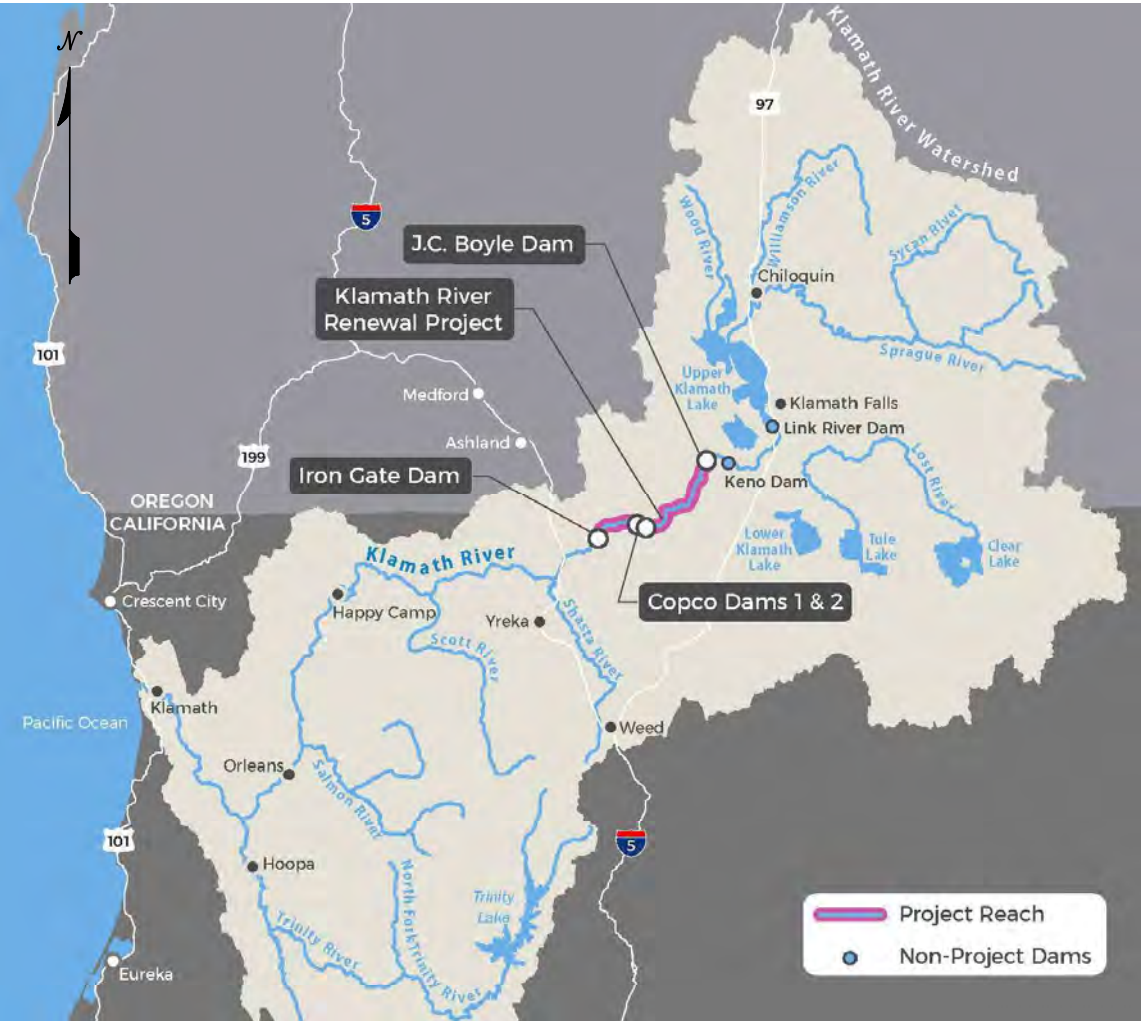


KLAMATH RIVER  
RENEWAL PROJECT  
KIEWIT CONTRACT #104168

100% DESIGN COMPLETION DRAWINGS

JACKSON COUNTY, OREGON  
KLAMATH COUNTY, OREGON  
SISKIYOU COUNTY, CALIFORNIA







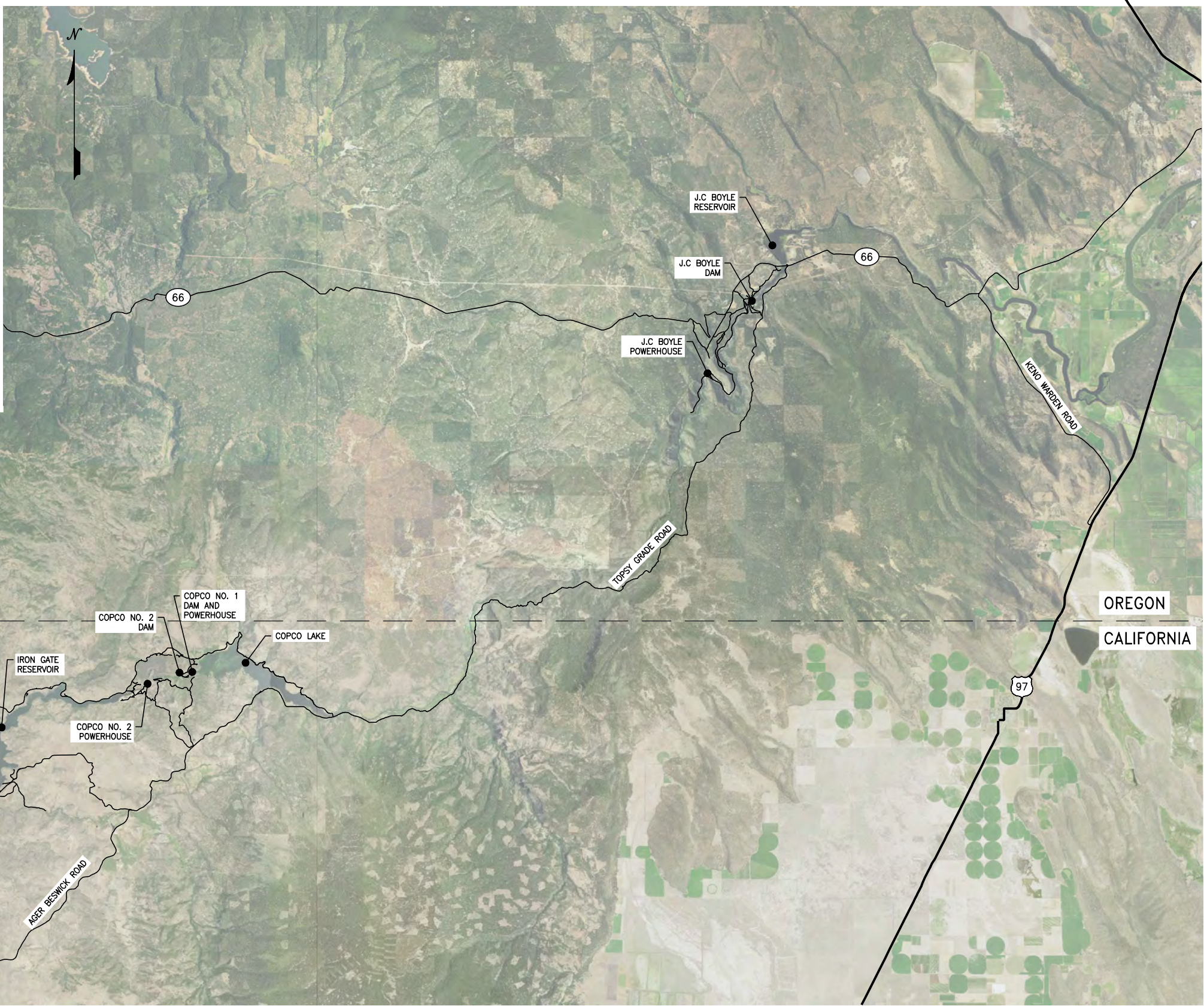
LOCATION MAP  
NOT TO SCALE



ISSUED FOR CONSTRUCTION

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05/27/2022 1:35pm  
C:\Users\cniamir\OneDrive\Documents\104168\104168.dwg

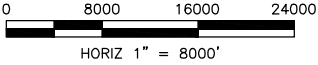
										<div>WARNING</div> <div>0 1/2 1</div> <div>IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE</div>										<div></div> <div>PREPARED BY</div> <div> Knight Piésold CONSULTING</div> <div> Kiewit</div>										<div>DESIGNED</div> <div>C. NIAMIR</div> <div>DRAWN</div> <div>W. LAHODA</div> <div>REVIEWED</div> <div>H. ELWIN</div> <div>IN CHARGE</div> <div>N. BISHOP</div> <div>APPROVED</div> <div>S. MOTTRAM</div>										<div>PREPARED FOR</div> <div> KLAMATH RIVER RENEWAL CORPORATION</div>										<div>PROJECT</div> <div>KLAMATH RIVER RENEWAL PROJECT</div>										<div>PROJ #</div> <div>VA103-640/1</div>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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PLAN

1" = 8000'

ISSUED FOR CONSTRUCTION



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05/27/2022 1:36pm  
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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

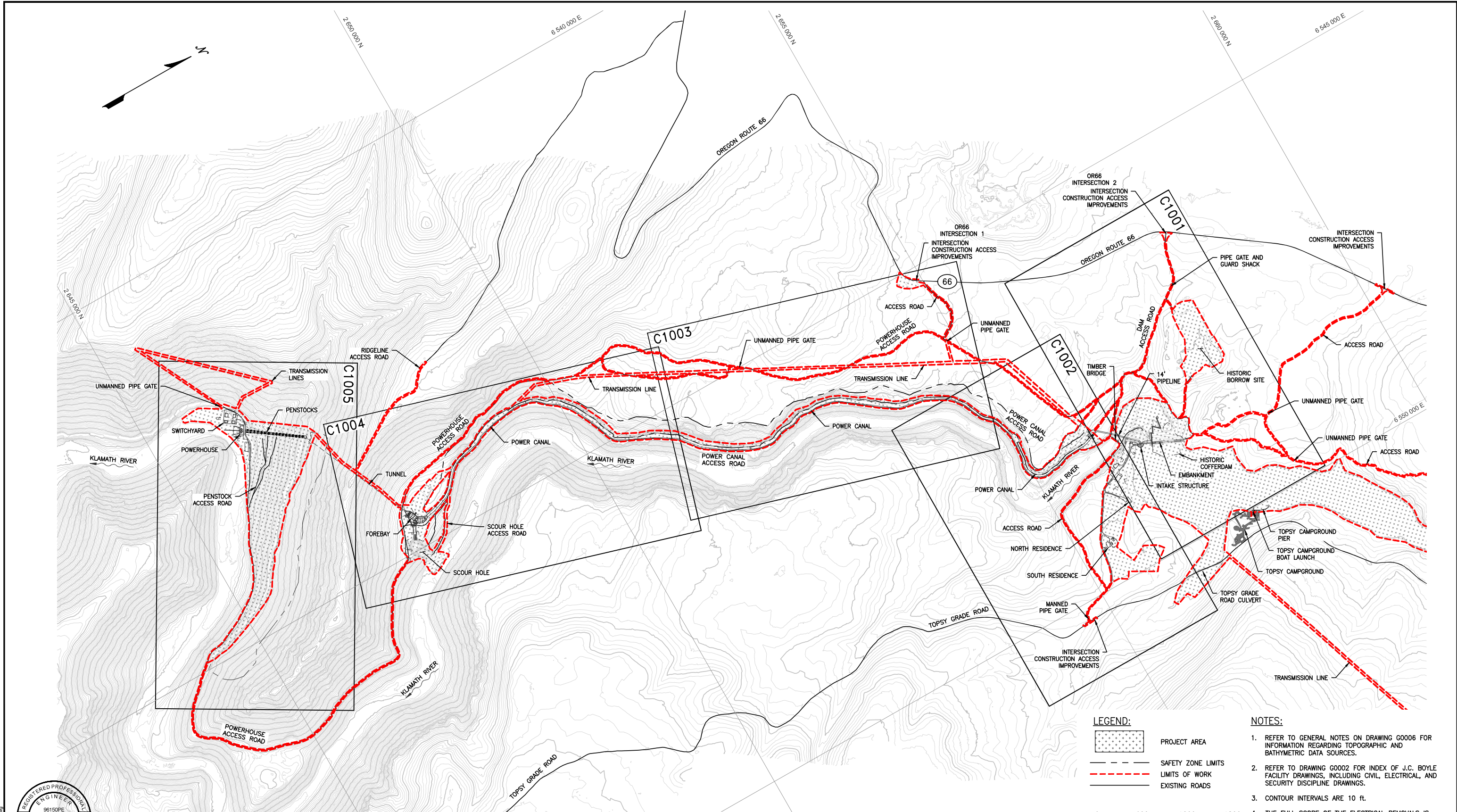


PREPARED BY  
**Knight Piésold CONSULTING**  
**Kiewit**

DESIGNED C. NIAMIR  
DRAWN S. CHIZAR  
REVIEWED H. ELWIN  
IN CHARGE N. BISHOP  
APPROVED S. MOTTRAM

PREPARED FOR  
**KLAMATH RIVER RENEWAL CORPORATION**

PROJECT <b>KLAMATH RIVER RENEWAL PROJECT</b>	PROJ # VA103-640/1
SHEET TITLE PROJECT LOCATION, VICINITY AND ACCESS	DATE 05/27/2022
	DWG <b>G0020</b>



PLAN  
1" = 600'

ISSUED FOR CONSTRUCTION

**LEGEND:**

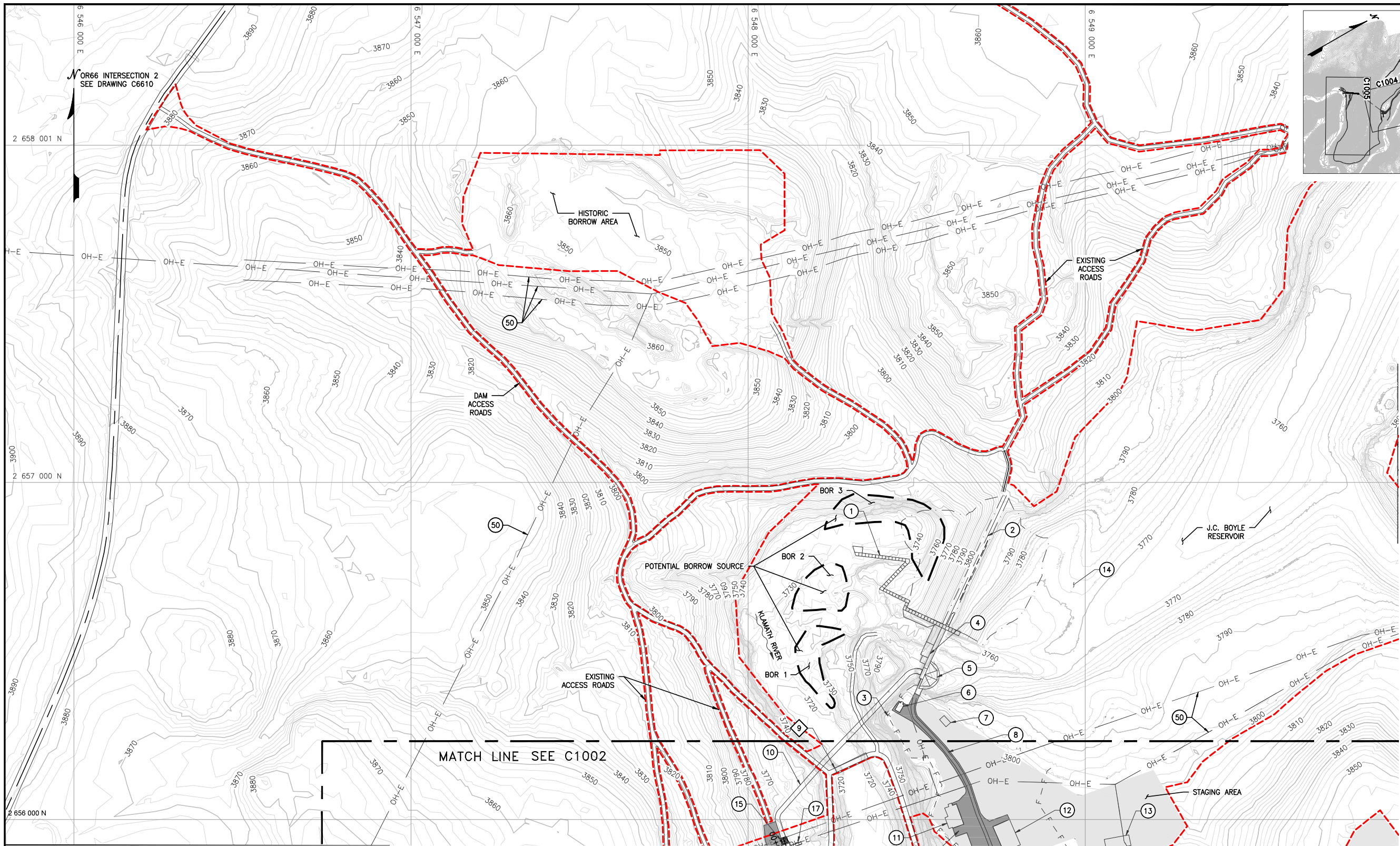
- PROJECT AREA
- SAFETY ZONE LIMITS
- LIMITS OF WORK
- EXISTING ROADS





























0 600 1200 1800  
1" = 600'

- NOTES:**
- REFER TO GENERAL NOTES ON DRAWING G0006 FOR INFORMATION REGARDING TOPOGRAPHIC AND BATHYMETRIC DATA SOURCES.
  - REFER TO DRAWING G0002 FOR INDEX OF J.C. BOYLE FACILITY DRAWINGS, INCLUDING CIVIL, ELECTRICAL, AND SECURITY DISCIPLINE DRAWINGS.
  - CONTOUR INTERVALS ARE 10 ft.
  - THE FULL SCOPE OF THE ELECTRICAL REMOVALS IS SHOWN ON THE E1000 SERIES DRAWINGS.
  - REFER TO 100% DESIGN REPORT (VA103-640/1-9), APPENDIX K FOR HISTORIC DRAWINGS.

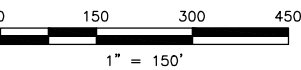
				WARNING 0 1/2 1 		PREPARED BY Knight Piésold CONSULTING Kiewit		DESIGNED C. NIAMIR DRAWN A. NASIRI REVIEWED H. ELWIN IN CHARGE N. BISHOP APPROVED S. MOTTRAM		KLAMATH RIVER RENEWAL CORPORATION		PROJECT KLAMATH RIVER RENEWAL PROJECT		PROJ # VA103-640/1	
				IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE								SHEET TITLE J.C. BOYLE FACILITY PROJECT OVERVIEW AND LIMITS OF WORK KEY MAP		DATE 05/27/2022	
														DWG C1000	
0 ISSUED FOR CONSTRUCTION				CBN HE SRM05/27/22											
REV DESCRIPTION				BY CHK APP DATE											

drawings - May 23, 2022 - 8:34am  
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- LEGEND:**
- |   |                                     |
|---|-------------------------------------|
|  | EXISTING ASPHALT                    |
|  | STAGING AREA                        |
|  | SAFETY ZONE LIMITS                  |
|  | LIMITS OF WORK                      |
|  | EXISTING ROAD LIMITS                |
|  | EXISTING OVERHEAD TRANSMISSION LINE |
|  | FENCE                               |
|  | EXTENT OF EMBANKMENT                |
|  | BORROW SOURCE LIMITS                |
-  TO BE PROTECTED
-  TO BE REMOVED
-  1 FISH LADDER (C1210)
-  2 DAM (C1230)
-  3 FENCE
-  4 GATED SPILLWAY & DIVERSION CULVERT (C1220)
-  5 INTAKE STRUCTURE (C1221)
-  6 DAM COMMUNICATIONS BLDG
-  7 FIRE SYSTEM CONTROL BLDG
-  8 ASPHALT PAVEMENT
-  9 TIMBER BRIDGE (C1300)
-  10 14' DIAMETER STEEL PIPE (C1300)
-  11 WAREHOUSE
-  12 STORAGE SHED
-  13 NORTH RESIDENCE
-  14 HISTORIC COFFERDAM
-  15 POWER CANAL HEADGATE STRUCTURE (C1310)
-  17 POWER CANAL HEADGATE SIPHON SPILLWAY (C13010)
-  50 TRANSMISSION LINE (E1015 & E1072)

1. REFER TO GENERAL NOTES ON DRAWING G0006 FOR INFORMATION REGARDING TOPOGRAPHIC AND BATHYMETRIC DATA SOURCES.
2. REFER TO DRAWING G0002 FOR INDEX OF J.C. BOYLE FACILITY DRAWINGS, INCLUDING CIVIL, ELECTRICAL, AND SECURITY DISCIPLINE DRAWINGS.
3. REMOVE ALL ABOVE-GROUND RELATED INFRASTRUCTURE, ASPHALT, AND CONCRETE, INCLUDING DECOMMISSIONING OF ACCESS ROADS AND PARKING AREAS. DISK/RIP AND REGRADE/RECONTOUR STAGING AREAS.
4. FINAL STABILIZATION WILL BE CONDUCTED IN ACCORDANCE WITH TECHNICAL SPECIFICATION 31 25 00.
5. IF AVAILABLE IN THE IMMEDIATE DAM FOOTPRINT OR BORROW SITES ADJACENT TO THE DAM, THE CONTRACTOR WILL OBTAIN AND STOCKPILE UP TO 30 BOULDERS FOR USE BY THE HABITAT CONTRACTOR FOR SUPPLEMENTAL FRINGE ROUGHNESS.
6. THE FULL SCOPE OF THE ELECTRICAL REMOVALS IS SHOWN ON THE E1000 SERIES DRAWINGS.
7. REFER TO 100% DESIGN REPORT (VA103-640/1-9), APPENDIX K FOR HISTORIC DRAWINGS.

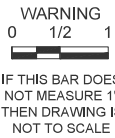


PLAN

---

1" = 150'

# ISSUED FOR CONSTRUCTION

[illegible]

PREPARED BY

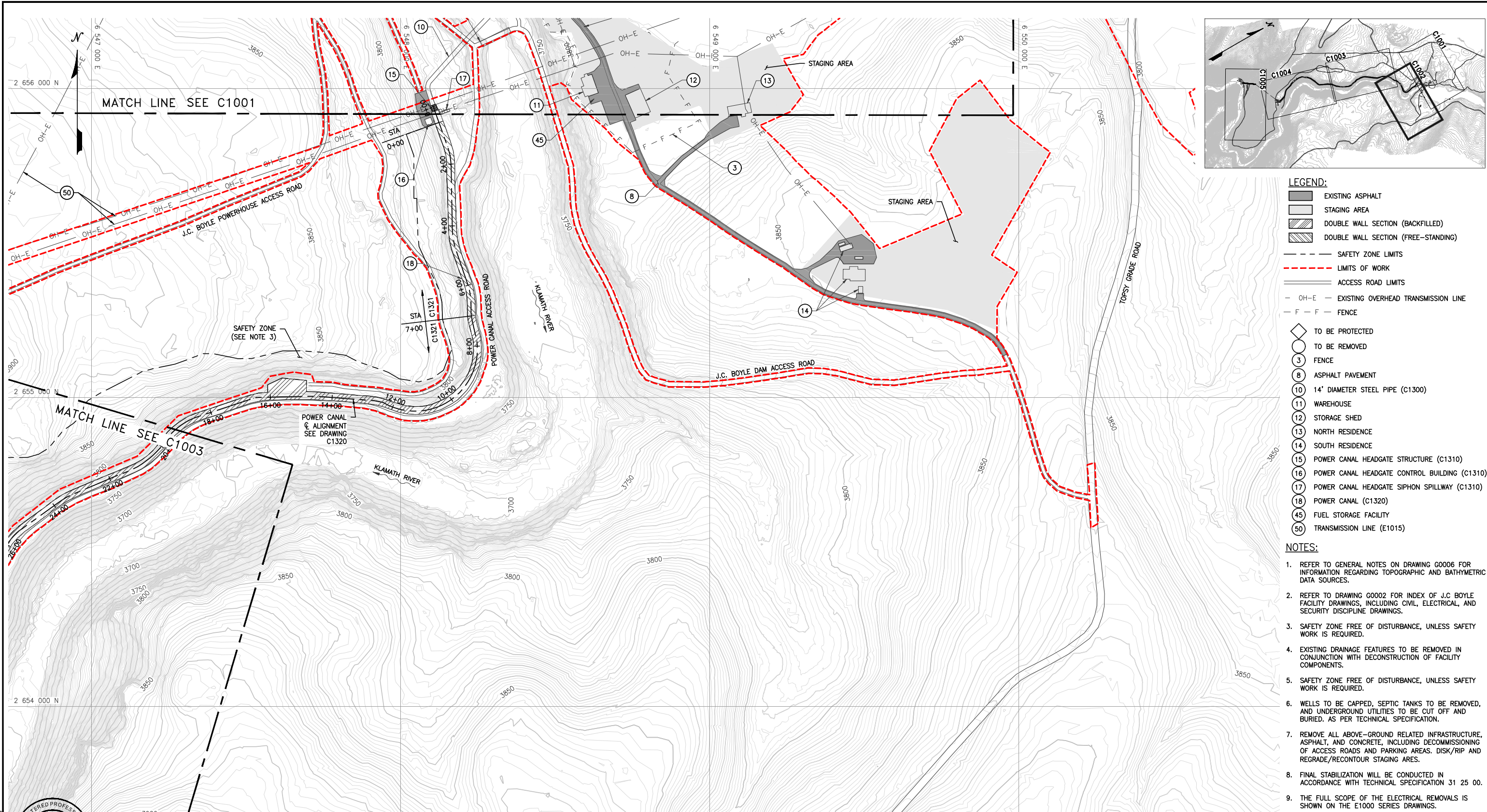
 **Knight Piesold**  
CONSULTING

 **Kiewit**

DESIGNED	C. NIAMIR
DRAWN	A. NASIRI
REVIEWED	H. ELWIN
IN CHARGE	N. BISHOP
APPROVED	S. MOTTRAM

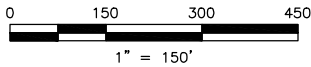


PROJECT	<b>KLAMATH RIVER RENEWAL PROJECT</b>		PROJ #	VA103-640/1
			DATE	05/27/2022
SHEET TITLE	J.C. BOYLE FACILITY PROJECT OVERVIEW AND LIMITS OF WORK (SHEET 1 OF 5)		DWG	C1001



PLAN  
1" = 150'

ISSUED FOR CONSTRUCTION



REV	DESCRIPTION	BY	CHK	APP	DATE
0	ISSUED FOR CONSTRUCTION	CBN	HE	SRM	05/27/22

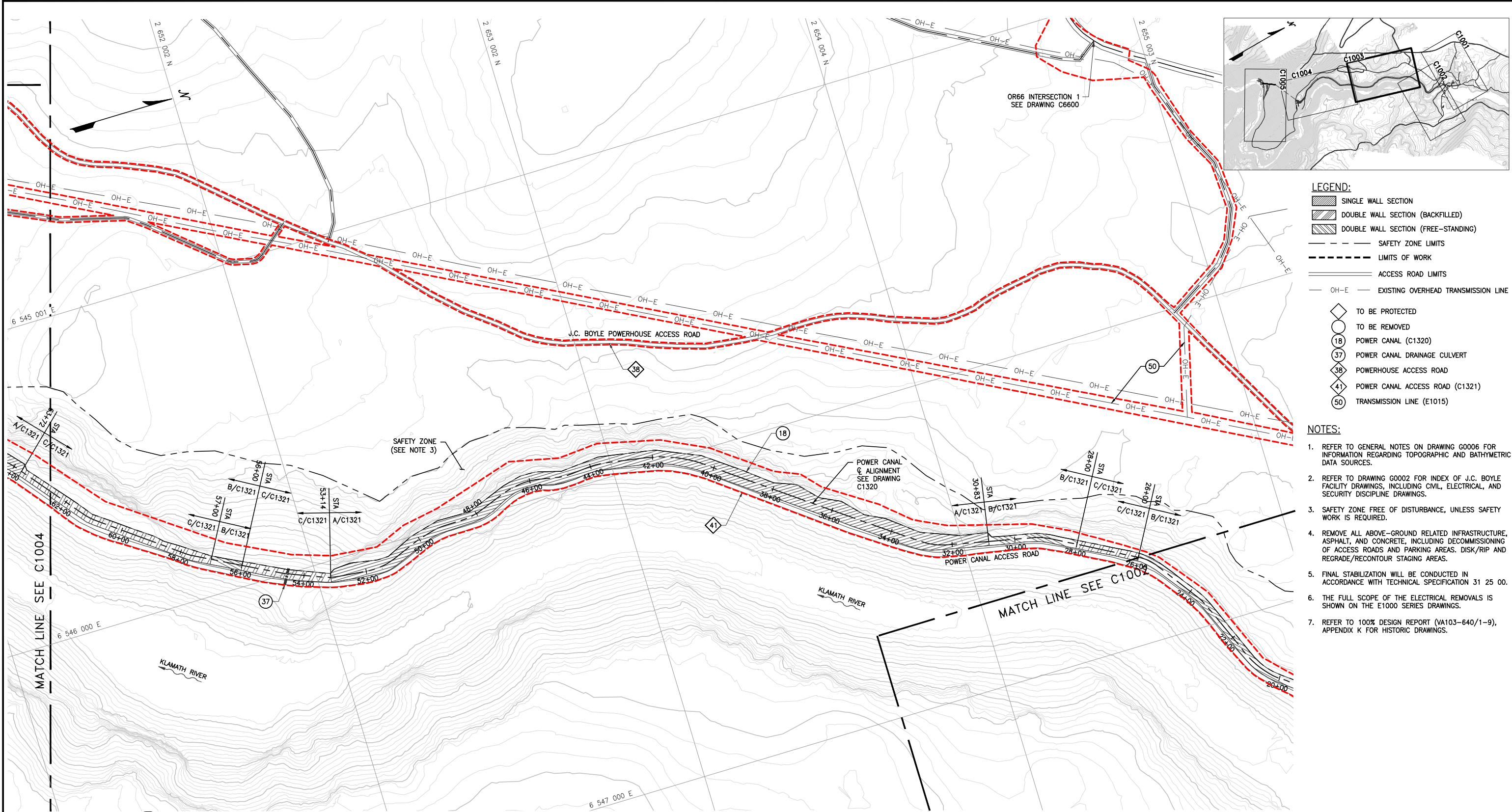
WARNING  
0 1/2 1  
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



DESIGNED	C. NIAMIR
DRAWN	A. NASIRI
REVIEWED	H. ELWIN
IN CHARGE	N. BISHOP
APPROVED	S. MOTTRAM



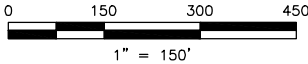
PROJECT	KLAMATH RIVER RENEWAL PROJECT	PROJ #	VA103-640/1
SHEET TITLE	J.C. BOYLE FACILITY PROJECT OVERVIEW AND LIMITS OF WORK (SHEET 2 OF 5)	DATE	05/27/2022
		DWG	C1002



**LEGEND:**

- SINGLE WALL SECTION
- DOUBLE WALL SECTION (BACKFILLED)
- DOUBLE WALL SECTION (FREE-STANDING)
- SAFETY ZONE LIMITS
- LIMITS OF WORK
- ACCESS ROAD LIMITS
- OH-E EXISTING OVERHEAD TRANSMISSION LINE
- TO BE PROTECTED
- TO BE REMOVED
- POWER CANAL (C1320)
- POWER CANAL DRAINAGE CULVERT
- POWERHOUSE ACCESS ROAD
- POWER CANAL ACCESS ROAD (C1321)
- TRANSMISSION LINE (E1015)

- NOTES:**
- REFER TO GENERAL NOTES ON DRAWING G0006 FOR INFORMATION REGARDING TOPOGRAPHIC AND BATHYMETRIC DATA SOURCES.
  - REFER TO DRAWING G0002 FOR INDEX OF J.C. BOYLE FACILITY DRAWINGS, INCLUDING CIVIL, ELECTRICAL, AND SECURITY DISCIPLINE DRAWINGS.
  - SAFETY ZONE FREE OF DISTURBANCE, UNLESS SAFETY WORK IS REQUIRED.
  - REMOVE ALL ABOVE-GROUND RELATED INFRASTRUCTURE, ASPHALT, AND CONCRETE, INCLUDING DECOMMISSIONING OF ACCESS ROADS AND PARKING AREAS. DISK/RIP AND REGRADE/RECONTOUR STAGING AREAS.
  - FINAL STABILIZATION WILL BE CONDUCTED IN ACCORDANCE WITH TECHNICAL SPECIFICATION 31 25 00.
  - THE FULL SCOPE OF THE ELECTRICAL REMOVALS IS SHOWN ON THE E1000 SERIES DRAWINGS.
  - REFER TO 100% DESIGN REPORT (VA103-640/1-9), APPENDIX K FOR HISTORIC DRAWINGS.



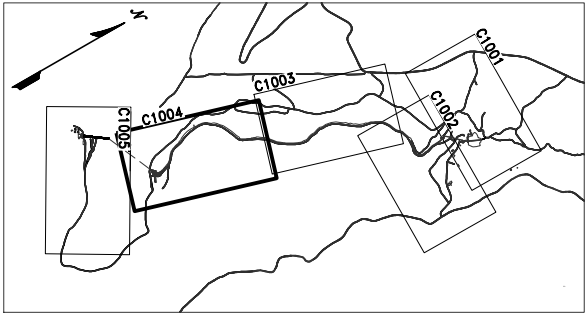
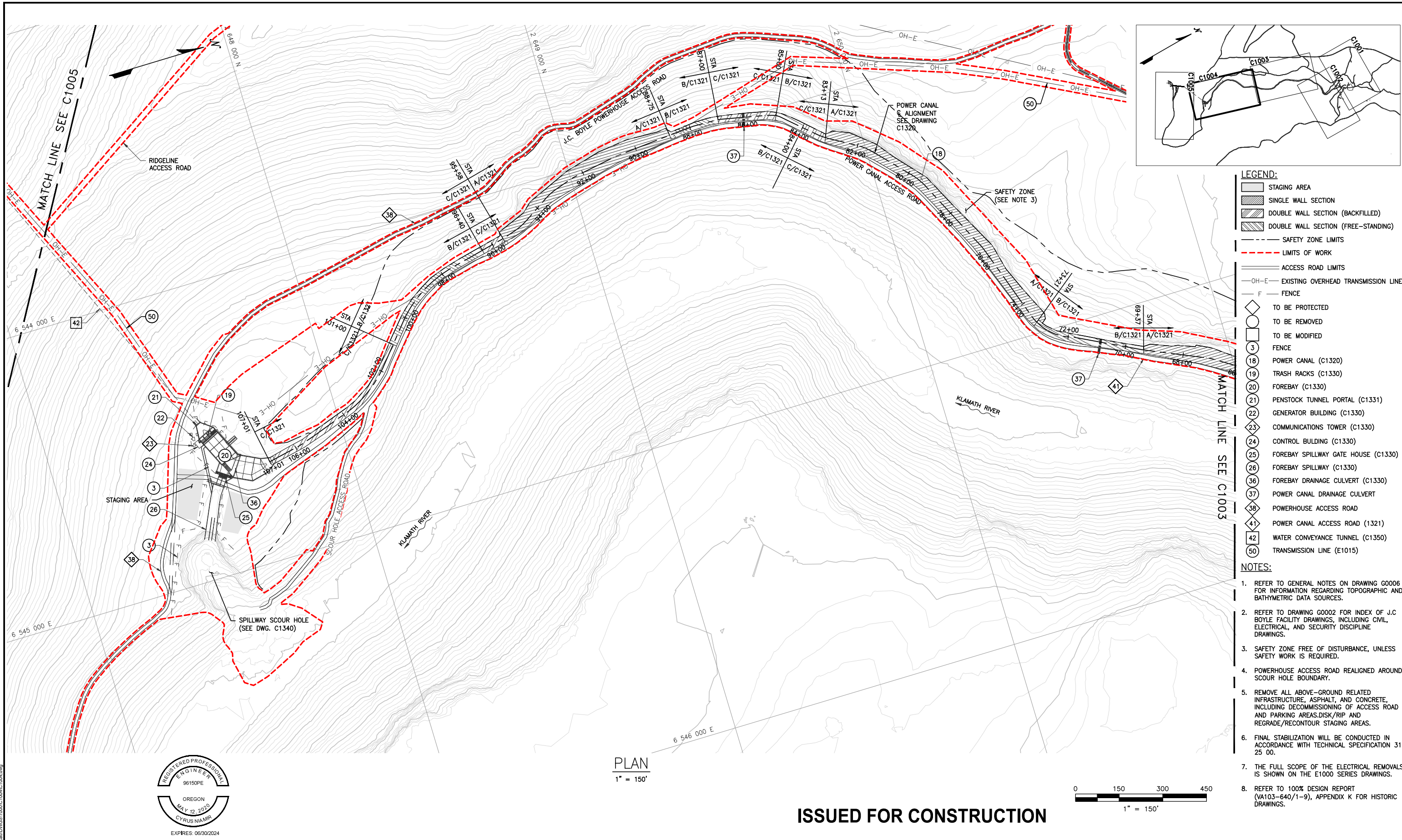
PLAN  
1" = 150'

ISSUED FOR CONSTRUCTION



drawings - May 24, 2022 - 1:41 pm  
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				WARNING 0 1/2 1 		IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE		DESIGNED C. NIAMIR		PREPARED FOR 		PROJECT KLAMATH RIVER RENEWAL PROJECT		PROJ # VA103-640/1	
								DRAWN R. McLELLAN						DATE 05/27/2022	
								REVIEWED H. ELWIN						DWG C1003	
0 ISSUED FOR CONSTRUCTION				CBN		HE		SRM		05/27/22					
REV DESCRIPTION				BY		CHK		APP		DATE					

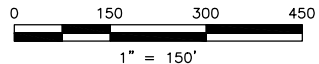





- LEGEND:**
- STAGING AREA
  - SINGLE WALL SECTION
  - DOUBLE WALL SECTION (BACKFILLED)
  - DOUBLE WALL SECTION (FREE-STANDING)
  - SAFETY ZONE LIMITS
  - LIMITS OF WORK
  - ACCESS ROAD LIMITS
  - OH-E EXISTING OVERHEAD TRANSMISSION LINE
  - F FENCE
  - TO BE PROTECTED
  - TO BE REMOVED
  - TO BE MODIFIED
  - 3 FENCE
  - 18 POWER CANAL (C1320)
  - 19 TRASH RACKS (C1330)
  - 20 FOREBAY (C1330)
  - 21 PENSTOCK TUNNEL PORTAL (C1331)
  - 22 GENERATOR BUILDING (C1330)
  - 23 COMMUNICATIONS TOWER (C1330)
  - 24 CONTROL BUILDING (C1330)
  - 25 FOREBAY SPILLWAY GATE HOUSE (C1330)
  - 26 FOREBAY SPILLWAY (C1330)
  - 36 FOREBAY DRAINAGE CULVERT (C1330)
  - 37 POWER CANAL DRAINAGE CULVERT
  - 38 POWERHOUSE ACCESS ROAD
  - 41 POWER CANAL ACCESS ROAD (1321)
  - 42 WATER CONVEYANCE TUNNEL (C1350)
  - 50 TRANSMISSION LINE (E1015)

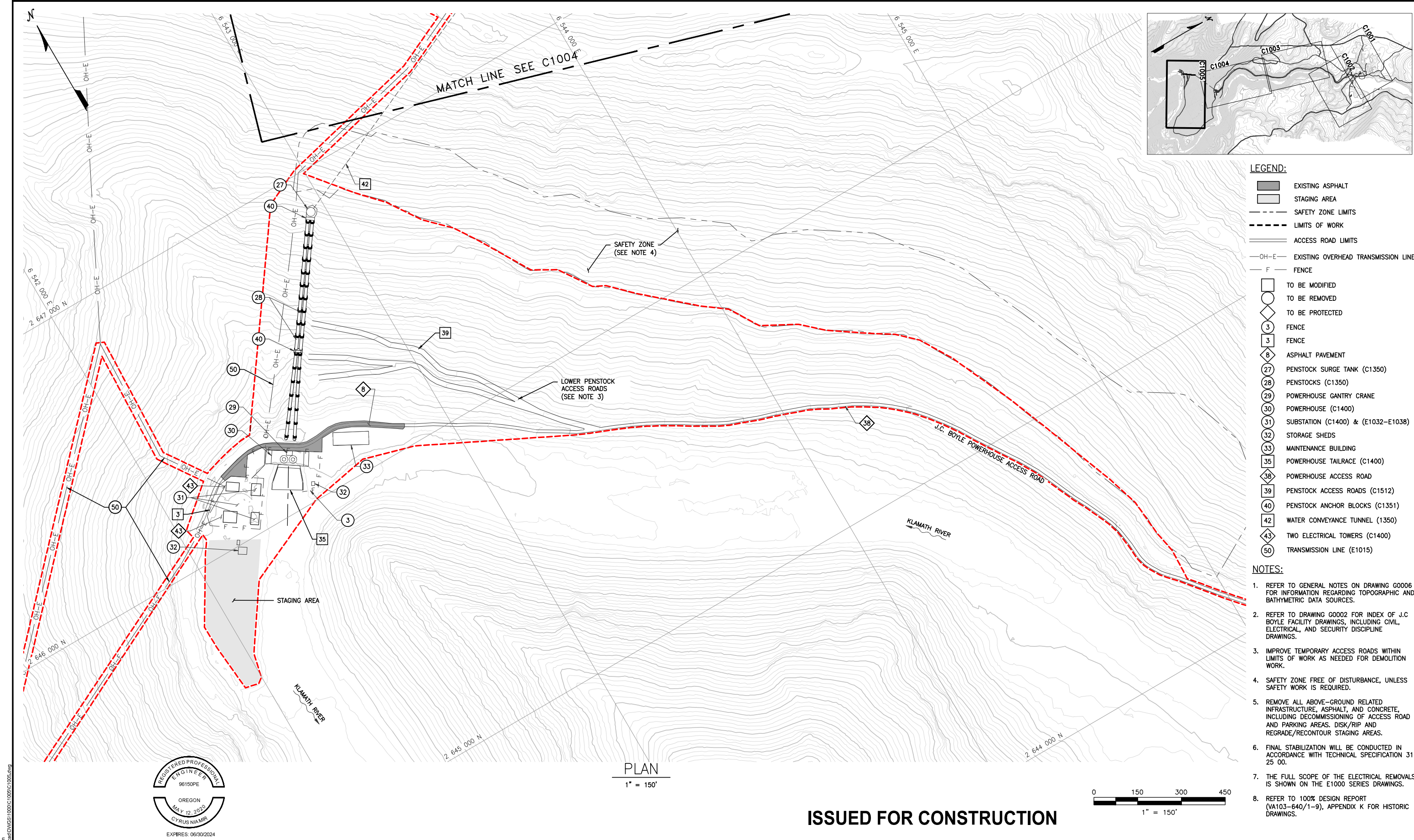
- NOTES:**
- REFER TO GENERAL NOTES ON DRAWING G0006 FOR INFORMATION REGARDING TOPOGRAPHIC AND BATHYMETRIC DATA SOURCES.
  - REFER TO DRAWING G0002 FOR INDEX OF J.C. BOYLE FACILITY DRAWINGS, INCLUDING CIVIL, ELECTRICAL, AND SECURITY DISCIPLINE DRAWINGS.
  - SAFETY ZONE FREE OF DISTURBANCE, UNLESS SAFETY WORK IS REQUIRED.
  - POWERHOUSE ACCESS ROAD REALIGNED AROUND SCOUR HOLE BOUNDARY.
  - REMOVE ALL ABOVE-GROUND RELATED INFRASTRUCTURE, ASPHALT, AND CONCRETE, INCLUDING DECOMMISSIONING OF ACCESS ROAD AND PARKING AREAS, DISK/RIP AND REGRADE/RECONTOUR STAGING AREAS.
  - FINAL STABILIZATION WILL BE CONDUCTED IN ACCORDANCE WITH TECHNICAL SPECIFICATION 31 25 00.
  - THE FULL SCOPE OF THE ELECTRICAL REMOVALS IS SHOWN ON THE E1000 SERIES DRAWINGS.
  - REFER TO 100% DESIGN REPORT (VA103-640/1-9), APPENDIX K FOR HISTORIC DRAWINGS.

PLAN  
1" = 150'

ISSUED FOR CONSTRUCTION



					<div>WARNING</div> <div>0 1/2 1</div> <div></div>				<div>PREPARED BY</div> <div><div></div><div><b>Knight Piésold</b> CONSULTING</div></div> <div><div></div><div><b>Kiewit</b></div></div>		<div>DESIGNED</div> <div>C. NIAMIR</div> <div>DRAWN</div> <div>R. McLELLAN</div> <div>REVIEWED</div> <div>H. ELWIN</div> <div>IN CHARGE</div> <div>N. BISHOP</div> <div>APPROVED</div> <div>S. MOTTRAM</div>		<div>PREPARED FOR</div> <div></div> <div><b>KLAMATH RIVER RENEWAL</b> CORPORATION</div>		<div>PROJECT</div> <div><b>KLAMATH RIVER RENEWAL PROJECT</b></div>		<div>PROJ #</div> <div>VA103-640/1</div>
													<div>SHEET TITLE</div> <div>J.C. BOYLE FACILITY PROJECT OVERVIEW AND LIMITS OF WORK (SHEET 4 OF 5)</div>		<div>DATE</div> <div>05/27/2022</div>		
													<div>DWG</div> <div>C1004</div>				
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REV DESCRIPTION					BY		CHK		APP		DATE						



drawings: May 24, 2022, 1:45pm  
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REV	DESCRIPTION	BY	CHK	APP	DATE
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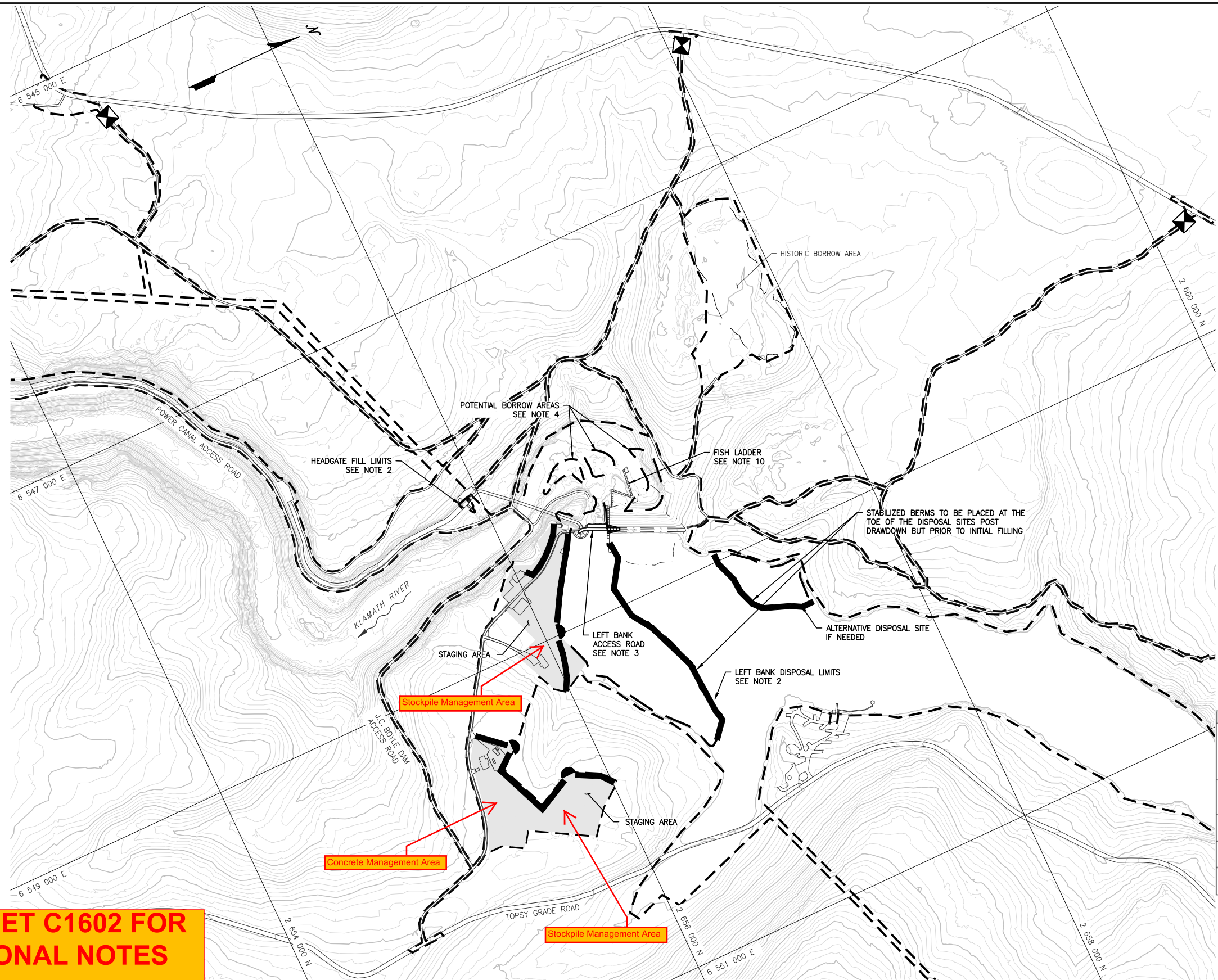
WARNING  
0 1/2 1  
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



DESIGNED	C. NIAMIR
DRAWN	R. McLELLAN
REVIEWED	H. ELWIN
IN CHARGE	N. BISHOP
APPROVED	S. MOTTRAM



PROJECT	KLAMATH RIVER RENEWAL PROJECT	PROJ #	VA103-640/1
SHEET TITLE	J.C. BOYLE FACILITY PROJECT OVERVIEW AND LIMITS OF WORK (SHEET 5 OF 5)	DATE	05/27/2022
DWG	C1005		



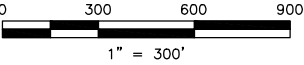
LEGEND:

- STAGING AREA
- CONSTRUCTION ENTRANCE
- CHECK DAM
- STABILIZED BERM
- FILL LIMITS
- LIMITS OF WORK

NOTES:

- REFER TO GENERAL NOTES ON DRAWING G0006 FOR INFORMATION REGARDING TOPOGRAPHIC AND BATHYMETRIC DATA SOURCES.
- DISPOSAL SITES AND THE CANAL HEADGATE COVER TO BE INITIALLY FILLED AT THE TOE WITH CLEAN GRANULAR MATERIAL TO FORM A TEMPORARY BERM THAT WILL DIVERT STORMWATER AND TRAP SEDIMENT.
- TEMPORARY ACCESS ROADS TO BE CONSTRUCTED WITH A DOWNSTREAM SAFETY BERM TO DIVERT RUNOFF AND TRAP SEDIMENT. BERM TO BE MAINTAINED THROUGHOUT CONSTRUCTION.
- POTENTIAL BORROW AREAS EXCAVATED INTO ROCK AND DO NOT REQUIRE PROTECTION OR STABILIZATION.
- THE CONTRACTOR TO LIMIT PERIMETER PROTECTION TO AREAS WHERE LOCAL DRAINAGE MAY MOBILIZE SILT OR SEDIMENT WITH SURFACE RUNOFF.
- CHECK DAM AND STABILIZATION BERM DETAILS SHOWN ON C4601. CHECK DAMS USED IN CONJUNCTION WITH BERMS ALONG THE EDGES OF NEWLY CONSTRUCTED STAGING AREAS TO PREVENT EROSION.
- SEE DRAWINGS C1620 TO C1624 FOR FINAL EROSION AND SEDIMENT CONTROL MEASURES.
- EROSION AND SEDIMENT CONTROL MEASURES ARE SELECTED PER THE STATE OF OREGON CONSTRUCTION STORMWATER BMP MANUAL.
- WATERING, AND IF NECESSARY STREET SWEEPING, OF CONSTRUCTION ROADS WILL BE PROVIDED FOR DUST AND POLLUTION CONTROL.
- TEMPORARY AND FINAL EROSION AND SEDIMENT CONTROL MEASURES FOR FISH LADDER REMOVAL TO BE DETERMINED IN THE FIELD DUE TO PRESENCE OF STEEP TERRAIN AND EXISTING ROCK OUTCROPPINGS.

Site Condition	Minimum Frequency
1. Active period	On initial date that land disturbance activities commence. Within 24 hours of any storm event, including runoff from snow melt, that results in discharge from the site. At least once every 14 days, regardless of whether stormwater runoff is occurring.
2. Inactive periods greater than fourteen (14) consecutive calendar days	The Inspector may reduce the frequency of inspections in any area of the site where the stabilization steps in Section 2.2.20 have been completed to twice per month for the first month, no less than 14 calendar days apart, then once per month.
3. Periods during which the site is inaccessible due to inclement weather	If safe, accessible and practical, inspections must occur daily at a relevant discharge point or downstream location of the receiving waterbody.
4. Periods during which construction activities are suspended and runoff is unlikely due to frozen conditions.	Visual monitoring inspections may be temporarily suspended. Immediately resume monitoring upon thawing, or when weather conditions make discharges likely.
5. Periods during which construction activities are conducted and runoff is unlikely during frozen conditions.	Visual monitoring inspections may be reduced to once a month. Immediately resume monitoring upon thawing, or when weather conditions make discharges likely.



PLAN  
1' = 300'

ISSUED FOR CONSTRUCTION

Drawings: May 23, 2022, 2:50pm  
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REV	DESCRIPTION	BY	CHK	APP	DATE
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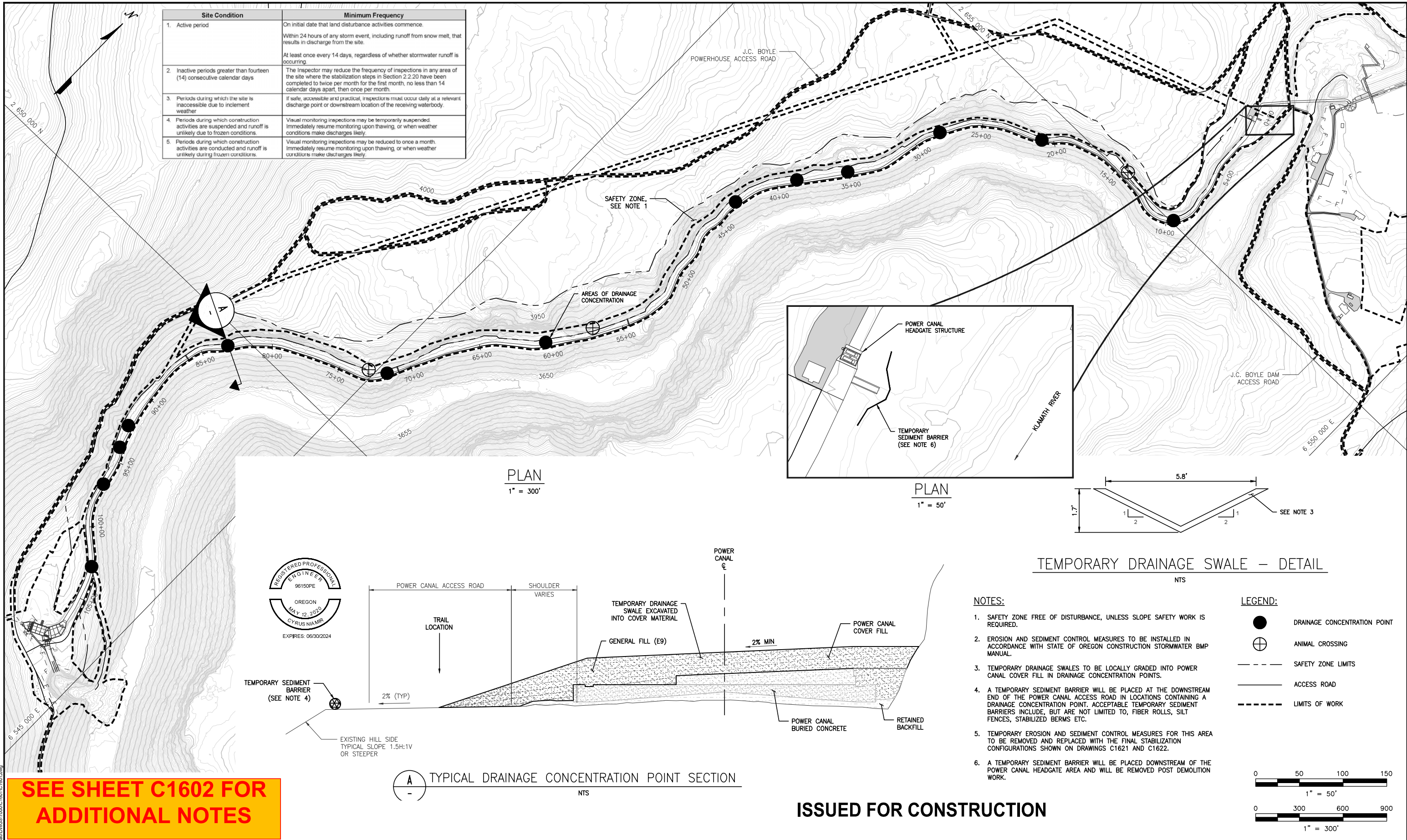
WARNING  
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PREPARED BY  
**Knight Piésold CONSULTING**  
**Kiewit**

DESIGNED L. BUETIKOFER  
DRAWN R. MARTIN  
REVIEWED C. NIAMIR  
IN CHARGE N. BISHOP  
APPROVED S. MOTTRAM

PREPARED FOR  
**KLAMATH RIVER RENEWAL CORPORATION**

PROJECT <b>KLAMATH RIVER RENEWAL PROJECT</b>	PROJ # VA103-640/1
SHEET TITLE J.C. BOYLE FACILITY TEMPORARY EROSION AND SEDIMENT CONTROL EMBANKMENT, SPILLWAY, AND INTAKE	DATE 05/27/2022
	DWG <b>C1600</b>



				WARNING 0 1/2 1 		PREPARED BY  Knight Piésold CONSULTING  Kiewit		DESIGNED L. BUETIKOFER DRAWN R. MARTIN REVIEWED C. NIAMIR IN CHARGE N. BISHOP APPROVED S. MOTTRAM				PROJECT KLAMATH RIVER RENEWAL PROJECT		PROJ # VA103-640/1	
				IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE								SHEET TITLE J.C. BOYLE FACILITY TEMPORARY EROSION AND SEDIMENT CONTROL POWER CANAL		DATE 05/27/2022	
0 ISSUED FOR CONSTRUCTION				LB CBNSRM05/27/22										DWG C1601	
REV DESCRIPTION				BY CHK APP DATE											

drawings: May 23, 2022, 2:57pm  
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1.Include a list of all personnel (by name and position) that are responsible for the design, installation and maintenance of stormwater control measures (e.g. ESCP developer, BMP installer (see Section 4.10), as well as their individual responsibilities. (Section 4.4.c.ii)

2.Visual monitoring inspection reports must be made in accordance with DEQ 1200-C permit requirements. (Section 6.5)

3.Inspection logs must be kept in accordance with DEQ's 1200-C permit requirements. (Section 6.5.q)

4.Retain a copy of the ESCP and all revisions on site and make it available on request to DEQ, Agent, or the local municipality. (Section 4.7)

5.The permit registrant must implement the ESCP. Failure to implement any of the control measures or practices described in the ESCP is a violation of the permit. (Sections 4 and 4.11)

6.The ESCP must be accurate and reflect site conditions. (Section 4.8)

7.Submission of all ESCP revisions is not required. Submittal of the ESCP revisions is only under specific conditions. Submit all necessary revision to DEQ or Agent within 10 days. (Section 4.9)

8.Sequence clearing and grading to the maximum extent practical to prevent exposed inactive areas from becoming a source of erosion. (Section 2.2.2)

9.Create smooth surfaces between soil surface and erosion and sediment controls to prevent stormwater from bypassing controls and ponding. (section 2.2.3)

10.Identify, mark, and protect (by construction fencing or other means) critical riparian areas and vegetation including important trees and associated rooting zones, and vegetation areas to be preserved. Identify vegetative buffer zones between the site and sensitive areas (e.g., wetlands), and other areas to be preserved, especially in perimeter areas. (Section 2.2.1)

11.Preserve existing vegetation when practical and re-vegetate open areas. Re-vegetate open areas when practicable before and after grading or construction. Identify the type of vegetative seed mix used. (Section 2.2.5)

12.Maintain and delineate any existing natural buffer within the 50-feet of waters of the state. (Section 2.2.4)

13.Install perimeter sediment control, including storm drain inlet protection as well as all sediment basins, traps, and barriers prior to land disturbance. (Sections 2.1.3)

14.Control both peak flow rates and total stormwater volume, to minimize erosion at outlets and downstream channels and streambanks. (Sections 2.1.1. and 2.2.16)

15.Control sediment as needed along the site perimeter and at all operational internal storm drain inlets at all times during construction, both internally and at the site boundary. (Sections 2.2.6 and 2.2.13)

16.Establish concrete truck and other concrete equipment washout areas before beginning concrete work. (Section 2.2.14)

17.Apply temporary and/or permanent soil stabilization measures immediately on all disturbed areas as grading progresses. Temporary or permanent stabilizations measures are not required for areas that are intended to be left unvegetated, such as dirt access roads or utility pole pads. (Sections 2.2.20 and 2.2.21)

18.Establish material and waste storage areas, and other non-stormwater controls. (Section 2.3.7)

19.Keep waste container lids closed when not in use and close lids at the end of the business day for those containers that are actively used throughout the day. For waste containers that do not have lids, provide either (1) cover (e.g., a tarp, plastic sheeting, temporary roof) to prevent exposure of wastes to precipitation, or (2) a similarly effective means designed to prevent the discharge of pollutants (e.g., secondary containment). (Section 2.3.7)

20.Prevent tracking of sediment onto public or private roads using BMPs such as: construction entrance, graveled (or paved) exits and parking areas, gravel all unpaved roads located onsite, or use an exit tire wash. These BMPs must be in place prior to land-disturbing activities. (Section 2.2.7)

21.When trucking saturated soils from the site, either use water-tight trucks or drain loads on site. (Section 2.2.7.f)

22.Control prohibited discharges from leaving the construction site, i.e., concrete wash-out, wastewater from cleanout of stucco, paint and curing compounds. (Sections 1.5 and 2.3.9)

23.Ensure that steep slope areas where construction activities are not occurring are not disturbed. (Section 2.2.10)

24.Prevent soil compaction in areas where post-construction infiltration facilities are to be installed. (Section 2.2.12)

25.Use BMPs to prevent or minimize stormwater exposure to pollutants from spills; vehicle and equipment fueling, maintenance, and storage; other cleaning and maintenance activities; and waste handling activities. These pollutants include fuel, hydraulic fluid, and other oils from vehicles and machinery, as well as debris, fertilizer, pesticides and herbicides, paints, solvents, curing compounds and adhesives from construction operations. (Sections 2.2.15 and 2.3)

26.Provide plans for sedimentation basins that have been designed per Section 2.2.17 and stamped by an Oregon Professional Engineer. (See Section 2.2.17.a)

27.If engineered soils are used on site, a sedimentation basin/impoundment must be installed. (See Sections 2.2.17 and 2.2.18)

28.Provide a dewatering plan for accumulated water from precipitation and uncontaminated groundwater seepage due to shallow excavation activities. (See Section 2.4)

29.Implement the following BMPs when applicable: written spill prevention and response procedures, employee training on spill prevention and proper disposal procedures, spill kits in all vehicles, regular maintenance schedule for vehicles and machinery, material delivery and storage controls, training and signage, and covered storage areas for waste and supplies. (Section 2.3)

30.Use water, soil-binding agent or other dust control technique as needed to avoid wind-blown soil. (Section 2.2.9)

31.The application rate of fertilizers used to reestablish vegetation must follow manufacturer's recommendations to minimize nutrient releases to surface waters. Exercise caution when using time-release fertilizers within any waterway riparian zone. (Section 2.3.5)

32.If an active treatment system (for example, electro-coagulation, flocculation, filtration, etc.) for sediment or other pollutant removal is employed, submit an operation and maintenance plan (including system schematic, location of system, location of inlet, location of discharge, discharge dispersion device design, and a sampling plan and frequency) before operating the treatment system. Obtain Environmental Management Plan approval from DEQ before operating the treatment system. Operate and maintain the treatment system according to manufacturer's specifications. (Section 1.2.9)

33.Temporarily stabilize soils at the end of the shift before holidays and weekends, if needed. The registrant is responsible for ensuring that soils are stable during rain events at all times of the year. (Section 2.2)

34.As needed based on weather conditions, at the end of each workday soil stockpiles must be stabilized or covered, or other BMPs must be implemented to prevent discharges to surface waters or conveyance systems leading to surface waters. (Section 2.2.8)

35.Sediment fence: remove trapped sediment before it reaches one third of the above ground fence height and before fence removal. (Section 2.1.5.b)

36.Other sediment barriers (such as biobags): remove sediment before it reaches two inches depth above ground height and before BMP removal. (Section 2.1.5.c)

37.Catch basins: clean before retention capacity has been reduced by fifty percent. Sediment basins and sediment traps: remove trapped sediments before design capacity has been reduced by fifty percent and at completion of project. (Section 2.1.5.d)

38. Within 24 hours, significant sediment that has left the construction site, must be remediated. Investigate the cause of the sediment release and implement steps to prevent a recurrence of the discharge within the same 24 hours. Any in-stream clean-up of sediment shall be performed according to the Oregon Department of State Lands required timeframe. (Section 2.2.19.a)

39.The intentional washing of sediment into storm sewers or drainage ways must not occur. Vacuuming or dry sweeping and material pickup must be used to cleanup released sediments. (Section 2.2.19)

40.Document any portion(s) of the site where land disturbing activities have permanently ceased or will be temporarily inactive for 14 or more calendar days. (Section 6.5.f)

41.Provide temporary stabilization for that portion of the site where construction activities cease for 14 days or more with a covering of blown straw and a tackifier, loose straw, or an adequate covering of compost mulch until work resumes on that portion of the site. (Section 2.2.20)

42.Do not remove temporary sediment control practices until permanent vegetation or other cover of exposed areas is established. Once construction is complete and the site is stabilized, all temporary erosion controls and retained soils must be removed and disposed of properly, unless needed for long term use following termination of permit coverage. (Section 2.2.21)

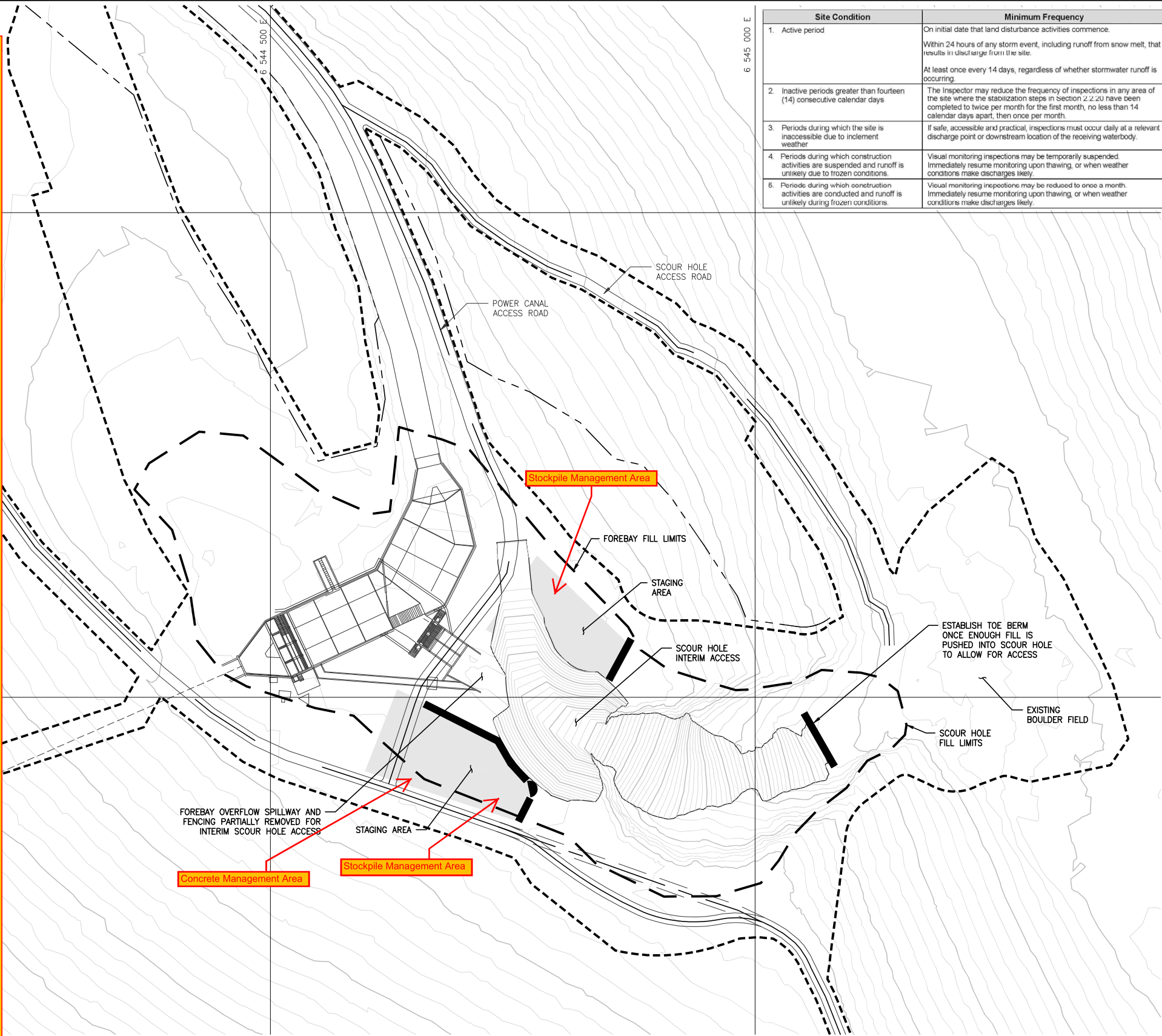
Site Condition	Minimum Frequency
1. Active period	On initial date that land disturbance activities commence.  Within 24 hours of any storm event, including runoff from snow melt, that results in discharge from the site.  At least once every 14 days, regardless of whether stormwater runoff is occurring.
2. Inactive periods greater than fourteen (14) consecutive calendar days	The Inspector may reduce the frequency of inspections in any area of the site where the stabilization steps in Section 2.2.20 have been completed to twice per month for the first month, no less than 14 calendar days apart, then once per month.
3. Periods during which the site is inaccessible due to inclement weather	If safe, accessible and practical, inspections must occur daily at a relevant discharge point or downstream location of the receiving waterbody.
4. Periods during which construction activities are suspended and runoff is unlikely due to frozen conditions.	Visual monitoring inspections may be temporarily suspended. Immediately resume monitoring upon thawing, or when weather conditions make discharges likely.
5. Periods during which construction activities are conducted and runoff is unlikely during frozen conditions.	Visual monitoring inspections may be reduced to once a month. Immediately resume monitoring upon thawing, or when weather conditions make discharges likely.

LEGEND:

- STAGING AREA
- CHECK DAM
- STABILIZED BERM
- FILL LIMITS
- LIMITS OF WORK
- SAFETY ZONE LIMITS

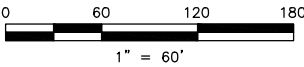
NOTES:

- REFER TO GENERAL NOTES ON DRAWING G0006 FOR INFORMATION REGARDING TOPOGRAPHIC AND BATHYMETRIC DATA SOURCES.
- CONTRACTOR MAY LIMIT PERIMETER CONTROL TO AREAS WHERE LOCAL DRAINAGE MAY MOBILIZE SILT OR SEDIMENT WITH SURFACE RUNOFF.
- SEE DRAWINGS C1620 TO C1624 FOR FINAL EROSION AND SEDIMENT CONTROL MEASURES.
- CHECK DAM AND STABILIZATION BERM DETAILS SHOWN ON C4601. CHECK DAMS USED IN CONJUNCTION WITH BERMS ALONG THE EDGES OF NEWLY CONSTRUCTED STAGING AREAS TO PREVENT EROSION.
- EROSION AND SEDIMENT CONTROL MEASURES ARE SELECTED PER THE STATE OF OREGON CONSTRUCTION BMP MANUAL.



PLAN  
1" = 60'

ISSUED FOR CONSTRUCTION



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WARNING

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1

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

PREPARED BY

kp

Knight Piésold CONSULTING

PKS

Kiewit

DESIGNED  
L. BUETIKOFER

DRAWN  
R. MARTIN

REVIEWED  
C. NIAMIR

IN CHARGE  
N. BISHOP

APPROVED  
S. MOTTRAM

PREPARED FOR

KLAMATH RIVER RENEWAL CORPORATION

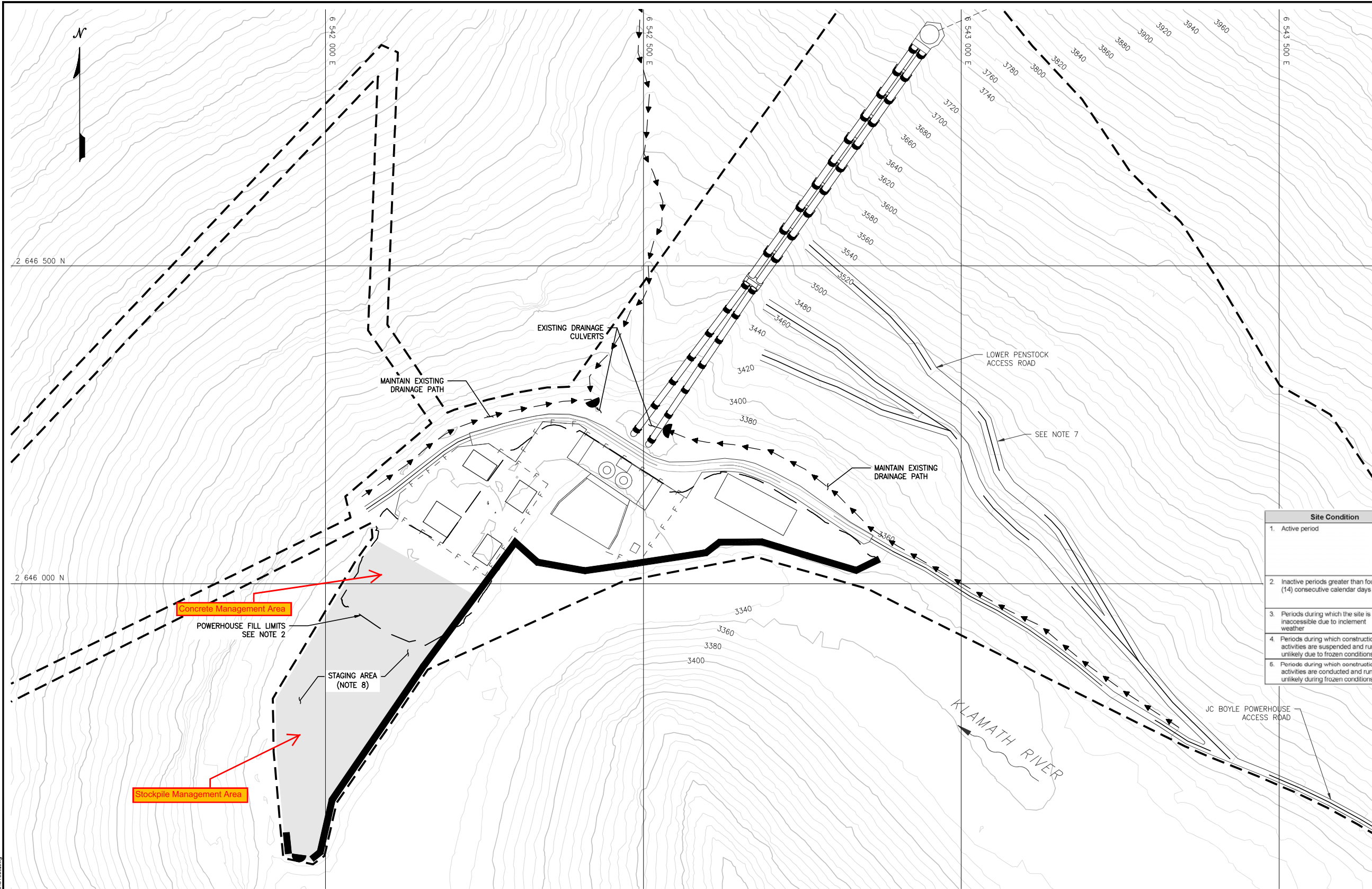
PROJECT  
KLAMATH RIVER RENEWAL PROJECT

SHEET TITLE  
J.C. BOYLE FACILITY  
TEMPORARY EROSION AND SEDIMENT CONTROL  
FOREBAY AND SCOUR HOLE

PROJ #  
VA103-640/1

DATE  
05/27/2022

DWG  
C1602



LEGEND:

- STAGING AREA
- CHECK DAM
- STABILIZED BERM
- EXISTING DRAINAGE
- FILL LIMITS
- LIMITS OF WORK

NOTES:

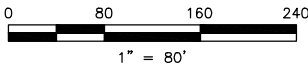
- REFER TO GENERAL NOTES ON DRAWING G0006 FOR INFORMATION REGARDING TOPOGRAPHIC AND BATHYMETRIC DATA SOURCES.
- THE POWERHOUSE REMOVAL AND GRADING TO BE INITIALLY FILLED AT THE RIVER EDGE WITH CLEAN MATERIAL TO FORM A TEMPORARY BERM THAT WILL DIVERT STORMWATER AND TRAP SEDIMENT.
- THE CONTRACTOR TO LIMIT PERIMETER CONTROL TO AREAS WHERE LOCAL DRAINAGE MAY MOBILIZE SILT OR SEDIMENT WITH SURFACE RUNOFF.
- SEE DRAWINGS C1620 TO C1624 FOR FINAL EROSION AND SEDIMENT CONTROL MEASURES.
- CHECK DAM AND STABILIZATION BERM DETAILS SHOWN ON C4601. CHECK DAMS USED IN CONJUNCTION WITH BERMS ALONG THE EDGES OF NEWLY CONSTRUCTED STAGING AREAS TO PREVENT EROSION.
- EROSION AND SEDIMENT CONTROL MEASURES ARE SELECTED PER THE STATE OF OREGON CONSTRUCTION BMP MANUAL.
- SEDIMENT GENERATED UPSLOPE CONVEYED TO A CHECK DAM BEFORE ENTERING EXISTING CULVERT.
- TREES AND OTHER VEGETATION TO BE REMOVED FROM STAGING AREA PRIOR TO DEMOLITION AND REGRADING ACTIVITIES.

Site Condition	Minimum Frequency
1. Active period	On initial date that land disturbance activities commence. Within 24 hours of any storm event, including runoff from snow melt, that results in discharge from the site. At least once every 14 days, regardless of whether stormwater runoff is occurring.
2. Inactive periods greater than fourteen (14) consecutive calendar days	The Inspector may reduce the frequency of inspections in any area of the site where the stabilization steps in Section 2.2.20 have been completed to twice per month for the first month, no less than 14 calendar days apart, then once per month.
3. Periods during which the site is inaccessible due to inclement weather	If safe, accessible and practical, inspections must occur daily at a relevant discharge point or downstream location of the receiving waterbody.
4. Periods during which construction activities are suspended and runoff is unlikely due to frozen conditions.	Visual monitoring inspections may be temporarily suspended. Immediately resume monitoring upon thawing, or when weather conditions make discharges likely.
5. Periods during which construction activities are conducted and runoff is unlikely during frozen conditions.	Visual monitoring inspections may be reduced to once a month. Immediately resume monitoring upon thawing, or when weather conditions make discharges likely.



PLAN  
1" = 80'

ISSUED FOR CONSTRUCTION



SEE SHEET C1602 FOR  
ADDITIONAL NOTES

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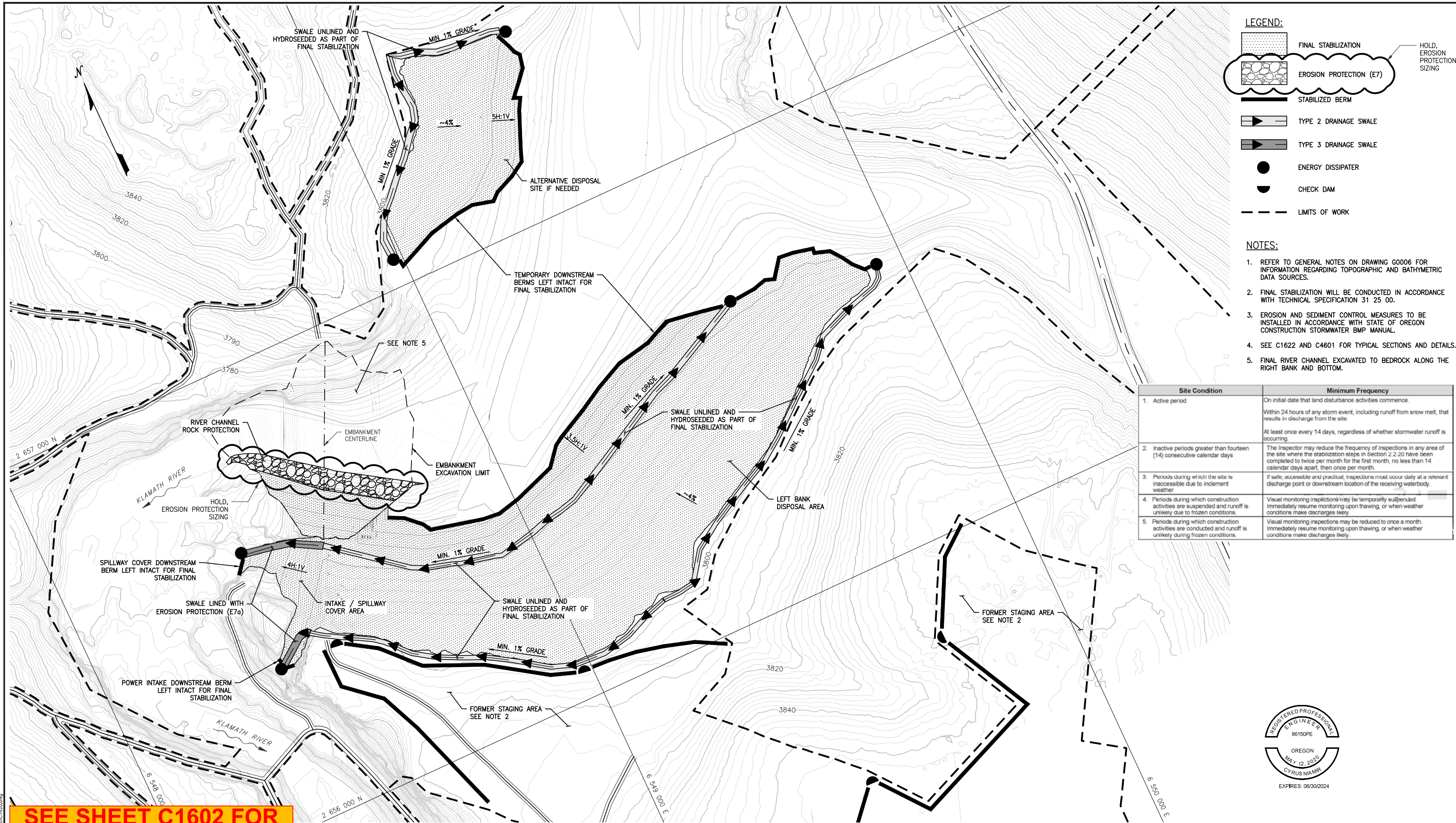
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DESIGNED	L. BUETIKOFER
DRAWN	R. MARTIN
REVIEWED	C. NIAMIR
IN CHARGE	N. BISHOP
APPROVED	S. MOTTRAM



PROJECT	KLAMATH RIVER RENEWAL PROJECT	PROJ #	VA103-640/1
SHEET TITLE	J.C. BOYLE FACILITY TEMPORARY EROSION AND SEDIMENT CONTROL PENSTOCK AND POWERHOUSE	DATE	05/27/2022
DWG	C1603		



LEGEND:

- FINAL STABILIZATION
- EROSION PROTECTION (E7)
- STABILIZED BERM
- TYPE 2 DRAINAGE SWALE
- TYPE 3 DRAINAGE SWALE
- ENERGY DISSIPATER
- CHECK DAM
- LIMITS OF WORK

NOTES:

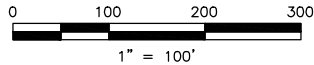
- REFER TO GENERAL NOTES ON DRAWING G0006 FOR INFORMATION REGARDING TOPOGRAPHIC AND BATHYMETRIC DATA SOURCES.
- FINAL STABILIZATION WILL BE CONDUCTED IN ACCORDANCE WITH TECHNICAL SPECIFICATION 31 25 00.
- EROSION AND SEDIMENT CONTROL MEASURES TO BE INSTALLED IN ACCORDANCE WITH STATE OF OREGON CONSTRUCTION STORMWATER BMP MANUAL.
- SEE C1622 AND C4601 FOR TYPICAL SECTIONS AND DETAILS.
- FINAL RIVER CHANNEL EXCAVATED TO BEDROCK ALONG THE RIGHT BANK AND BOTTOM.

Site Condition	Minimum Frequency
1. Active period	On initial date that land disturbance activities commence. Within 24 hours of any storm event, including runoff from snow melt, that results in discharge from the site. At least once every 14 days, regardless of whether stormwater runoff is occurring.
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5. Periods during which construction activities are conducted and runoff is unlikely during frozen conditions	Visual monitoring inspections may be reduced to once a month. Immediately resume monitoring upon thawing, or when weather conditions make discharges likely.



PLAN  
1" = 100'

ISSUED FOR CONSTRUCTION



SEE SHEET C1602 FOR  
ADDITIONAL NOTES

REV				DESCRIPTION				BY				CHK				APP				DATE			
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WARNING

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

PREPARED BY

**Knight Piésold CONSULTING**

**Kiewit**

DESIGNED

L. BUETIKOFER

DRAWN

R. MARTIN

REVIEWED

C. NIAMIR

IN CHARGE

N. BISHOP

APPROVED

S. MOTTRAM

PREPARED FOR

**KLAMATH RIVER RENEWAL CORPORATION**

PROJECT

**KLAMATH RIVER RENEWAL PROJECT**

SHEET TITLE

J.C. BOYLE FACILITY  
FINAL EROSION AND SEDIMENT CONTROL  
DISPOSAL SITES

PROJ #

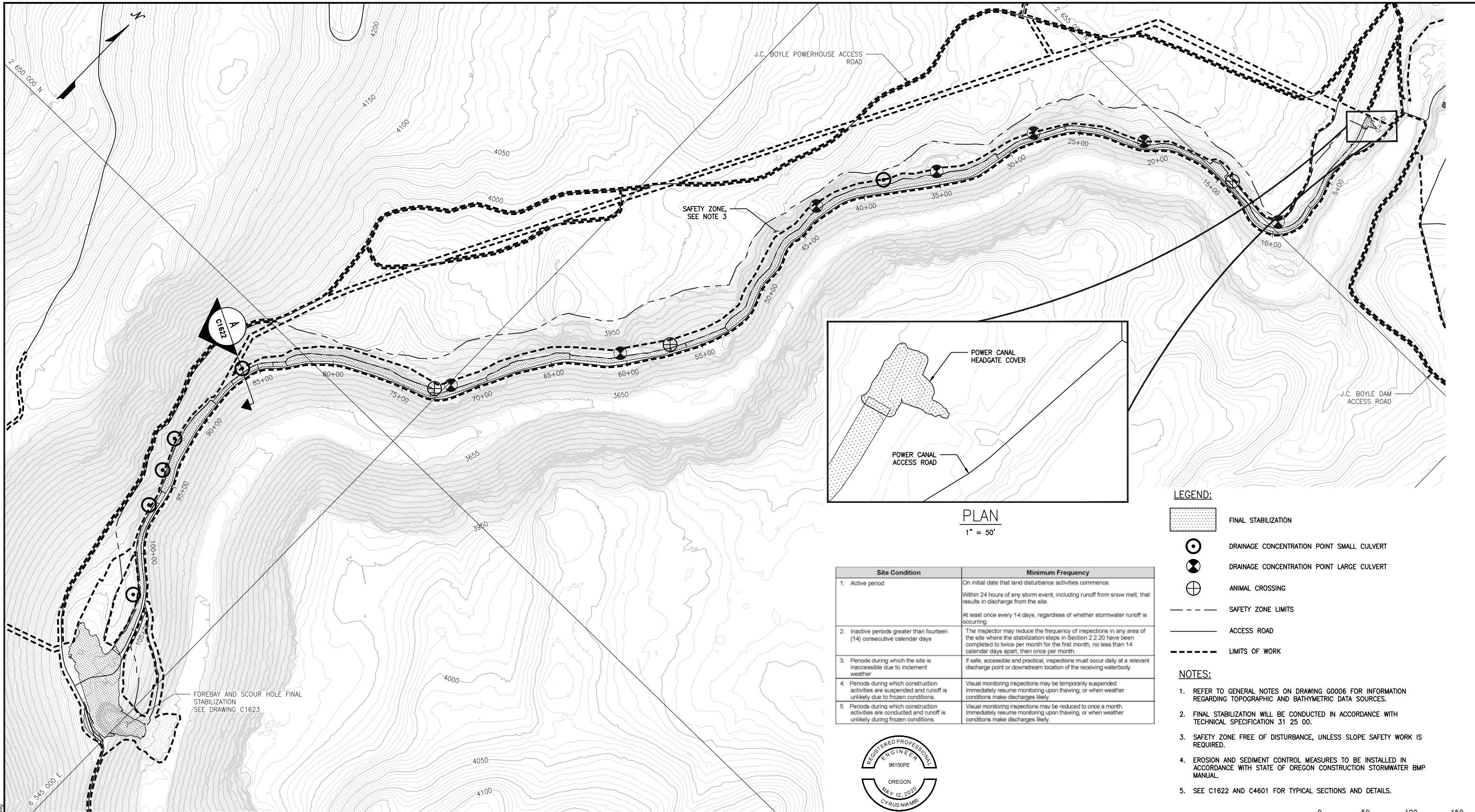
VA103-640/1

DATE

05/27/2022

DWG

**C1620**



SEE SHEET C1602 FOR  
ADDITIONAL NOTES

PLAN  
1" = 300'

Site Condition	Minimum Frequency
1. Active period	On initial date that land disturbance activities commence. Within 24 hours of any storm event, including runoff from snow melt, that results in discharge from the site. At least once every 14 days, regardless of whether stormwater runoff is occurring.
2. Inactive periods greater than fourteen (14) consecutive calendar days	The Inspector may reduce the frequency of inspections in any area of the site where the stabilization steps in Section 2.2.20 have been completed to twice per month for the first month, no less than 14 calendar days apart, then once per month.
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5. Periods during which construction activities are conducted and runoff is unlikely during frozen conditions	Visual monitoring inspections may be reduced to once a month. Immediately resume monitoring upon thawing, or when weather conditions make discharges likely.

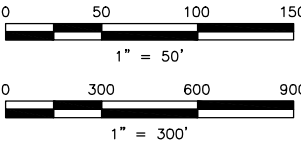


LEGEND:



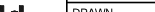

- FINAL STABILIZATION
- DRAINAGE CONCENTRATION POINT SMALL CULVERT
- DRAINAGE CONCENTRATION POINT LARGE CULVERT
- ANIMAL CROSSING
- SAFETY ZONE LIMITS
- ACCESS ROAD
- LIMITS OF WORK

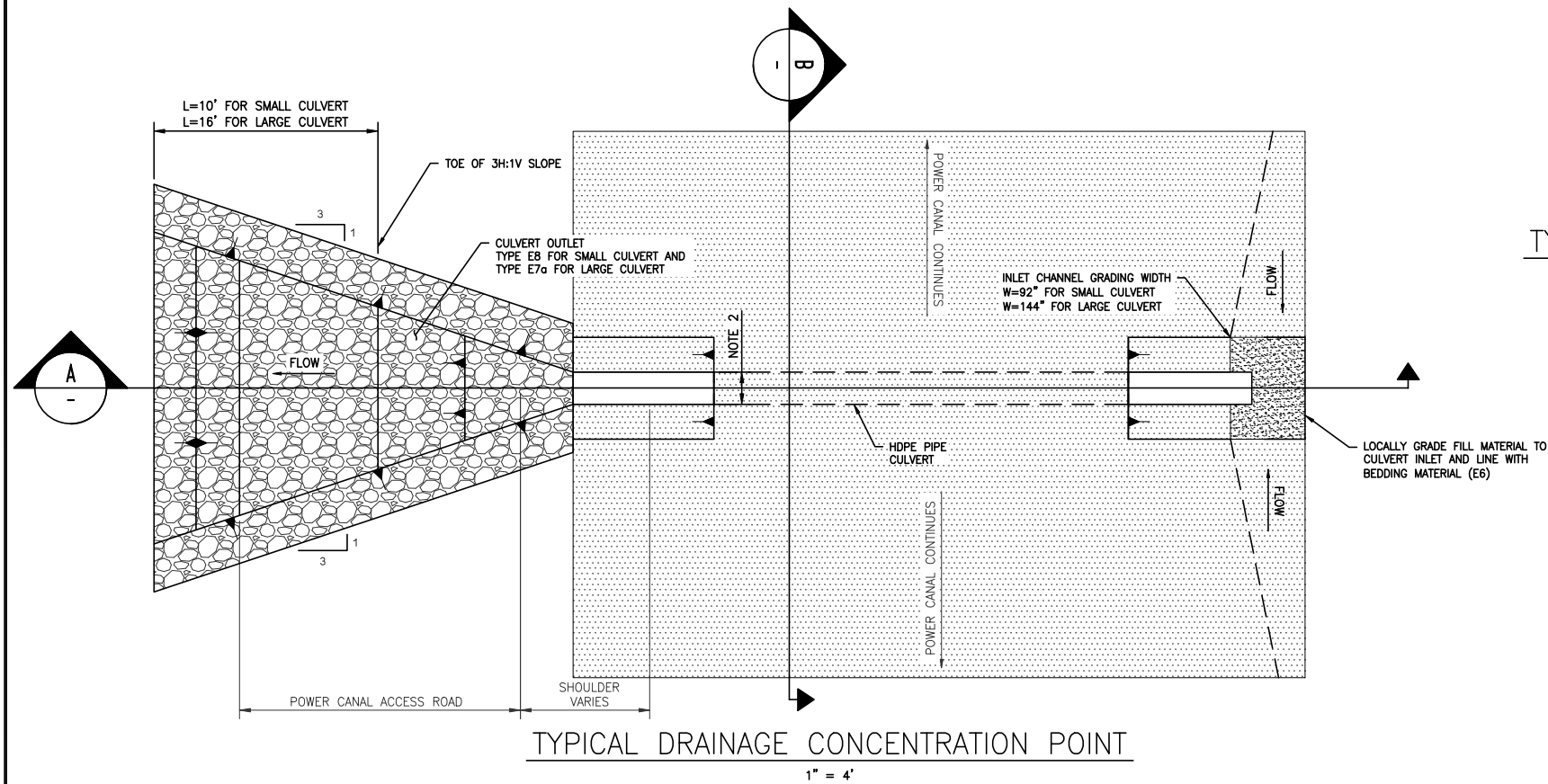
NOTES:

- REFER TO GENERAL NOTES ON DRAWING G0006 FOR INFORMATION REGARDING TOPOGRAPHIC AND BATHYMETRIC DATA SOURCES.
- FINAL STABILIZATION WILL BE CONDUCTED IN ACCORDANCE WITH TECHNICAL SPECIFICATION 31 25 00.
- SAFETY ZONE FREE OF DISTURBANCE, UNLESS SLOPE SAFETY WORK IS REQUIRED.
- EROSION AND SEDIMENT CONTROL MEASURES TO BE INSTALLED IN ACCORDANCE WITH STATE OF OREGON CONSTRUCTION STORMWATER BMP MANUAL.
- SEE C1622 AND C4601 FOR TYPICAL SECTIONS AND DETAILS.

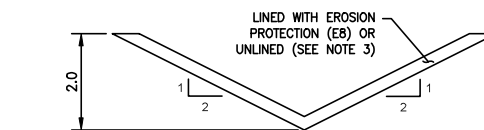


ISSUED FOR CONSTRUCTION

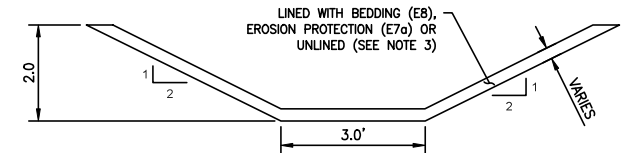
				WARNING 0 1/2 1 		PREPARED BY  Knight Piésold CONSULTING  Kiewit		DESIGNED L. BUETIKOFER DRAWN R. MARTIN REVIEWED C. NIAMIR IN CHARGE N. BISHOP APPROVED S. MOTTRAM				PROJECT <b>KLAMATH RIVER RENEWAL PROJECT</b>		PROJ # VA103-640/1	
												SHEET TITLE J.C. BOYLE FACILITY FINAL EROSION AND SEDIMENT CONTROL POWER CANAL		DATE 05/27/2022	
0 ISSUED FOR CONSTRUCTION				LB CBNSRM05/27/22										DWG C1621	
REV DESCRIPTION				BY CHK APP DATE											



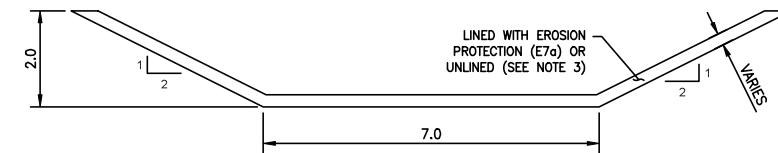
TYPICAL DRAINAGE CONCENTRATION POINT  
1" = 4'



TYPE 1 DRAINAGE SWALE - DETAIL  
1" = 2'

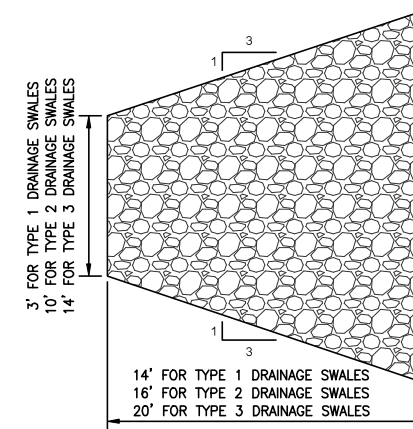


TYPE 2 DRAINAGE SWALE - DETAIL  
1" = 2'

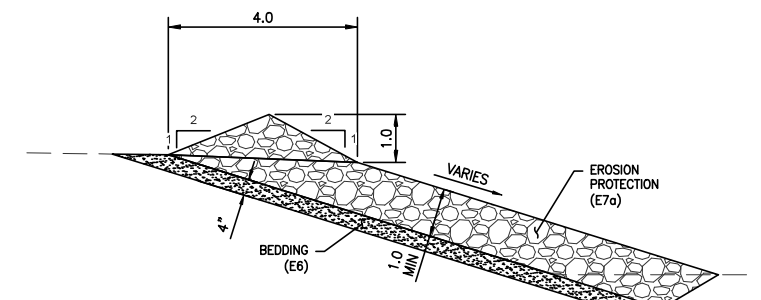


TYPE 3 DRAINAGE SWALE - DETAIL  
1" = 2'

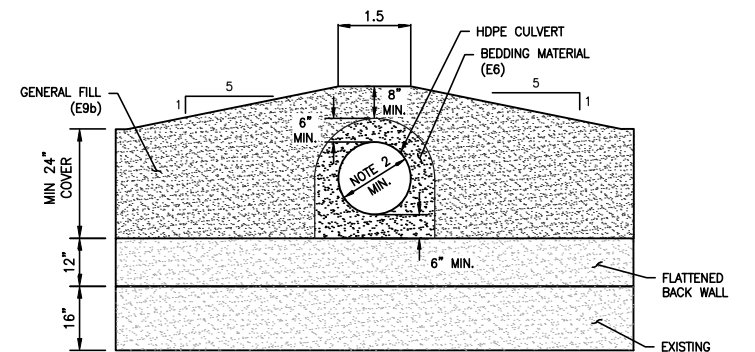
LINING TYPE	MIN. LINING THICKNESS
E8	8"
E7a	24"



ENERGY DISSIPATER - PLAN  
NTS



ENERGY DISSIPATER - DETAIL  
NTS



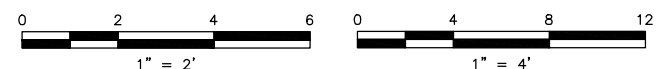
TYPICAL DRAINAGE CULVERT - DETAIL  
1" = 2'

LEGEND:

	FINAL STABILIZATION
	GENERAL FILL (E9/E9b)
	BEDDING MATERIAL (E6/E8)
	EROSION PROTECTION (E7a)

NOTES:

- DOUBLE WALL SECTION SHOWN. SAME DETAILS APPLY TO AREAS OF SINGLE WALL AND DOUBLE WALL (FREE STANDING).
- SMALL CULVERT DIAMETER = 18". LARGE CULVERT DIAMETER = 36".
- SPECIFIC SWALE LINING REQUIREMENTS SHOWN ON EACH ASSOCIATED PLAN VIEW DRAWING WHERE DRAINAGE SWALE LOCATIONS ARE SHOWN. UNLINED DRAINAGE SWALES TO BE HYDROSEEDS AS PART OF FINAL STABILIZATION.
- EROSION AND SEDIMENT CONTROL MEASURES TO BE INSTALLED IN ACCORDANCE WITH STATE OF OREGON CONSTRUCTION STORMWATER BMP MANUAL.
- FINAL STABILIZATION TO BE CONDUCTED PER TECHNICAL SPECIFICATION 31 25 00.
- DETAILS FOR STABILIZED BERMS AND CHECK DAM CONFIGURATIONS SHOWN ON DRAWING C4601.



ISSUED FOR CONSTRUCTION



**SEE SHEET C1602 FOR ADDITIONAL NOTES**

REV	DESCRIPTION	BY	CHK	APP	DATE
0	ISSUED FOR CONSTRUCTION	LB	CB	NSRM	05/27/22

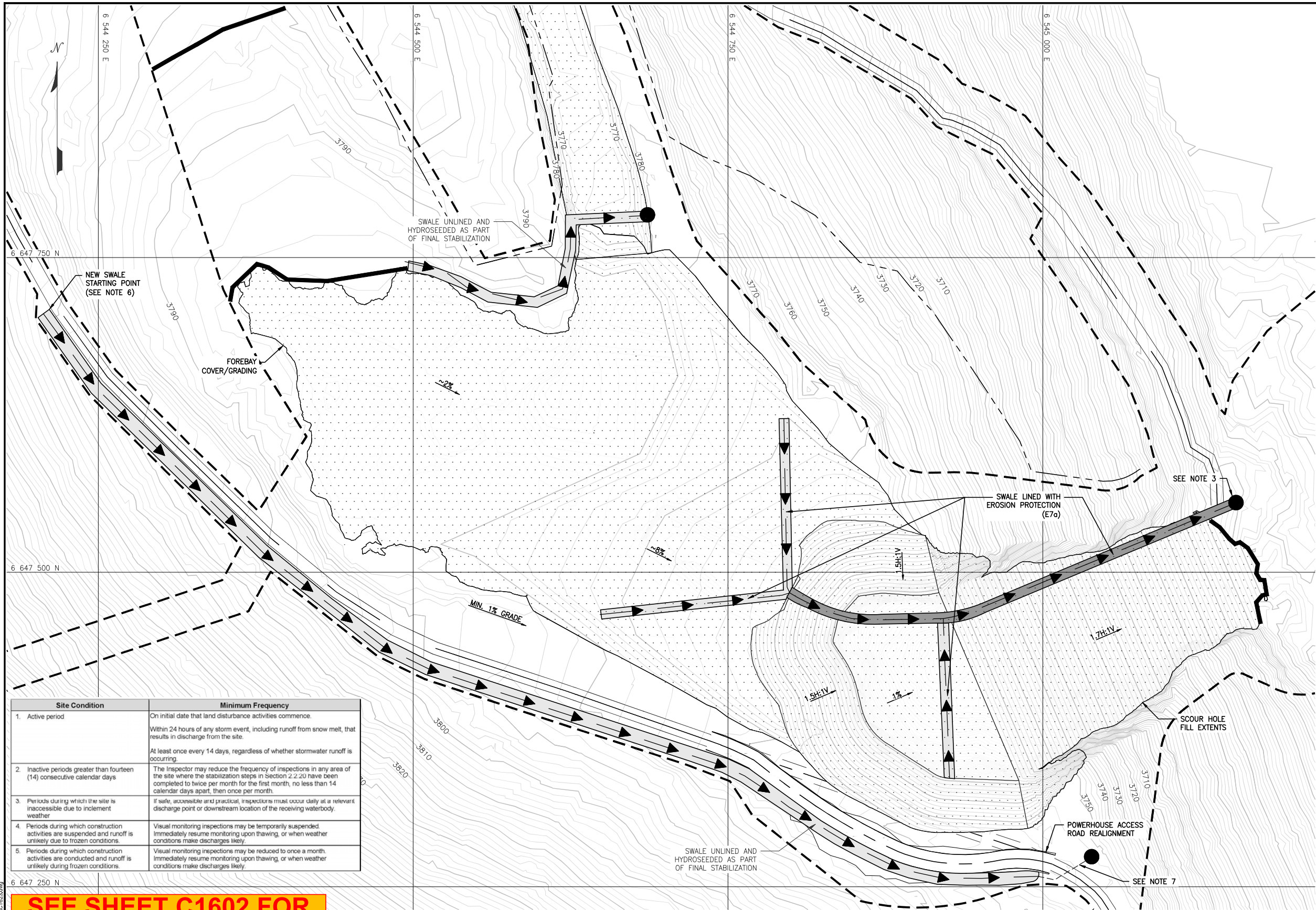
WARNING  
0 1/2 1  
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



DESIGNED	L. BUETIKOFER
DRAWN	R. MARTIN
REVIEWED	C. NIAMIR
IN CHARGE	N. BISHOP
APPROVED	S. MOTTRAM



PROJECT	KLAMATH RIVER RENEWAL PROJECT	PROJ #	VA103-640/1
SHEET TITLE	J.C. BOYLE FACILITY FINAL EROSION AND SEDIMENT CONTROL DRAINAGE DETAILS	DATE	05/27/2022
		DWG	C1622



LEGEND:



FINAL STABILIZATION



DRAINAGE CONCENTRATION POINT LARGE CULVERT



ENERGY DISSIPATER



STABILIZED BERM



TYPE 2 DRAINAGE SWALE



TYPE 3 DRAINAGE SWALE



SAFETY ZONE



LIMITS OF WORK

NOTES:

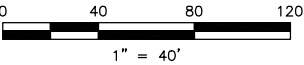
1. REFER TO GENERAL NOTES ON DRAWING G0006 FOR INFORMATION REGARDING TOPOGRAPHIC AND BATHYMETRIC DATA SOURCES.
2. FINAL STABILIZATION WILL BE CONDUCTED IN ACCORDANCE WITH TECHNICAL SPECIFICATION 31 25 00.
3. ENERGY DISSIPATER NOT REQUIRED IF DRAINAGE SWALE OUTLETS TO EXISTING ROCK PILES.
4. EROSION AND SEDIMENT CONTROL MEASURES TO BE INSTALLED IN ACCORDANCE WITH STATE OF OREGON CONSTRUCTION STORMWATER BMP MANUAL.
5. SEE C1622 AND C4601 FOR TYPICAL SECTIONS AND DETAILS.
6. A NEW DRAINAGE SWALE TO BE INSTALLED ALONG THE EXISTING POWERHOUSE ACCESS ROAD TO DIVERT RUNOFF FROM THE ADJACENT HILLSIDE AROUND THE SCOUR HOLE FILL AREA.
7. CULVERT OR SWALE TO BE FIELD FIT BASED ON ENCOUNTERED SITE CONDITIONS. FLOW TO DISCHARGE TO AN ENERGY DISSIPATER.

Site Condition	Minimum Frequency
1. Active period	On initial date that land disturbance activities commence. Within 24 hours of any storm event, including runoff from snow melt, that results in discharge from the site. At least once every 14 days, regardless of whether stormwater runoff is occurring.
2. Inactive periods greater than fourteen (14) consecutive calendar days	The Inspector may reduce the frequency of inspections in any area of the site where the stabilization steps in Section 2.2.20 have been completed to twice per month for the first month, no less than 14 calendar days apart, then once per month.
3. Periods during which the site is inaccessible due to inclement weather	If safe, accessible and practical, inspections must occur daily at a relevant discharge point or downstream location of the receiving waterbody.
4. Periods during which construction activities are suspended and runoff is unlikely due to frozen conditions.	Visual monitoring inspections may be temporarily suspended. Immediately resume monitoring upon thawing, or when weather conditions make discharges likely.
5. Periods during which construction activities are conducted and runoff is unlikely during frozen conditions.	Visual monitoring inspections may be reduced to once a month. Immediately resume monitoring upon thawing, or when weather conditions make discharges likely.

SEE SHEET C1602 FOR ADDITIONAL NOTES

PLAN  
1" = 40'

ISSUED FOR CONSTRUCTION



REV	DESCRIPTION	BY	CHK	APP	DATE
0	ISSUED FOR CONSTRUCTION	LB	CB	NSRM	05/27/22

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



DESIGNED	L. BUETIKOFER
DRAWN	R. MARTIN
REVIEWED	C. NIAMIR
IN CHARGE	N. BISHOP
APPROVED	S. MOTTRAM



PROJECT	KLAMATH RIVER RENEWAL PROJECT
SHEET TITLE	J.C. BOYLE FACILITY FINAL EROSION AND SEDIMENT CONTROL FOREBAY AND SCOUR HOLE

PROJ #	VA103-640/1
DATE	05/27/2022
DWG	C1623