



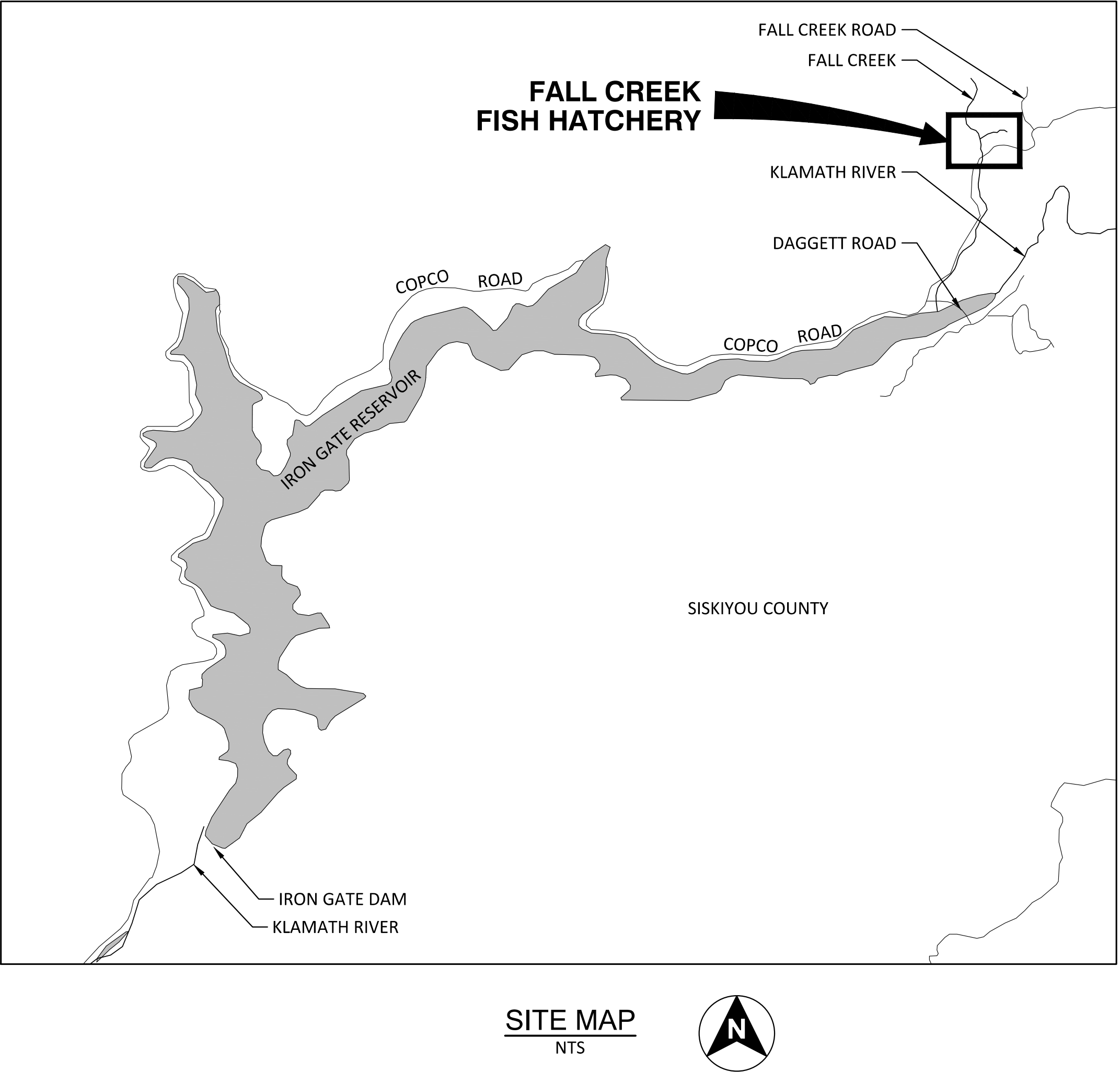
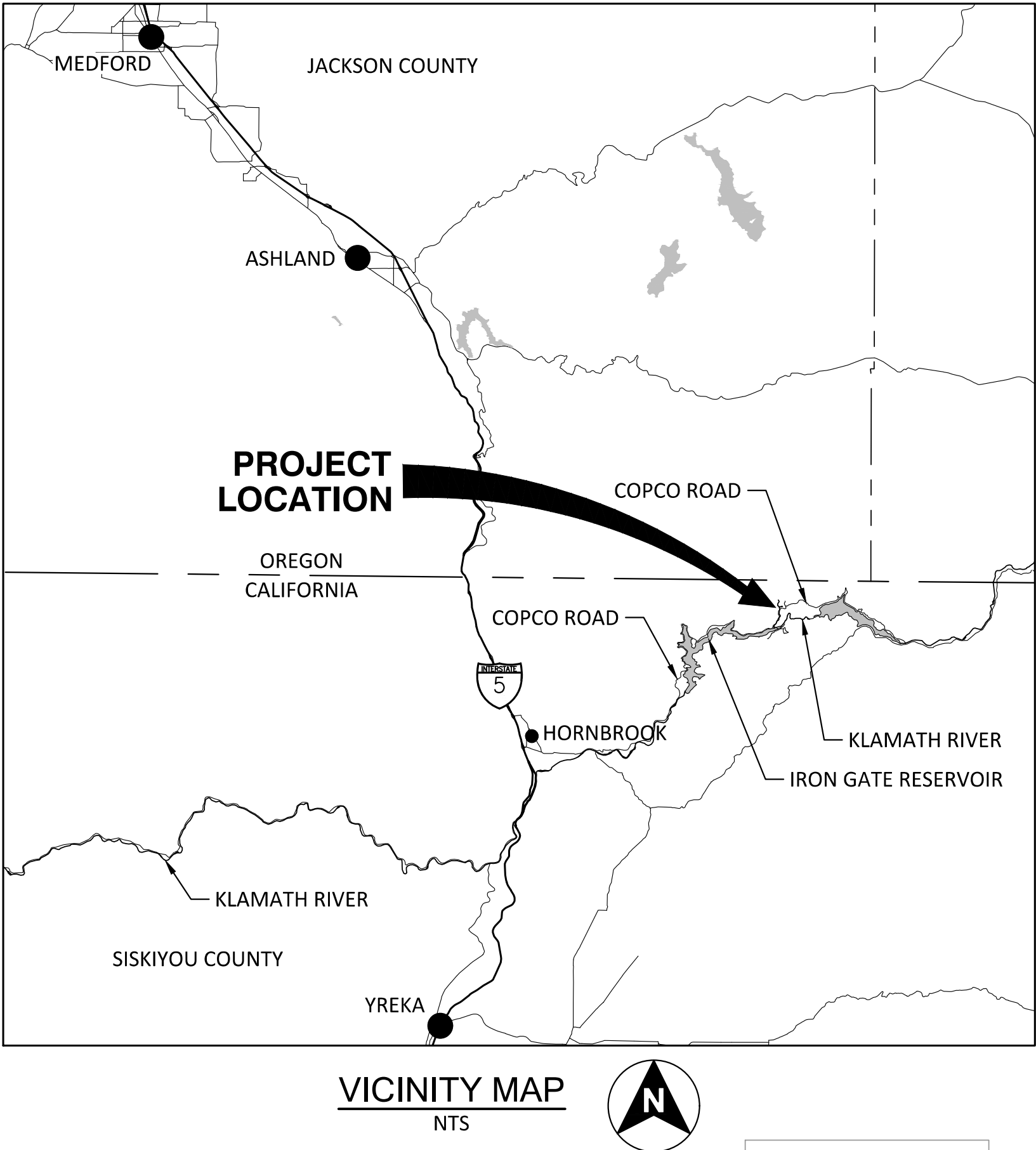
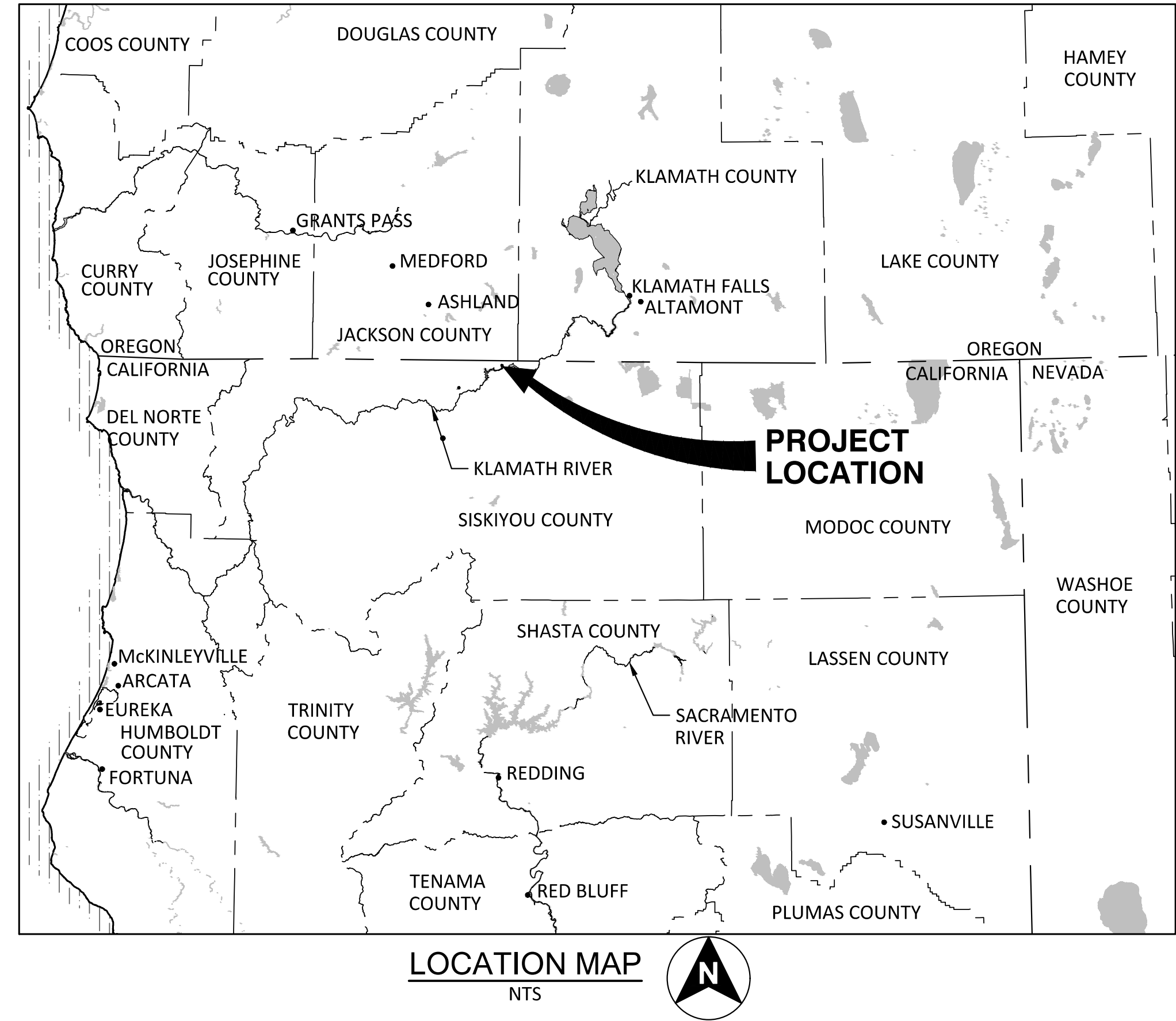
KLAMATH RIVER RENEWAL CORPORATION
FALL CREEK FISH HATCHERY

VOLUME 2 - CONSTRUCTION DRAWINGS
OCTOBER, 2020

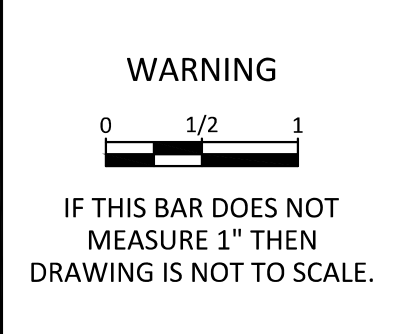
ISSUED FOR CONSTRUCTION

KLAMATH RIVER RENEWAL CORPORATION

FALL CREEK FISH HATCHERY ISSUED FOR CONSTRUCTION



0	10/28/20	MDM	ISSUED FOR CONSTRUCTION	
REV	DATE	BY	DESCRIPTION	



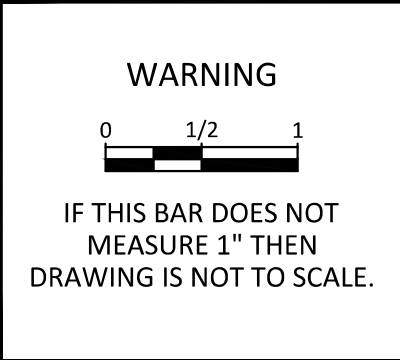
KLAMATH RIVER RENEWAL CORPORATION		DESIGNED J. BURNS	DRAWING G001
FALL CREEK FISH HATCHERY		DRAWN R. GUERRERO	
LOCATION MAP, VICINITY MAP AND SITE MAP		CHECKED V. AUTIER	
		PROJECT DATE 10/28/20	

DRAWING INDEX			
DWG NO	SHEET NO.	DESCRIPTION	ISSUED FOR CONSTRUCTION
GENERAL			
		COVER SHEET	X
1	G001	LOCATION MAP, VICINITY MAP AND SITE MAP	X
2	G002	DRAWING INDEX 1	X
3	G003	DRAWING INDEX 2	X
4	G004	STANDARD ABBREVIATIONS	X
5	G005	STANDARD SYMBOLS	X
6	G006	OVERALL PROJECT PLAN AND PROJECT CONTROL	X
7	G007	SUPPLY PIPING HYDRAULIC PROFILE AND DESIGN CRITERIA	X
8	G008	DRAIN PIPING HYDRAULIC PROFILE AND DESIGN CRITERIA	X
9	G009	WASTE DRAIN PIPING HYDRAULIC PROFILE AND DESIGN CRITERIA	X
10	G010	PIPING SCHEDULE	X
11	G011	CONTRACTOR STAGING AREA	X
EROSION AND SEDIMENT CONTROL			
12	EC001	EROSION AND SEDIMENT CONTROL STANDARD DETAILS 1	X
13	EC002	EROSION AND SEDIMENT CONTROL STANDARD DETAILS 2	X
14	EC100	EROSION AND SEDIMENT CONTROL KEY PLAN	X
15	EC101	EROSION AND SEDIMENT CONTROL NORTH PLAN	X
16	EC102	EROSION AND SEDIMENT CONTROL SOUTH PLAN	X
17	EC210	EROSION AND SEDIMENT CONTROL DAM B PLAN	X
DEMOLITION			
18	D100	SITE DEMOLITION KEY PLAN	X
19	D101	ENLARGED FLUME DEMO PLAN AND PHOTOS	X
20	D102	ENLARGED RACEWAY DEMO PLAN AND PHOTOS	X
21	D103	ENLARGED DAM A DEMO PLAN AND SECTIONS	X
22	D104	DAM A DEMO SECTIONS AND PHOTOS	X
23	D105	ENLARGED DAM B DEMO PLAN AND SECTIONS	X
24	D601	IRON GATE HATCHERY EQUIPMENT RELOCATION PLAN	X
25	D602	IRON GATE HATCHERY CROWDER MODIFICATION	X
CIVIL			
26	GC001	CIVIL GENERAL NOTES	X
27	GC002	CIVIL STANDARD DETAILS 1	X
28	GC003	CIVIL STANDARD DETAILS 2	X
29	GC004	CIVIL STANDARD DETAILS 3	X
30	GC005	CIVIL STANDARD DETAILS 4	X
31	GC006	CIVIL STANDARD DETAILS 5	X
32	GC007	SITE COORDINATES	X
33	GC008	PIPING COORDINATES	X
34	C100	OVERALL SITE KEY PLAN	X
35	C101	SITE LAYOUT NORTH PLAN	X
36	C102	SITE LAYOUT SOUTH PLAN	X
37	C103	SITE GRADING NORTH PLAN	X
38	C104	SITE GRADING SOUTH PLAN	X
39	C105	SITE RESTORATION NORTH PLAN	X
40	C106	SITE RESTORATION SOUTH PLAN	X
41	C107	SITE YARD PIPING NORTH PLAN	X
42	C108	SITE YARD PIPING SOUTH PLAN	X
43	C109	STORM DRAIN PIPING NORTH PLAN	X
44	C110	STORM DRAIN PIPING SOUTH PLAN	X
45	C111	SITE CIVIL SECTIONS 1	X
46	C112	SITE CIVIL SECTIONS 2	X
47	C113	SITE CIVIL SECTIONS 3	X
48	C114	SITE CIVIL SECTIONS 4	X
49	C200	DAM A INTAKE PLAN	X
50	C201	DAM A INTAKE SECTIONS	X
51	C202	DAM A MODIFICATIONS PLAN	X
52	C203	DAM A MODIFICATIONS SECTIONS	X
53	C204	DAM A FRENCH DRAIN SECTIONS AND DETAILS	X
54	C210	DAM B MODIFICATIONS PLAN AND PHOTOGRAPH	X
55	C211	DAM B MODIFICATIONS SECTIONS	X
56	C212	DAM B FRENCH DRAIN SECTIONS AND DETAILS	X
57	C215	METER VAULT PLAN AND SECTION	X
58	C300	COHO BUILDING WATER SUPPLY PLAN AND PROFILE	X
59	C301	COHO BUILDING DRAIN PLAN AND PROFILE	X
60	C302	COHO BUILDING WASTE DRAIN PLAN AND PROFILE	X

DRAWING INDEX			
DWG NO	SHEET NO.	DESCRIPTION	ISSUED FOR CONSTRUCTION
61	C303	COHO BUILDING FISH RELEASE PIPE PLAN AND PROFILE	X
62	C400	CHINOOK RACEWAYS WATER SUPPLY PLAN	X
63	C401	CHINOOK RACEWAYS WATER SUPPLY PROFILE	X
64	C402	CHINOOK RACEWAYS DRAIN PLAN AND PROFILE	X
65	C403	CHINOOK RACEWAYS WASTE DRAIN PLAN AND PROFILE	X
66	C404	CHINOOK RACEWAYS FISH RELEASE PIPE PLAN AND PROFILE	X
67	C500	CHINOOK INCUBATION BUILDING WATER SUPPLY PLAN AND PROFILE 1	X
68	C501	CHINOOK INCUBATION BUILDING WATER SUPPLY PLAN AND PROFILE 2	X
69	C502	CHINOOK INCUBATION BUILDING DRAIN PLAN AND PROFILE	X
70	C503	CHINOOK INCUBATION BUILDING WASTE DRAIN PLAN AND PROFILE	X
71	C600	SPAWNING BUILDING, ADULT HOLDING, FISH BARRIER AND FISH LADDER SITE LAYOUT	X
72	C601	ADULT HOLDING WATER SUPPLY PLAN AND PROFILE 1	X
73	C602	ADULT HOLDING WATER SUPPLY PLAN AND PROFILE 2	X
74	C603	ADULT HOLDING WATER SUPPLY PLAN AND PROFILE 3	X
75	C604	ADULT HOLDING FISH RELEASE PIPE PLAN AND PROFILE	X
76	C605	SETTLING POND DRAIN PIPE PLAN AND PROFILE	X
77	C610	ADULT HOLDING AND SETTLING PONDS PLAN	X
78	C611	ADULT HOLDING AND SETTLING PONDS SECTIONS AND DETAILS 1	X
79	C612	ADULT HOLDING AND SETTLING PONDS SECTIONS AND DETAILS 2	X
80	C620	FISH BARRIER SECTIONS	X
81	C630	FISH LADDER PROFILE	X
82	C631	FISH LADDER DETAILS	X
ARCHITECTURAL			
83	A300	COHO BUILDING CODE PLAN AND ASSEMBLY TYPES	X
84	A301	COHO BUILDING DOOR SCHEDULE AND DETAILS	X
85	A302	COHO BUILDING OVERALL FLOOR PLAN	X
86	A303	COHO BUILDING ROOF PLAN	X
87	A304	COHO BUILDING EXTERIOR ELEVATIONS 1	X
88	A305	COHO BUILDING EXTERIOR ELEVATIONS 2	X
89	A306	COHO BUILDING SECTIONS 1	X
90	A307	COHO BUILDING DETAILS 1	X
91	A500	CHINOOK INCUBATION BUILDING CODE PLAN AND ASSEMBLY TYPES	X
92	A501	CHINOOK INCUBATION BUILDING DOOR SCHEDULE AND DETAILS	X
93	A502	CHINOOK INCUBATION BUILDING FLOOR PLAN	X
94	A503	CHINOOK INCUBATION BUILDING ROOF PLAN	X
95	A504	CHINOOK INCUBATION BUILDING EXTERIOR ELEVATIONS 1	X
96	A505	CHINOOK INCUBATION BUILDING SECTIONS 1	X
97	A506	CHINOOK INCUBATION BUILDING DETAILS 1	X
98	A507	CHINOOK INCUBATION BUILDING DETAILS 2	X
99	A600	SPAWNING BUILDING CODE PLAN	X
100	A601	SPAWNING BUILDING DOOR SCHEDULE AND DETAILS	X
101	A602	SPAWNING BUILDING OVERALL FLOOR PLAN	X
102	A603	SPAWNING BUILDING ROOF PLAN	X
103	A604	SPAWNING BUILDING EXTERIOR ELEVATIONS 1	X
104	A605	SPAWNING BUILDING SECTIONS 1	X
105	A606	SPAWNING BUILDING DETAILS 1	X
STRUCTURAL			
106	GS001	STRUCTURAL GENERAL NOTES	X
107	GS002	STRUCTURAL STANDARD DETAILS 1	X
108	GS003	STRUCTURAL STANDARD DETAILS 2	X
109	GS004	STRUCTURAL STANDARD DETAILS 3	X
110	GS005	STRUCTURAL STANDARD DETAILS 4	X
111	GS006	STRUCTURAL STANDARD DETAILS 5	X
112	GS007	STRUCTURAL STANDARD DETAILS 6	X
113	GS008	STRUCTURAL STANDARD DETAILS 7	X
114	GS009	STRUCTURAL STANDARD DETAILS 8	X
115	S100	OVERALL STRUCTURAL SITE KEY PLAN	X
116	S200	INTAKE FOUNDATION AND TOP PLAN	X
117	S201	INTAKE SECTIONS AND DETAILS	X
118	S205	DAM A PLAN	X
119	S206	DAM A SECTIONS	X
120	S210	DAM B MODIFICATIONS PLAN	X
121	S211	DAM B MODIFICATIONS SECTIONS	X
122	S212	DAM B MODIFICATIONS SECTIONS AND DETAILS	X

DRAWING INDEX			
DWG NO	SHEET NO.	DESCRIPTION	ISSUED FOR CONSTRUCTION
123	S215	METER VAULT PLANS AND SECTIONS	X
124	S300	COHO BUILDING FOUNDATION PLAN	X
125	S301	COHO BUILDING TOP PLAN	X
126	S302	COHO BUILDING ROOF FRAMING PLAN	X
127	S303	COHO BUILDING SECTIONS 1	X
128	S304	COHO BUILDING SECTIONS 2	X
129	S305	COHO BUILDING SECTIONS 3	X
130	S306	COHO BUILDING SECTIONS AND DETAILS	X
131	S307	COHO BUILDING INCUBATION STACK FRAME SECTIONS AND DETAILS	X
132	S308	COHO BUILDING HEAD TANK SUPPORT PLAN AND SECTIONS	X
133	S310	COHO RACEWAY BANK 1 RESTORATION PLAN	X
134	S311	COHO RACEWAY BANK 1 RESTORATION SECTIONS	X
135	S312	COHO RACEWAY BANK 1 RESTORATION SECTIONS AND DETAILS	X
136	S320	COHO RACEWAY BANK 2 PLAN	X
137	S321	COHO RACEWAY BANK 2 SECTIONS AND DETAILS 1	X
138	S322	COHO RACEWAY BANK 2 SECTIONS AND DETAILS 2	X
139	S400	CHINOOK RACEWAYS #1-4 PLAN	X
140	S401	CHINOOK RACEWAYS #5-8 PLAN	X
141	S402	CHINOOK RACEWAYS SECTIONS 1	X
142	S403	CHINOOK RACEWAYS SECTIONS 2	X
143	S404	CHINOOK RACEWAYS SECTIONS AND DETAILS	X
144	S405	CHINOOK RACEWAYS BIRD NETTING PLAN	X
145	S406	CHINOOK RACEWAYS BIRD NETTING SECTIONS AND DETAILS 1	X
146	S407	CHINOOK RACEWAYS BIRD NETTING SECTIONS AND DETAILS 2	X
147	S408	CHINOOK RACEWAYS BIRD NETTING SECTIONS AND DETAILS 3	X
148	S410	CHINOOK RACEWAYS FISH RELEASE PIPE SUPPORT PLAN AND ELEVATION	X
149	S411	CHINOOK RACEWAYS FISH RELEASE PIPE SUPPORT SECTIONS AND DETAILS	X
150	S500	CHINOOK INCUBATION BUILDING FOUNDATION PLAN	X
151	S501	CHINOOK INCUBATION BUILDING TOP PLAN	X
152	S502	CHINOOK INCUBATION BUILDING ROOF FRAMING PLAN	X
153	S503	CHINOOK INCUBATION BUILDING SECTIONS 1	X
154	S504	CHINOOK INCUBATION BUILDING SECTIONS 2	X
155	S505	CHINOOK INCUBATION BUILDING SECTIONS AND DETAILS	X
156	S506	CHINOOK INCUBATION BLDG INCUBATION STACK SECTIONS AND DETAILS	X
157	S600	SPAWNING BUILDING FOUNDATION PLAN	X
158	S601	SPAWNING BUILDING TOP PLAN	X
159	S602	SPAWNING BUILDING ROOF FRAMING PLAN	X
160	S603	SPAWNING BUILDING SECTIONS 1	X
161	S604	SPAWNING BUILDING SECTIONS 2	X
162	S605	SPAWNING BUILDING SECTIONS AND DETAILS	X
163	S610	SETTLING PONDS AND ADULT HOLDING PONDS PLAN	X
164	S611	SETTLING PONDS AND ADULT HOLDING PONDS SECTIONS 1	X
165	S612	SETTLING PONDS AND ADULT HOLDING PONDS SECTIONS 2	X
166	S613	SETTLING PONDS AND ADULT HOLDING PONDS SECTIONS AND DETAILS 1	X
167	S614	SETTLING PONDS AND ADULT HOLDING PONDS SECTIONS AND DETAILS 2	X
168	S615	SETTLING PONDS AND ADULT HOLDING PONDS SECTIONS AND DETAILS 3	X
169	S620	FISH BARRIER FOUNDATION PLAN	X
170	S621	FISH BARRIER TOP PLAN	X
171	S622	FISH BARRIER SECTIONS	X
172	S623	PICKET BARRIER DETAILS	X
173	S624	PICKET BARRIER SECTIONS AND DETAILS	X
174	S630	FISH LADDER FOUNDATION PLAN	X
175	S631	FISH LADDER TOP PLAN	X
176	S632	FISH LADDER SECTIONS AND DETAILS	X

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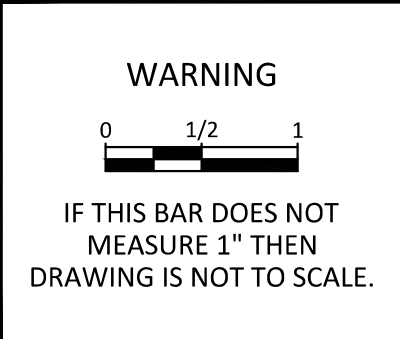


KLAMATH RIVER RENEWAL CORPORATION		DRAWING G002
FALL CREEK FISH HATCHERY		
DRAWING INDEX 1		
DESIGNED <u>J. BURNS</u>		
DRAWN <u>R. GUERRERO</u>		
CHECKED <u>V. AUTIER</u>		
PROJECT DATE <u>10/28/20</u>		

DRAWING INDEX			
DWG NO	SHEET NO.	DESCRIPTION	ISSUED FOR CONSTRUCTION
MECHANICAL			
177	GM001	MECHANICAL EQUIPMENT SCHEDULES 1	X
178	GM002	MECHANICAL EQUIPMENT SCHEDULES 2	X
179	GM003	MECHANICAL EQUIPMENT SCHEDULES 3	X
180	GM004	MECHANICAL EQUIPMENT SCHEDULES 4	X
181	GM005	MECHANICAL EQUIPMENT SCHEDULES 5	X
182	GM006	MECHANICAL STANDARD DETAILS 1	X
183	GM007	MECHANICAL STANDARD DETAILS 2	X
184	GM008	MECHANICAL STANDARD DETAILS 3	X
185	GM009	MECHANICAL STANDARD DETAILS 4	X
186	GM010	UTILITY WATER FLOW SCHEMATIC	X
187	M100	OVERALL MECHANICAL SITE KEY PLAN	X
188	M200	INTAKE MECHANICAL PLAN	X
189	M201	INTAKE MECHANICAL SECTIONS AND DETAILS 1	X
190	M202	INTAKE MECHANICAL SECTIONS AND DETAILS 2	X
191	M210	DAM B MODIFICATIONS MECHANICAL PLAN	X
192	M211	DAM B MODIFICATIONS MECHANICAL SECTIONS AND DETAILS	X
193	M215	METER VAULT PLAN AND SECTIONS	X
194	M300	COHO BUILDING MECHANICAL PLAN	X
195	M301	COHO BUILDING SUPPLY PIPING PLAN	X
196	M302	COHO BUILDING DRAIN PIPING PLAN	X
197	M303	COHO BUILDING WASTE DRAIN PIPING PLAN	X
198	M304	COHO BUILDING UTILITY WATER PIPING PLAN	X
199	M305	COHO BUILDING PIPING SECTIONS 1	X
200	M306	COHO BUILDING PIPING SECTIONS 2	X
201	M307	COHO BUILDING PIPING SECTIONS 3	X
202	M310	COHO BUILDING INCUBATION STACKS PLAN AND SECTIONS	X
203	M311	COHO BUILDING INCUBATION STACKS SECTIONS AND DETAILS 1	X
204	M312	COHO BUILDING INCUBATION STACKS SECTIONS AND DETAILS 2	X
205	M313	COHO BUILDING WORKING VESSELS PLAN, SECTIONS, AND DETAILS	X
206	M320	COHO RACEWAY BANK 1 PLAN	X
207	M321	COHO RACEWAY BANK 1 SECTIONS AND DETAILS	X
208	M322	COHO RACEWAY BANK 2 PLAN	X
209	M323	COHO RACEWAY BANK 2 SECTIONS AND DETAILS 1	X
210	M324	COHO RACEWAY BANK 2 SECTIONS AND DETAILS 2	X
211	M330	COHO BUILDING FEEDING VESSELS PLAN	X
212	M331	COHO BUILDING FEEDING VESSELS SECTIONS AND DETAILS	X
213	M400	CHINOOK RACEWAYS #1-4 PLAN	X
214	M401	CHINOOK RACEWAYS #5-8 PLAN	X
215	M402	CHINOOK RACEWAYS SECTIONS 1	X
216	M403	CHINOOK RACEWAYS SECTIONS 2	X
217	M404	CHINOOK RACEWAYS SECTIONS AND DETAILS	X
218	M500	CHINOOK INCUBATION BUILDING MECHANICAL PLAN	X
219	M501	CHINOOK INCUBATION BUILDING SUPPLY PIPING PLAN	X
220	M502	CHINOOK INCUBATION BUILDING DRAIN PIPING PLAN	X
221	M503	CHINOOK INCUBATION BUILDING WASTE DRAIN PIPING PLAN	X
222	M504	CHINOOK INCUBATION BUILDING UTILITY WATER PIPING PLAN	X
223	M505	CHINOOK INCUBATION BUILDING UTILITY WATER PIPING SECTIONS	X
224	M510	CHINOOK INCUBATION BLDG INCUBATION STACKS PLAN AND SECTIONS	X
225	M511	CHINOOK INCUBATION BLDG INCUBATION STACKS SECTIONS AND DETAILS 1	X
226	M512	CHINOOK INCUBATION BLDG INCUBATION STACKS SECTIONS AND DETAILS 2	X
227	M513	CHINOOK INCUBATION BLDG INCUBATION STACKS SECTIONS AND DETAILS 3	X
228	M514	CHINOOK INCUBATION BUILDING WORKING VESSELS PLAN AND SECTIONS	X
229	M600	SPAWNING BUILDING MECHANICAL PLAN	X
230	M601	SPAWNING BUILDING UTILITY WATER PIPING PLAN	X
231	M602	SPAWNING BUILDING UTILITY WATER PIPING SECTIONS AND DETAILS 1	X
232	M603	SPAWNING BUILDING UTILITY WATER PIPING SECTIONS AND DETAILS 2	X
233	M610	SETTLING PONDS AND ADULT HOLDING PONDS MECHANICAL PLAN	X
234	M611	SETTLING PONDS AND ADULT HOLDING PONDS PIPING PLAN	X
235	M612	SETTLING PONDS AND ADULT HOLDING PONDS SECTIONS AND DETAILS 1	X
236	M613	SETTLING PONDS AND ADULT HOLDING PONDS SECTIONS AND DETAILS 2	X
237	M614	SETTLING PONDS AND ADULT HOLDING PONDS SECTIONS AND DETAILS 3	X
238	M615	SETTLING PONDS AND ADULT HOLDING PONDS SECTIONS AND DETAILS 4	X
239	M616	SETTLING PONDS AND ADULT HOLDING PONDS SECTIONS AND DETAILS 5	X
240	M617	SETTLING PONDS AND ADULT HOLDING PONDS SECTIONS AND DETAILS 6	X

DRAWING INDEX			
DWG NO	SHEET NO.	DESCRIPTION	ISSUED FOR CONSTRUCTION
241	M618	SETTLING PONDS AND ADULT HOLDING PONDS SECTIONS AND DETAILS 7	X
242	M619	SETTLING PONDS AND ADULT HOLDING PONDS SECTIONS AND DETAILS 8	X
243	M620	SETTLING PONDS AND ADULT HOLDING PONDS SECTIONS AND DETAILS 9	X
HVAC			
244	GH001	HVAC SCHEDULES	X
245	GH002	HVAC STANDARD DETAILS	X
246	GH003	HVAC & CONTROLS OPERATIONS DIAGRAM	X
247	H215	METER VAULT HVAC PLAN AND SECTIONS	X
248	H300	COHO BUILDING HVAC PLAN	X
249	H500	CHINOOK INCUBATION BUILDING HVAC PLAN	X
250	H600	SPAWNING BUILDING HVAC PLAN	X
ELECTRICAL			
251	GE001	STANDARD ELECTRICAL ABBREVIATIONS AND DEVICE INDEXES	X
252	GE002	ELECTRICAL STANDARD SYMBOLS 1	X
253	GE003	ELECTRICAL STANDARD SYMBOLS 2	X
254	GE004	ELECTRICAL LUMINAIRE SCHEDULE AND PANEL SCHEDULES	X
255	GE005	ELECTRICAL PANEL SCHEDULES	X
256	GE006	ELECTRICAL DUCT BANK SCHEDULE	X
257	GE007	ELECTRICAL CONDUIT SCHEDULE	X
258	GE008	ELECTRICAL CABLE SCHEDULE	X
259	GE009	ELECTRICAL STANDARD DETAILS 1	X
260	GE010	ELECTRICAL STANDARD DETAILS 2	X
261	E001	ELECTRICAL OVERALL ONE-LINE DIAGRAM	X
262	E100	OVERALL ELECTRICAL SITE KEY PLAN	X
263	E101	ELECTRICAL SITE NORTH PLAN	X
264	E102	ELECTRICAL SITE SOUTH PLAN	X
265	E200	INTAKE STRUCTURE POWER AND LIGHTING PLAN	X
266	E201	METER VAULT POWER PLAN	X
267	E300	COHO BUILDING POWER AND LIGHTING PLAN	X
268	E400	CHINOOK RACEWAYS #1-4 POWER PLAN	X
269	E401	CHINOOK RACEWAYS #5-8 POWER PLAN	X
270	E500	CHINOOK INCUBATION BUILDING POWER AND LIGHTING PLAN	X
271	E501	CHINOOK INCUBATION BUILDING ELEC ROOM POWER AND LIGHTING PLAN	X
272	E502	SCADA CABINET LAYOUT AND BILL OF MATERIALS	X
273	E503	SCADA CABINET CONTROL DIAGRAM 1	X
274	E504	SCADA CABINET CONTROL DIAGRAM 2	X
275	E505	SCADA CABINET CONTROL DIAGRAM 3	X
276	E506	HATCHERY INSTRUMENTATION AND CONTROL BLOCK DIAGRAM	X
277	E600	SPAWNING BUILDING POWER AND LIGHTING PLAN	X
278	E610	SETTLING PONDS AND ADULT HOLDING PONDS POWER PLAN	X
279	E611	WET WELL PUMP CONTROL PANEL LAYOUT AND BILL OF MATERIALS	X
280	E612	WET WELL PUMP CONTROL PANEL CONTROL DIAGRAM	X
INSTRUMENTATION			
281	GI001	INSTRUMENTATION AND EQUIPMENT LEGEND	X
282	GI002	GENERAL MECHANICAL PROCESS LEGEND	X
283	I200	PROCESS & INSTRUMENTATION DIAGRAM INTAKE	X
284	I300	PROCESS & INSTRUMENTATION DIAGRAM COHO BUILDING	X
285	I400	PROCESS & INSTRUMENTATION DIAGRAM CHINOOK RACEWAYS	X
286	I500	PROCESS & INSTRUMENTATION DIAGRAM CHINOOK INCUBATION BUILDING	X
287	I600	PROCESS & INSTRUMENTATION DIAGRAM SETTLING AND ADULT HOLDING PONDS	X

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KLAMATH RIVER RENEWAL CORPORATION		DRAWING G003
FALL CREEK FISH HATCHERY		
DRAWING INDEX 2		
DESIGNED <u>J. BURNS</u>		
DRAWN <u>R. GUERRERO</u>		
CHECKED <u>V. AUTIER</u>		
PROJECT DATE <u>10/28/20</u>		

PLAN

SCALE: 1/2"= 1'-0"

0'

2'

4'

N

SECTION IDENTIFICATION

(1) SECTION CUT ON DRAWING C102:

SECTION LETTER

A

C100

DRAWING WHERE SECTION IS DRAWN

(2) ON DRAWING C103 THIS SECTION IS IDENTIFIED AS:

SECTION VIEW

SCALE: 1/2"= 1'-0"

SECTION LETTER

A

C102

DRAWING WHERE DETAIL OCCURS*

DETAIL IDENTIFICATION

(1) DETAIL CALL-OUT ON DRAWING C102:

DETAIL NUMBER

1

C103

DRAWING WHERE DETAIL IS SHOWN

(2) ON DRAWING C103 THIS SECTION IS IDENTIFIED AS:

DETAIL

SCALE: 1/2"= 1'-0"

DETAIL NUMBER

1

C102

DRAWING WHERE DETAIL OCCURS*

*NOTE: IF PLAN AND SECTION (OR DETAIL CALL-OUT AND DETAIL) ARE SHOWN ON SAME DRAWING. DRAWING NUMBER IS REPLACED BY A LINE.

STANDARD DETAIL IDENTIFICATION

(1) DETAIL CALL-OUT ON PLAN OR SECTION:

STANDARD DETAIL NUMBER

M101

(2) ON DETAIL DRAWINGS, IDENTIFIED AS:

DETAIL

STANDARD DETAIL NUMBER

M101

ELEVATION/IMAGE IDENTIFICATION

1

D104

X

X

FENCE LINE

P

P

OVERHEAD POWER

455

MAJOR CONTOUR

456

MINOR CONTOUR

EDGE OF WATERLINE

TOE

TOE OF SLOPE

TOB

TOP OF BANK

SS

SS

SANITARY SEWER

SD

SD

STORM DRAIN

EP

EP

EDGE OF PAVEMENT

EG

EG

EDGE OF GRAVEL

W

WATTLE

SF

SF

SILT FENCE

CF

CF

CONSTRUCTION FENCE

GAS

GAS LINE

IRR

IRR

IRRIGATION LINE

WTR

WATER LINE

TEL

TELEPHONE LINE

COM

COMMUNICATION LINE

OHP

OVERHEAD ELECTRICAL/POWER

EUG

UNDERGROUND ELECTRICAL

P/L

PROPERTY LINE

OHP

EXISTING OVERHEAD POWER LINE

OHP&T

EXISTING OVERHEAD POWER & TELEPHONE LINE

T

EXISTING OVERHEAD TELEPHONE LINE

BT

EXISTING BURIED TELEPHONE LINE EVIDENCED BY PEDESTALS & WARNING PADDLES

X

X

X

X

X

EXISTING FENCE LINE

- - -

PROJECT BOUNDARY

O

O

O

O

TREE PROTECTION FENCE

TC

TURBIDITY CURTAIN

SF

SF

SILT FENCING

|||||

COFFERDAM

OHW

ORDINARY HIGH WATER

GB

GRADE BREAK

N

ARROW INDICATES DIRECTION OF PLAN NORTH

★

CONIFER TREE: FIR, SPRUCE, LARCH OR PINE, 8" DIAMETER OR LARGER.

☼

DECIDUOUS TREE: COTTONWOOD, HAWTHORN, ASPEN, 8" DIAMETER OR LARGER.

○

MH

MANHOLE

□

EB

ELECTRIC BOX

⊕

STORM DRAIN MANHOLE

●

FH

FIRE HYDRANT

●

YH-X

YARD HYDRANT

→

POLE ANCHOR

⬮

POWER POLE

⬮

LIGHT POLE

⬮

SIGN

⬮

EXISTING HEADWALL

⬮

EXISTING MONITORING STATION

X

X

EXISTING FENCE

+

STATE PLANE COORDINATE MARKER

⬮

EXISTING TREE LINE

□

W

EXISTING BUILDING, STRUCTURES

⬮

EXISTING HOSE BIB

⬮

EXISTING PORTABLE IRRIGATION WATER PUMP

⬮

EXISTING 6" WATER WELL

⬮

EXISTING ELECTRICAL OUTLET

⬮

EXISTING POWER POLE

⬮

EXISTING TELEPHONE PEDESTAL

⬮

PUMP

⬮

PUMP

⬮

TEST PIT LOCATION

⬮

5/8" REBAR WITH CAP

⬮

ALUMINUM CAP

⬮

MAGNAIL

⬮

SPIKE

⬮

SURVEY CONTROL POINT OR NORTHING EASTING

◆

CHANGE OF PIPE MTL

●

OR

⌋

END OF PIPE

⌋

CENTERLINE

∅

DIAMETER

∠

ANGLE

⌋

PLATE

±

PLUS/MINUS

ARCHITECTURAL SYMBOLS

1

4

A101

3

2

ELEVATION IDENTIFICATION

ELEVATIONS

SHEET NUMBER

ROOM NAME

101

ROOM NAME

ROOM IDENTIFICATION

ROOM NUMBER

XX

KEYNOTE (NUMBER)

1

1

TYPE NUMBER

ASSEMBLY TAG (WALL, FLOOR, ROOF)

101A

ROOM REFERENCE

DOOR IDENTIFICATION

DOOR LETTER (WHERE APPLICABLE)

1t

WINDOW IDENTIFICATION

WINDOW TYPE (LETTER OR NUMBER)

●

DATUM POINT

CONTROL POINT OR WORK POINT

ROCK, TYPE AS NOTED (PLAN/SECTION)

BED ROCK

EXISTING GRADE (SECTION)

NEW SOIL (SECTION)

CONCRETE (SECTION/PLAN)

SAND, GROUT (PLAN/SECTION)

STEEL (SECTION)

GRATING (PLAN)

MASONRY (PLAN)

WOOD, SIZE/TYPE AS NOTED (PLAN)

WOOD, SIZE/TYPE AS NOTED (SECTION)

RIP RAP (PLAN/SECTION)

RIGID INSULATION (SECTION)

ASPHALT CONCRETE PAVEMENT SURFACE (PLAN/SECTION)

GRASS/VEGETATION (PLAN)

BATT INSULATION (SECTION)

NEW CONSTRUCTION

EXISTING

EXISTING TO BE REMOVED OR DEMOLISHED

CLEARING AND GRUBBING

GENERAL NOTES:

1. ALL SYMBOLS ARE NOT NECESSARILY USED. THIS IS A STANDARD DRAWING SHOWING COMMON SYMBOLS ON THIS PROJECT.

2. SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH DRAWING FOR USAGE.

0

10/28/20

MDM

ISSUED FOR CONSTRUCTION

REV

DATE

BY

DESCRIPTION

REGISTERED PROFESSIONAL ENGINEER

C 89951

VINCENT PHILIPPE AUTIER

CIVIL

STATE OF CALIFORNIA

10/28/2020

WARNING

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION

FALL CREEK FISH HATCHERY

STANDARD SYMBOLS

DESIGNED J. BURNS

DRAWN R. GUERRERO

CHECKED V. AUTIER

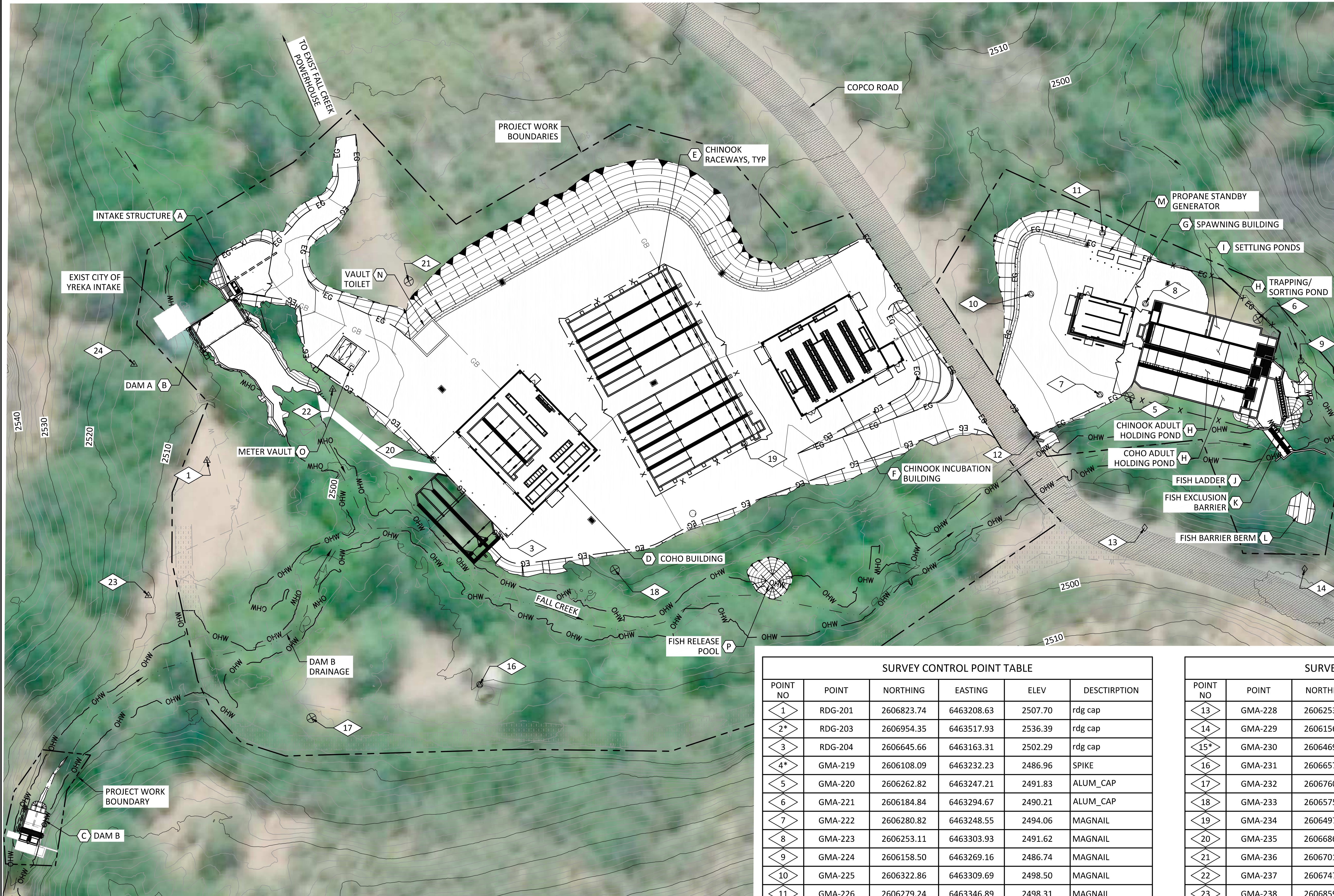
PROJECT DATE 10/28/20

DRAWING

G005

Path: C:\Vault20\Klamath River Renewal Corp\Fall Creek Facility\G005.dwg Plot date: Oct 28, 2020 01:00pm, CAD User: Guerrero

JOB NO: 000000



- SHEET NOTES:**
1. LIDAR SURVEY PROVIDED BY KRRC ON FEBRUARY 2020. CONTRACTOR SHALL CONFIRM AND VERIFY ELEVATIONS PRIOR TO CONSTRUCTION.
 2. THE HORIZONTAL DATUM FOR THE PROJECT IS BASED UPON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 1 NORTH AMERICAN DATUM OF 1983 (NAD83) IN FEET.
 3. THE VERTICAL DATUM FOR THE PROJECT IS BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88, GEOID 12B).

- MAJOR CONSTRUCTION ITEMS:**
- A CONSTRUCT CONCRETE INTAKE STRUCTURE ON SOUTHEAST BANK OF FALL CREEK ADJACENT TO DAM A. THE INTAKE WILL DIVERT UP TO 10 CFS FROM FALL CREEK.
 - B CONSTRUCT CONCRETE APRON DOWNSTREAM OF DAM A TO CREATE A VELOCITY FISH BARRIER TO PRECLUDE ADULT AND JUVENILE FISH.
 - C CONSTRUCT CONCRETE APRON DOWNSTREAM OF DAM B TO CREATE A VELOCITY FISH BARRIER TO PRECLUDE ADULT AND JUVENILE FISH.
 - D CONSTRUCT PEMB COHO BUILDING TO HOUSE COHO INCUBATION, GROW-OUT AND REARING RACEWAY INFRASTRUCTURE. REHABILITATE EXISTING UPPER RACEWAY STRUCTURE CONCRETE PER CONTRACT DOCUMENTS.
 - E CONSTRUCT CONCRETE CHINOOK RACEWAYS. RACEWAYS SHALL BE CONSTRUCTED WITH FISH SCREEN GUIDE SLOTS AND STOP LOG SLOTS ALONG THE LENGTH OF THE STRUCTURE SUCH THAT PONDING VOLUMES CAN BE INCREMENTED BASED ON FISH DEVELOPMENT.
 - F CONSTRUCT PEMB CHINOOK INCUBATION BUILDING TO HOUSE THE CHINOOK EGG INCUBATION OPERATIONS.
 - G CONSTRUCT PEMB SPAWNING BUILDING TO HOUSE AND STORE ALL SPAWNING INFRASTRUCTURE AND ACTIVITIES. SPAWNING BUILDING TO OPEN TO THE TRAPPING AND SORTING POND.
 - H REHABILITATE AND CONSTRUCT NEW CONCRETE WALLS IN EXISTING LOWER RACEWAYS TO CREATE THE ADULT HOLDING PONDS PER CONTRACT DOCUMENTS.
 - I REHABILITATE AND CONSTRUCT NEW CONCRETE WALLS IN EXISTING LOWER RACEWAYS TO CREATE THE SETTLING PONDS PER CONTRACT DOCUMENTS.
 - J CONSTRUCT DENIL-TYPE FISH LADDER.
 - K CONSTRUCT CONCRETE SILL FOR INSTALLATION OF MANUAL PICKET FISH EXCLUSION BARRIER.
 - L CONSTRUCT EARTHEN FISH BARRIER BERM TO PREVENT FISH PASSAGE DURING EXTREME FLOOD EVENTS.
 - M INSTALL EXISTING IGPH 100 KW KOHLER PROPANE STANDBY GENERATOR AND EXISTING IGPH 500 GALLON PROPANE STORAGE TANK.
 - N CONSTRUCT VAULT TOILET.
 - O CONSTRUCT CONCRETE METER VAULT AND INSTALL APPURTENANT VALVES AND FLOW METERS.
 - P CONSTRUCT FISH RELEASE PLUNGE POOL IN FALL CREEK EAST OVBANK AREA.

OVERALL PLAN AND PROJECT CONTROL

SCALE: 1"= 30'

0" 30' 60'



NOTE: * INDICATES CONTROL POINT IS OUTSIDE OF PLAN VIEW AREA AND NOT SHOWN.

SURVEY CONTROL POINT TABLE

POINT NO	POINT	NORTHING	EASTING	ELEV	DESCIRPTION
1	RDG-201	2606823.74	6463208.63	2507.70	rdg cap
2*	RDG-203	2606954.35	6463517.93	2536.39	rdg cap
3	RDG-204	2606645.66	6463163.31	2502.29	rdg cap
4*	GMA-219	2606108.09	6463232.23	2486.96	SPIKE
5	GMA-220	2606262.82	6463247.21	2491.83	ALUM_CAP
6	GMA-221	2606184.84	6463294.67	2490.21	ALUM_CAP
7	GMA-222	2606280.82	6463248.55	2494.06	MAGNAIL
8	GMA-223	2606253.11	6463303.93	2491.62	MAGNAIL
9	GMA-224	2606158.50	6463269.16	2486.74	MAGNAIL
10	GMA-225	2606322.86	6463309.69	2498.50	MAGNAIL
11	GMA-226	2606279.24	6463346.89	2498.31	MAGNAIL
12	GMA-227	2606319.23	6463224.09	2494.50	MAGNAIL

SURVEY CONTROL POINT TABLE

POINT NO	POINT	NORTHING	EASTING	ELEV	DESCIRPTION
13	GMA-228	2606253.57	6463167.72	2496.70	SPIKE
14	GMA-229	2606156.29	6463142.68	2499.27	SPIKE
15*	GMA-230	2606469.67	6463058.61	2502.11	SPIKE
16	GMA-231	2606657.88	6463072.32	2500.25	MAGNAIL
17	GMA-232	2606760.22	6463052.02	2504.21	ALUM_CAP
18	GMA-233	2606575.73	6463142.16	2502.67	ALUM_CAP
19	GMA-234	2606497.02	6463218.66	2503.68	MAG W SHINER
20	GMA-235	2606686.24	6463209.10	2504.32	MAG W FLASHER
21	GMA-236	2606701.04	6463317.49	2510.86	ALUM_CAP
22	GMA-237	2606747.25	6463251.91	2506.06	SPIKE
23	GMA-238	2606859.31	6463126.43	2510.37	SPIKE
24	GMA-239	2606868.09	6463267.05	2514.47	SPIKE

0	10/28/20	MDM	ISSUED FOR CONSTRUCTION	
REV	DATE	BY	DESCRIPTION	



WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



KLAMATH RIVER RENEWAL CORPORATION

FALL CREEK FISH HATCHERY

OVERALL PROJECT PLAN
AND PROJECT CONTROL

DESIGNED A. LEMAN

DRAWN J. LAHMON

CHECKED V. AUTIER

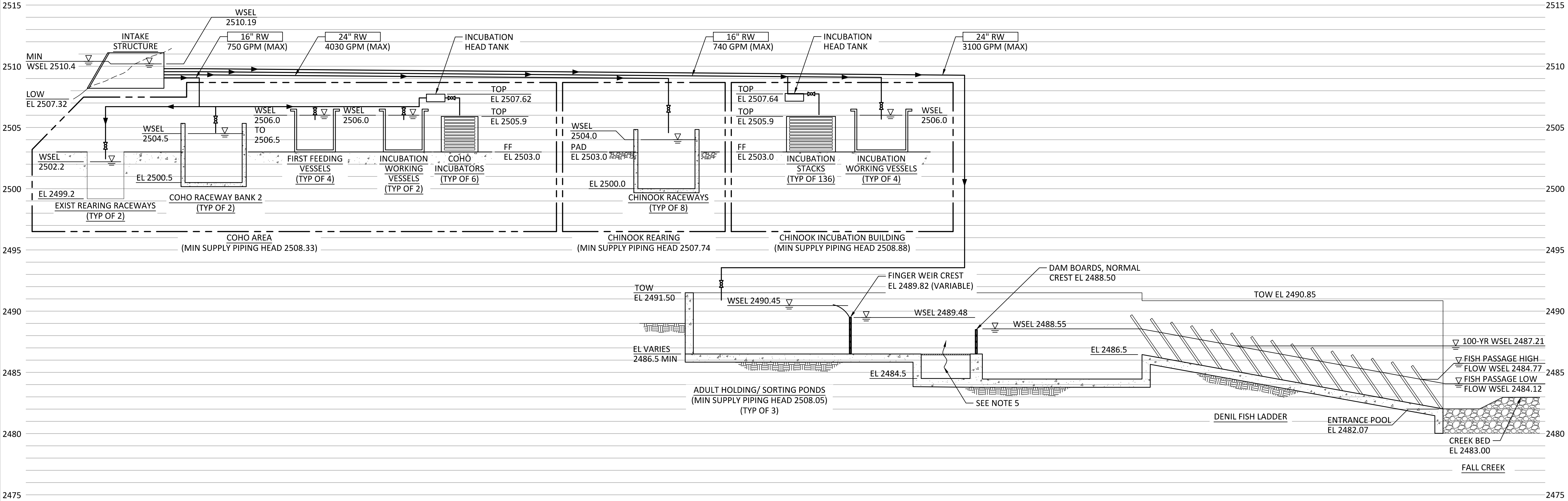
PROJECT DATE 10/28/20

DRAWING

G006

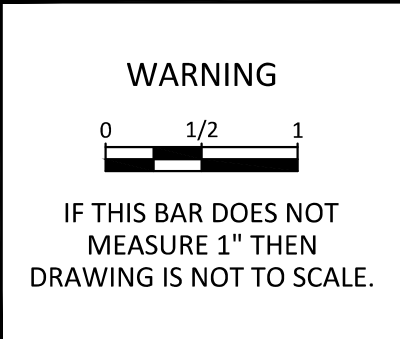
SUPPLY DESIGN CRITERIA	
DESCRIPTION	VALUE
INTAKE SCREEN PERCENT OPEN AREA	50%
INTAKE SCREEN PERCENT OCCLUDED	40%
INTAKE LOSSES	0.21 FT
SUPPLY PIPING HAZEN-WILLIAMS COEFFICIENT	120
MAXIMUM WATER RIGHT	10 CFS
INTAKE PIPING MINIMUM ALLOWABLE VELOCITY	1.5 FT/S
INTAKE PIPING MAXIMUM ALLOWABLE VELOCITY	5.0 FT/S

- SHEET NOTES:
- DRAIN PIPING, WASTE DRAIN PIPING, UTILITY WATER PIPING, AND FISH RELEASE PIPING NOT SHOWN ON THIS SHEET FOR CLARITY.
 - SUPPLY PIPING HYDRAULICS WERE EVALUATED UNDER 5 DIFFERENT SCENARIOS TO ACCOUNT FOR CONTINGENCIES IN PIPE ROUGHNESS, OPERATIONAL CHANGES, ADDITIONAL INTAKE LOSSES, AND ALTERNATIVE MINOR LOSS ACCOUNTING. THE PIPING SYSTEM WAS FOUND TO PROVIDE THE REQUIRED DESIGN FLOWS TO ALL DEMAND NODES IN EACH OF THE SCENARIOS. REPORTED SUPPLY HEAD ON THIS SHEET REFERS TO THE SUPPLY DESIGN CRITERIA, AS SHOWN, AND FLOW RATES AS INDICATED ON THIS SHEET.
 - SUPPLY PIPING TO THE SPAWNING BUILDING IS USED FOR UTILITY WATER ONLY, AND THEREFORE IS NOT SHOWN ON THIS SHEET. SUPPLY TO THE SPAWNING BUILDING WILL BE TAPPED FROM THE ADULT HOLDING SUPPLY PIPE.
 - FLOW RATES INDICATED AS MAXIMA ARE ANNUAL MAXIMA BASED ON BIOPROGRAM DEMANDS FOR EACH OF THE FACILITIES. MAXIMUM FLOWS DO NOT OCCUR SIMULTANEOUSLY. AT ALL TIMES DURING THE YEAR, BIOPROGRAM DEMANDS ARE WITHIN THE 10 CFS WATER RIGHT.
 - WATER SUPPLIED THROUGH DIFFUSER PLATE FROM CHINOOK AND COHO ADULT HOLDING POND OVERFLOW.



SUPPLY PIPING HYDRAULIC PROFILE
SCALE: NTS

0	10/28/20	MDM	ISSUED FOR CONSTRUCTION
REV	DATE	BY	DESCRIPTION



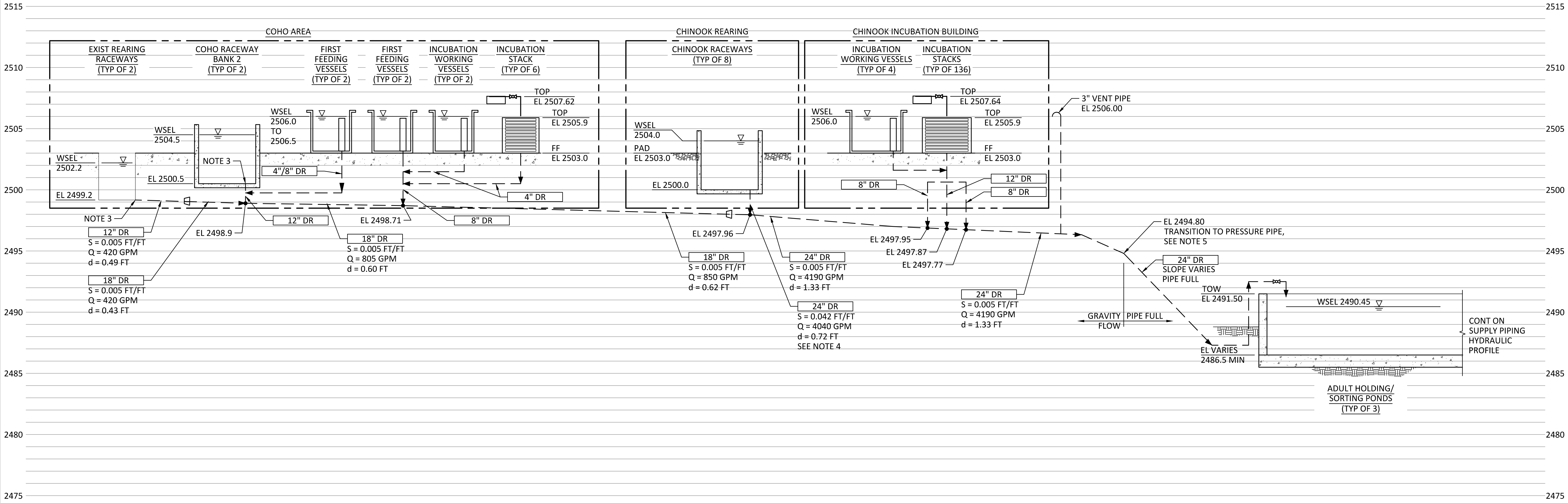
KLAMATH RIVER RENEWAL CORPORATION		DESIGNED	J. BURNS	DRAWING G007
FALL CREEK FISH HATCHERY		DRAWN	R. GUERRERO	
SUPPLY PIPING HYDRAULIC PROFILE AND DESIGN CRITERIA		CHECKED	V. AUTIER	
		PROJECT DATE	10/28/20	

DRAIN PIPING DESIGN CRITERIA	
DESCRIPTION	VALUE
MAXIMUM FLOW DEPTH - % INNER DIAMETER	75%
MINIMUM SELF-CLEANING VELOCITY	2.0 FT/S
ADULT HOLDING ORIFICE COEFFICIENT	0.62
ADULT HOLDING NUMBER OF ORIFICES	3
PRESSURE PIPE ROUGHNESS COEFFICIENT	6.0x10 ⁻⁵ IN
OPEN CHANNEL PIPE ROUGHNESS COEFFICIENT	0.013

- SHEET NOTES:**
- DISCHARGE LISTED IS MAXIMUM DESIGN FLOW. FLOW DEPTH CORRESPONDS TO THE MAXIMUM DESIGN FLOW.
 - ALL SUPPLY PIPING, WASTE DRAIN PIPING, UTILITY WATER PIPING, AND FISH RELEASE PIPING NOT SHOWN ON THIS SHEET FOR CLARITY.
 - PIPE INLET CONFIGURATIONS AT THE COHO AREA RACEWAYS ALLOW FOR SUFFICIENT AIRFLOW TO AERATE THE UPPER REACH OF THE DRAIN PIPE.
 - 24"Ø CHINOOK RACEWAYS DRAIN PIPE EQUIPPED WITH VENT PIPE TO EL 2506.00 THAT WILL SERVE TO AERATE THE CHINOOK RACEWAYS DRAIN AND THE TRUNK LINE.
 - PIPE RISERS AT THE ADULT HOLDING PONDS WILL INDUCE THE DRAIN PIPE TO FILL AT APPROX EL 2494.80 WHEN THE FULL 10 CFS IS CONVEYED BY THIS PIPELINE TO THE ADULT HOLDING PONDS. THIS WILL BE THE MAXIMUM ELEVATION ATTAINED BY THE PRESSURE FLOW, AND FOR LOWER FLOW RATES, THIS ELEVATION WILL BE SLIGHTLY LOWER. IN NO CASE DOES THE PRESSURE FLOW CAUSE AN INUNDATION OF THE UPPER SITE DRAIN SYSTEMS.

ABBREVIATIONS:

S = PIPE SLOPE
Q = MAXIMUM DISCHARGE
d = FLOW DEPTH



DRAIN PIPING HYDRAULIC PROFILE
SCALE: NTS

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REV	DATE	BY	DESCRIPTION	



WARNING

0 1/2 1

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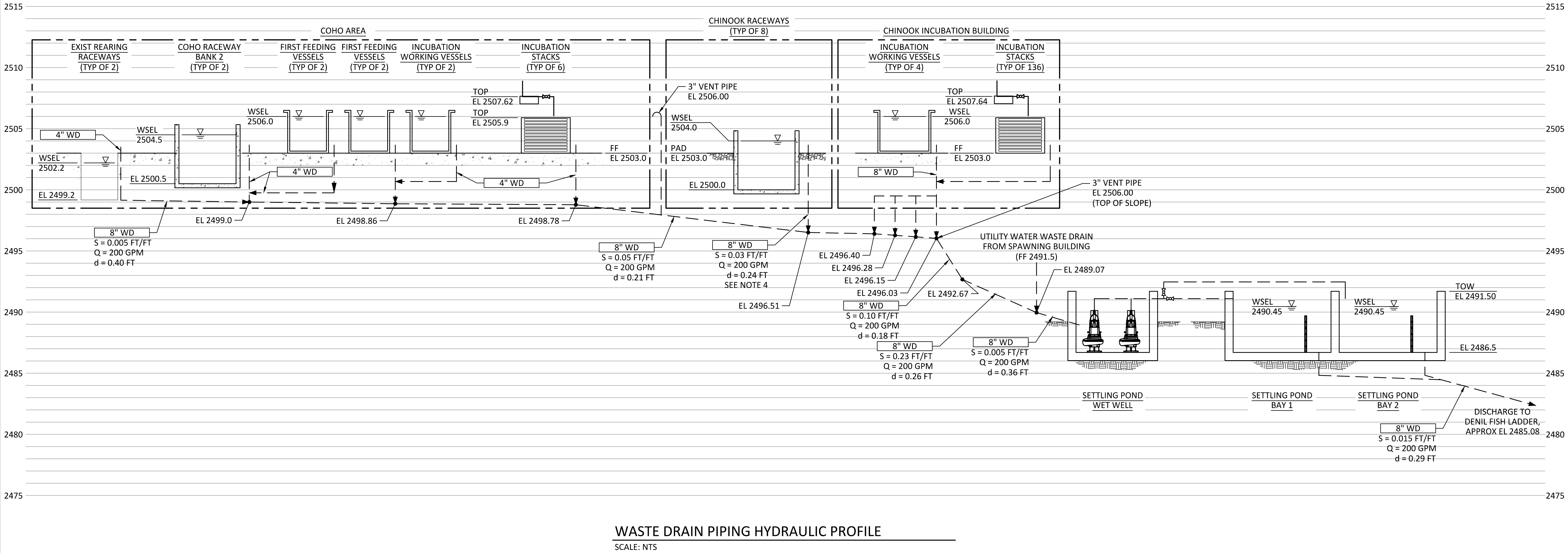
KLAMATH RIVER RENEWAL CORPORATION		DRAWING	
FALL CREEK FISH HATCHERY		DESIGNED <u>J. BURNS</u>	G008
DRAIN PIPING HYDRAULIC PROFILE AND DESIGN CRITERIA		DRAWN <u>R. GUERRERO</u>	
		CHECKED <u>V. AUTIER</u>	
		PROJECT DATE <u>10/28/20</u>	

WASTE DRAIN PIPING DESIGN CRITERIA	
DESCRIPTION	VALUE
MAXIMUM FLOW DEPTH - % INNER DIAMTER	75%
MINIMUM SELF-CLEANING VELOCITY	2.0 FT/S
DESIGN SETTLING VELOCITY	0.00151 FT/S
CLEANING MAXIMUM FLOW RATE, SEE NOTE 3	200 GPM
SETTLING POND WEIR COEFFICIENT	3.33
OPEN CHANNEL PIPE ROUGHNESS COEFFICIENT	0.013

- SHEET NOTES:**
- AT EACH POND OR VAT A RISER PIPE WILL BE PROVIDED AT GRADE SUCH THAT POND WASTE CAN BE VACUUMED TO THE WASTE DRAIN SYSTEM.
 - ALL SUPPLY PIPING, DRAIN PIPING, UTILITY WATER PIPING, AND FISH RELEASE PIPING NOT SHOWN ON THIS SHEET FOR CLARITY.
 - MAXIMUM CLEANING RATE IS CONTROLLED BY THE SIZE OF THE TWO SETTLING POND BAYS, AND THEREFORE THE PIPELINE WAS SIZED FOR THIS CONDITION. IT IS ASSUMED THAT THIS WILL ALLOW FOR THE OPERATION OF (2) VACUUMS SIMULTANEOUSLY.
 - CHINOOK RACEWAYS WASTE DRAIN PIPE EQUIPPED WITH VENT PIPE TO EL 2506.00. CHINOOK RACEWAY WASTE DRAIN VENT PIPE SERVES TO VENTILATE THE WASTE DRAIN PIPE AND THE TRUNK LINE.
 - WASTE DRAINPIPE DISCHARGES TO WET WELL WITH (2) SUBMERSIBLE NON-CLOG SUMP PUMPS. PUMP CONFIGURATION, STARTS/STOPS, AND ALARMS ARE SHOWN ON SHEET M614.

ABBREVIATIONS:

S = PIPE SLOPE
Q = MAXIMUM DISCHARGE
d = FLOW DEPTH



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WARNING

0 1/2 1

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KLAMATH RIVER RENEWAL CORPORATION		DRAWING G009
FALL CREEK FISH HATCHERY		
WASTE DRAIN PIPING HYDRAULIC PROFILE AND DESIGN CRITERIA		
DESIGNED <u>J. BURNS</u>		
DRAWN <u>R. GUERRERO</u>		
CHECKED <u>V. AUTIER</u>		
PROJECT DATE <u>10/28/20</u>		

Path: C:\Vault20\Klamath River Renewal Corp\Fall Creek Facility\G009.dwg Plot date: Oct 28, 2020 01:01pm, CAD User: Guerrero

JOB NO: 000000

FLUID ABBREVIATION

FUNCTION	ALLOWABLE PIPING MATERIAL GROUP NO. (SEE NOTE 1 AND 4)				FIELD TEST REQUIREMENTS (SEE NOTE 3 AND NOTE 4)			
THIS LIST MAY INCLUDE FLUIDS NOT USED IN THIS PROJECT	EXPOSED PIPING (SEE NOTE 14)		BURIED PIPING (SEE NOTE 13)		MINIMUM TEST PRESSURE PSI	TEST MEDIUM	LEAKAGE ALLOWANCE (SEE NOTE 2)	
(* SEE NOTE 5)	3" DIA AND SMALLER	4" DIA AND LARGER	3" DIA AND SMALLER	4" DIA AND LARGER				
COMMONLY USED FUNCTIONS								
DR	DRAIN	2,16	16	16	16	10	WATER	(A)
FR	FISH RELEASE (NOTE 16)	--	31	--	31	10	WATER	(B)
RW	RAW WATER	2,11,16	11,16	2,11,16	11,16	50	WATER	(A)
UW	UTILITY WATER (NOT-POTABLE)	16	16	16	16	125	WATER	(A)
VT	VENT	15,16	2,15,16	15,16	2,15,16	15 IN Hg	VACUUM	(A) (D)
WD	WASTE DRAIN	16	16	16	16	10	WATER	(A)
SDR	STORM DRAIN	--	--	--	16	SEE NOTE 6	WATER	(C)
SUC	STRUCTURAL UNDERDRAIN COLLECTOR	--	--	--	16	SEE NOTE 6	WATER	(C)
R	REFRIGERANT	24	--	--	--	SEE NOTE 18		

PIPING MATERIAL SCHEDULE (SEE NOTE 1)

GROUP NO.	PIPE MATERIAL	FITTINGS / JOINTS	LININGS AND COATINGS (SEE NOTE 13)
2	STEEL, ASTM A53, SCHEDULE 40, BLACK WELDED, GALVANIZED	2½" AND SMALLER, MALLEABLE IRON, ASME B16.3, THREADED, BANDED, GALVANIZED 150 PSI. 3" AND LARGER, CAST IRON, ASME B16.1, 125 PSI FLANGED OR MECHANICAL COUPLING.	NOT APPLICABLE
11	DUCTILE IRON, ASME A21.51, (AWWA C151 AND MODIFIED PER SECTION 40 23 19)	DUCTILE IRON AWWA C110 AND MODIFIED PER SECTION 40 23 19, BELL AND SPIGOT JOINTS (RESTRAINT OR NON-RESTRAINT), MECH CPLNG, FLGD OR MECH JTS, 250 PSI ,(PRESS. RATING) 12" AND SMALLER, 150 PSI, (PRESS. RATING) 14" AND LARGER, WITH 125 PSI ASME B16.1 FLANGES. FOR HIGHER PRESS. RATING, REFER TO MFTR CATALOG.	SEE SECTION 09 96 00
15	STAINLESS STEEL, TYPE 316, ASTM A312, SCHEDULE 10S	STAINLESS STEEL, TYPE 316 WELDED SLIP-ON FLANGE, ASME B16.3 OR SOCKET WELDED FITTINGS SCHEDULE 40S (NO THREADED JOINTS ALLOWED)	NOT APPLICABLE
16	POLYVINYL CHLORIDE, SCHEDULE 80, NORMAL IMPACT. ASTM D1785.	POLYVINYL CHLORIDE, SCHEDULE 80, NORMAL IMPACT, SOCKET SOLVENT WELD JOINTS, ASTM D2467 PER SECTION 40 23 22. (SOLVENT & GLUE SHALL BE COMPATIBLE WITH FLUID SERVICE)	NOT APPLICABLE
24	COPPER, ASTM B88, TYPE K, SOFT TEMPERED WHERE BURIED, HARD TEMPERED WHERE EXPOSED. (PER SECTION 23 23 00)	WROUGHT COPPER OR CAST BRONZE, ASME B16.22, SOLDER JOINT, 150 PSI, OR COMPRESSION FITTINGS. (FOR OXYGEN PIPING USE SILVER SOLDER, FOR COMPRESSED AIR PIPING USE 95-5 TIN-ANTIMONY SOLDER)	NOT APPLICABLE
31	HIGH DENSITY POLYETHYLENE (HDPE) ASTM D3350 - DR26 (NOTE 17)	HDPE THERMAL BUTT WELD; FLANGE CONNECTIONS AT ALL VALVES AND TRANSITIONS.	NOT APPLICABLE

TYPICAL PIPE DESIGNATION:

2" UW (24)

PIPE DIAMETER

FLUID ABBREVIATION

MATERIAL GROUP NUMBER
(SEE NOTE 12)

NOTES:

NOTE 1

ALTHOUGH SEVERAL PIPE MATERIAL GROUPS MAY BE LISTED ON THIS SHEET FOR A GIVEN FLUID SERVICE, CONTRACTOR SHALL PROVIDE ONLY THE PIPE MATERIAL GROUP SHOWN ON THE DRAWINGS AND SPECIFIED FOR THAT FLUID SERVICE.

NOTE 2

LEAKAGE ALLOWANCE IS AS FOLLOWS
A. PIPES SO DESIGNATED SHALL SHOW ZERO LEAKAGE.
B. PIPES SO DESIGNATED SHALL SHOW ZERO LEAKAGE FOR UNBURIED PIPE AND NOT MORE THAN 0.02 GALLON PER HOUR PER INCH DIAMETER PER 100 FEET OF BURIED PIPE.
C. PIPES SO DESIGNATED SHALL NOT SHOW A LEAKAGE OF MORE THAN 0.15 GALLON PER HOUR PER INCH OF DIAMETER PER 100 FEET OF PIPE.
D. PIPES SO DESIGNATED SHALL NOT SHOW A LOSS OF PRESSURE OF MORE THAN 5 PERCENT.
E. PIPE SO DESIGNATED SHALL NOT SHOW A LOSS OF VACUUM OF MORE THAN 4 INCHES MERCURY COLUMN.

NOTE 3

FOR FIELD TEST PROCEDURES AND ADDITIONAL TEST REQUIREMENTS, SEE PIPING SECTION OF SPECIFICATIONS.

NOTE 4

NO SUBSTITUTIONS U.N.O. IN THE SPECIFICATIONS.

NOTE 5

PIPING GROUP FUNCTION SHOWN THUS * SHALL BE INSULATED PER SPECIFICATIONS.

NOTE 6

STATIC WATER TEST WITH SURFACE 5-FEET ABOVE HIGH POINT OF PIPE.

NOTE 7

NOT APPLICABLE.

NOTE 8

NOT APPLICABLE.

NOTE 9

NOT APPLICABLE.

NOTE 10

NOT APPLICABLE.

NOTE 11

NOT APPLICABLE.

NOTE 12

CHANGE IN PIPING MATERIAL GROUP NUMBER IS INDICATED THUS: ———◆

NOTE 13

FOR FULL PIPE LINING AND COATING REQUIREMENTS, SEE SPECIFICATIONS.

NOTE 14

EXPOSED OUTDOOR PIPING SHALL BE PAINTED IN ACCORDANCE WITH SPECIFICATIONS. COLORS TO BE SELECTED BY OWNER.

NOTE 15

NOT APPLICABLE.

NOTE 16

ALL FISH RELEASE PIPE BENDS SHALL HAVE A MINIMUM RADIUS OF 5 TIMES THE PIPE DIAMETER. FITTINGS FOR FISH RELEASE PIPE SHALL BE OF THE SAME MATERIAL AS THE PIPING. ALL FISH RELEASE PIPING SHALL BE FREE OF BURRS AND ROUGH SURFACES. ALL PIPING JOINTS SHALL BE SMOOTH AND FREE OF SURFACE BLEMISHES. INTERNAL BEAD FROM BUTT WELDING SHALL BE REMOVED USING A DEBEADER FOR PIPES UP TO 20"Ø (INTERNAL). ABOVE 20"Ø INTERNAL BEAD SHALL BE REMOVED BY ENTERING THE PIPE.

NOTE 17

FOR HDPE PIPING THE SIZE OF PIPE SHOWN ON DRAWING CALL-OUTS SHALL BE THE NOMINAL PIPE DIAMETER. HDPE PIPE SHALL BE ACCORDING TO THE IRON PIPE SIZE (IPS) CONVENTION, AND THE PIPE WALL THICKNESS AND INNER DIAMETER SHALL BE PER DR RATING REQUIREMENT.

NOTE 18

ALL REFRIGERANT PIPING SHALL CONFORM TO SPECIFICATION 23 23 00 AND SHALL COMPLY WITH ASME B31.5, CHAPTER VI.

0	10/28/20	MDM	ISSUED FOR CONSTRUCTION
REV	DATE	BY	DESCRIPTION

REGISTERED PROFESSIONAL ENGINEER
VINCENT PHILIPPE AUTIER
C 89951
CIVIL
STATE OF CALIFORNIA
10/28/2020

WARNING

01/21

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

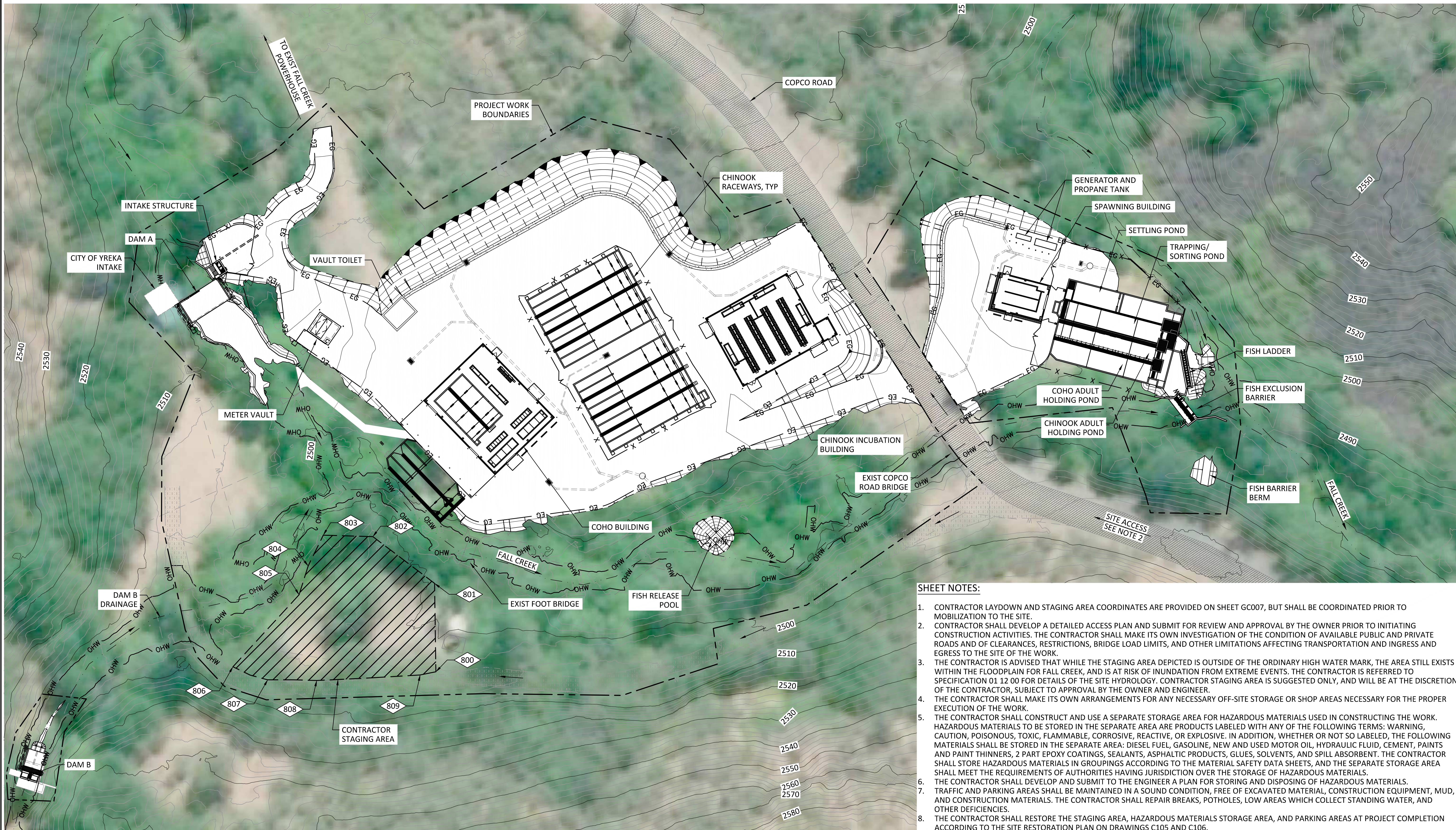
McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION		DESIGNED <u>S. ELLENSON</u>	DRAWING G010
FALL CREEK FISH HATCHERY		DRAWN <u>R. GUERRERO</u>	
PIPING SCHEDULE		CHECKED <u>J. BOAG</u>	
		PROJECT DATE <u>10/28/20</u>	

Path: C:\Vaul20\Klamath River Renewal Corp\Fall Creek Facility\G010.dwg Plot date: Oct 28, 2020 01:01pm, CAD User: Guerrero

JOB NO: 000000



- SHEET NOTES:**
1. CONTRACTOR LAYDOWN AND STAGING AREA COORDINATES ARE PROVIDED ON SHEET GC007, BUT SHALL BE COORDINATED PRIOR TO MOBILIZATION TO THE SITE.
 2. CONTRACTOR SHALL DEVELOP A DETAILED ACCESS PLAN AND SUBMIT FOR REVIEW AND APPROVAL BY THE OWNER PRIOR TO INITIATING CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL MAKE ITS OWN INVESTIGATION OF THE CONDITION OF AVAILABLE PUBLIC AND PRIVATE ROADS AND OF CLEARANCES, RESTRICTIONS, BRIDGE LOAD LIMITS, AND OTHER LIMITATIONS AFFECTING TRANSPORTATION AND INGRESS AND EGRESS TO THE SITE OF THE WORK.
 3. THE CONTRACTOR IS ADVISED THAT WHILE THE STAGING AREA DEPICTED IS OUTSIDE OF THE ORDINARY HIGH WATER MARK, THE AREA STILL EXISTS WITHIN THE FLOODPLAIN FOR FALL CREEK, AND IS AT RISK OF INUNDATION FROM EXTREME EVENTS. THE CONTRACTOR IS REFERRED TO SPECIFICATION 01 12 00 FOR DETAILS OF THE SITE HYDROLOGY. CONTRACTOR STAGING AREA IS SUGGESTED ONLY, AND WILL BE AT THE DISCRETION OF THE CONTRACTOR, SUBJECT TO APPROVAL BY THE OWNER AND ENGINEER.
 4. THE CONTRACTOR SHALL MAKE ITS OWN ARRANGEMENTS FOR ANY NECESSARY OFF-SITE STORAGE OR SHOP AREAS NECESSARY FOR THE PROPER EXECUTION OF THE WORK.
 5. THE CONTRACTOR SHALL CONSTRUCT AND USE A SEPARATE STORAGE AREA FOR HAZARDOUS MATERIALS USED IN CONSTRUCTING THE WORK. HAZARDOUS MATERIALS TO BE STORED IN THE SEPARATE AREA ARE PRODUCTS LABELED WITH ANY OF THE FOLLOWING TERMS: WARNING, CAUTION, POISONOUS, TOXIC, FLAMMABLE, CORROSIVE, REACTIVE, OR EXPLOSIVE. IN ADDITION, WHETHER OR NOT SO LABELED, THE FOLLOWING MATERIALS SHALL BE STORED IN THE SEPARATE AREA: DIESEL FUEL, GASOLINE, NEW AND USED MOTOR OIL, HYDRAULIC FLUID, CEMENT, PAINTS AND PAINT THINNERS, 2 PART EPOXY COATINGS, SEALANTS, ASPHALTIC PRODUCTS, GLUES, SOLVENTS, AND SPILL ABSORBENT. THE CONTRACTOR SHALL STORE HAZARDOUS MATERIALS IN GROUPINGS ACCORDING TO THE MATERIAL SAFETY DATA SHEETS, AND THE SEPARATE STORAGE AREA SHALL MEET THE REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION OVER THE STORAGE OF HAZARDOUS MATERIALS.
 6. THE CONTRACTOR SHALL DEVELOP AND SUBMIT TO THE ENGINEER A PLAN FOR STORING AND DISPOSING OF HAZARDOUS MATERIALS.
 7. TRAFFIC AND PARKING AREAS SHALL BE MAINTAINED IN A SOUND CONDITION, FREE OF EXCAVATED MATERIAL, CONSTRUCTION EQUIPMENT, MUD, AND CONSTRUCTION MATERIALS. THE CONTRACTOR SHALL REPAIR BREAKS, POTHOLES, LOW AREAS WHICH COLLECT STANDING WATER, AND OTHER DEFICIENCIES.
 8. THE CONTRACTOR SHALL RESTORE THE STAGING AREA, HAZARDOUS MATERIALS STORAGE AREA, AND PARKING AREAS AT PROJECT COMPLETION ACCORDING TO THE SITE RESTORATION PLAN ON DRAWINGS C105 AND C106.

0

REV

10/28/20

MDM

ISSUED FOR CONSTRUCTION

DESCRIPTION

10/28/2020

REGISTERED PROFESSIONAL ENGINEER

VINCENT PHILIPPE AUTIER

C 89951

CIVIL

STATE OF CALIFORNIA

WARNING

0 1/2 1

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McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION

FALL CREEK FISH HATCHERY

CONTRACTOR STAGING AREA

DESIGNED A. LEMAN

DRAWN J. LAHMON

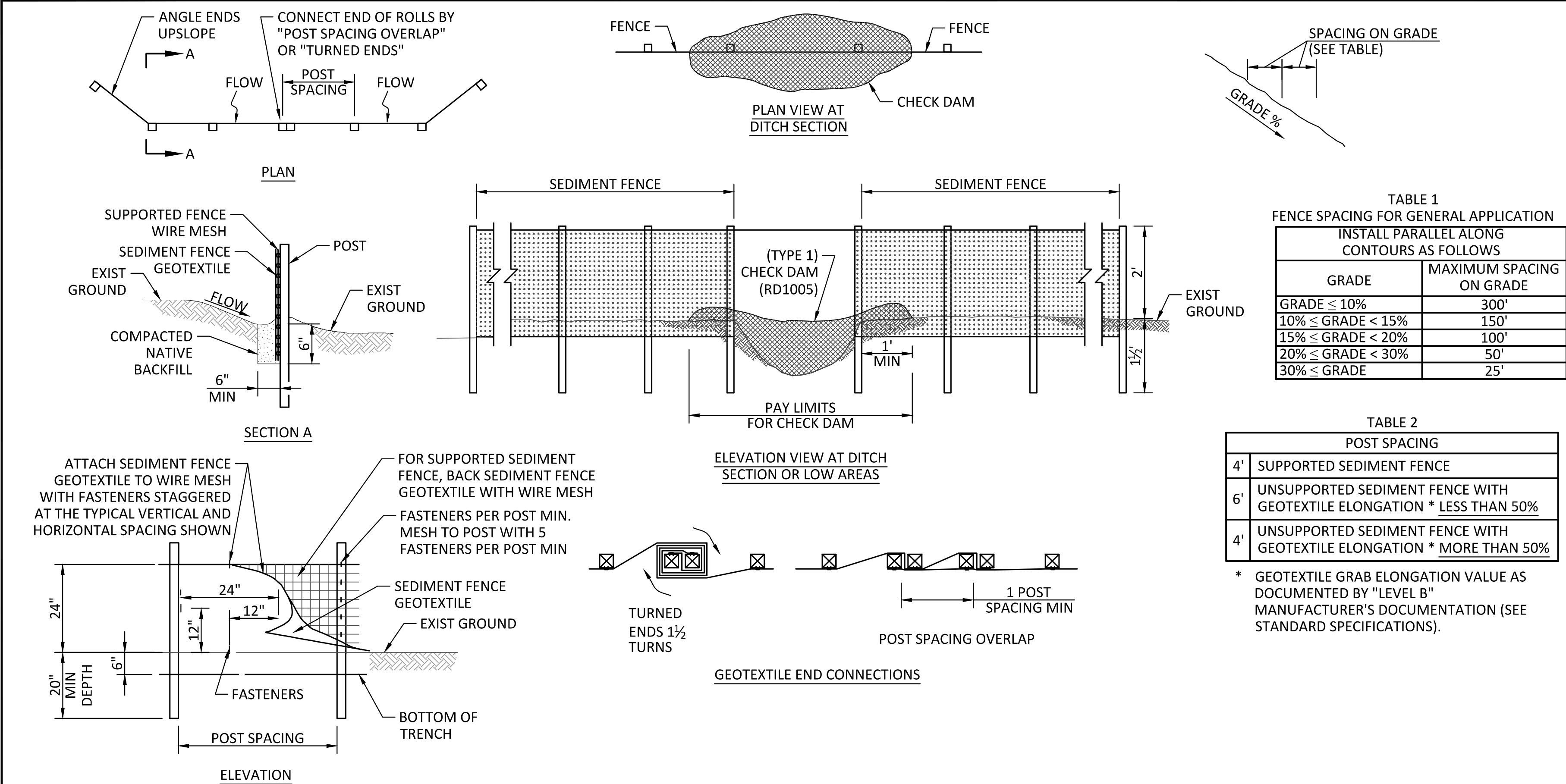
CHECKED V. AUTIER

PROJECT DATE 10/28/20

DRAWING

G011

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SILT FENCE DETAIL

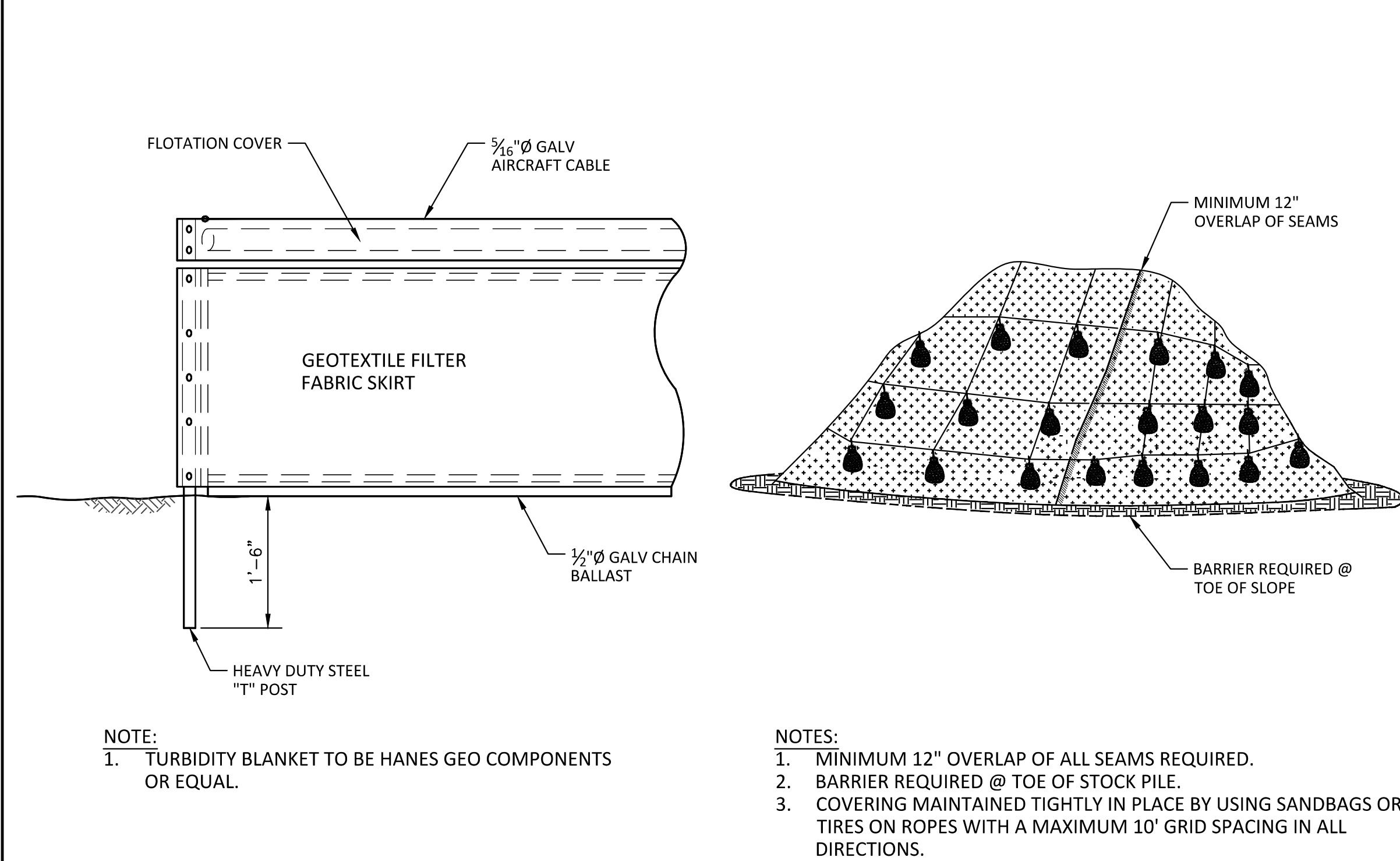
SCALE: NTS

EC101

TEMPORARY ENTRANCE

SCALE: NTS

EC103



TURBIDITY CURTAIN DETAIL

SCALE: NTS

EC105

PLASTIC SHEETING DETAIL

SCALE: NTS

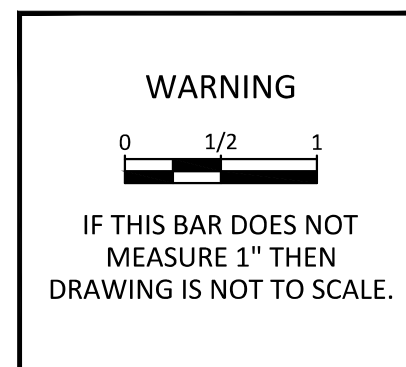
EC106

WATTLE DETAIL

SCALE: NTS

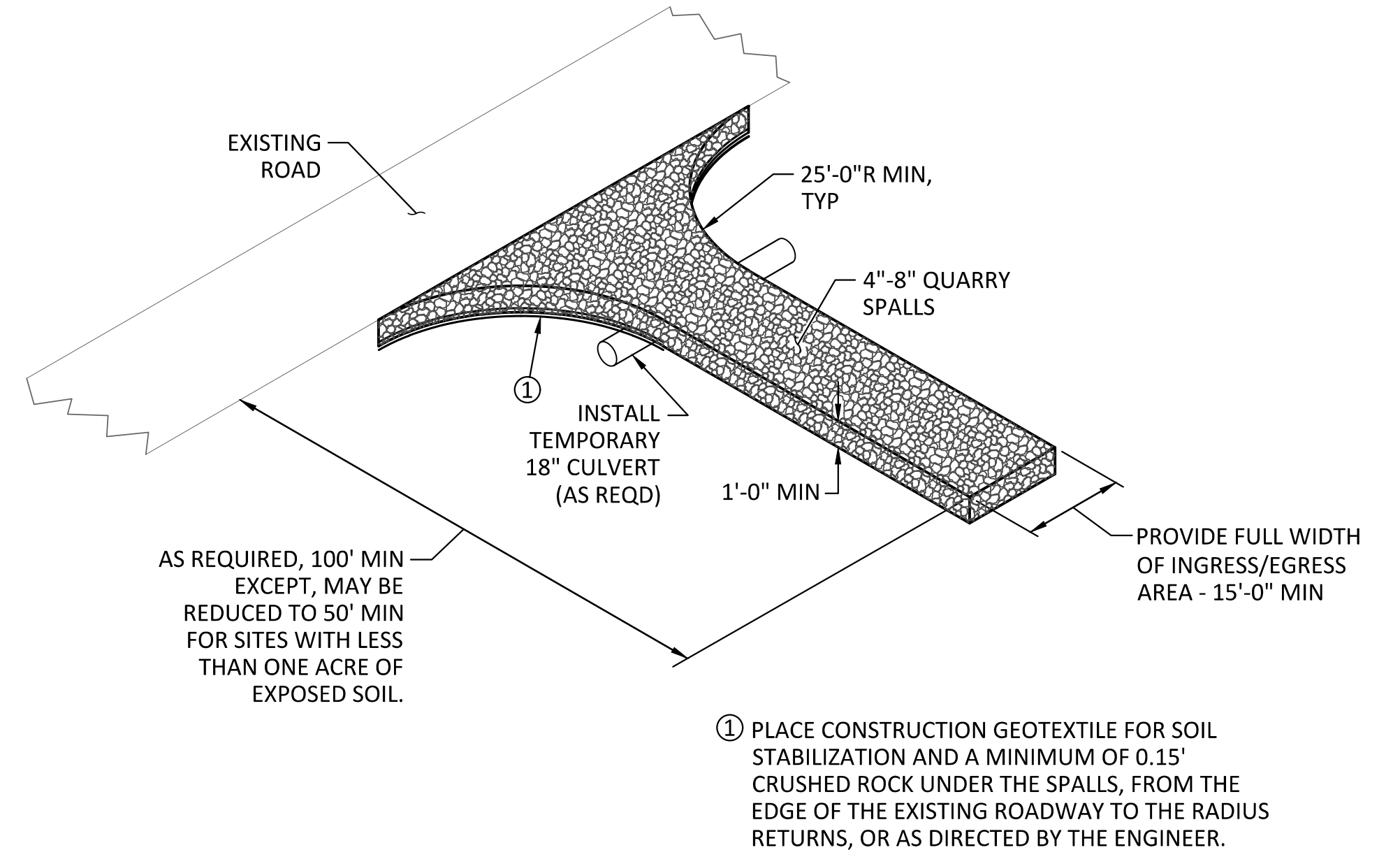
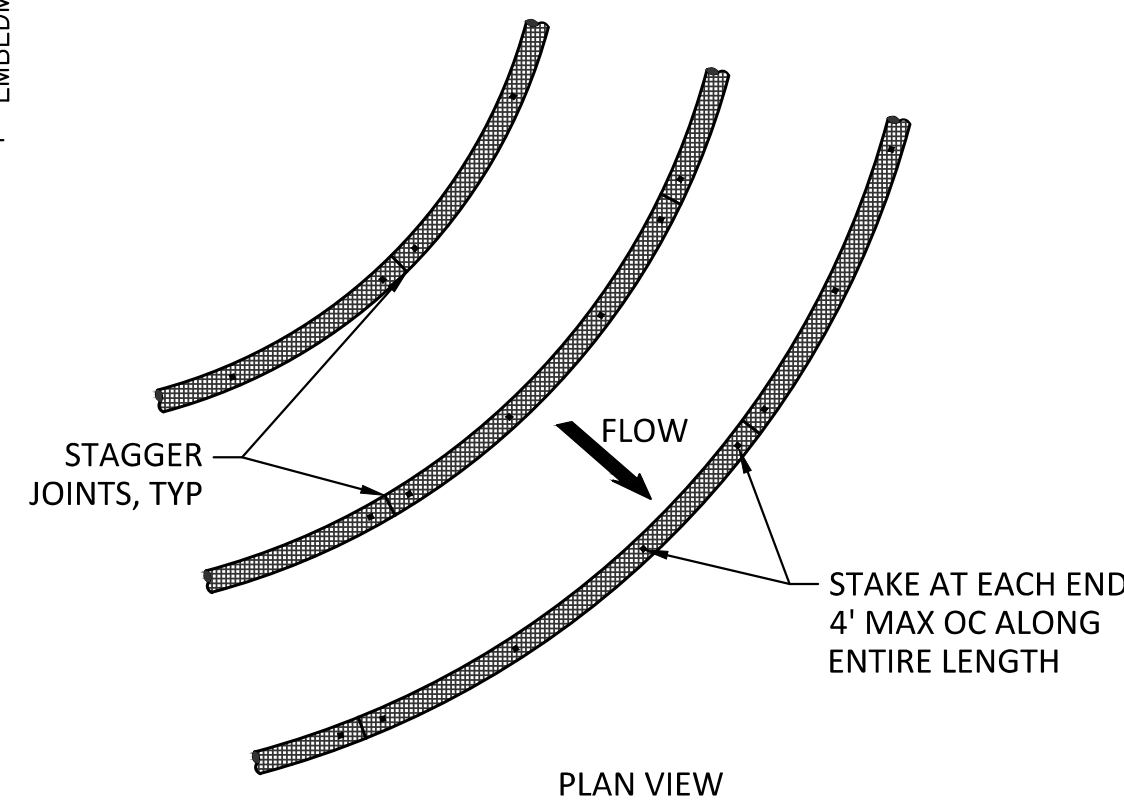
EC107

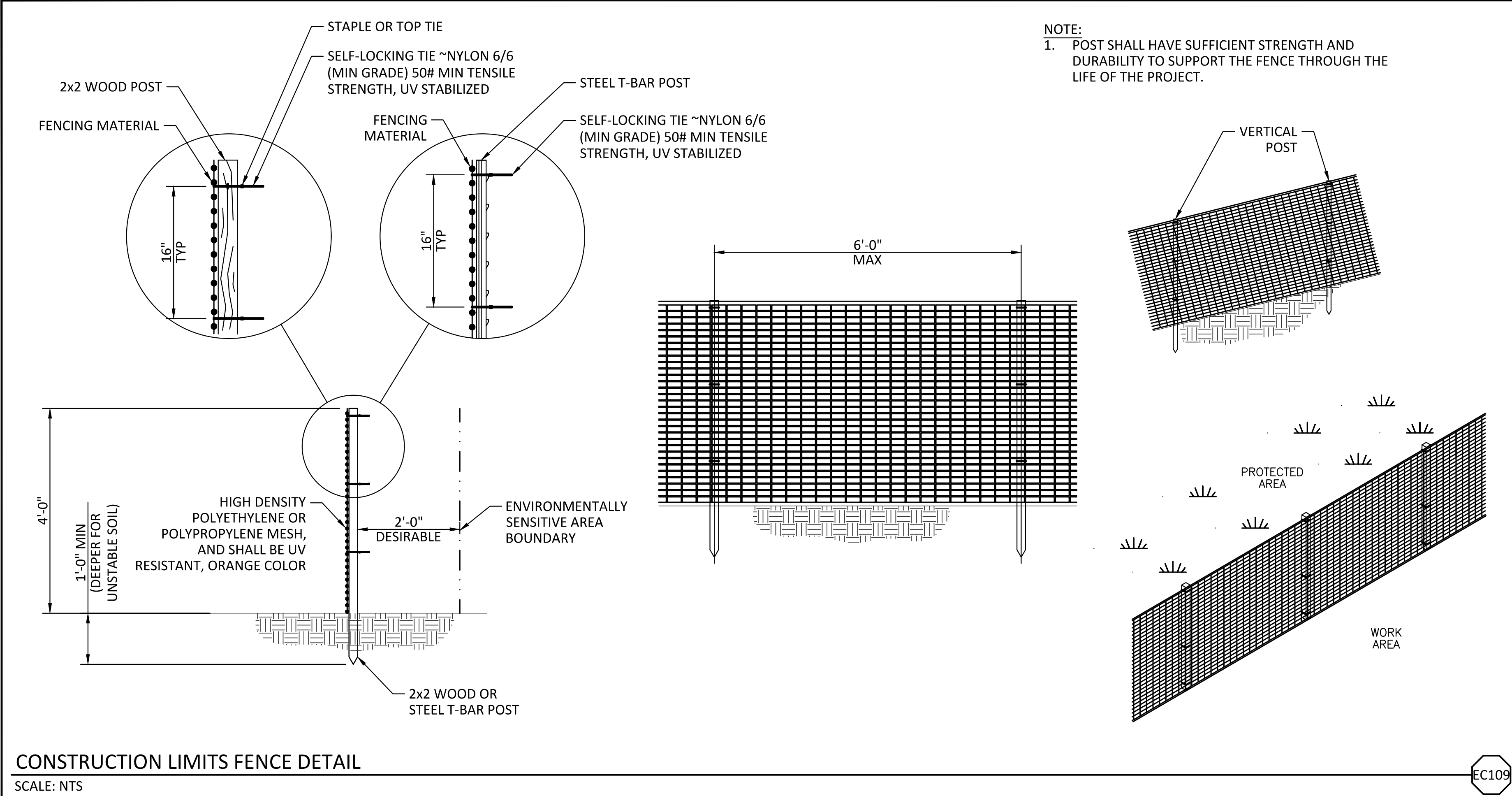
REV	DATE	BY	DESCRIPTION
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KLAMATH RIVER RENEWAL CORPORATION		DESIGNED J. BURNS	DRAWING EC001
FALL CREEK FISH HATCHERY		DRAWN J. LAHMON	
EROSION AND SEDIMENT CONTROL STANDARD DETAILS 1		CHECKED V. AUTIER	
		PROJECT DATE 10/28/20	

- NOTES**
- INSTALL WATTLES ALONG CONTOURS. SEE TABLE FOR SPACING.
 - WATTLES SHALL BE INSPECTED REGULARLY, AND IMMEDIATELY AFTER A RUNOFF PRODUCING RAINFALL, TO ENSURE THEY REMAIN THOROUGHLY ENTRENCHED AND IN CONTACT WITH THE SOIL.
 - LIVE STAKES MAY BE USED FOR PERMANENT INSTALLATIONS.
 - INSTALL WATTLES SNUGLY INTO THE TRENCH. ABUT ADJACENT WATTLES TIGHTLY, END TO END, WITHOUT OVERLAPPING THE ENDS.
 - PILOT HOLES MAY BE DRIVEN THROUGH THE WATTLE AND INTO THE SOIL, WHEN SOIL CONDITIONS REQUIRE.
 - INSTALL AT TOE OF SLOPES. SLOPES GREATER THAN 15' IN LENGTH SHALL HAVE A WATTLE INSTALLED MID SLOPE.





CONSTRUCTION LIMITS FENCE DETAIL

SCALE: NTS

EC109

REV	DATE	BY	DESCRIPTION
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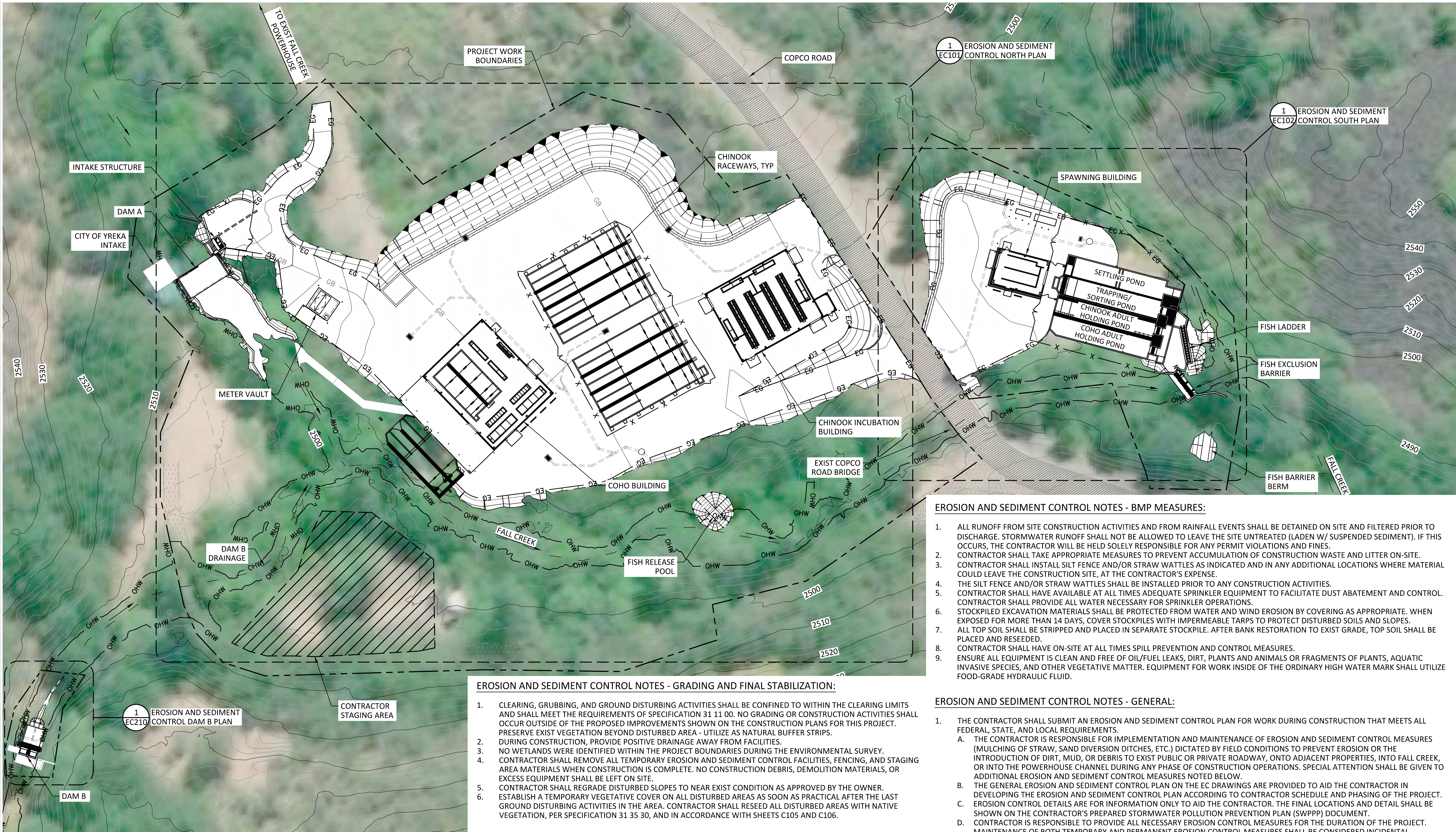
WARNING

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



KLAMATH RIVER RENEWAL CORPORATION		DESIGNED J. BURNS	DRAWING EC002
FALL CREEK FISH HATCHERY		DRAWN J. LAHMOM	
EROSION AND SEDIMENT CONTROL STANDARD DETAILS 2		CHECKED V. AUTIER	
		PROJECT DATE 10/28/20	



EROSION AND SEDIMENT CONTROL NOTES - GRADING AND FINAL STABILIZATION:

1. CLEARING, GRUBBING, AND GROUND DISTURBING ACTIVITIES SHALL BE CONFINED TO WITHIN THE CLEARING LIMITS AND SHALL MEET THE REQUIREMENTS OF SPECIFICATION 31 11 00. NO GRADING OR CONSTRUCTION ACTIVITIES SHALL OCCUR OUTSIDE OF THE PROPOSED IMPROVEMENTS SHOWN ON THE CONSTRUCTION PLANS FOR THIS PROJECT. PRESERVE EXIST VEGETATION BEYOND DISTURBED AREA - UTILIZE AS NATURAL BUFFER STRIPS.
2. DURING CONSTRUCTION, PROVIDE POSITIVE DRAINAGE AWAY FROM FACILITIES.
3. NO WETLANDS WERE IDENTIFIED WITHIN THE PROJECT BOUNDARIES DURING THE ENVIRONMENTAL SURVEY.
4. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL FACILITIES, FENCING, AND STAGING AREA MATERIALS WHEN CONSTRUCTION IS COMPLETE. NO CONSTRUCTION DEBRIS, DEMOLITION MATERIALS, OR EXCESS EQUIPMENT SHALL BE LEFT ON SITE.
5. CONTRACTOR SHALL REGRADE DISTURBED SLOPES TO NEAR EXIST CONDITION AS APPROVED BY THE OWNER.
6. ESTABLISH A TEMPORARY VEGETATIVE COVER ON ALL DISTURBED AREAS AS SOON AS PRACTICAL AFTER THE LAST GROUND DISTURBING ACTIVITIES IN THE AREA. CONTRACTOR SHALL RESEED ALL DISTURBED AREAS WITH NATIVE VEGETATION, PER SPECIFICATION 31 35 30, AND IN ACCORDANCE WITH SHEETS C105 AND C106.

EROSION AND SEDIMENT CONTROL NOTES - BMP MEASURES:

1. ALL RUNOFF FROM SITE CONSTRUCTION ACTIVITIES AND FROM RAINFALL EVENTS SHALL BE DETAINED ON SITE AND FILTERED PRIOR TO DISCHARGE. STORMWATER RUNOFF SHALL NOT BE ALLOWED TO LEAVE THE SITE UNTREATED (LADEN W/ SUSPENDED SEDIMENT). IF THIS OCCURS, THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY PERMIT VIOLATIONS AND FINES.
2. CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO PREVENT ACCUMULATION OF CONSTRUCTION WASTE AND LITTER ON-SITE.
3. CONTRACTOR SHALL INSTALL SILT FENCE AND/OR STRAW WATTLES AS INDICATED AND IN ANY ADDITIONAL LOCATIONS WHERE MATERIAL COULD LEAVE THE CONSTRUCTION SITE, AT THE CONTRACTOR'S EXPENSE.
4. THE SILT FENCE AND/OR STRAW WATTLES SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITIES.
5. CONTRACTOR SHALL HAVE AVAILABLE AT ALL TIMES ADEQUATE SPRINKLER EQUIPMENT TO FACILITATE DUST ABATEMENT AND CONTROL. CONTRACTOR SHALL PROVIDE ALL WATER NECESSARY FOR SPRINKLER OPERATIONS.
6. STOCKPILED EXCAVATION MATERIALS SHALL BE PROTECTED FROM WATER AND WIND EROSION BY COVERING AS APPROPRIATE. WHEN EXPOSED FOR MORE THAN 14 DAYS, COVER STOCKPILES WITH IMPERMEABLE TARPS TO PROTECT DISTURBED SOILS AND SLOPES.
7. ALL TOP SOIL SHALL BE STRIPPED AND PLACED IN SEPARATE STOCKPILE. AFTER BANK RESTORATION TO EXIST GRADE, TOP SOIL SHALL BE PLACED AND RESEED.
8. CONTRACTOR SHALL HAVE ON-SITE AT ALL TIMES SPILL PREVENTION AND CONTROL MEASURES.
9. ENSURE ALL EQUIPMENT IS CLEAN AND FREE OF OIL/FUEL LEAKS, DIRT, PLANTS AND ANIMALS OR FRAGMENTS OF PLANTS, AQUATIC INVASIVE SPECIES, AND OTHER VEGETATIVE MATTER. EQUIPMENT FOR WORK INSIDE OF THE ORDINARY HIGH WATER MARK SHALL UTILIZE FOOD-GRADE HYDRAULIC FLUID.

EROSION AND SEDIMENT CONTROL NOTES - GENERAL:

1. THE CONTRACTOR SHALL SUBMIT AN EROSION AND SEDIMENT CONTROL PLAN FOR WORK DURING CONSTRUCTION THAT MEETS ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS.
 - A. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES (MULCHING OF STRAW, SAND DIVERSION DITCHES, ETC.) DICTATED BY FIELD CONDITIONS TO PREVENT EROSION OR THE INTRODUCTION OF DIRT, MUD, OR DEBRIS TO EXIST PUBLIC OR PRIVATE ROADWAY, ONTO ADJACENT PROPERTIES, INTO FALL CREEK, OR INTO THE POWERHOUSE CHANNEL DURING ANY PHASE OF CONSTRUCTION OPERATIONS. SPECIAL ATTENTION SHALL BE GIVEN TO ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES NOTED BELOW.
 - B. THE GENERAL EROSION AND SEDIMENT CONTROL PLAN ON THE EC DRAWINGS ARE PROVIDED TO AID THE CONTRACTOR IN DEVELOPING THE EROSION AND SEDIMENT CONTROL PLAN ACCORDING TO CONTRACTOR SCHEDULE AND PHASING OF THE PROJECT.
 - C. EROSION CONTROL DETAILS ARE FOR INFORMATION ONLY TO AID THE CONTRACTOR. THE FINAL LOCATIONS AND DETAIL SHALL BE SHOWN ON THE CONTRACTOR'S PREPARED STORMWATER POLLUTION PREVENTION PLAN (SWPPP) DOCUMENT.
 - D. CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL NECESSARY EROSION CONTROL MEASURES FOR THE DURATION OF THE PROJECT. MAINTENANCE OF BOTH TEMPORARY AND PERMANENT EROSION CONTROL MEASURES SHALL BE CONSIDERED INCIDENTAL.
 - E. ALL BMP REQUIRED MATERIALS SHALL MEET OR EXCEED STATE OF CALIFORNIA STORMWATER QUALITY ASSOCIATION (CASQA) REQUIREMENTS.
 - F. CONTRACTOR SHALL DEVELOP A SPILL PREVENTION, CONTAINMENT, AND RESPONSE PLAN THAT WILL BE ATTACHED TO THE SWPPP.

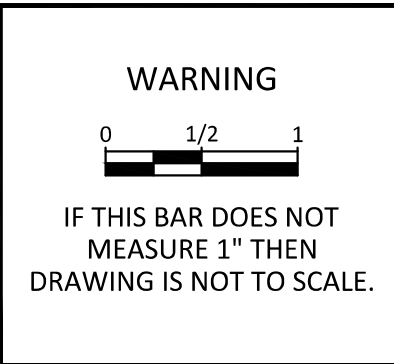
EROSION AND SEDIMENT CONTROL KEY PLAN

SCALE: 1"= 30'

0' 30' 60'



REV	DATE	BY	DESCRIPTION
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KLAMATH RIVER RENEWAL CORPORATION		DESIGNED <u>A. LEMAN</u>	DRAWING EC100
FALL CREEK FISH HATCHERY		DRAWN <u>J. LAHMON</u>	
EROSION AND SEDIMENT CONTROL KEY PLAN		CHECKED <u>V. AUTIER</u>	
		PROJECT DATE <u>10/28/20</u>	