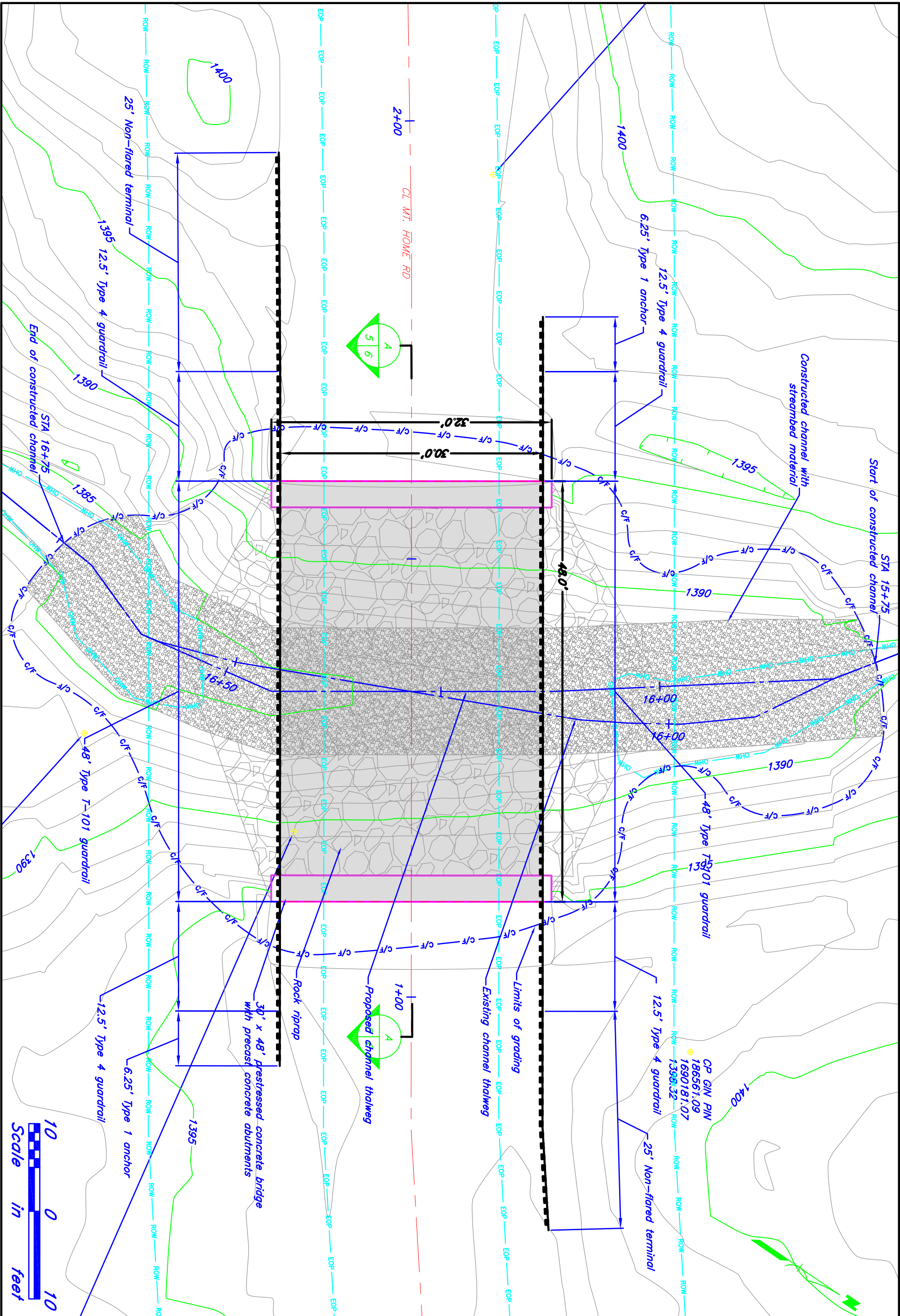
NOTES
MILL CREEK FISH BARRIER REMOVAL
CHELAN COUNTY NATURAL RESOURCES DEPARTMENT
USFW/NRCS HABITAT RESTORATION TEAM

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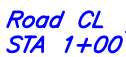








Proposed concrete bridge deck

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