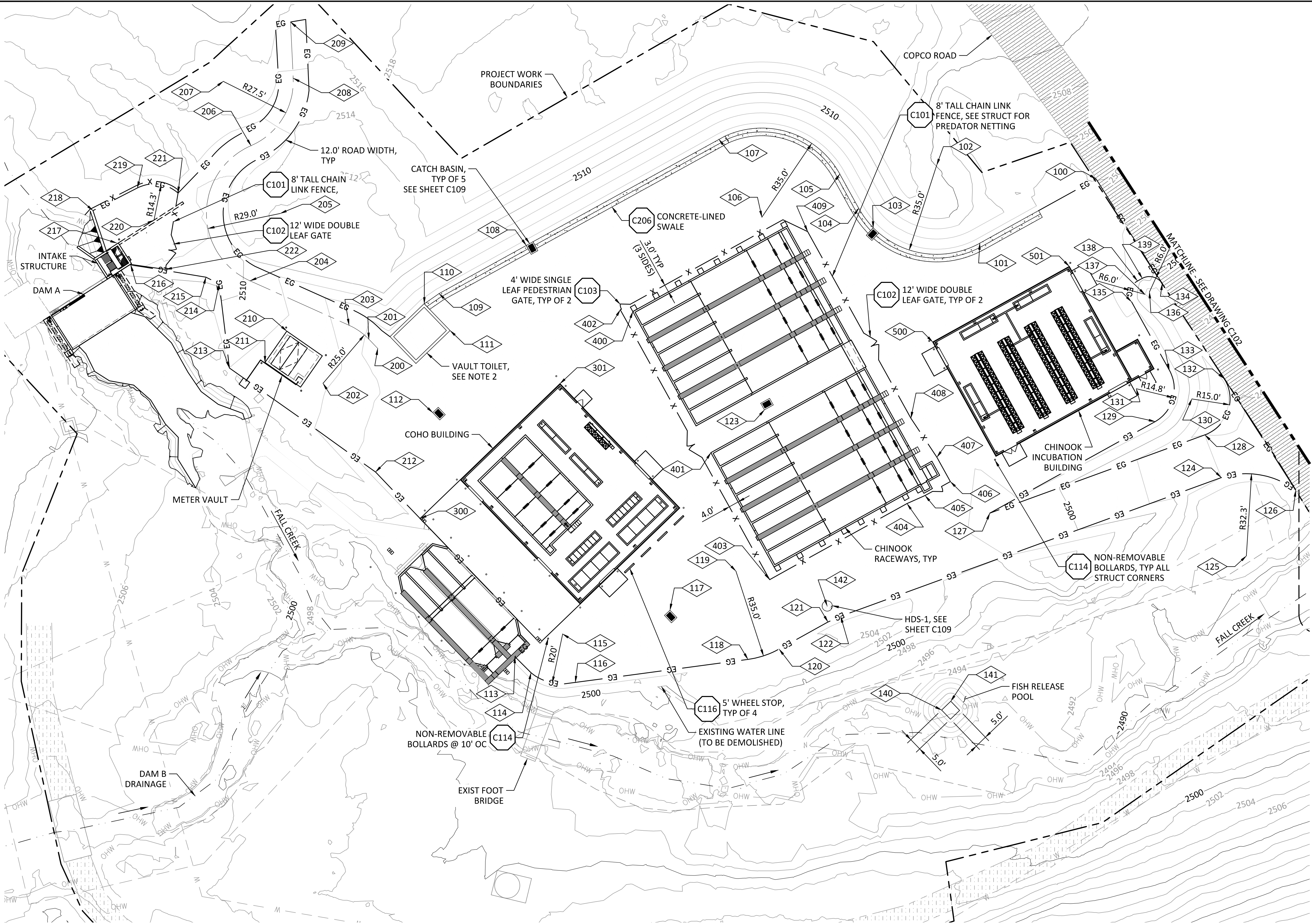
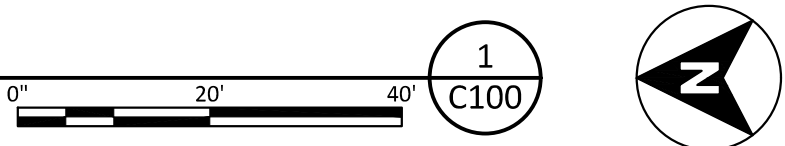


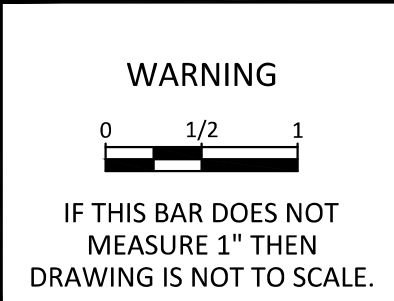
- SHEET NOTES:
- SEE GC007 FOR SITE LAYOUT COORDINATES.
 - VAULT TOILET SHALL BE A VENDOR PACKAGE IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS.



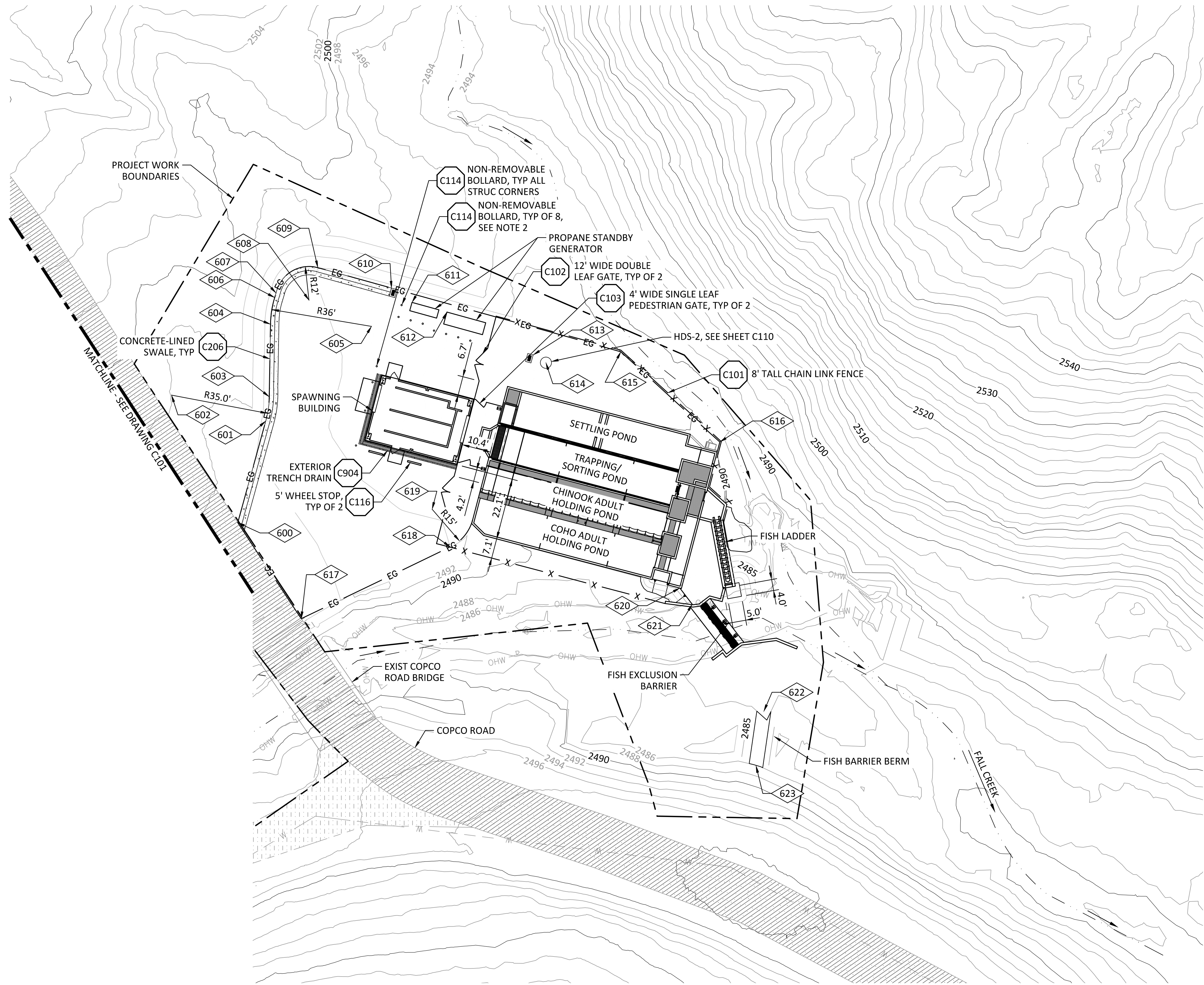
SITE LAYOUT NORTH PLAN
SCALE: 1"= 20'



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



KLAMATH RIVER RENEWAL CORPORATION		DESIGNED <u>A. LEMAN</u>	DRAWING C101
FALL CREEK FISH HATCHERY		DRAWN <u>J. LAHMON</u>	
SITE LAYOUT NORTH PLAN		CHECKED <u>V. AUTIER</u>	
		PROJECT DATE <u>10/28/20</u>	



- SHEET NOTES:
- SEE GC007 FOR SITE LAYOUT COORDINATES.
 - NON-REMOVABLE BOLLARDS TO BE LOCATED AROUND STANDBY GENERATOR AND PROPANE TANK AT 4.5' O.C. AND TO MAINTAIN 3.0' CLEAR DISTANCE TO GENERATOR/TANK.

SITE LAYOUT SOUTH PLAN
SCALE: 1"= 20'

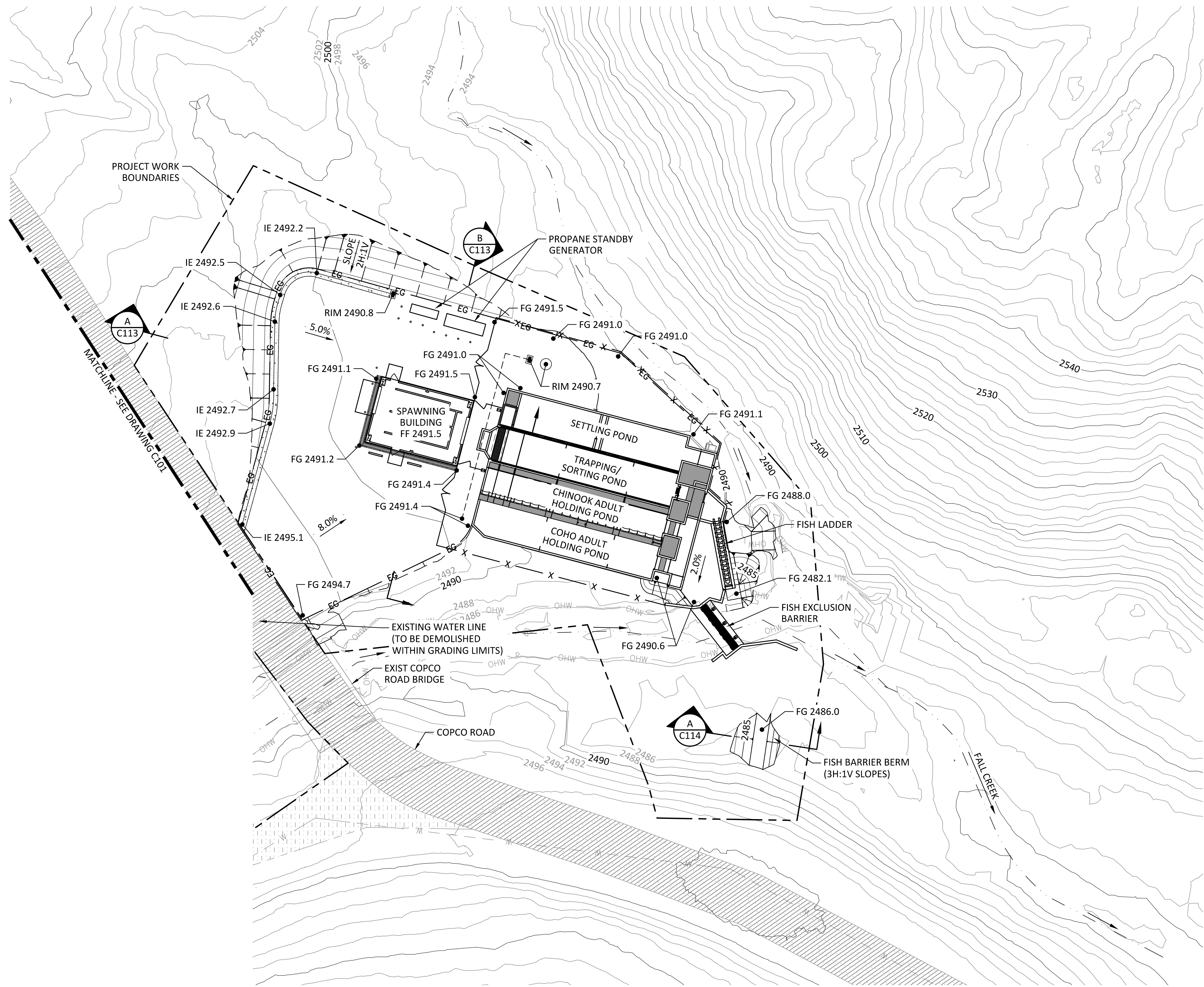
0	10/28/20	MDM	ISSUED FOR CONSTRUCTION	
REV	DATE	BY	DESCRIPTION	



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

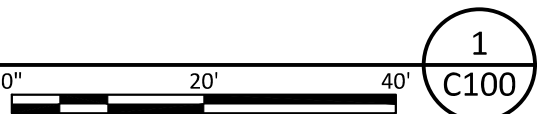


KLAMATH RIVER RENEWAL CORPORATION		DESIGNED <u>A. LEMAN</u>	DRAWING C102
FALL CREEK FISH HATCHERY		DRAWN <u>J. LAHMON</u>	
SITE LAYOUT SOUTH PLAN		CHECKED <u>V. AUTIER</u>	
		PROJECT DATE <u>10/28/20</u>	

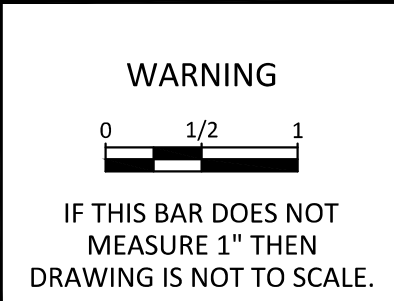


- SHEET NOTES:**
1. CUT AND FILL SLOPES SHALL TYPICALLY BE 2H:1V, UNO. EXCAVATION SLOPES MAY BE MODIFIED BASED UPON SOIL AND GROUNDWATER CONDITIONS ENCOUNTERED IN THE FIELD.
 2. MATCH EXISTING GRADE AND PROVIDE SMOOTH TRANSITION BETWEEN ALL NEW SURFACING AND EXISTING SURFACING.
 3. PROVIDE POSITIVE DRAINAGE AWAY FROM FACILITIES WHERE POSSIBLE, IN ACCORDANCE WITH THIS GRADING PLAN. WHERE DRAINAGE IS DIRECTED TOWARDS FACILITIES, TRENCH DRAIN SYSTEM TO BE PROVIDED TO DIRECT SURFACE RUNOFF TO CATCH BASINS. SEE SHEET C113.

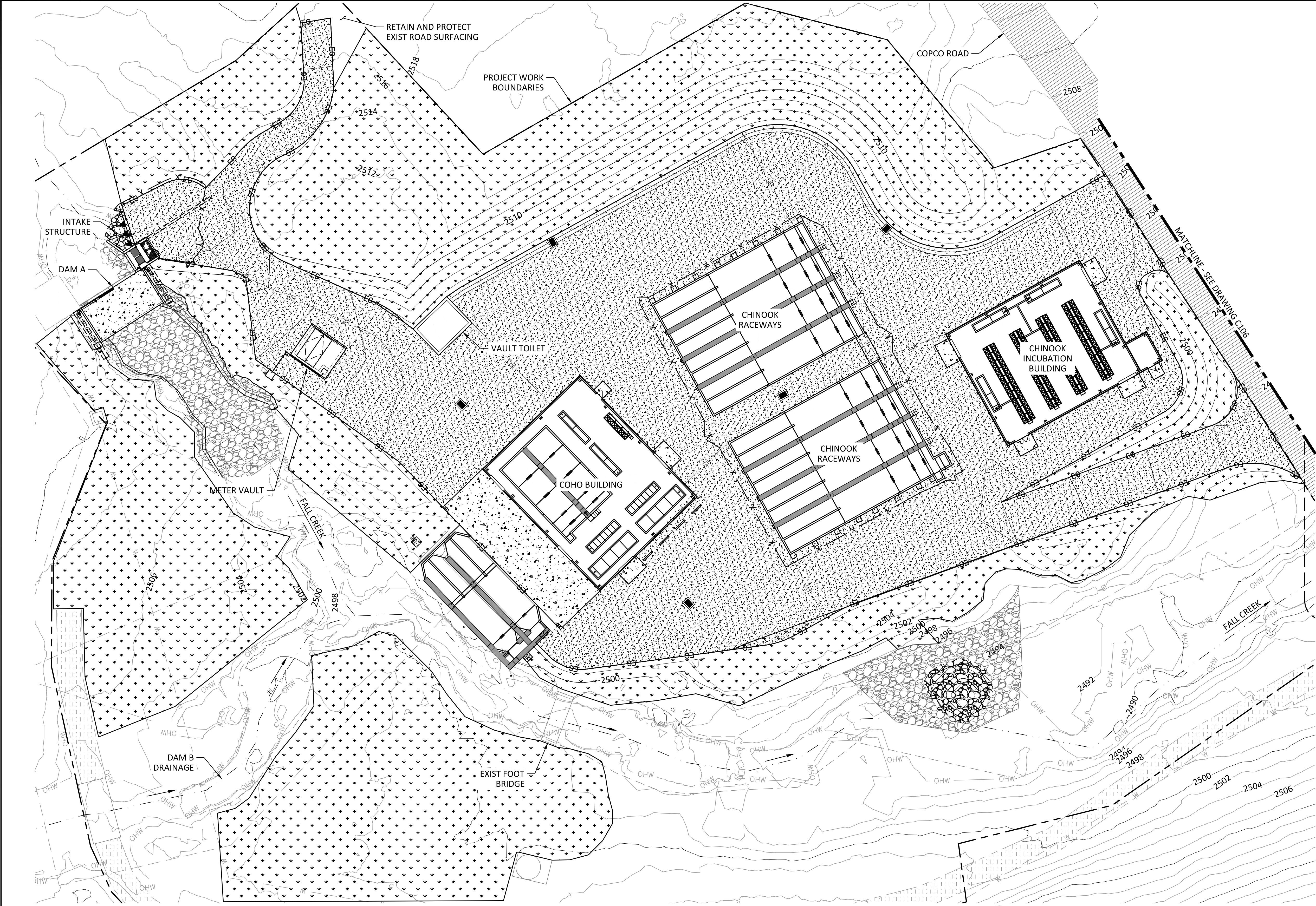
SITE GRADING SOUTH PLAN
SCALE: 1"= 20'



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



KLAMATH RIVER RENEWAL CORPORATION		DESIGNED <u>A. LEMAN</u>	C104
FALL CREEK FISH HATCHERY		DRAWN <u>J. LAHMON</u>	
SITE GRADING SOUTH PLAN		CHECKED <u>V. AUTIER</u>	
		PROJECT DATE <u>10/28/20</u>	



- SHEET NOTES:**
- 1. ALL DISTURBED AREAS THAT WILL NOT BE RECEIVING A FINISH COURSE PER THIS PLAN, WILL NEED TO BE REVEGETATED AT PROJECT COMPLETION. CONTRACTOR TO MINIMIZE DISTURBANCES TO THE EXISTING VEGETATION TO THE EXTENT PRACTICAL WITHIN THE PROJECT NATURAL VEGETATION BUFFERS AROUND THE PROJECT LIMITS IN ADDITION TO THE EROSION AND SEDIMENT CONTROL MEASURES.
 - 2. ANY DISTURBED STREAM BED OR BANK SHALL BE RESTORED WITH IN-KIND MATERIAL AT PROJECT COMPLETION. CONTRACTOR TO RECEIVE FINAL ACCEPTANCE OF STREAM RESTORATION MATERIALS FROM BOTH THE OWNER AND THE ENGINEER PRIOR TO DEMOBILIZATION FROM THE SITE.
 - 3. FOR RIPRAP SIZE, SEE AREA-SPECIFIC SECTIONS AND DETAILS AND SPECIFICATION 31 37 00.

- LEGEND:**
- GRAVEL SURFACE
 - REVEGETATION (SEE NOTE 1)
 - RIPRAP (SEE NOTE 3)
 - CONCRETE
 - RESTORE ORIGINAL CREEK BED/COBBLES (SEE NOTE 2)

SITE RESTORATION NORTH PLAN
SCALE: 1"= 20'

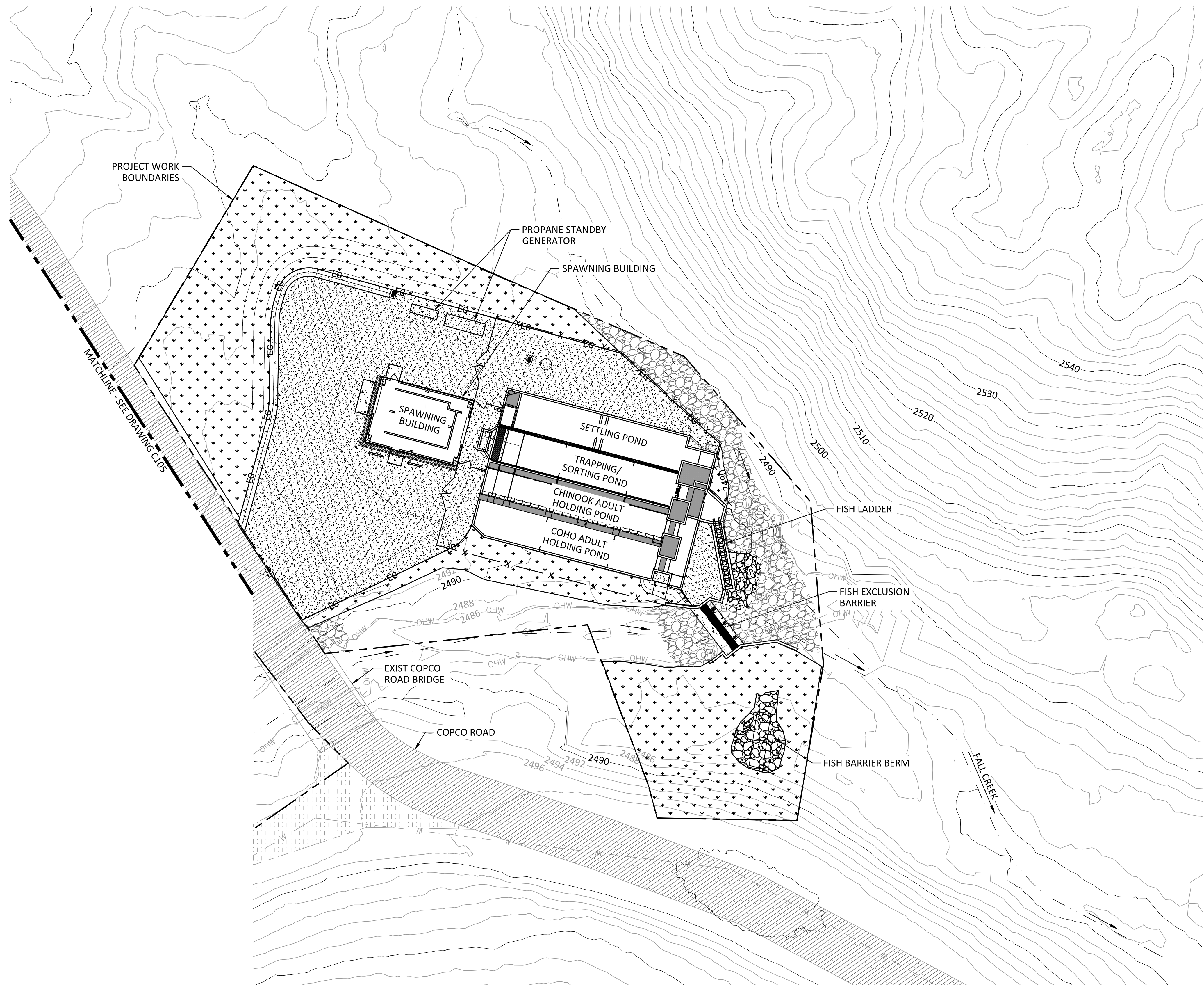
0	10/28/20	MDM	ISSUED FOR CONSTRUCTION	
REV	DATE	BY	DESCRIPTION	



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



KLAMATH RIVER RENEWAL CORPORATION		DESIGNED <u>A. LEMAN</u>	DRAWING C105
FALL CREEK FISH HATCHERY		DRAWN <u>J. LAHMON</u>	
SITE RESTORATION NORTH PLAN		CHECKED <u>V. AUTIER</u>	
		PROJECT DATE <u>10/28/20</u>	



SHEET NOTES:

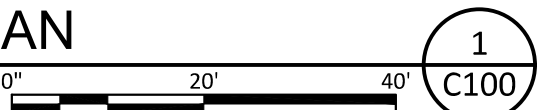
1. ALL DISTURBED AREAS THAT WILL NOT BE RECEIVING A FINISH COURSE PER THIS PLAN, WILL NEED TO BE REVEGETATED AT PROJECT COMPLETION. CONTRACTOR TO MINIMIZE DISTURBANCES TO THE EXISTING VEGETATION TO THE EXTENT PRACTICAL WITHIN THE PROJECT NATURAL VEGETATION BUFFERS AROUND THE PROJECT LIMITS IN ADDITION TO THE EROSION AND SEDIMENT CONTROL MEASURES.
2. ANY DISTURBED STREAM BED OR BANK SHALL BE RESTORED WITH IN-KIND MATERIAL AT PROJECT COMPLETION. CONTRACTOR TO RECEIVE FINAL ACCEPTANCE OF STREAM RESTORATION MATERIALS FROM BOTH THE OWNER AND THE ENGINEER PRIOR TO DEMOBILIZATION FROM THE SITE.
3. FOR RIPRAP SIZE, SEE AREA-SPECIFIC SECTIONS AND DETAILS AND SPECIFICATION 31 37 00.

LEGEND:

- GRAVEL SURFACE
- REVEGETATION (SEE NOTE 1)
- RIPRAP (SEE NOTE 3)
- CONCRETE
- RESTORE ORIGINAL CREEK BED/COBBLES (SEE NOTE 2)

SITE RESTORATION SOUTH PLAN

SCALE: 1"= 20'



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



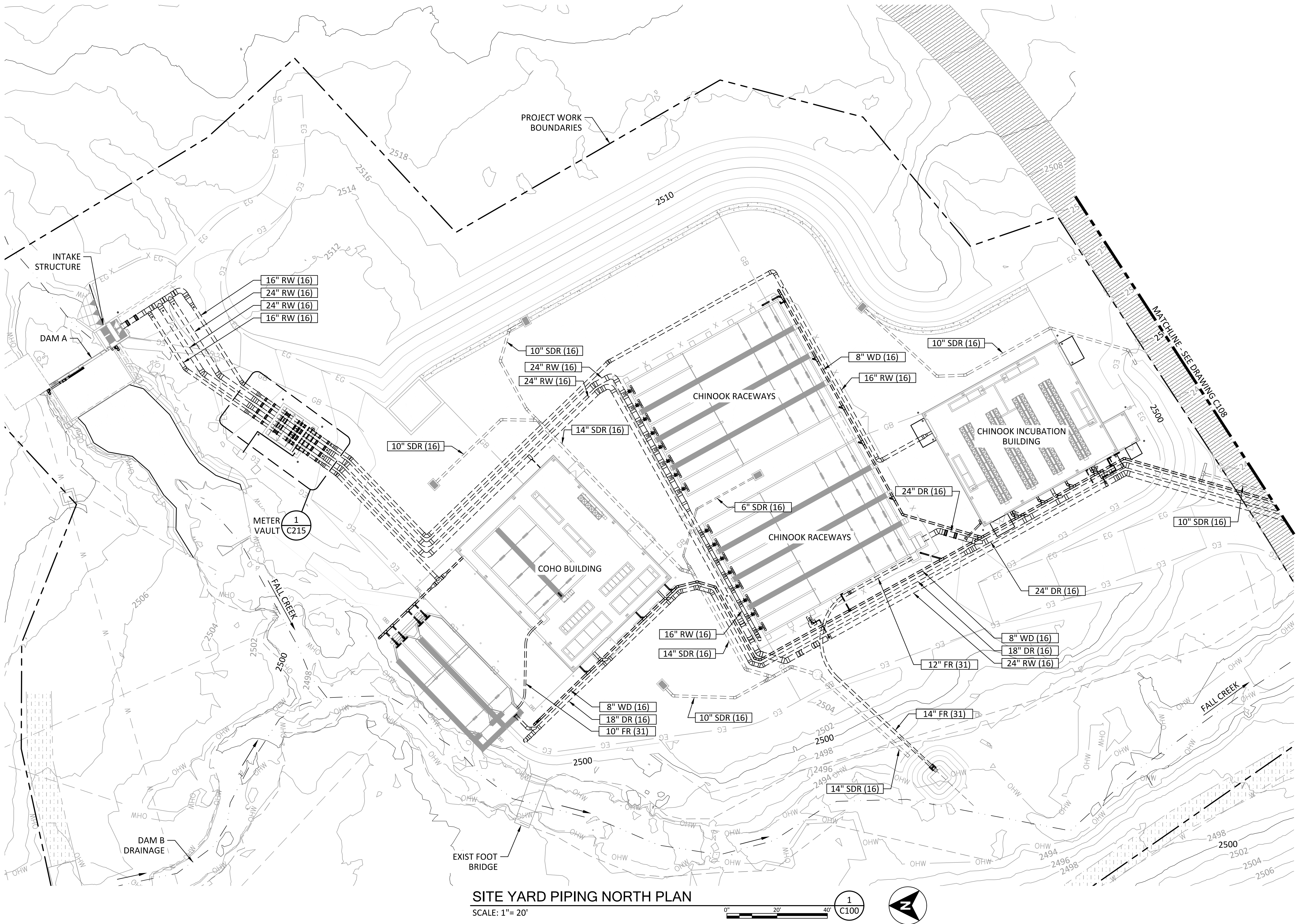
WARNING

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



KLAMATH RIVER RENEWAL CORPORATION		DESIGNED <u>A. LEMAN</u>	DRAWING C106
FALL CREEK FISH HATCHERY		DRAWN <u>J. LAHMON</u>	
SITE RESTORATION SOUTH PLAN		CHECKED <u>V. AUTIER</u>	
		PROJECT DATE <u>10/28/20</u>	

- SHEET NOTES:
- INTERIOR PIPING NOT SHOWN ON THIS SHEET FOR CLARITY. SEE MECHANICAL FOR ALL INTERIOR PLUMBING AND PIPING.



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



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

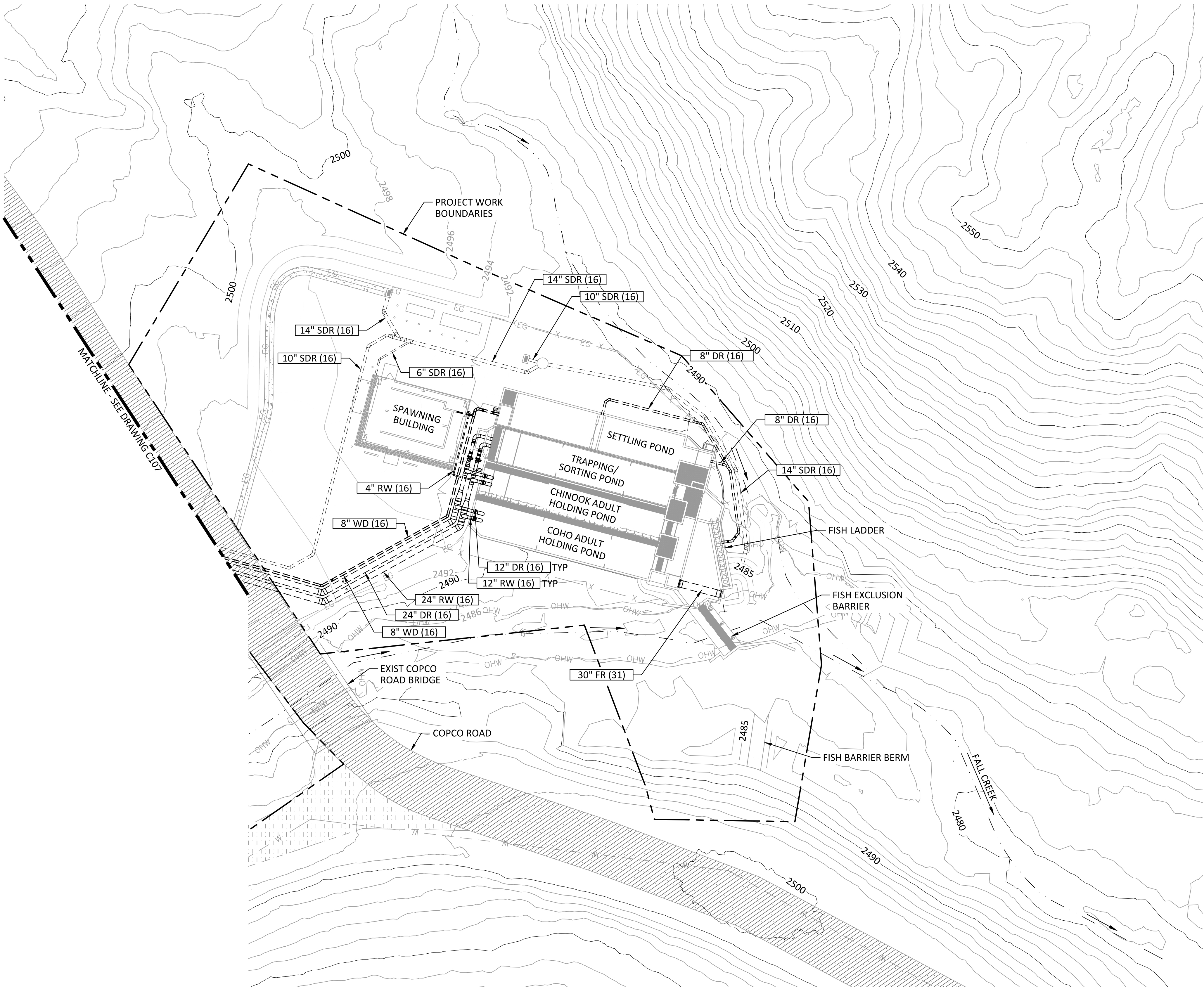
SITE YARD PIPING
NORTH PLAN

DESIGNED A. LEMAN
DRAWN R. GUERRERO
CHECKED V. AUTIER
PROJECT DATE 10/28/20

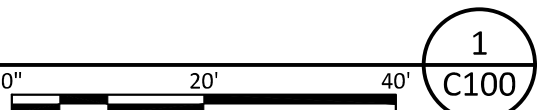
DRAWING

C107

- SHEET NOTES:
- INTERIOR PIPING NOT SHOWN ON THIS SHEET FOR CLARITY. SEE MECHANICAL FOR ALL INTERIOR PLUMBING AND PIPING.



SITE YARD PIPING SOUTH PLAN
SCALE: 1"= 20'



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



WARNING

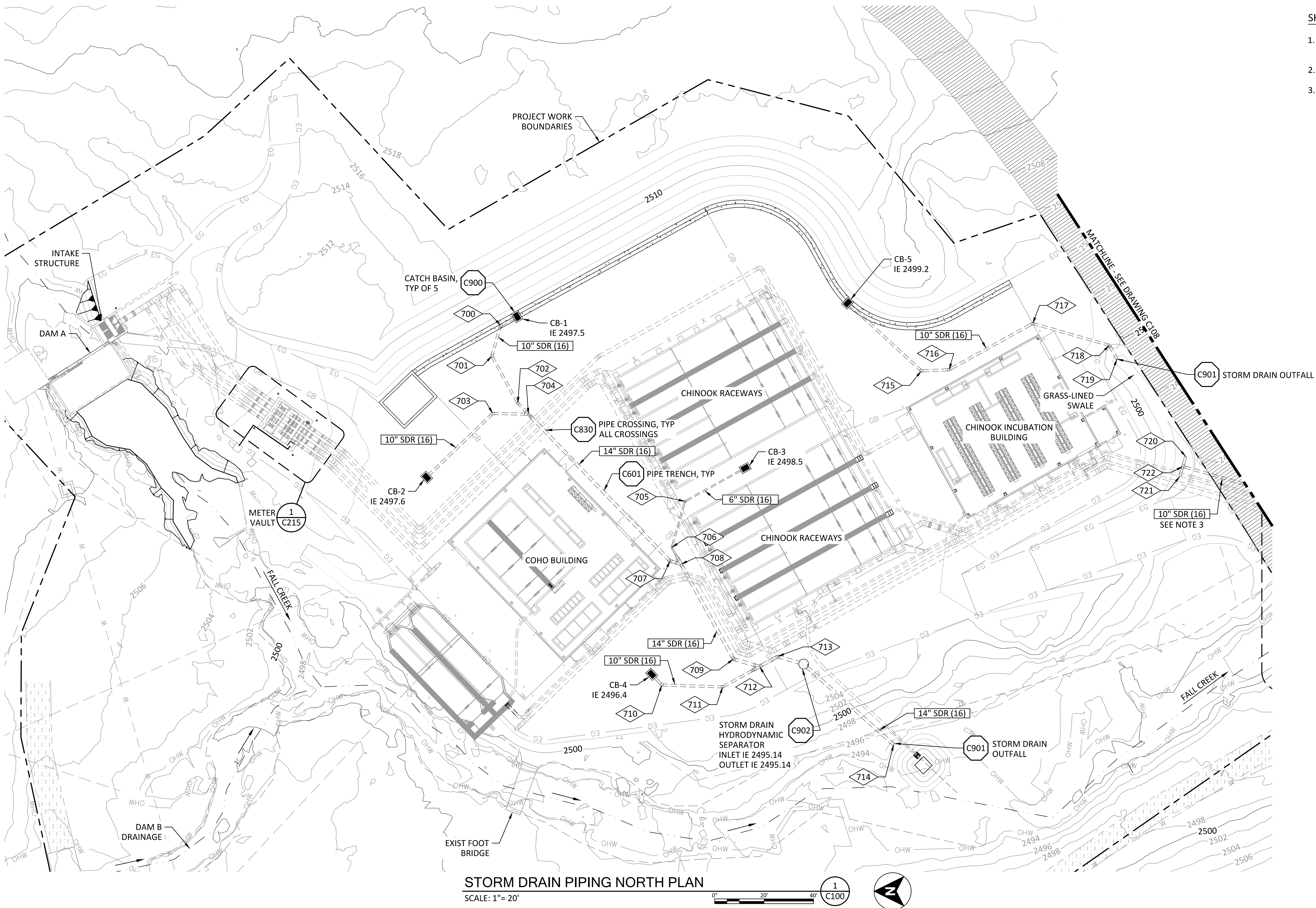
0 1/2 1

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



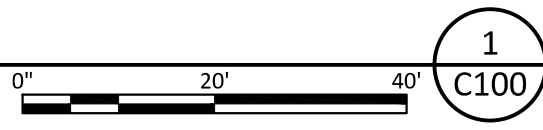
KLAMATH RIVER RENEWAL CORPORATION		DESIGNED <u>A. LEMAN</u>	DRAWING C108
FALL CREEK FISH HATCHERY		DRAWN <u>R.GUERRERO</u>	
SITE YARD PIPING SOUTH PLAN		CHECKED <u>V. AUTIER</u>	
		PROJECT DATE <u>10/28/20</u>	

- SHEET NOTES:
1. FOR PIPING CONTROL POINTS COORDINATES AND ELEVATIONS, SEE SHEET GC008. BETWEEN PIPING CONTROL POINTS, MAINTAIN CONSISTENT GRADE.
 2. ALL STORM DRAIN PIPES SHALL HAVE MINIMUM 2.0' COVER OVER THE CROWN OF THE PIPE.
 3. PIPE MATERIAL (16) IN DRAIN ROCK SUMP SHALL BE PERFORATED ACCORDING TO THE AASHTO M278/ASTM F758 PATTERN WITH 3/8" HOLES AT A SPACING OF 3" (±1/4").



STORM DRAIN PIPING NORTH PLAN

SCALE: 1" = 20'



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



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

STORM DRAIN PIPING
NORTH PLAN

DESIGNED A. LEMAN

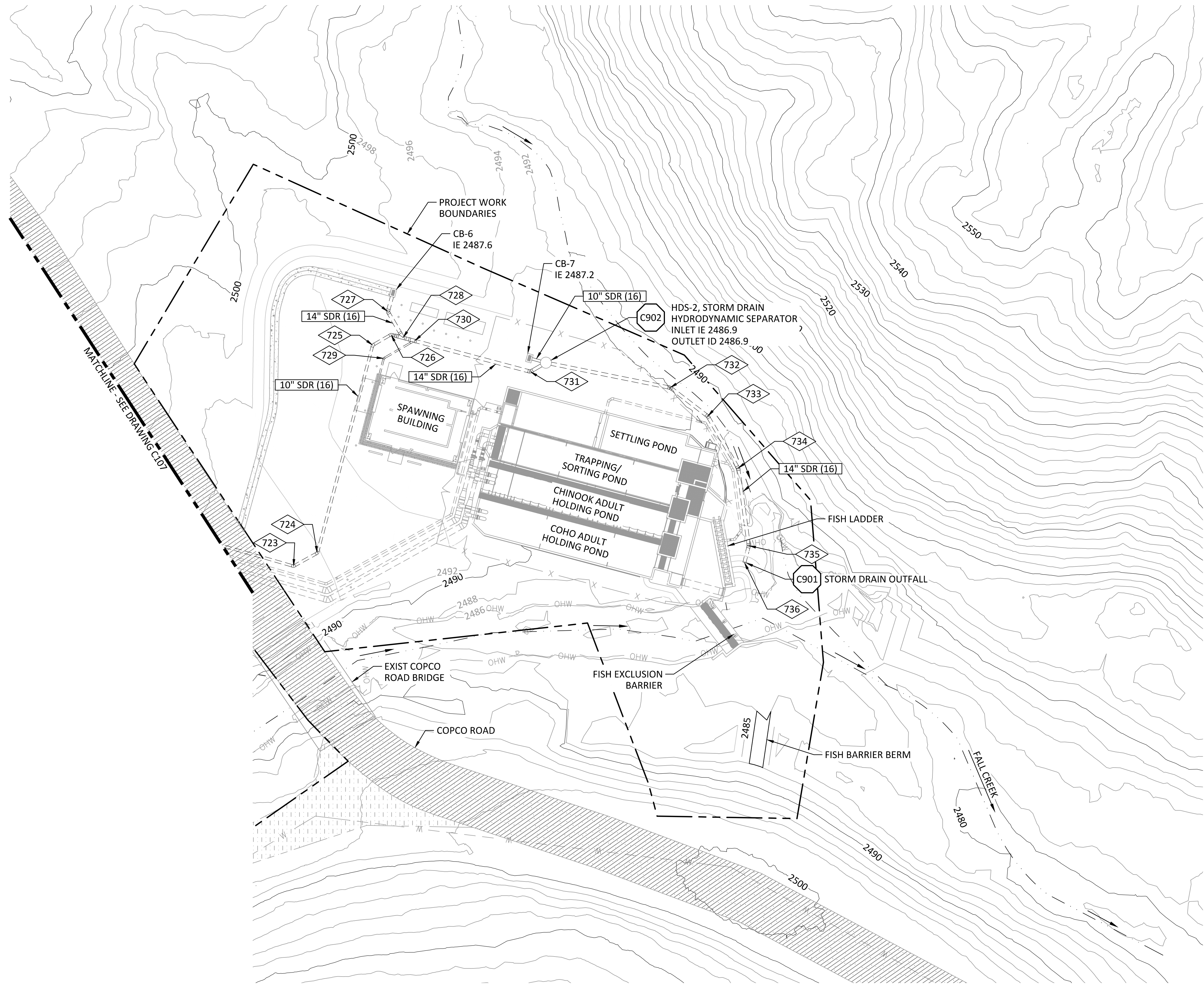
DRAWN R. GUERRERO

CHECKED V. AUTIER

PROJECT DATE 10/28/20

DRAWING

C109



- SHEET NOTES:**
1. FOR PIPING CONTROL POINTS COORDINATES AND ELEVATIONS, SEE SHEET GC008. BETWEEN PIPING CONTROL POINTS, MAINTAIN CONSISTENT GRADE.
 2. ALL STORM DRAIN PIPES SHALL HAVE MINIMUM 2.0' COVER OVER THE CROWN OF THE PIPE.

STORM DRAIN PIPING SOUTH PLAN
SCALE: 1"= 20'

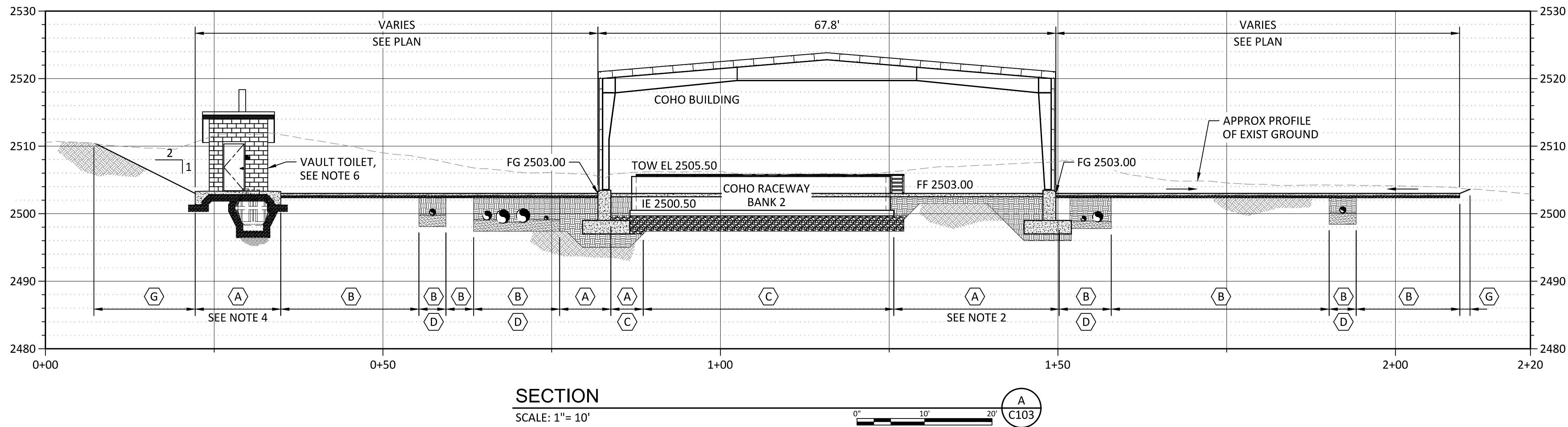
REV	DATE	BY	DESCRIPTION
0	10/28/20	MDM	ISSUED FOR CONSTRUCTION



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

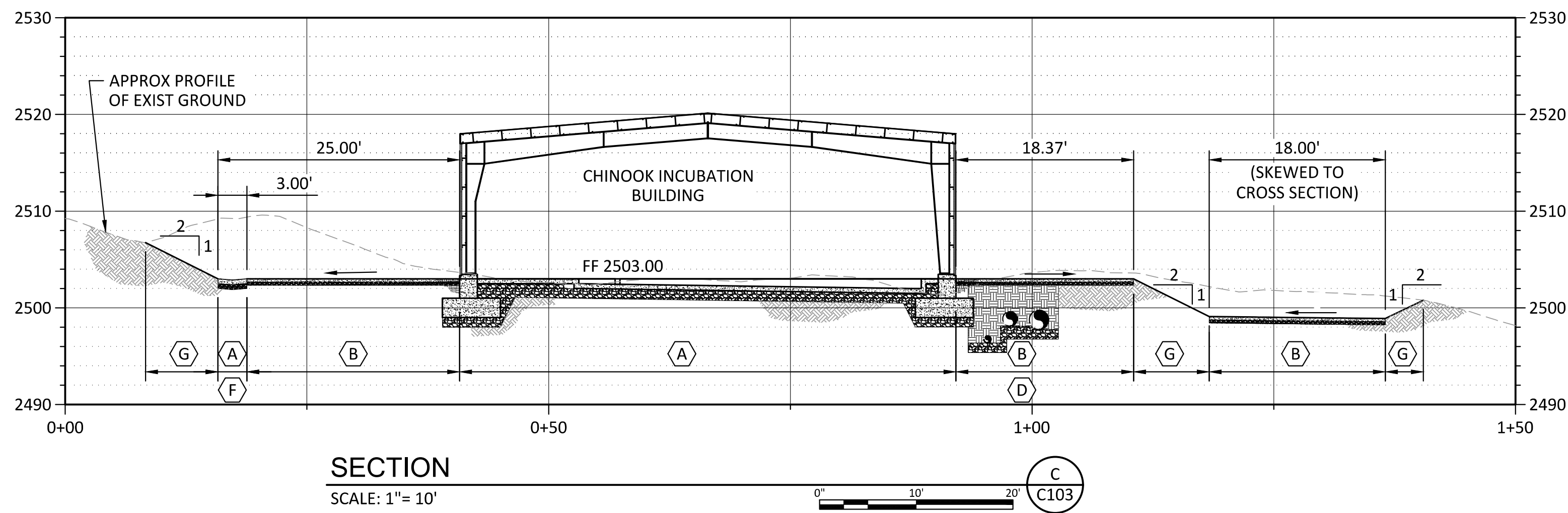
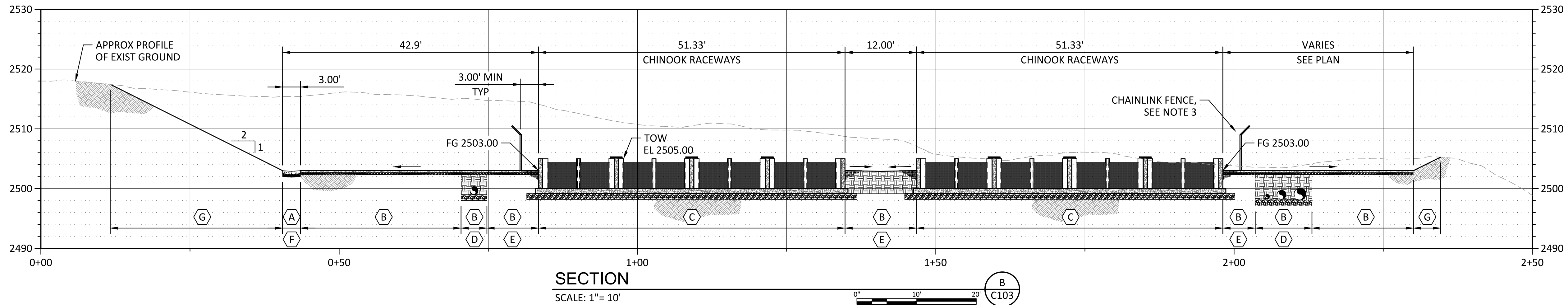


KLAMATH RIVER RENEWAL CORPORATION		DESIGNED <u>A. LEMAN</u>	DRAWING C110
FALL CREEK FISH HATCHERY		DRAWN <u>R. GUERRERO</u>	
STORM DRAIN PIPING SOUTH PLAN		CHECKED <u>V. AUTIER</u>	
		PROJECT DATE <u>10/28/20</u>	

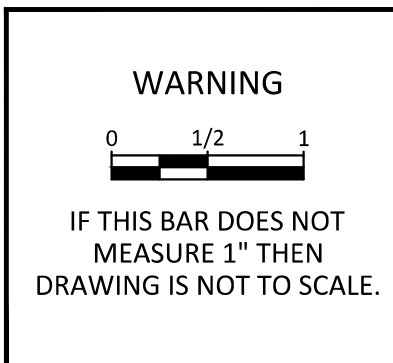


- SHEET NOTES:**
- ALL FILL MATERIALS AND PLACEMENT/COMPACTION REQUIREMENTS ARE DEFINED IN SPECIFICATION 31 00 00.
 - WHERE BUILDING SUBGRADE AND POND SUBGRADE (EXTENDED 3.0' BEYOND LIMITS) OVERLAP, PLACE NON-WOVEN GEOTEXTILE BETWEEN ANY SF FILL AND DRG FILL, AND WRAP GEOTEXTILE DOWN AROUND EDGES OF DRG FILL.
 - PREDATOR NETTING NOT SHOWN FOR CLARITY. PREDATOR NETTING WILL BE ATTACHED TO THE CHAIN LINK FENCE AT THE CHINOOK RACEWAY EDGES.
 - AT VAULT TOILET, PLACE BEDDING FILL AS INDICATED UNDER CONC SLAB AND UNDER AND AROUND UNDERGROUND VAULT. FOR ALL FINISHED GROUND SLOPES, SEE THE GRADING PLANS. PAD GRADING TO DRAIN TO CATCH BASINS, CONCRETE SWALES, OR DRAINAGE SUMPS ACCORDING TO THE GRADING PLANS.
 - VAULT TOILET CONC PAD TO BE SET A MINIMUM OF 3" ABOVE THE FINISHED GRADE. WHERE CUT SLOPES ENCOUNTER THE PAD, PROVIDE POSITIVE DRAINAGE TO ADJACENT CONC SWALE.
 - VAULT TOILET SHALL BE A VENDOR PACKAGE IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS.

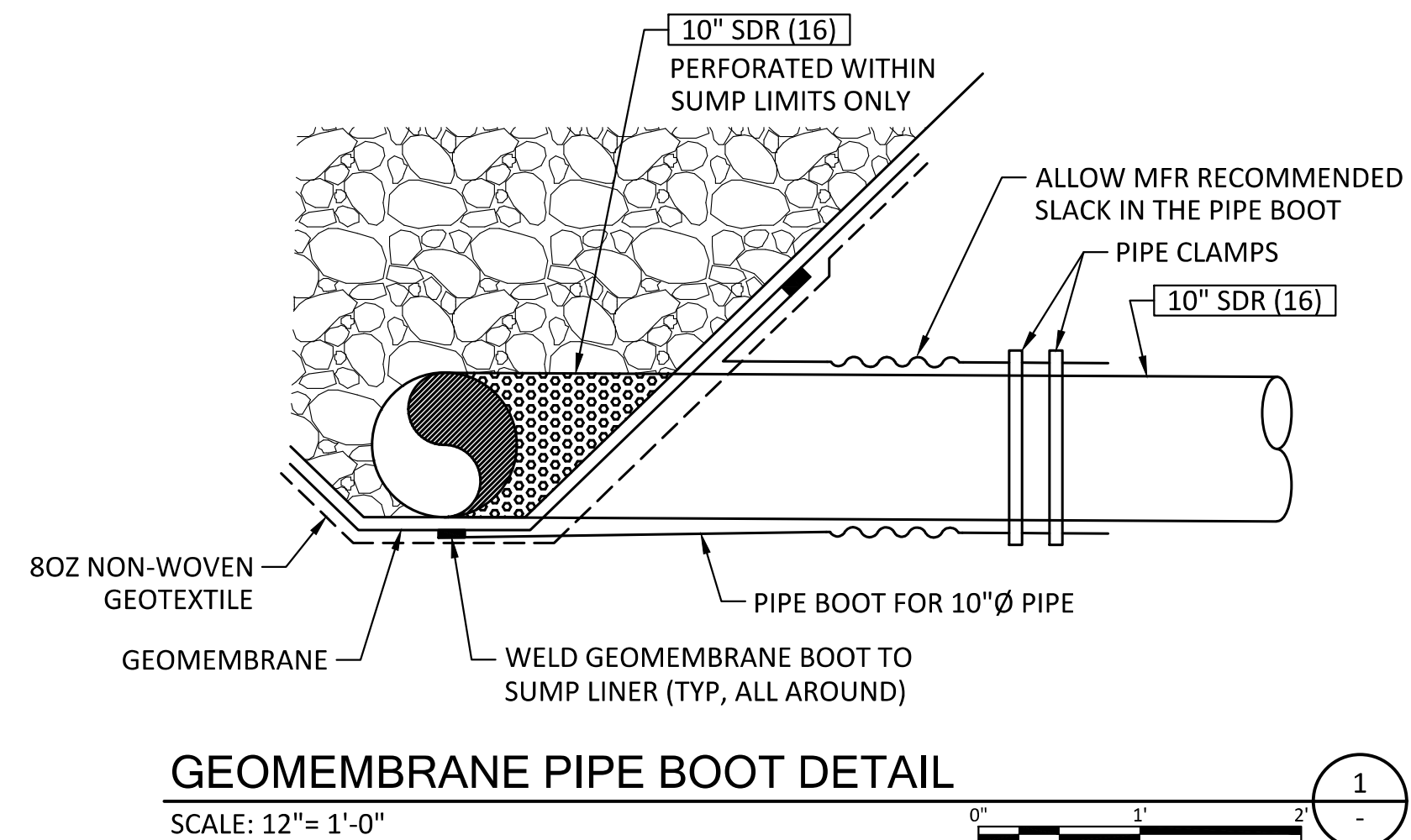
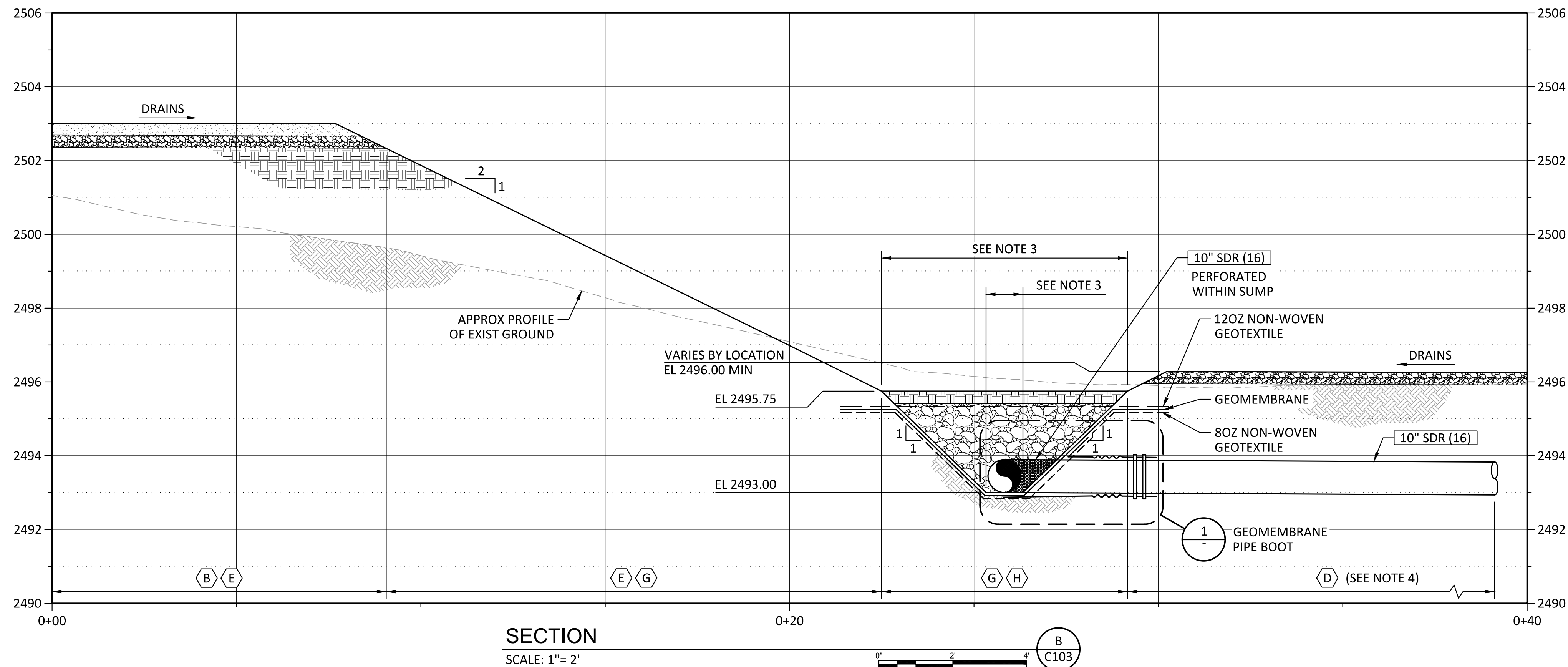
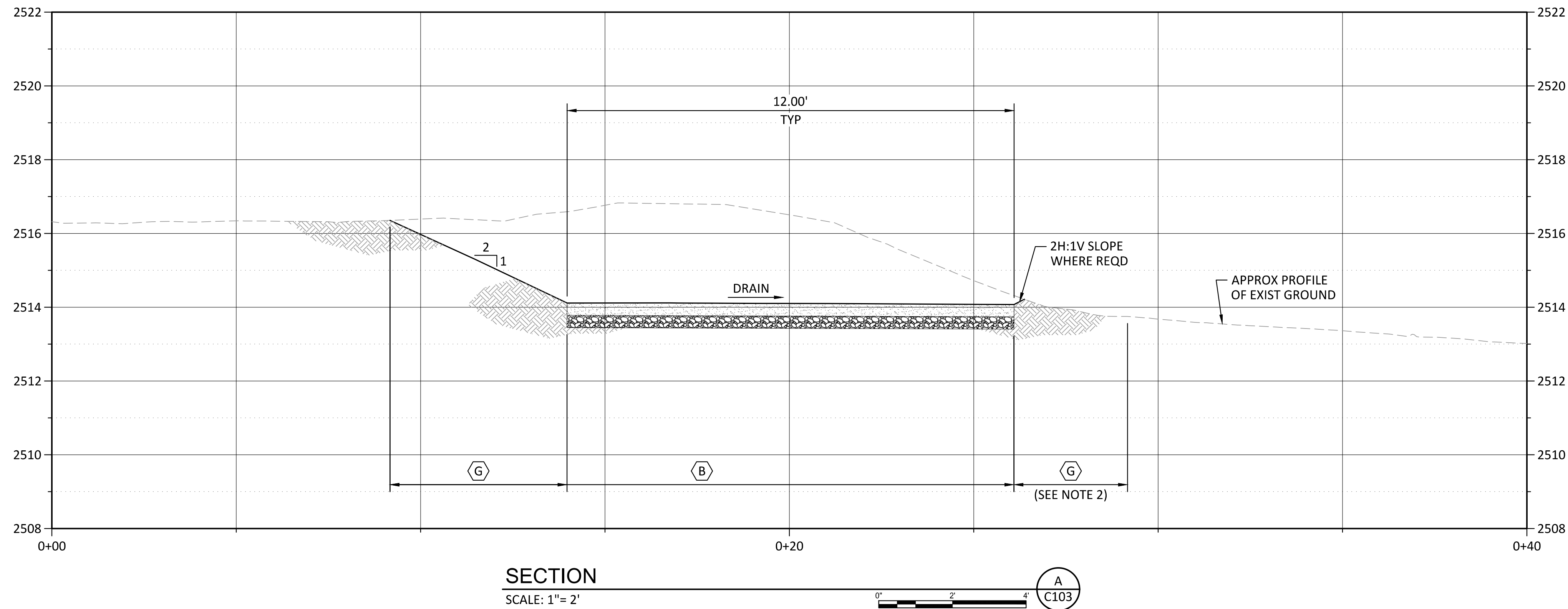
- SHEET KEY NOTES:**
- A 18" THICK TYPE SF FILL UNDER BUILDING FOOTINGS, AND 6" THICK TYPE SF FILL UNDER SLABS. EXTEND BEYOND 18" ALL SIDES.
 - B GENERAL GRAVEL SURFACING PER C103.
 - C 6" THICK TYPE DRG FILL UNDER POND SLABS AND WATER RETAINING STRUCTURES, EXTEND BEYOND 3.0' ALL SIDES.
 - D PIPE TRENCH PER C601.
 - E BACKFILL WITH TYPE SF OR TYPE C FILL.
 - F CONCRETE LINED SWALE TO CATCH BASIN / STORM DRAIN SYSTEM.
 - G PLACE FINAL 6" WITH TOPSOIL AND REVEGETATE.
 - H TYPE DRC FILL IN DRAIN ROCK SUMP, LINED WITH GEOMEMBRANE ALONG THE BOTTOM AND SIDES. OVERLAY SUMP WITH 12OZ NON-WOVEN GEOTEXTILE. EXTEND BOTH GEOTEXTILE AND GEOMEMBRANE 1.0' BEYOND THE LIMITS OF THE SUMP.



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



KLAMATH RIVER RENEWAL CORPORATION		DESIGNED	A. LEMAN	DRAWING C111
FALL CREEK FISH HATCHERY		DRAWN	J. LAHMON	
SITE CIVIL SECTIONS 1		CHECKED	V. AUTIER	
		PROJECT DATE	10/28/20	



SHEET NOTES:

- ALL FILL MATERIALS AND PLACEMENT/COMPACTION REQUIREMENTS ARE DEFINED IN SPECIFICATION 31.00.00.
- IN AREA OF EXISTING ROAD, TIE ROAD SURFACING TO EXISTING. DO NOT REVEGETATE IN AREAS OF EXISTING GRAVEL ROAD SURFACING.
- SUMP DIMENSIONS WILL VARY BY LOCATION BASED ON SLOPES FROM NORTH PAD. MAINTAIN SUFFICIENT BOTTOM WIDTH FOR PERFORATED PIPE. SEE STORM DRAIN NORTH PLAN FOR PIPE DETAILS.
- EXISTING COPCO ASPHALT DEMOLISHED AS PART OF THE PIPE TRENCH EXCAVATION TO BE REPLACED ACCORDING TO C134.

SHEET KEY NOTES:

- A 18" THICK TYPE SF FILL UNDER BUILDING FOOTINGS, AND 6" THICK TYPE SF FILL UNDER SLABS. EXTEND BEYOND 18" ALL SIDES.
- B GENERAL GRAVEL SURFACING PER C135.
- C 6" THICK TYPE DRG FILL UNDER POND SLABS AND WATER RETAINING STRUCTURES, EXTEND BEYOND 3.0' ALL SIDES.
- D PIPE TRENCH PER C601.
- E BACKFILL WITH TYPE SF OR TYPE C FILL.
- F CONCRETE LINED SWALE TO CATCH BASIN / STORM DRAIN SYSTEM.
- G PLACE FINAL 6" WITH TOPSOIL AND REVEGETATE.
- H TYPE DRC FILL IN DRAIN ROCK SUMP, LINED WITH GEOMEMBRANE ALONG THE BOTTOM AND SIDES. OVERLAY SUMP WITH 12OZ NON-WOVEN GEOTEXTILE. EXTEND BOTH GEOTEXTILE AND GEOMEMBRANE 1.0' BEYOND THE LIMITS OF THE SUMP.

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



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

SITE CIVIL
SECTIONS 2

DESIGNED A. LEMAN
DRAWN J. LAHMON
CHECKED V. AUTIER
PROJECT DATE 10/28/20

DRAWING

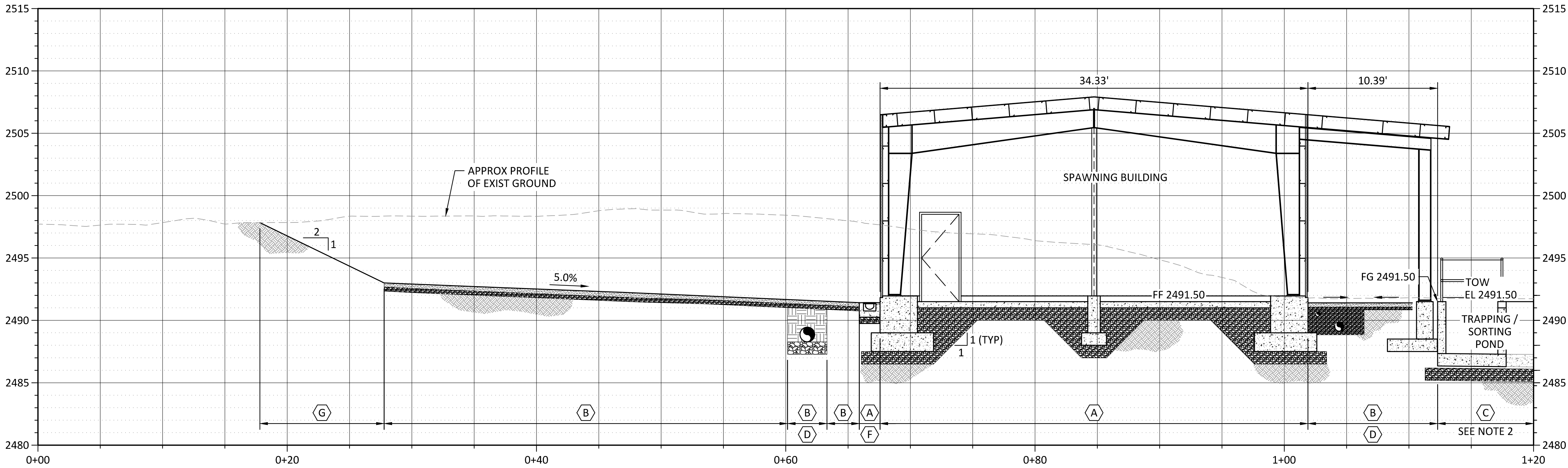
C112

SHEET NOTES:

- ALL FILL MATERIALS AND PLACEMENT/COMPACTION REQUIREMENTS ARE DEFINED IN SPECIFICATION 31.00.00.
- ONLY A PORTION OF THE EXISTING LOWER RACEWAY BANK SLAB WILL BE REPLACED. SEE DEMO SHEETS FOR DETAILS.
- FOR ALL FINISHED GROUNDS LOPES, SEE THE GRADING PLANS. PAD GRADING TO DRAIN TO CATCH BASINS, CONC SWALES OR DRAINAGE SUMPS ACCORDING TO THE GRADING PLANS.

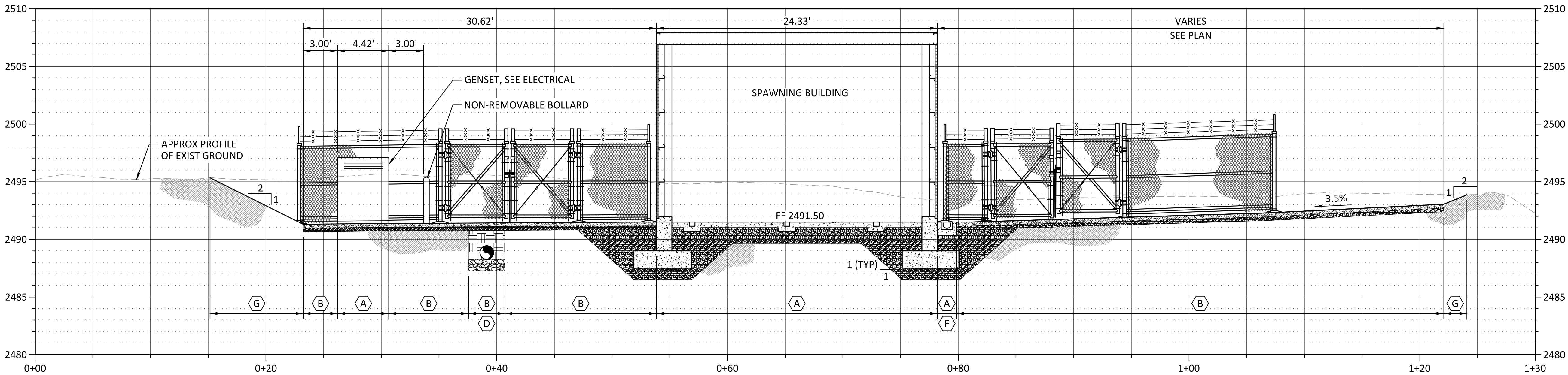
SHEET KEY NOTES:

- A 18" THICK TYPE SF FILL UNDER BUILDING FOOTINGS, AND 6" THICK TYPE SF FILL UNDER SLABS. EXTEND BEYOND 18" ALL SIDES.
- B GENERAL GRAVEL SURFACING PER C135.
- C 6" THICK TYPE DRG FILL UNDER POND SLABS AND WATER RETAINING STRUCTURES, EXTEND BEYOND 3.0' ALL SIDES.
- D PIPE TRENCH PER C601.
- E BACKFILL WITH TYPE SF OR TYPE C FILL.
- F EXTERIOR TRENCH DRAIN PER C904.
- G PLACE FINAL 6" WITH TOPSOIL AND REVEGETATE.
- H TYPE DRC FILL IN DRAIN ROCK SUMP, LINED WITH GEOMEMBRANE ALONG THE BOTTOM AND SIDES. OVERLAY SUMP WITH 12OZ NON-WOVEN GEOTEXTILE. EXTEND BOTH GEOTEXTILE AND GEOMEMBRANE 1.0' BEYOND THE LIMITS OF THE SUMP.



SECTION

SCALE: 1"= 5'



SECTION

SCALE: 1"= 5'

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



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



KLAMATH RIVER RENEWAL CORPORATION

FALL CREEK FISH HATCHERY

SITE CIVIL
SECTIONS 3

DESIGNED A. LEMAN

DRAWN J. LAHMON

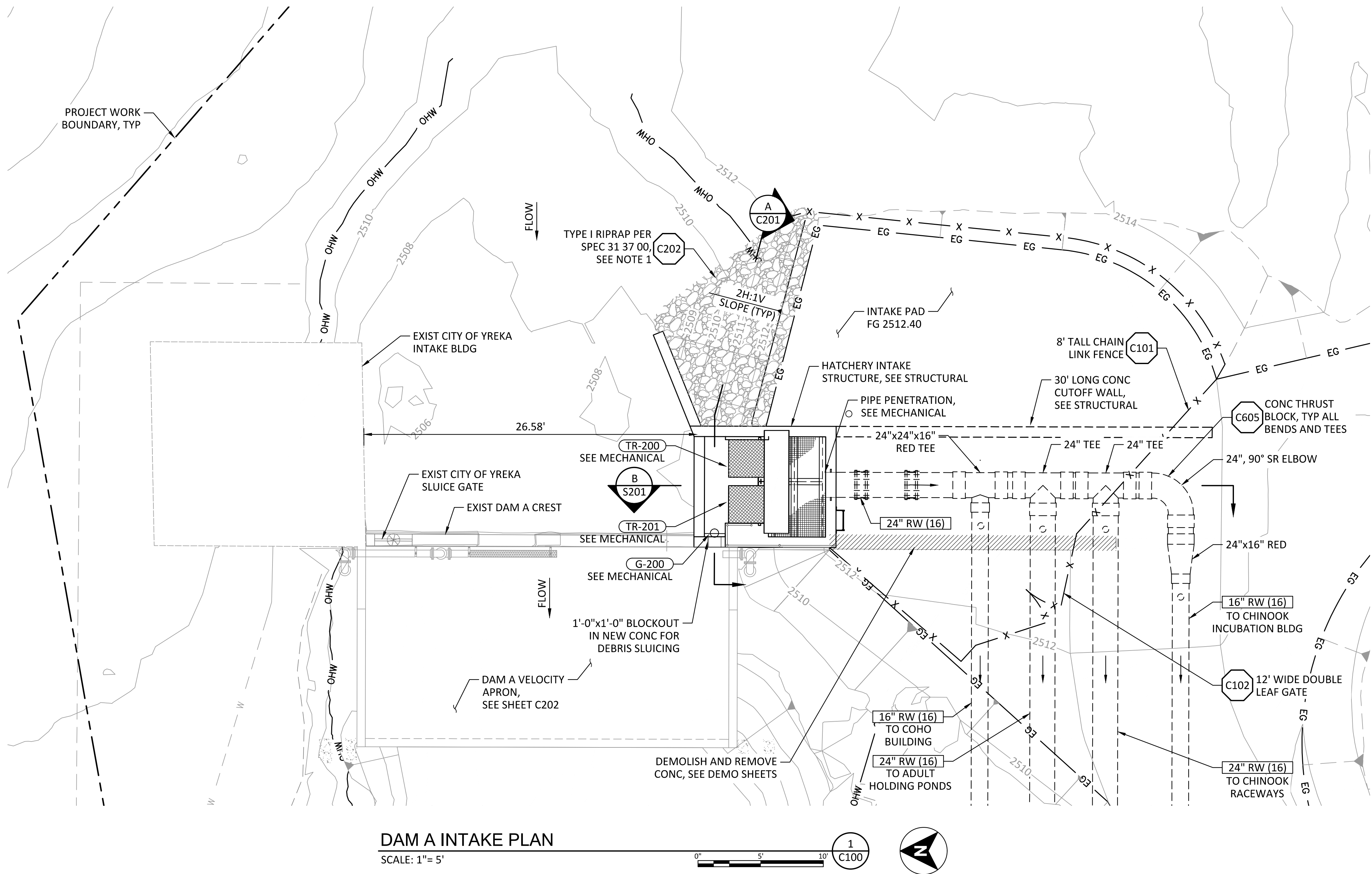
CHECKED V. AUTIER

PROJECT DATE 10/28/20

DRAWING

C113

- SHEET NOTES:
1. LARGE DIAMETER ROCK IS AVAILABLE ON-SITE FROM THE NORTH PAD GRADING. IF ROCK IS ABLE TO BE AMENDED TO MEET SPECIFICATION 31 37 00, IT MAY BE USED IN THIS LOCATION FOR RIPRAP. EXTEND RIPRAP LINING A MINIMUM OF 3.0 FEET BEYOND CONSTRUCTED SLOPE LIMITS.
 2. SEE MECHANICAL FOR ALL GATES AND EQUIPMENT.



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



WARNING

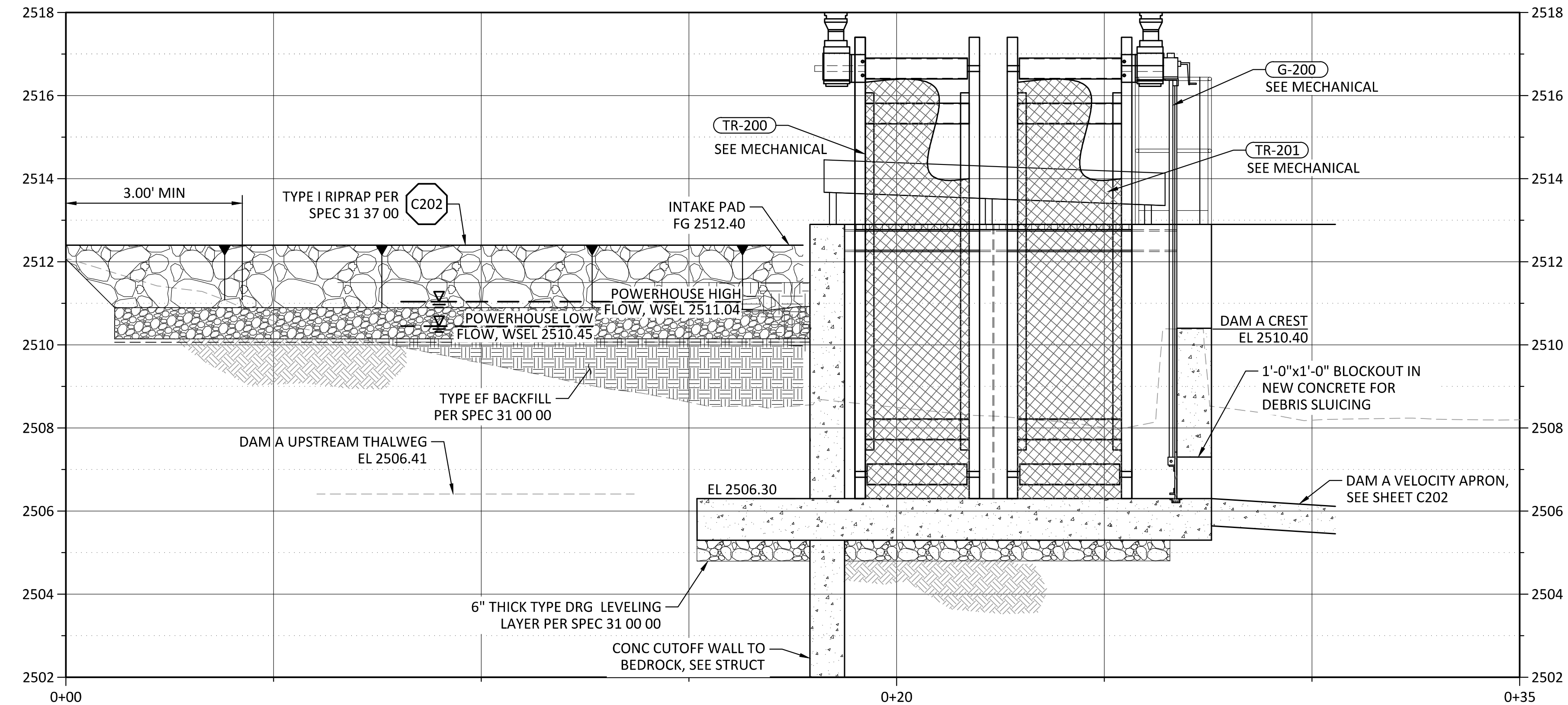
0 1/2 1

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



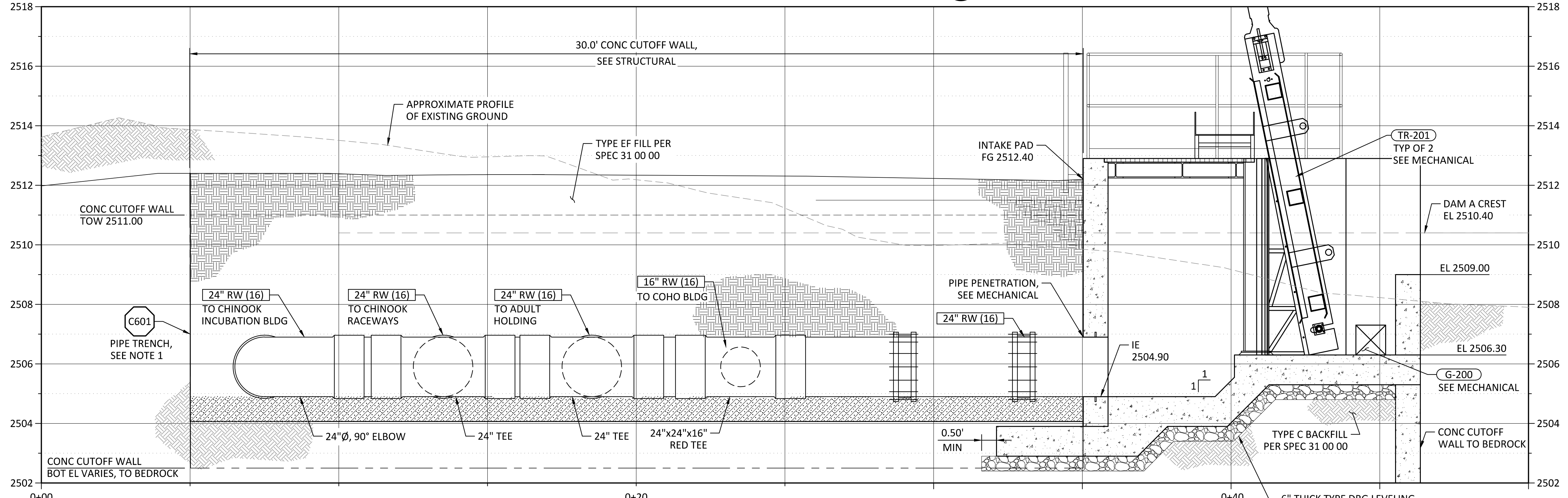
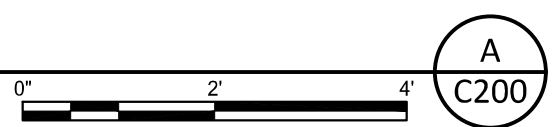
KLAMATH RIVER RENEWAL CORPORATION		DESIGNED <u>A. LEMAN</u>	DRAWING C200
FALL CREEK FISH HATCHERY		DRAWN <u>J. LAHMON</u>	
DAM A INTAKE PLAN		CHECKED <u>V. AUTIER</u>	
		PROJECT DATE <u>10/28/20</u>	

- SHEET NOTES:
- 1. DEMOLISH DAM A CONCRETE PER DEMOLITION SHEETS.
 - 2. ALL EARTHWORKS MATERIALS ARE TO BE PLACED AND COMPACTED ACCORDING TO SPECIFICATION 31 00 00.



SECTION

SCALE: 1"= 2'



SECTION

SCALE: 1"= 2'



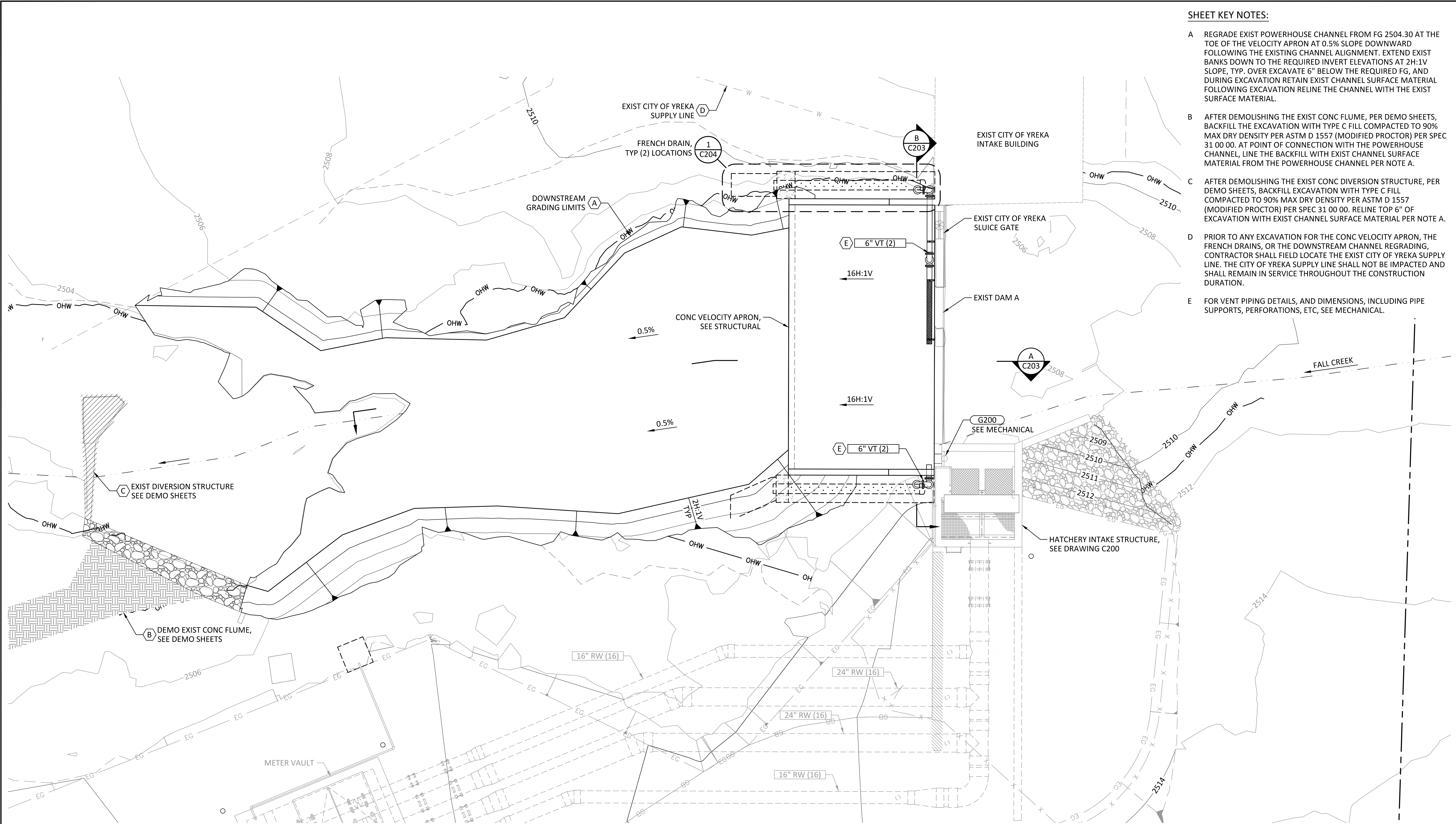
REV	DATE	BY	DESCRIPTION
0	10/28/20	MDM	ISSUED FOR CONSTRUCTION



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

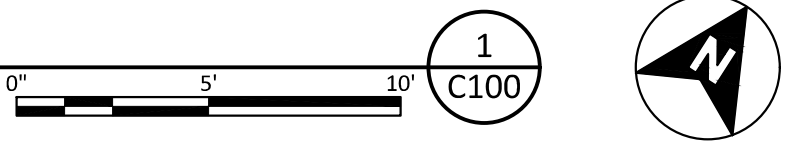


KLAMATH RIVER RENEWAL CORPORATION	DESIGNED <u>A. LEMAN</u>	DRAWING C201
FALL CREEK FISH HATCHERY	DRAWN <u>J. LAHMON</u>	
DAM A INTAKE SECTIONS	CHECKED <u>V. AUTIER</u>	
	PROJECT DATE <u>10/28/20</u>	



- SHEET KEY NOTES:**
- A REGRADE EXIST POWERHOUSE CHANNEL FROM FG 2504.30 AT THE TOE OF THE VELOCITY APRON AT 0.5% SLOPE DOWNWARD FOLLOWING THE EXISTING CHANNEL ALIGNMENT. EXTEND EXIST BANKS DOWN TO THE REQUIRED INVERT ELEVATIONS AT 2H:1V SLOPE, TYP. OVER EXCAVATE 6" BELOW THE REQUIRED FG, AND DURING EXCAVATION RETAIN EXIST CHANNEL SURFACE MATERIAL FOLLOWING EXCAVATION RELINE THE CHANNEL WITH THE EXIST SURFACE MATERIAL.
 - B AFTER DEMOLISHING THE EXIST CONC FLUME, PER DEMO SHEETS, BACKFILL THE EXCAVATION WITH TYPE C FILL COMPACTED TO 90% MAX DRY DENSITY PER ASTM D 1557 (MODIFIED PROCTOR) PER SPEC 31 00 00. AT POINT OF CONNECTION WITH THE POWERHOUSE CHANNEL, LINE THE BACKFILL WITH EXIST CHANNEL SURFACE MATERIAL FROM THE POWERHOUSE CHANNEL PER NOTE A.
 - C AFTER DEMOLISHING THE EXIST CONC DIVERSION STRUCTURE, PER DEMO SHEETS, BACKFILL EXCAVATION WITH TYPE C FILL COMPACTED TO 90% MAX DRY DENSITY PER ASTM D 1557 (MODIFIED PROCTOR) PER SPEC 31 00 00. RELINE TOP 6" OF EXCAVATION WITH EXIST CHANNEL SURFACE MATERIAL PER NOTE A.
 - D PRIOR TO ANY EXCAVATION FOR THE CONC VELOCITY APRON, THE FRENCH DRAINS, OR THE DOWNSTREAM CHANNEL REGRAIDING, CONTRACTOR SHALL FIELD LOCATE THE EXIST CITY OF YREKA SUPPLY LINE. THE CITY OF YREKA SUPPLY LINE SHALL NOT BE IMPACTED AND SHALL REMAIN IN SERVICE THROUGHOUT THE CONSTRUCTION DURATION.
 - E FOR VENT PIPING DETAILS, AND DIMENSIONS, INCLUDING PIPE SUPPORTS, PERFORATIONS, ETC, SEE MECHANICAL.

DAM A MODIFICATIONS PLAN
SCALE: 1"= 5'



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



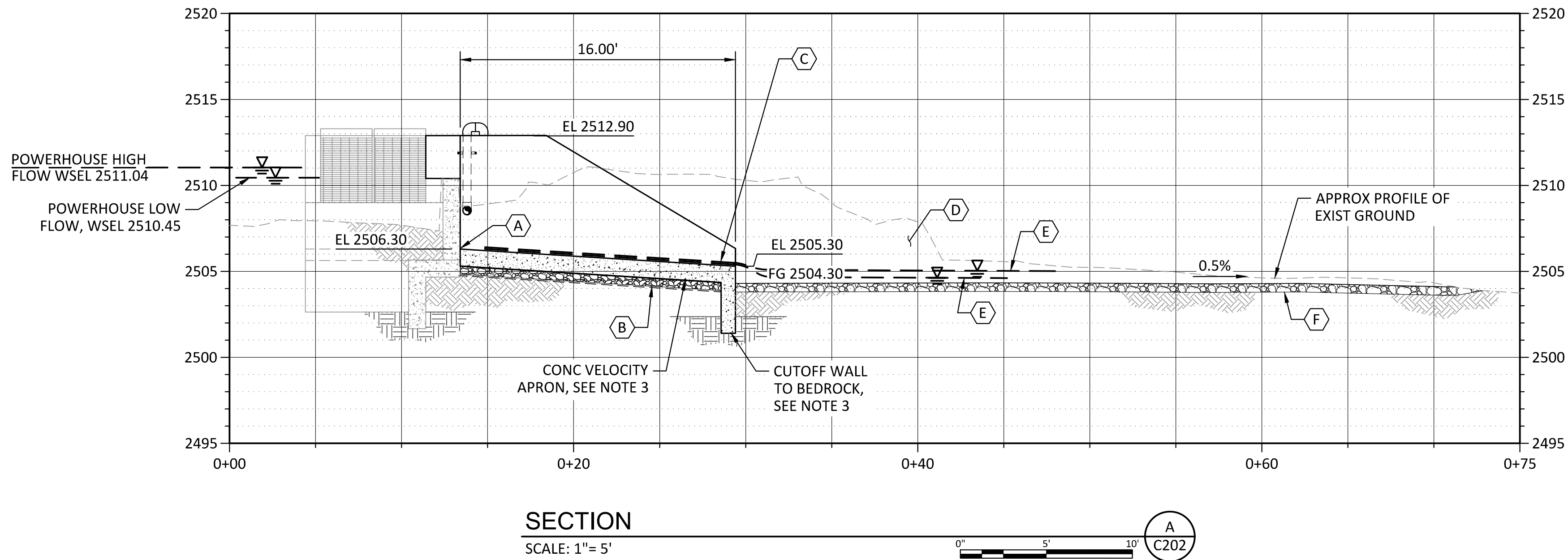
WARNING

0 1/2 1

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



KLAMATH RIVER RENEWAL CORPORATION		DESIGNED <u>A. LEMAN</u>	C202
FALL CREEK FISH HATCHERY		DRAWN <u>J. LAHMON</u>	
DAM A MODIFICATIONS PLAN		CHECKED <u>V. AUTIER</u>	
		PROJECT DATE <u>10/28/20</u>	



SHEET NOTES:

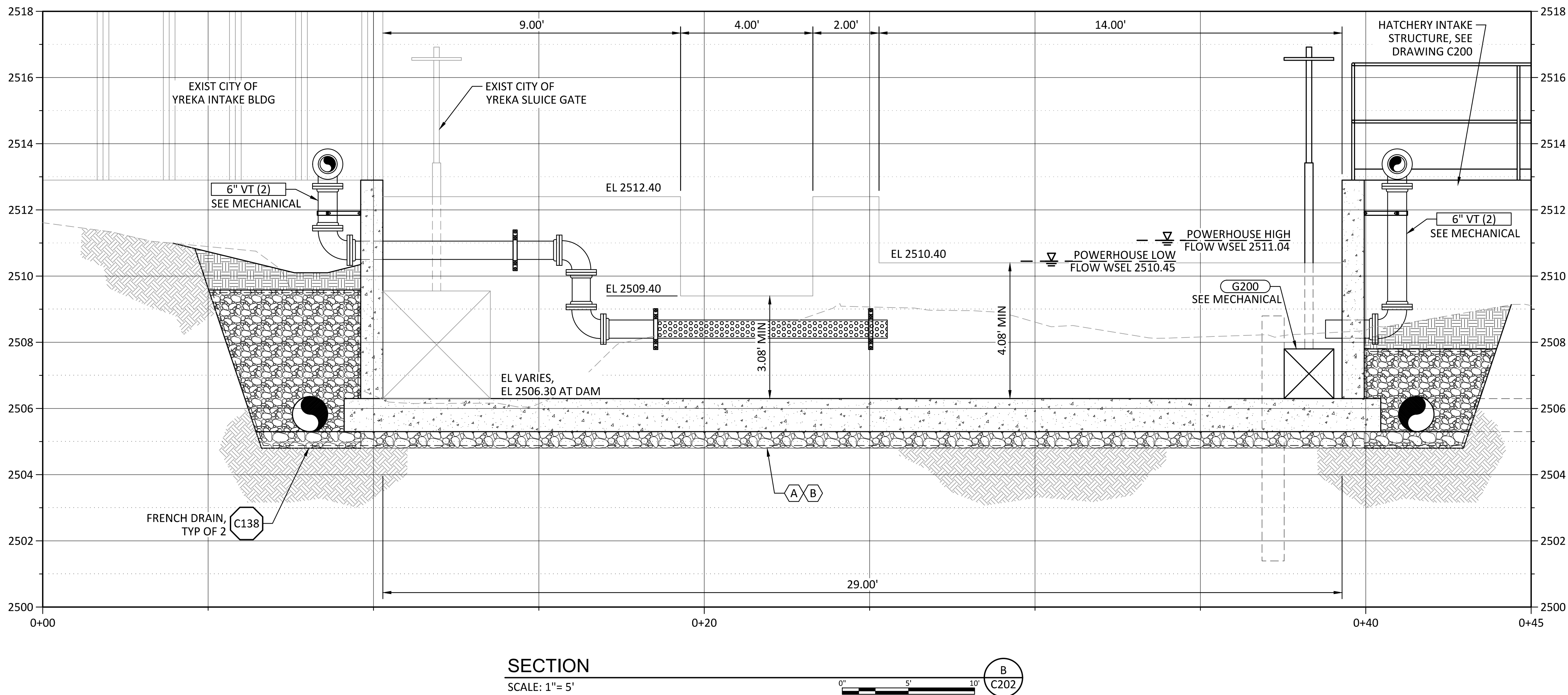
- ALL EARTHWORKS MATERIALS ARE TO BE PLACED AND COMPACTED ACCORDING TO SPECIFICATION 31 00 00.
- EXIST DAM A DIMENSIONS ARE BASED ON AS-BUILT DATA PROVIDED BY THE CITY OF YREKA, BUT MAY BE SUBJECT TO SOME VARIATION. PRIOR TO DEVELOPMENT OF SHOP DRAWINGS, CONTRACTOR TO CONFIRM ALL EXISTING DIMENSIONS OF DAM. IF DIMENSIONS VARY SIGNIFICANTLY FROM THOSE REPORTED, CONTRACTOR TO COORDINATE WITH THE OWNER AND ENGINEER.
- FOR CONC VELOCITY APRON DETAILS AND DIMENSIONS, INCLUDING CONNECTIONS TO DAM A, WALL THICKNESS, WALL PENETRATIONS, ETC, SEE STRUCTURAL. FOR VENT PIPING DETAILS AND DIMENSIONS, INCLUDING PIPE SUPPORTS, PERFORATIONS, ETC, SEE MECHANICAL.

SHEET KEY NOTES:

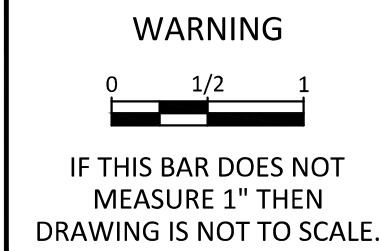
- A** HAND EXCAVATION WILL BE REQUIRED WITHIN THE FOOTPRINT OF DAM A AND THE DAM A FOOTING, AS INDICATED IN THE STRUCTURAL DRAWINGS. IN ACCORDANCE WITH NOTE 2 ABOVE AND THE UNCERTAINTY ASSOCIATED WITH THE AS-BUILT DRAWINGS, THE CONTRACTOR SHALL EXERCISE CAUTION DURING EXCAVATION OUTSIDE OF THESE LIMITS TO ENSURE THAT THE DAM A CONC FOOTING IS NOT IMPACTED.
- B** OVER EXCAVATE 6" BELOW THE BOTTOM OF THE CONC VELOCITY APRON, PLACE AND COMPACT 6" THICK TYPE DRG LEVELING LAYER WITH 12oz NON-WOVEN GEOTEXTILE UNDERLAY PER SPEC 31 00 00 AND 31 05 19. AT EDGE OF STRUCTURE, TIE-IN THE LEVELING LAYER TO THE DRAIN ROCK OF THE TWO PERIPHERAL FRENCH DRAINS. IF OVER EXCAVATION OCCURS BELOW THE TYPE DRG LEVELING LAYER, BACKFILL TO 6" BELOW THE BOTTOM OF THE STRUCTURE WITH TYPE C FILL COMPACTED TO MIN 90% MAX DRY DENSITY PER ASTM D 1557 (MODIFIED PROCTOR). IF BEDROCK IS ENCOUNTERED AT OR ABOVE THE ELEVATION OF THE 6-INCH OVEREXCAVATION, CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY AND AWAIT DIRECTION.
- C** THE EXPECTED FLOW CONDITIONS ON THE CONC VELOCITY APRON ARE SUMMARIZED BELOW:
POWERHOUSE HIGH FLOW (50 CFS)
FLOW DEPTH: 2.4"
FLOW VELOCITY: 8.5 FT/S

POWERHOUSE LOW FLOW (15 CFS)
FLOW DEPTH: 1.2"
FLOW VELOCITY: 5.3 FT/S
- D** DOWNSTREAM OF DAM A, THE SITE SURVEY INDICATES THAT THERE EXISTS A MOUND OF MATERIAL. IT IS EXPECTED THAT THIS HIGH POINT IN THE SURVEY REPRESENTS SEDIMENT THAT HAS ACCUMULATED IN THE CHANNEL OVER TIME. AS PART OF THE EXCAVATION FOR THE CONC VELOCITY APRON AND DOWNSTREAM CHANNEL, THIS MATERIAL WILL NEED TO BE EXCAVATED AND DISPOSED OF OFF-SITE. THE REQUIRED EXCAVATION OF THIS ACCUMULATED MATERIAL IS EXPECTED TO BE APPROXIMATELY 85 CY (IN ADDITION TO THE CHANNEL REGRADING EARTHWORKS VOLUME).
- E** THE EXPECTED FLOW CONDITIONS IN THE REGRADED CHANNEL IMMEDIATELY DOWNSTREAM OF THE VELOCITY APRON ARE SUMMARIZED BELOW:
POWERHOUSE HIGH FLOW (50 CFS)
FLOW DEPTH: 7.0"
FLOW VELOCITY: 2.4 FT/S

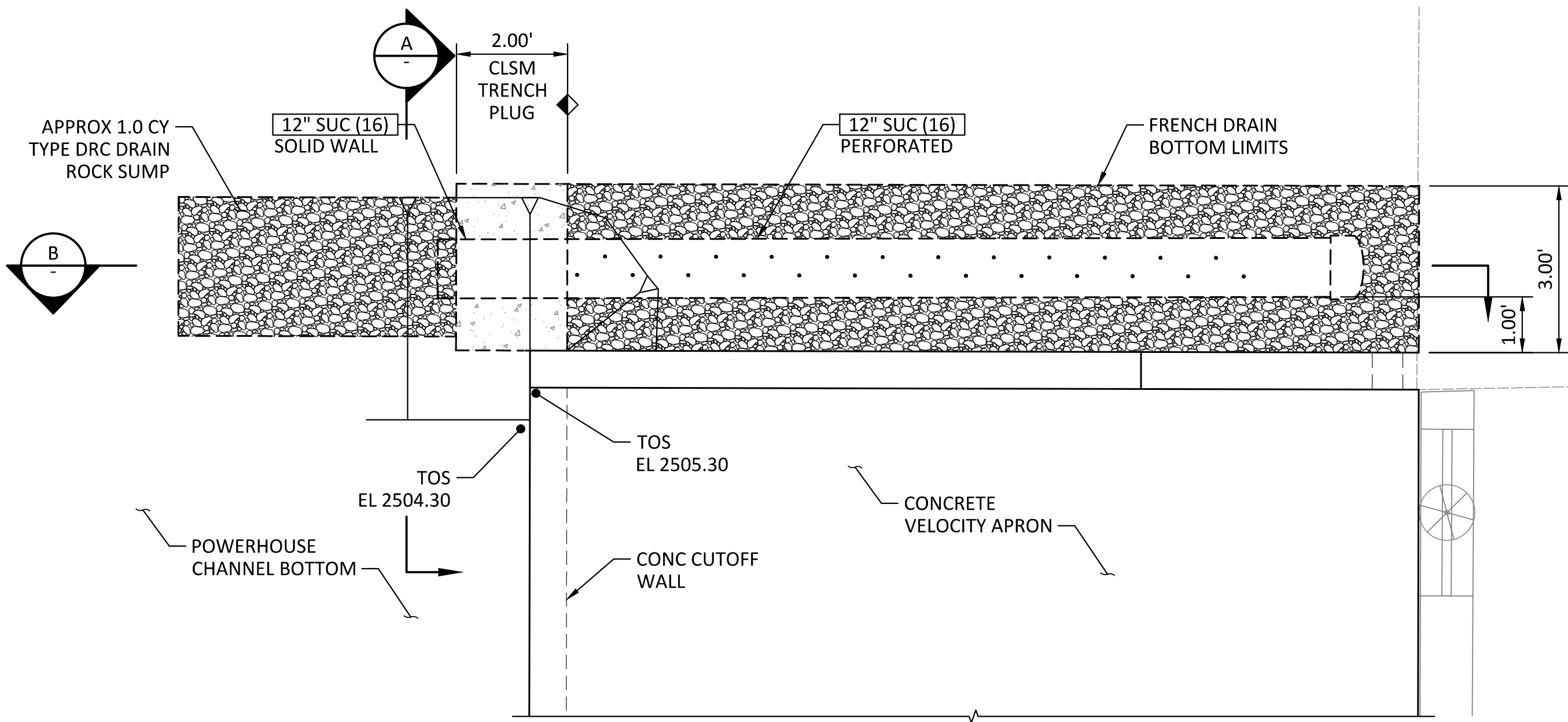
POWERHOUSE LOW FLOW (15 CFS)
FLOW DEPTH: 3.4"
FLOW VELOCITY: 1.5 FT/S
- F** DURING EXCAVATION RETAIN SEPARATELY THE SURFACE MATERIAL FROM THE EXIST POWERHOUSE CHANNEL. OVER EXCAVATE TO 6" MIN BELOW THE FINISHED GRADE ELEVATION OF THE CHANNEL, AND BACKFILL WITH THE RETAINED EXIST CHANNEL SURFACE MATERIAL.



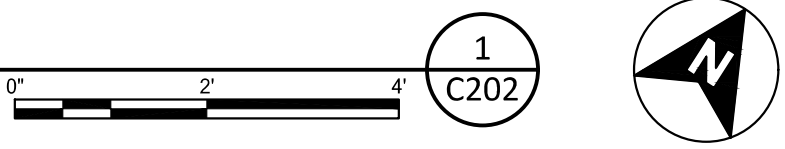
REV	DATE	BY	DESCRIPTION
0	10/28/20	MDM	ISSUED FOR CONSTRUCTION



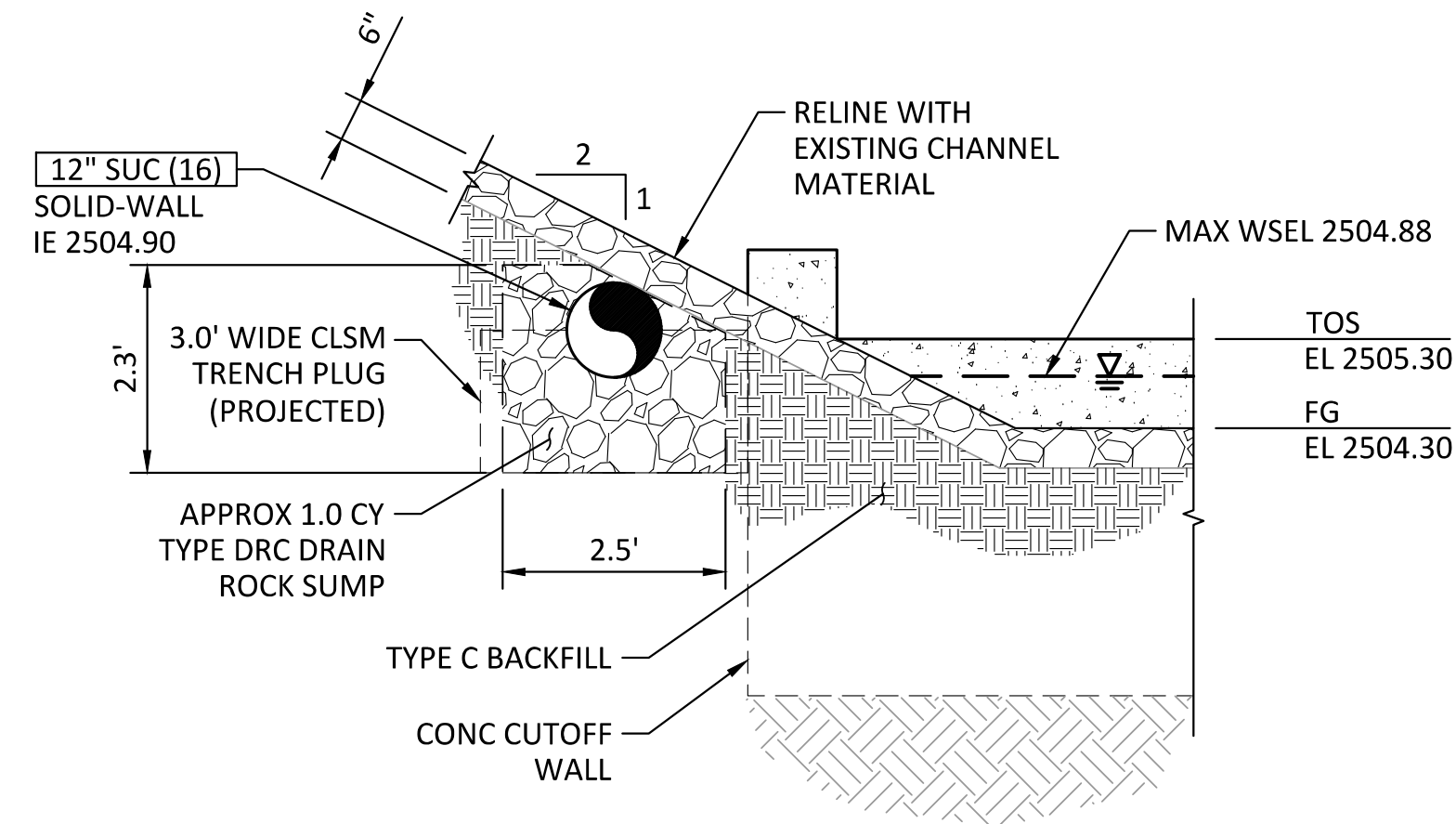
KLAMATH RIVER RENEWAL CORPORATION		DESIGNED	A. LEMAN	DRAWING C203
FALL CREEK FISH HATCHERY		DRAWN	J. LAHMON	
DAM A MODIFICATIONS SECTIONS		CHECKED	V. AUTIER	
		PROJECT DATE	10/28/20	



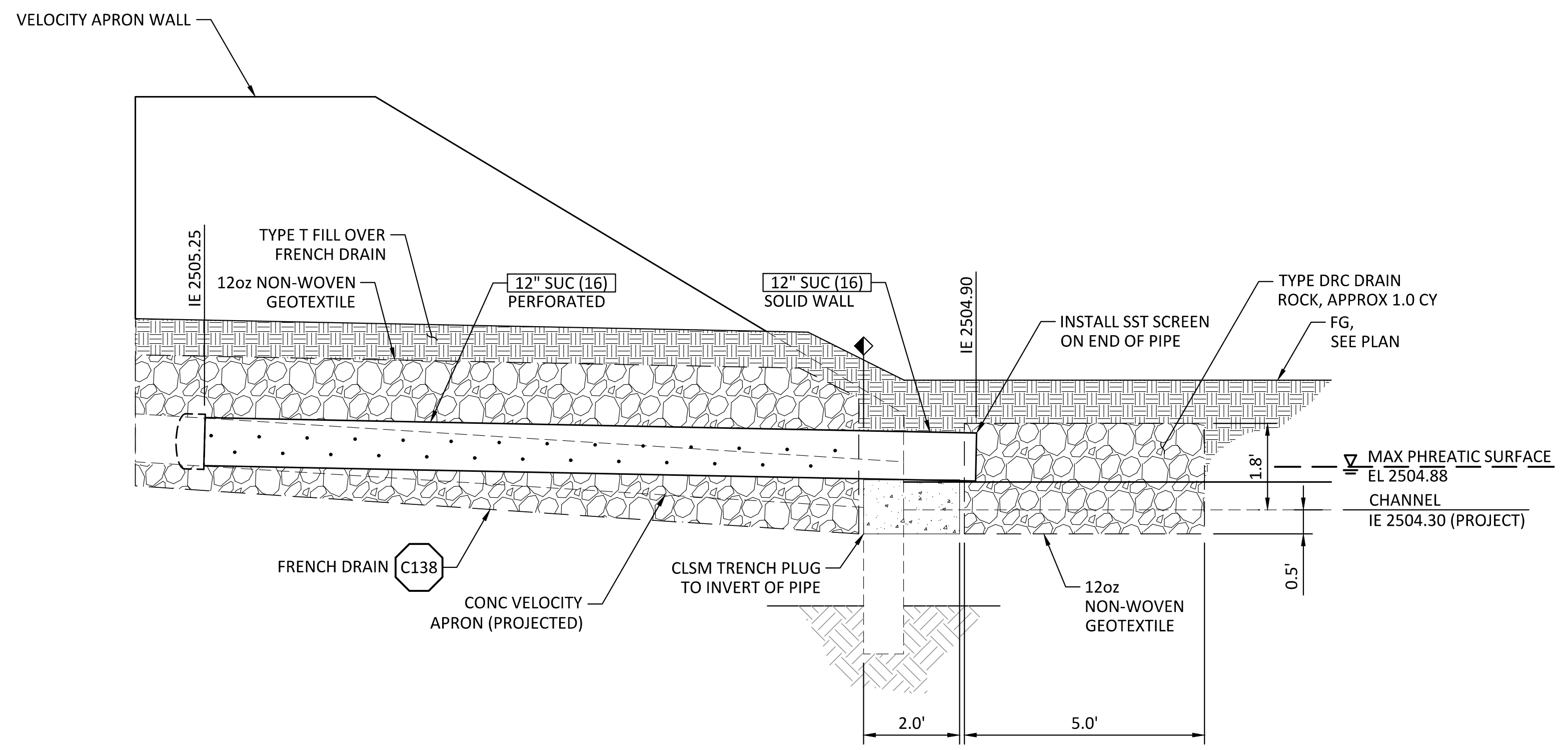
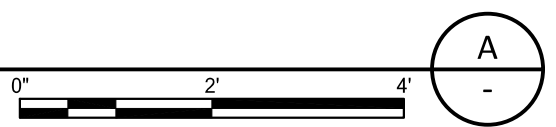
TYPICAL FRENCH DRAIN PLAN
SCALE: 1"= 2'



- SHEET NOTES:**
1. FRENCH DRAIN DETAIL AND SECTIONS TYPICAL OF BOTH SIDES OF THE DAM A CONC VELOCITY APRON. CONFIGURATION TO BE MIRRORED ON OPPOSITE SIDE OF APRON.
 2. ALL EARTHWORKS MATERIALS ARE TO BE PLACED AND COMPACTED ACCORDING TO SPECIFICATION 31 00 00.
 3. ALL NON-WOVEN GEOTEXTILE TO BE OVERLAPPED A MINIMUM OF 1.0' AT SEAMS. CARE SHALL BE TAKEN DURING STORAGE, PLACEMENT, AND COMPACTION OF DRAIN ROCK MATERIALS THAT DRAIN ROCK IS NOT CONTAMINATED WITH FINE MATERIALS OR EXISTING SOILS. AFTER PLACEMENT AND COMPACTION (AS SPECIFIED) DRAIN ROCK IS TO BE IMMEDIATELY COVERED WITH GEOTEXTILE PRIOR TO FINAL BACKFILL.
 4. IF SEEPAGE AT THE DAM IS ENCOUNTERED DURING CONSTRUCTION OF THE FRENCH DRAINS, CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER.



SECTION
SCALE: 1"= 2'



SECTION
SCALE: 1"= 2'



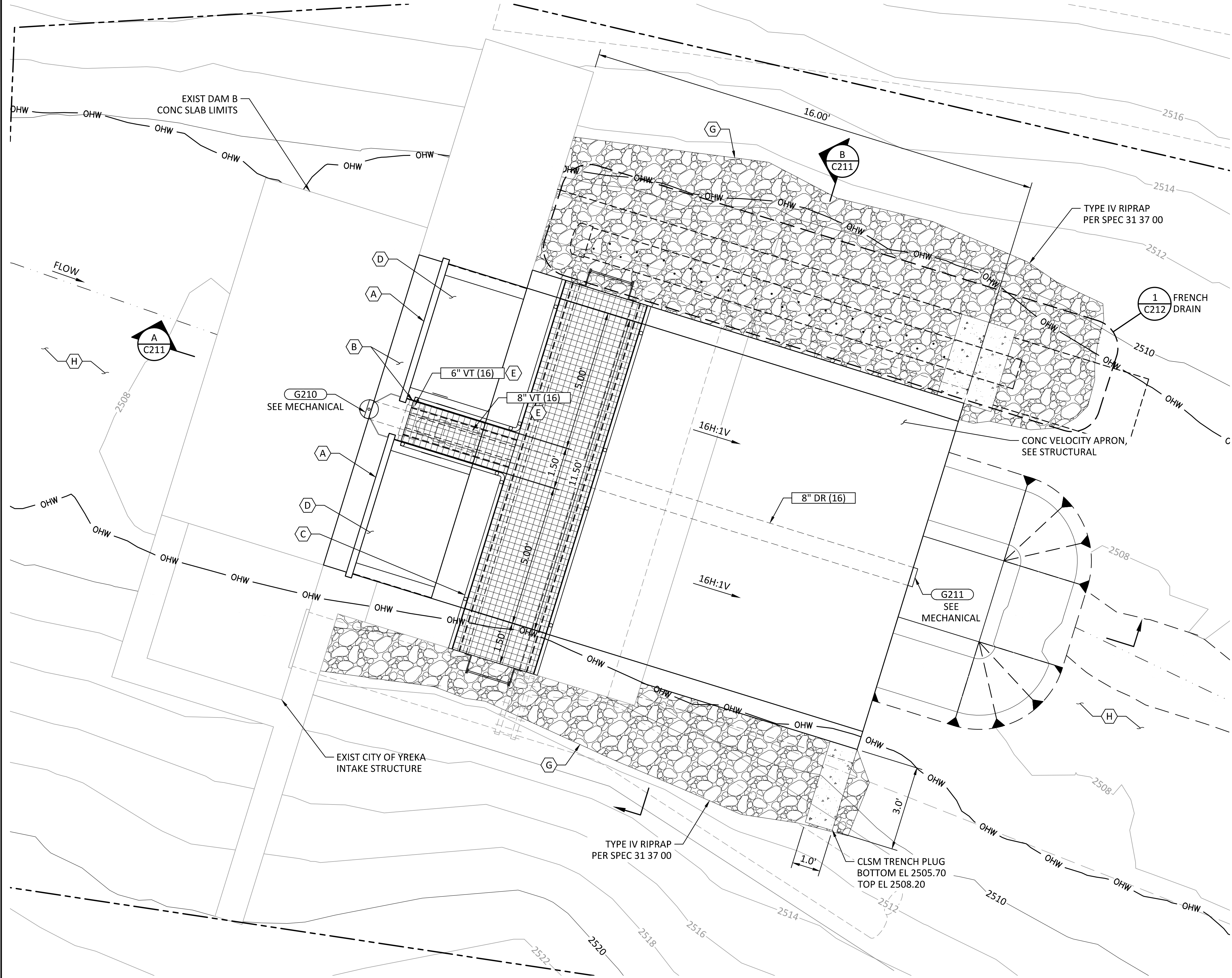
REV	DATE	BY	DESCRIPTION
0	10/28/20	MDM	ISSUED FOR CONSTRUCTION



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



KLAMATH RIVER RENEWAL CORPORATION		DESIGNED <u>A. LEMAN</u>	DRAWING C204
FALL CREEK FISH HATCHERY		DRAWN <u>J. LAHMON</u>	
DAM A FRENCH DRAIN SECTIONS AND DETAILS		CHECKED <u>V. AUTIER</u>	
		PROJECT DATE <u>10/28/20</u>	



DAM B MODIFICATIONS PLAN
SCALE: 1"= 2'

SHEET NOTES:

- ALL EARTHWORKS MATERIALS ARE TO BE PLACED AND COMPACTED ACCORDING TO SPECIFICATION 31 00 00.
- EXISTING DAM B DIMENSIONS ARE BASED ON AS-BUILT DATA PROVIDED BY THE CITY OF YREKA, BUT MAY BE SUBJECT TO SOME VARIATION. PRIOR TO DEVELOPMENT OF SHOP DRAWINGS, CONTRACTOR TO CONFIRM ALL EXISTING DIMENSIONS OF DAM. IF DIMENSIONS VARY SIGNIFICANTLY FROM THOSE REPORTED, CONTRACTOR TO COORDINATE WITH THE OWNER AND ENGINEER.
- PRIOR TO ANY EXCAVATION FOR THE CONC VELOCITY APRON OR THE ASSOCIATED EARTHWORKS, CONTRACTOR SHALL FIELD LOCATE THE EXIST CITY OF YREKA SUPPLY LINE. THE CITY OF YREKA SUPPLY LINE SHALL NOT BE IMPACTED AND SHALL REMAIN IN SERVICE THROUGHOUT THE CONSTRUCTION DURATION.

SHEET KEY NOTES:

- A FABRICATE NEW STOP LOGS THAT FIT EXISTING STOP LOG GUIDE SLOTS, SEE STRUCTURAL FOR DETAILS.
- B EXISTING CENTER PIER TO BE DEMOLISHED. CONC TO BE PLACED TO RAISE INVERT ELEVATION OF STOP LOG SLOT TO EL 2509.25 FOR ENTIRE WIDTH OF DAM B. 8" DR PIPE TO BE CAST THROUGH THE MASS CONC, AND CENTRAL PIER TO BE RECONSTRUCTED OVER NEW MASS CONC. SEE STRUCTURAL FOR ALL CONC DETAILS INCLUDING CONC BASE, NEW CENTRAL PIER, AND CONNECTIONS TO EXIST CONC.
- C INSTALL NEW WALKWAY ACROSS DAM B, FOR ACCESS TO GATE AND STOP LOGS, SEE STRUCTURAL.
- D FABRICATE (2) NAPPE EXTENSION FITTINGS FOR PLACEMENT ATOP NEWLY FABRICATED STOP LOGS (SEE 'A' ABOVE). SEE STRUCTURAL FOR DETAILS.
- E CAST VT PIPE IN THE RECONSTRUCTED CENTRAL PIER PER THE SECTIONS ON C211. VT PIPE INLET WILL BE LOCATED ON THE DOWNSTREAM FACE OF THE CONC PIER AT CENTERLINE EL 2512.60, AND THE OUTLETS WILL BE LOCATED EITHER SIDE OF THE PIER AT CENTERLINE EL 2510.75. ALL OPEN ENDS SHALL BE FITTED WITH SST BIRD SCREENS.
- F CREATE 3.0'W x 3.0'L CONC POOL AT FG 2505.70 AROUND OUTLET OF DRAIN PIPE WITH 2H:1V SIDE SLOPES UP TO CHANNEL INVERT, SEE STRUCTURAL FOR DETAILS. ELSEWHERE REGRADE THE DOWNSTREAM CHANNEL FROM IE 2507.25 AT TOE OF CONC VELOCITY APRON DOWNWARD AT 1.0% SLOPE FOLLOWING THE EXIST CREEK ALIGNMENT UNTIL EXIST GRADE IS MET (APPROX 25'). WHERE NOT IN BEDROCK, OVER EXCAVATE 6" BELOW THE REQUIRED INVERT ELEV, AND DURING EXCAVATION RETAIN EXIST CHANNEL SURFACE MATERIAL. FOLLOWING EXCAVATION RELINE THE EXIST CHANNEL WITH 6" THICKNESS OF THE EXIST SURFACE MATERIAL.
- G PLACE 30" THICK LAYER OF TYPE IV RIPRAP PER SPEC 31 37 00 BEHIND WALLS EITHER SIDE OF THE NEW CONC VELOCITY APRON, WITH 12 OZ NON-WOVEN GEOTEXTILE UNDERLAY. WHERE ADJACENT SLOPES ARE BEDROCK, PLACE TO ADJACENT SLOPES. WHERE ADJACENT SLOPES ARE SOIL, EXCAVATE AND LINE 30" THICK LAYER 2.0' UP THE SLOPE.
- H AFTER COMPLETION OF THE WORK IN THIS AREA, BUT PRIOR TO BREACHING OF AND REMOVAL OF COFFERDAMS, CONTRACTOR SHALL RESTORE ORIGINAL CREEKBED MATERIAL TO ALL DISTURBED AREAS WITHIN THE OHWM. AREAS OUTSIDE OF THE OHWM THAT HAVE BEEN DISTURBED SHALL BE RESTORED WITH A 6" LAYER OF TOPSOIL AND RESEEDED.



EXISTING DAM B PHOTOGRAPH
SCALE: NTS

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



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



KLAMATH RIVER RENEWAL CORPORATION		DESIGNED <u>A. LEMAN</u>	DRAWING C210
FALL CREEK FISH HATCHERY		DRAWN <u>J. LAHMON</u>	
DAM B MODIFICATIONS PLAN AND PHOTOGRAPH		CHECKED <u>V. AUTIER</u>	
		PROJECT DATE <u>10/28/20</u>	