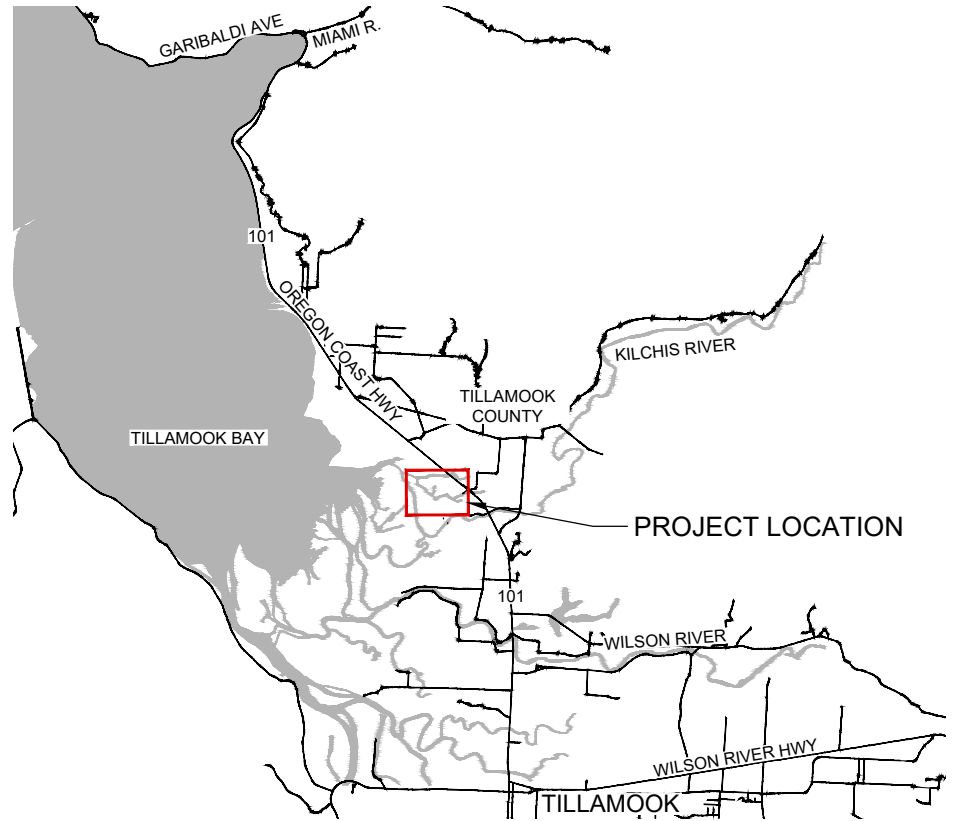
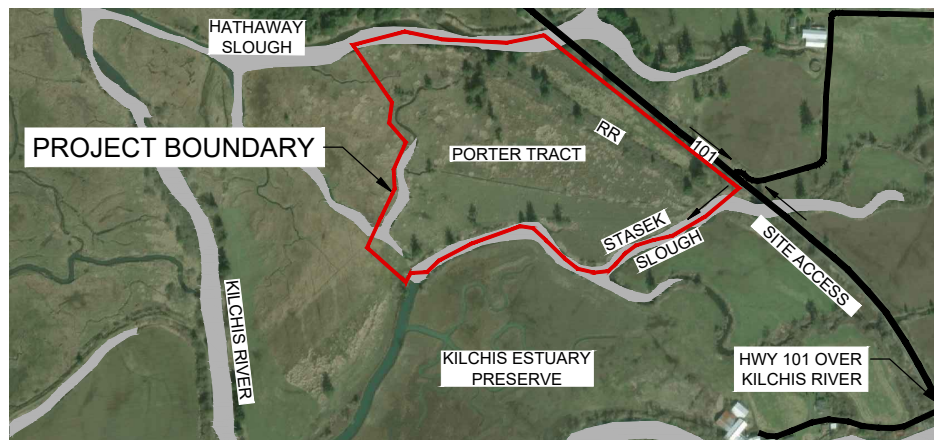


# PORTER TRACT ESTUARY RESTORATION

TILLAMOOK COUNTY, OREGON  
THE NATURE CONSERVANCY  
2019



PROJECT LOCATION MAP  
SCALE: 1" = 5000' (FOR 22" x 34" SHEETS)



VICINITY MAP  
1" = 500' (FOR 22" x 34" SHEETS)



## SHEET INDEX

- G1.0 COVER
- G1.1 NOTES & ABBREVIATIONS
- C1.1 SITE PLAN & OVERVIEW
- C2.1 CH LAYOUT & GRADING PLAN 1
- C2.2 CH LAYOUT & GRADING PLAN 2
- C2.3 CH LAYOUT & GRADING PLAN 3
- C2.4 CH LAYOUT & GRADING PLAN 4
- C2.5 CONNECTOR CHANNEL SECTIONS
- C3.1 CHANNEL PROFILES 1
- C3.2 CHANNEL PROFILES 2
- C3.3 CHANNEL GEOMETRY
- C4.1 BRIDGE 1 PLAN & ELEVATION
- C4.2 BRIDGE 2 PLAN & ELEVATION
- C4.3 BRIDGE STRUCTURAL NOTES
- C5.1 GRADING DETAILS
- C5.2 HABITAT DETAILS 1
- C5.3 HABITAT DETAILS 2
- ESC1.1 EROSION & SEDIMENT CONTROL PLAN
- ESC1.2 EROSION & SEDIMENT CONTROL DETAILS
- ESC1.3 EROSION & SEDIMENT CONTROL NOTES
- L1.1 RESTORATION & SEEDING PLAN

## PROJECT OWNER



**THE NATURE CONSERVANCY**  
DICK VANDER SCHAAF  
821 SE 14TH AVENUE  
PORTLAND, OR 97214  
(503) 802-8100

## PROJECT ENGINEERS



**WOLF WATER RESOURCES**  
CURTIS LOEB, PE  
AMANDA JONES, PE  
JOE RULDOPH, ECOLOGIST  
1001 SE WATER AVE., SUITE 180  
PORTLAND, OR 97214  
(503) 207-6688

## GEOTECHNICAL ENGINEER



**GEOTECHNICS LLC**  
ANDRE MARE, PE, GE  
7629 SE HARRISON STREET  
PORTLAND, OR 97215  
(503) 730-2469



DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	NO.	DATE	DESCRIPTION	REVISION
AJ	AJJR	CL	CL/AJ				

# FINAL DESIGN

THE NATURE CONSERVANCY  
PORTER TRACT  
**COVER**  
TILLAMOOK, OR

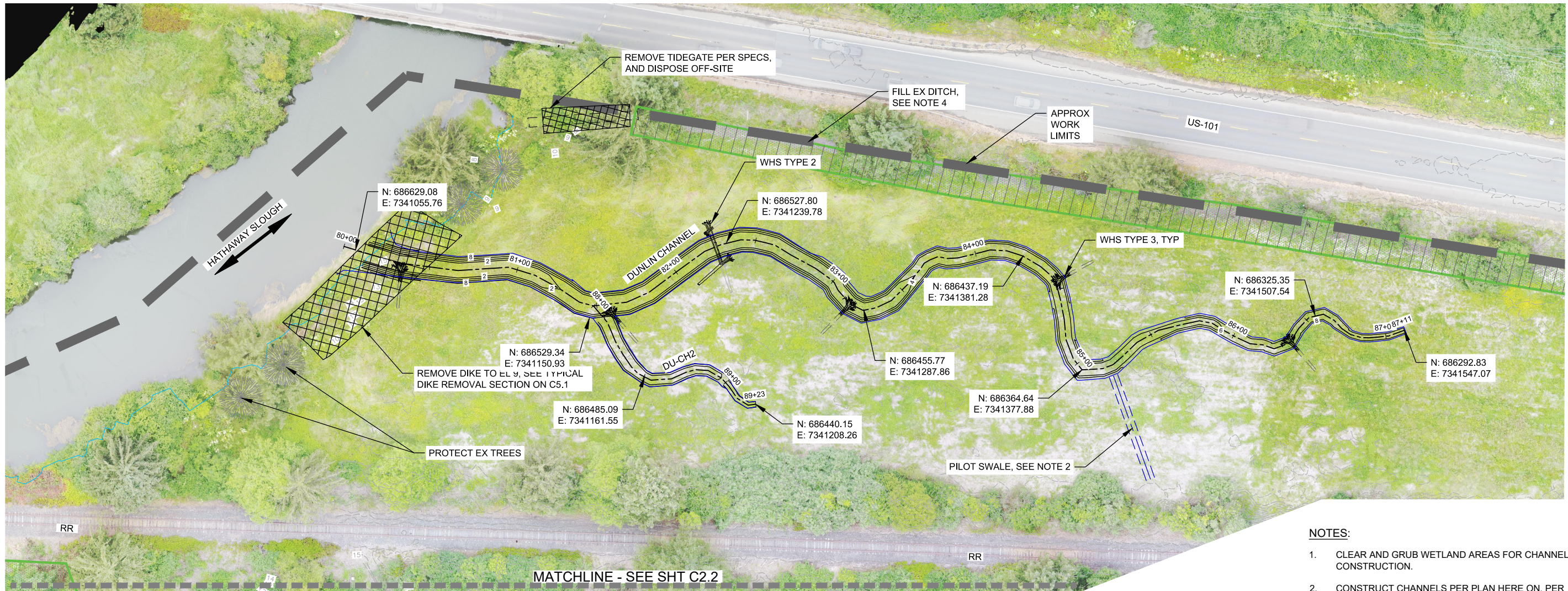
JOB NO.  
20170002

SHEET NO.  
G1.0

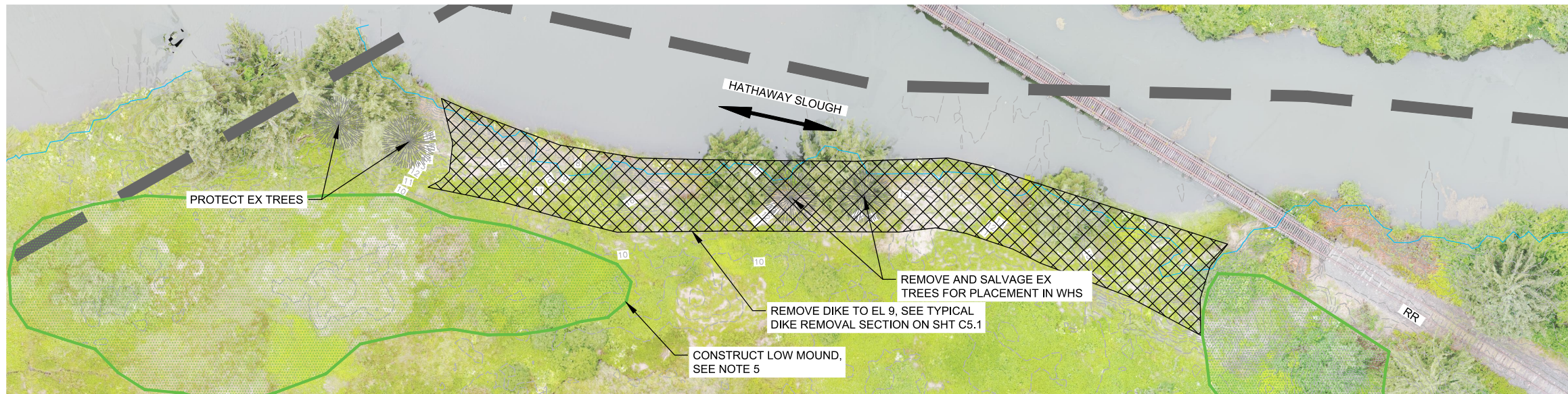
ODFW IN-WATER WORK WINDOW  
JUL 1 TO SEP 30







PLAN - NORTHERN CHANNELS



PLAN - HATHAWAY SLOUGH BERM REMOVAL



**NOTES:**

- CLEAR AND GRUB WETLAND AREAS FOR CHANNEL CONSTRUCTION.
- CONSTRUCT CHANNELS PER PLAN HERE ON, PER PROFILES ON C3.1 AND C3.2, CHANNEL GEOMETRY TABLES ON C3.3, AND THE TYPICAL CHANNEL SECTION ON C5.1. CONSTRUCT PILOT SWALES AS SHOWN ON THIS SHT AND PER TYPICAL PLAN AND SECTION ON C5.3.
- THE CHANNEL ALIGNMENTS SHOWN DEFINE THE CENTERLINE OF THE PROPOSED CHANNELS. CONSTRUCT SMOOTH RADII BETWEEN DEFINED ALIGNMENT POINTS. SEE C1.1 FOR CHANNEL EXCAVATION SUMMARY TABLE. CHANNEL EXCAVATION VOLUMES ARE APPROXIMATE IN-PLACE VOLUME ESTIMATES.
- FILL EXISTING DRAINAGE DITCHES WITH EXCAVATED MATERIAL FROM CHANNELS PER PLAN HERE ON, THE DITCH BACKFILL DETAIL ON C5.1, AND AS SPECIFIED.
- CONSTRUCT LOW MOUND FOR TOPOGRAPHIC RELIEF USING EXCAVATED MATERIAL. SEE C5.1 FOR TYPICAL MOUND SECTION AND DETAIL.
- CONSTRUCT WHS PER PLAN HERE ON AND PER HABITAT DETAILS ON C5.2 AND C5.3 AND AS SPECIFIED.
- REVEGETATE WETLAND AREAS BETWEEN CHANNELS PER SEEDING PLAN ON L1.1.



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PORTLAND, OR 97214  
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The Nature Conservancy  
1821 SE 14TH AVE  
PORTLAND, OR 97214

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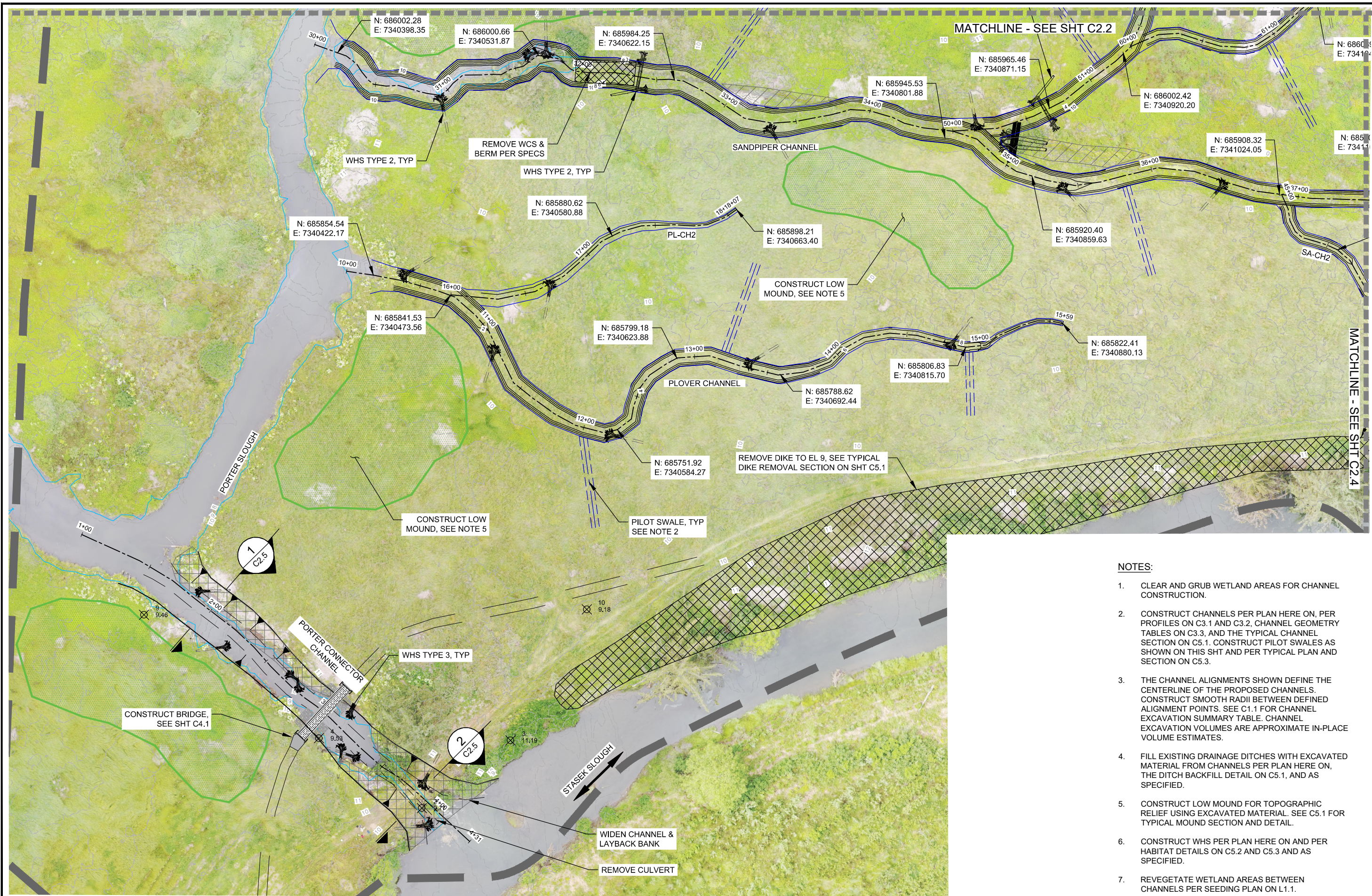
THE NATURE CONSERVANCY  
PORTER TRACT  
**CH LAYOUT & GRADING PLAN 1**  
TILLAMOOK, OR

JOB NO. 20170002  
SHEET NO. C2.1

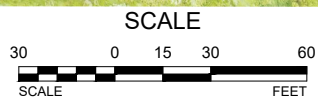
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PLAN - CENTRAL CHANNELS



**NOTES:**

- CLEAR AND GRUB WETLAND AREAS FOR CHANNEL CONSTRUCTION.
- CONSTRUCT CHANNELS PER PLAN HERE ON, PER PROFILES ON C3.1 AND C3.2, CHANNEL GEOMETRY TABLES ON C3.3, AND THE TYPICAL CHANNEL SECTION ON C5.1. CONSTRUCT PILOT SWALES AS SHOWN ON THIS SHT AND PER TYPICAL PLAN AND SECTION ON C5.3.
- THE CHANNEL ALIGNMENTS SHOWN DEFINE THE CENTERLINE OF THE PROPOSED CHANNELS. CONSTRUCT SMOOTH RADII BETWEEN DEFINED ALIGNMENT POINTS. SEE C1.1 FOR CHANNEL EXCAVATION SUMMARY TABLE. CHANNEL EXCAVATION VOLUMES ARE APPROXIMATE IN-PLACE VOLUME ESTIMATES.
- FILL EXISTING DRAINAGE DITCHES WITH EXCAVATED MATERIAL FROM CHANNELS PER PLAN HERE ON, THE DITCH BACKFILL DETAIL ON C5.1, AND AS SPECIFIED.
- CONSTRUCT LOW MOUND FOR TOPOGRAPHIC RELIEF USING EXCAVATED MATERIAL. SEE C5.1 FOR TYPICAL MOUND SECTION AND DETAIL.
- CONSTRUCT WHS PER PLAN HERE ON AND PER HABITAT DETAILS ON C5.2 AND C5.3 AND AS SPECIFIED.
- REVEGETATE WETLAND AREAS BETWEEN CHANNELS PER SEEDING PLAN ON L1.1.



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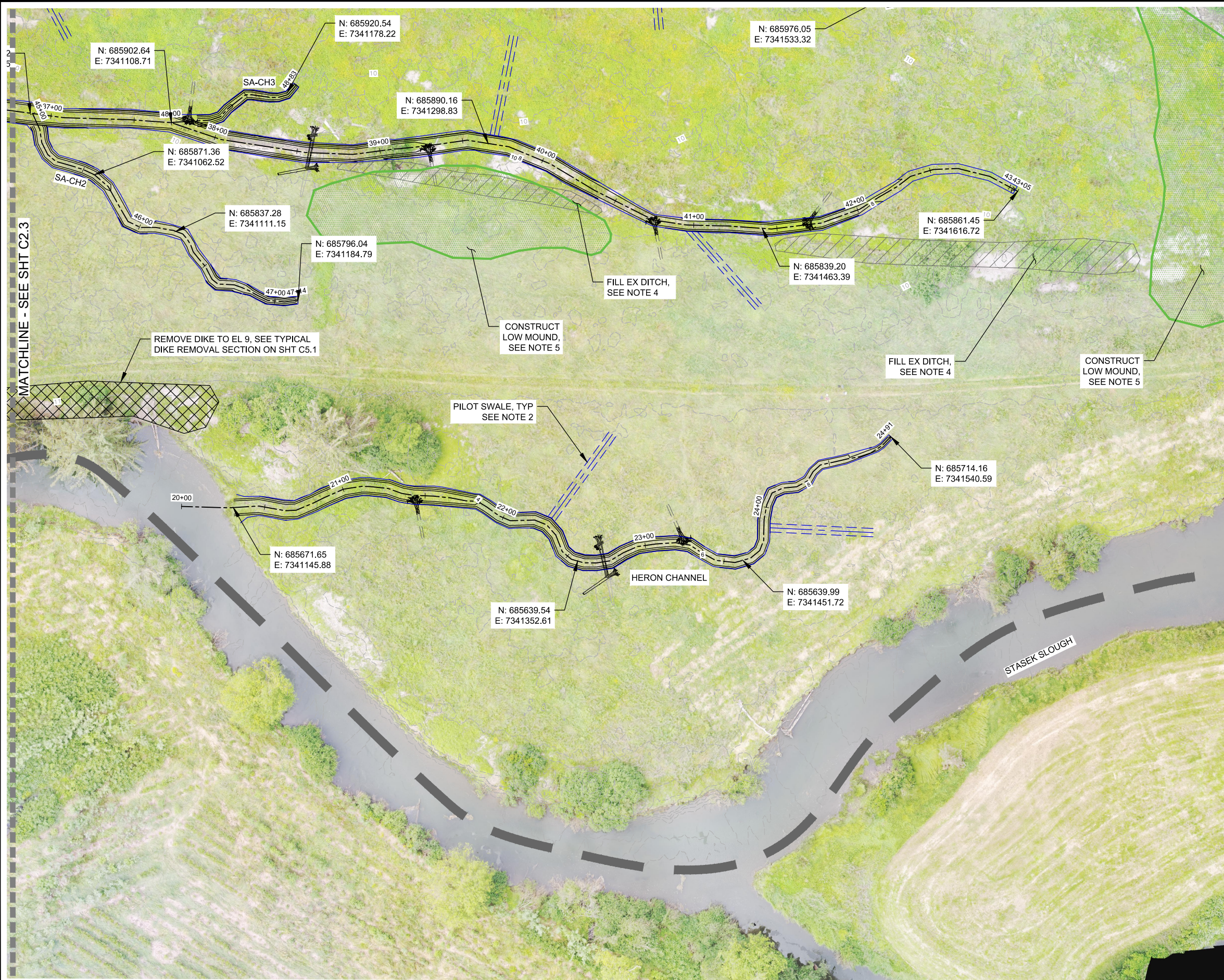
NO.	DATE	DESCRIPTION	REVISION

THE NATURE CONSERVANCY  
 PORTER TRACT  
**CH LAYOUT & GRADING PLAN 3**  
 TILLAMOOK, OR

**FINAL DESIGN**

JOB NO. 20170002  
 SHEET NO. C2.3

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PLAN - SOUTHERN CHANNELS



**NOTES:**

1. CLEAR AND GRUB WETLAND AREAS FOR CHANNEL CONSTRUCTION.
2. CONSTRUCT CHANNELS PER PLAN HERE ON, PER PROFILES ON C3.1 AND C3.2, CHANNEL GEOMETRY TABLES ON C3.3, AND THE TYPICAL CHANNEL SECTION ON C5.1. CONSTRUCT PILOT SWALES AS SHOWN ON THIS SHT AND PER TYPICAL PLAN AND SECTION ON C5.3.
3. THE CHANNEL ALIGNMENTS SHOWN DEFINE THE CENTERLINE OF THE PROPOSED CHANNELS. CONSTRUCT SMOOTH RADII BETWEEN DEFINED ALIGNMENT POINTS. SEE C1.1 FOR CHANNEL EXCAVATION SUMMARY TABLE. CHANNEL EXCAVATION VOLUMES ARE APPROXIMATE IN-PLACE VOLUME ESTIMATES.
4. FILL EXISTING DRAINAGE DITCHES WITH EXCAVATED MATERIAL FROM CHANNELS PER PLAN HERE ON, THE DITCH BACKFILL DETAIL ON C5.1, AND AS SPECIFIED.
5. CONSTRUCT LOW MOUND FOR TOPOGRAPHIC RELIEF USING EXCAVATED MATERIAL. SEE C5.1 FOR TYPICAL MOUND SECTION AND DETAIL.
6. CONSTRUCT WHS PER PLAN HERE ON AND PER HABITAT DETAILS ON C5.2 AND C5.3 AND AS SPECIFIED.
7. REVEGETATE WETLAND AREAS BETWEEN CHANNELS PER SEEDING PLAN ON L1.1.



RENEWS: 6/30/2019

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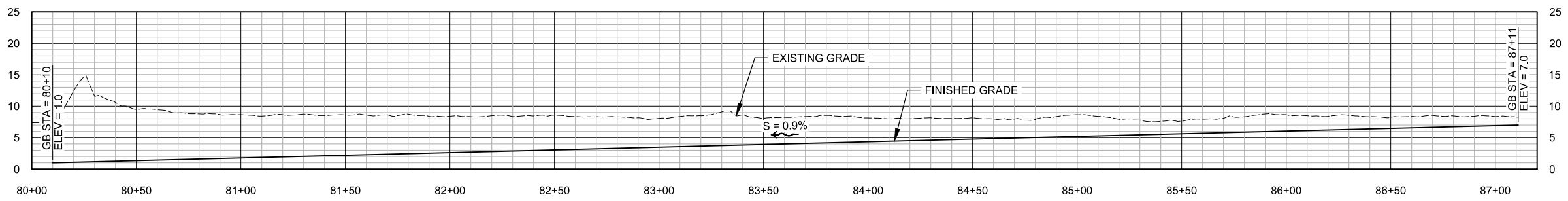
THE NATURE CONSERVANCY  
 PORTER TRACT  
**CH LAYOUT & GRADING PLAN 4**  
 TILLAMOOK, OR

JOB NO.  
 20170002  
 SHEET NO.  
 C2.4



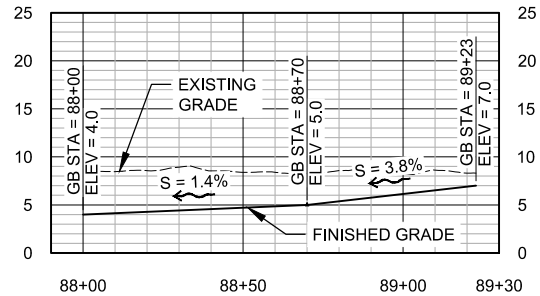


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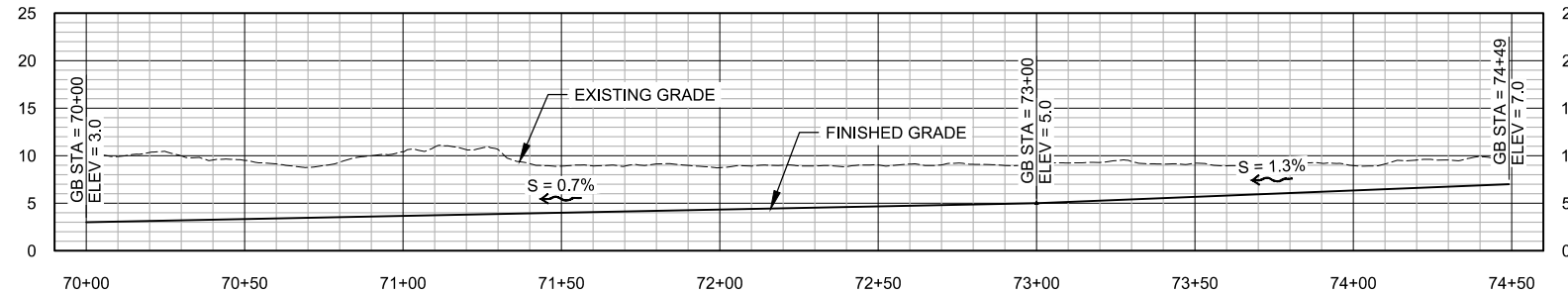
**PROFILE - DUNLIN**

SCALE: HORIZONTAL 1" = 30'  
SCALE: VERTICAL 1" = 10'



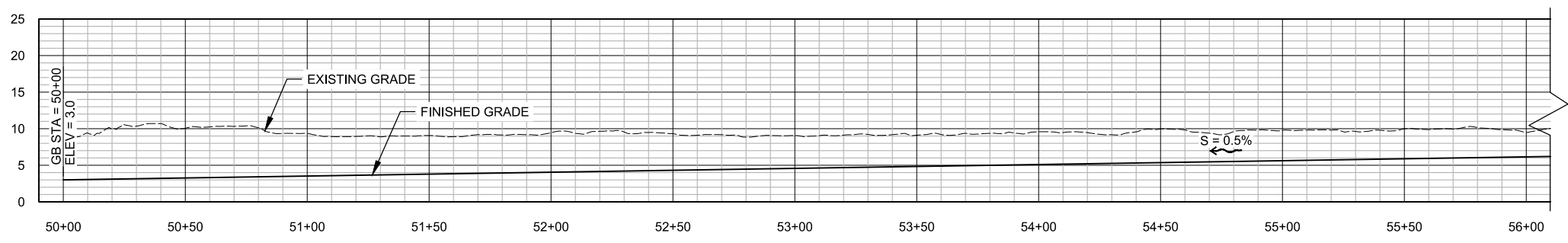
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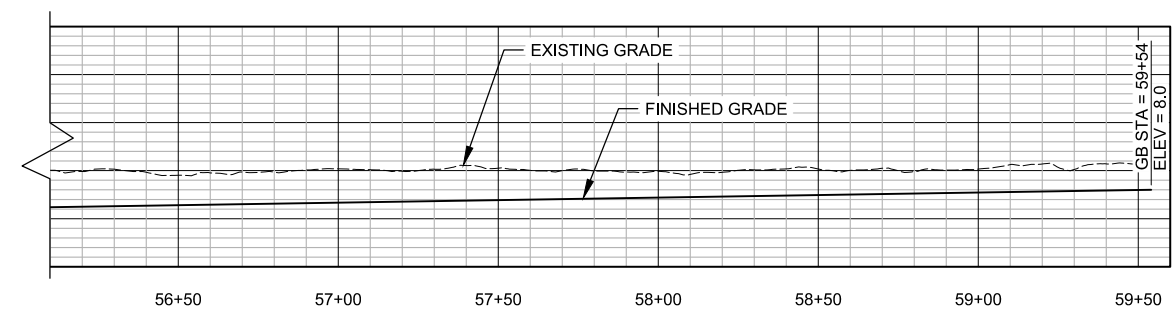
**PROFILE - TURNSTONE**

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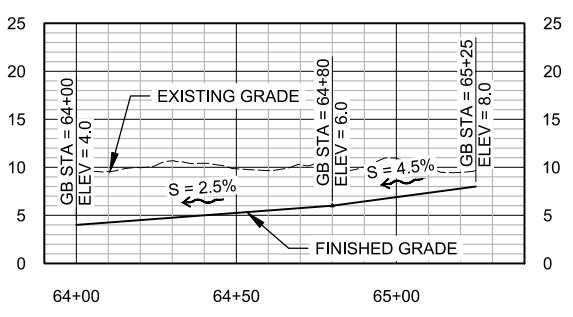
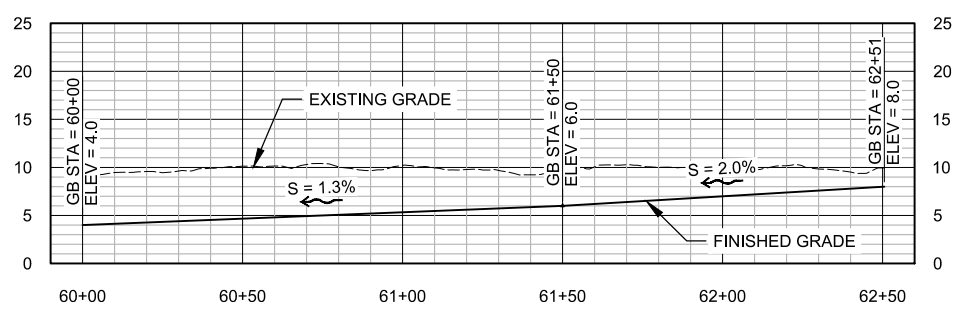
**PROFILE - SNIPE**

SCALE: HORIZONTAL 1" = 30'  
SCALE: VERTICAL 1" = 10'



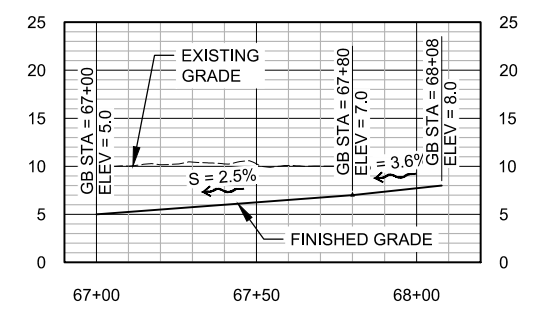
**PROFILE - SNIPE 2**

SCALE: HORIZONTAL 1" = 30'  
SCALE: VERTICAL 1" = 10'



**PROFILE - SNIPE 3**

SCALE: HORIZONTAL 1" = 30'  
SCALE: VERTICAL 1" = 10'



**PROFILE - SNIPE 4**

SCALE: HORIZONTAL 1" = 30'  
SCALE: VERTICAL 1" = 10'

**NOTES:**

1. CONSTRUCT CHANNEL PER PLAN ON C2.1 TO C2.4 AND PER PROFILES THIS SHEET. FINISHED GRADE PROFILES REPRESENT CHANNEL BOTTOM ELEVATIONS. EXISTING GRADE IS BASED OFF OF LIDAR AND MAY VARY.
2. ELEVATIONS SHOWN ARE RELATIVE TO FEET NAVD88.



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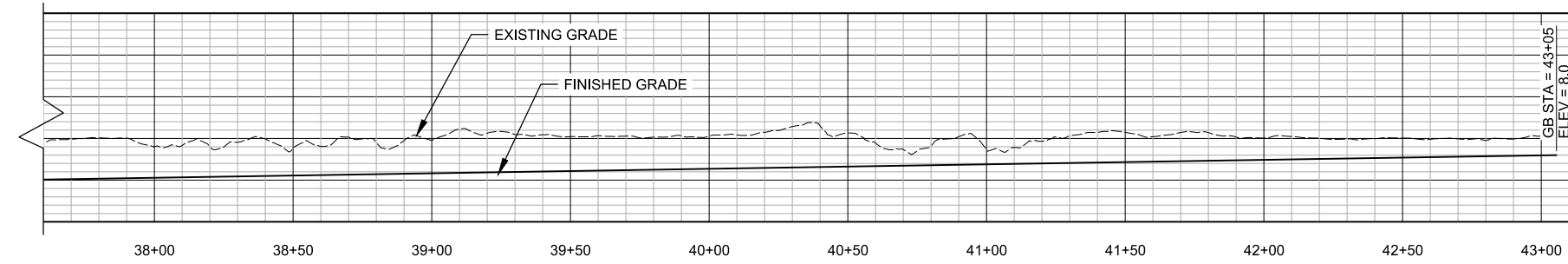
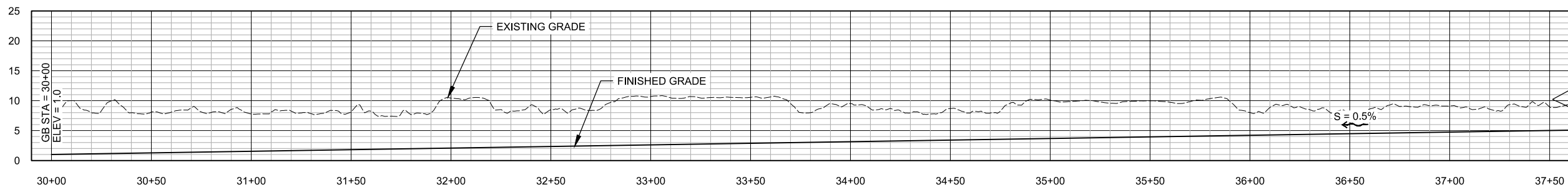
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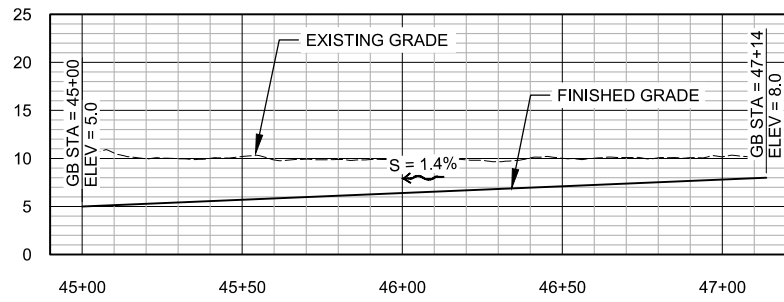
THE NATURE CONSERVANCY  
 PORTER TRACT  
**CHANNEL PROFILES 1**  
 TILLAMOOK, OR

JOB NO.  
 20170002  
 SHEET NO.  
 C3.1



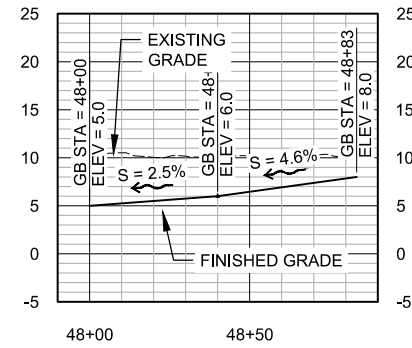
**PROFILE - SANDPIPER**

SCALE: HORIZONTAL 1" = 30'  
SCALE: VERTICAL 1" = 10'



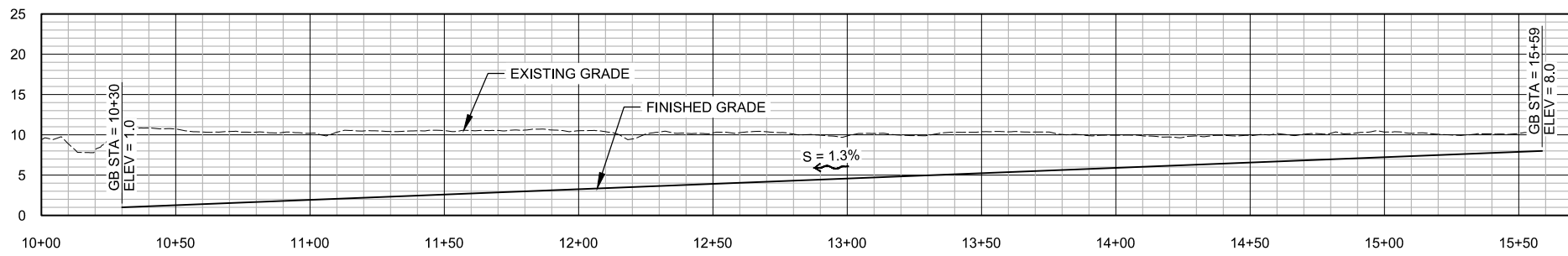
**PROFILE - SANDPIPER 2**

SCALE: HORIZONTAL 1" = 30'  
SCALE: VERTICAL 1" = 10'



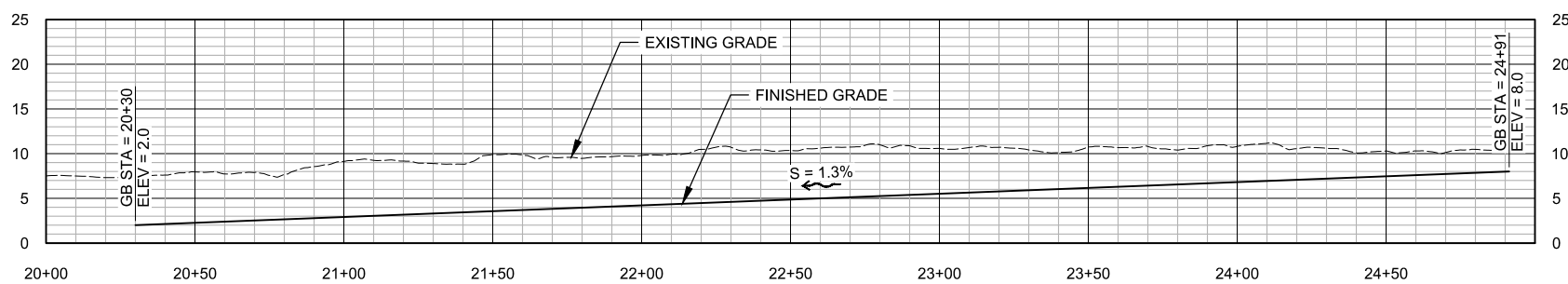
**PROFILE - SANDPIPER 3**

SCALE: HORIZONTAL 1" = 30'  
SCALE: VERTICAL 1" = 10'



**PROFILE - PLOVER**

SCALE: HORIZONTAL 1" = 30'  
SCALE: VERTICAL 1" = 10'



**PROFILE - PLOVER 2**

SCALE: HORIZONTAL 1" = 30'  
SCALE: VERTICAL 1" = 10'



**PROFILE - HERON**

SCALE: HORIZONTAL 1" = 30'  
SCALE: VERTICAL 1" = 10'

**NOTES:**

1. CONSTRUCT CHANNEL PER PLAN ON C2.1 TO C2.4 AND PER PROFILES THIS SHEET. FINISHED GRADE PROFILES REPRESENT CHANNEL BOTTOM ELEVATIONS. EXISTING GRADE IS BASED OFF OF LIDAR AND MAY VARY.
2. ELEVATIONS SHOWN ARE RELATIVE TO FEET NAVD88.

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 503.207.8688

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THE NATURE CONSERVANCY  
 PORTER TRACT  
**CHANNEL PROFILES 2**  
 TILLAMOOK, OR

JOB NO.  
 20170002  
 SHEET NO.  
 C3.2



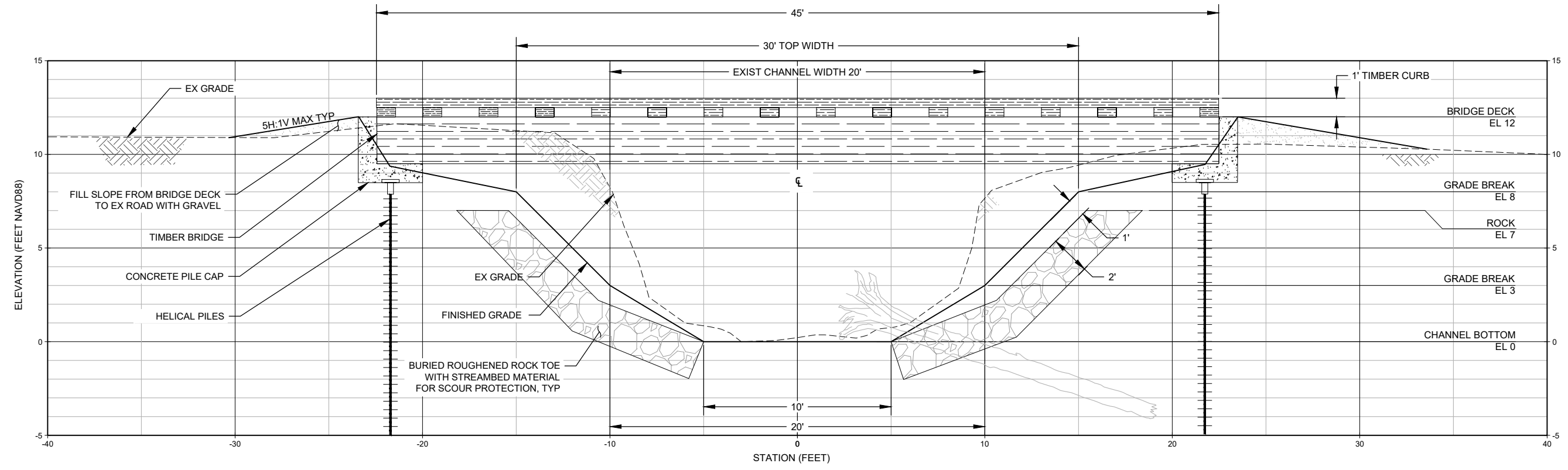
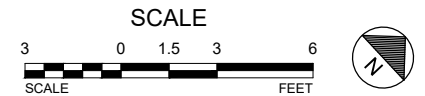


**NOTES:**

- SEE SHEET C4.3 FOR BRIDGE AND ABUTMENT STRUCTURAL NOTES.

**PLAN - PORTER CROSSING TIMBER BRIDGE 1**

SCALE: 1" = 3'



**ELEVATION - PORTER CROSSING TIMBER BRIDGE 1**

SCALE: 1" = 3'



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THE NATURE CONSERVANCY  
PORTER TRACT  
**BRIDGE 1**  
**PLAN & SECTION**  
TILLAMOOK, OR

JOB NO.  
20170002

SHEET NO.  
C4.1

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PORTLAND, OR 97214  
PHONE: 503.207.6886

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PORTLAND, OR 97214

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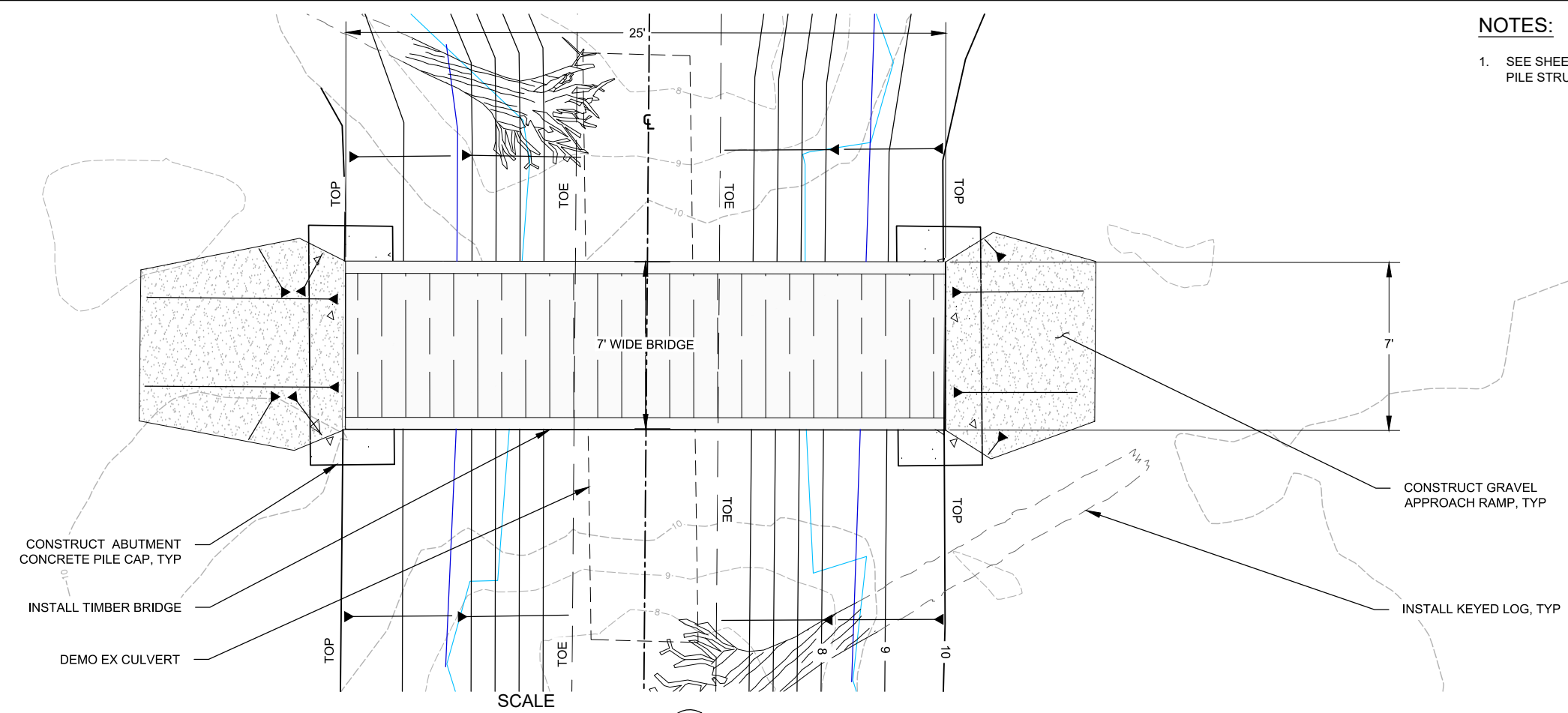
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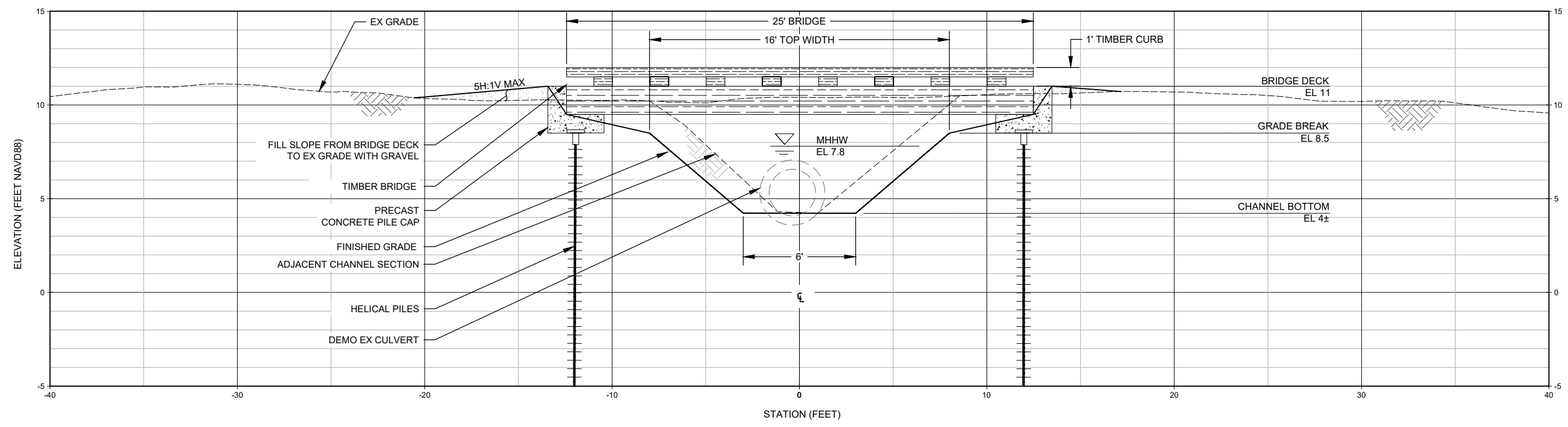
THE NATURE CONSERVANCY  
PORTER TRACT  
**BRIDGE 2**  
**PLAN & SECTION**  
TILLAMOOK, OR

JOB NO. 20170002  
SHEET NO. C4.2

**NOTES:**  
1. SEE SHEET C4.3 FOR BRIDGE AND HELICAL PILE STRUCTURAL NOTES.



**PLAN - NORTH CROSSING TIMBER BRIDGE 2**  
SCALE: 1" = 3'



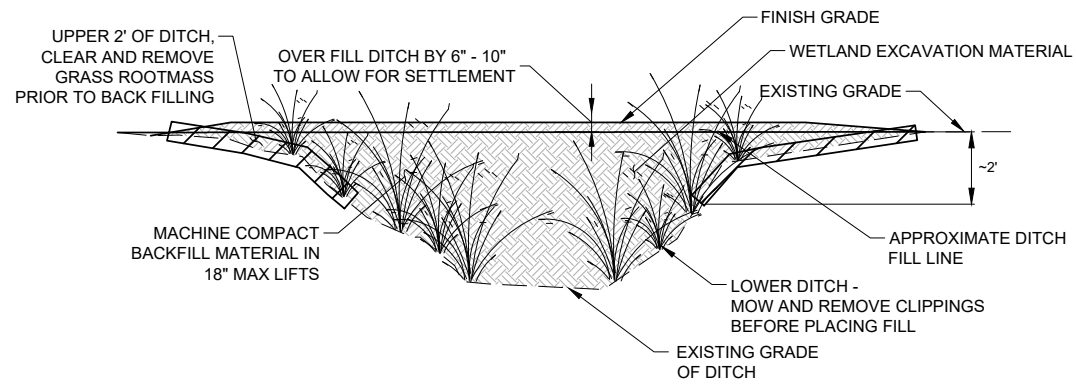
**ELEVATION - NORTH CROSSING TIMBER BRIDGE 2**  
SCALE: 1" = 3'

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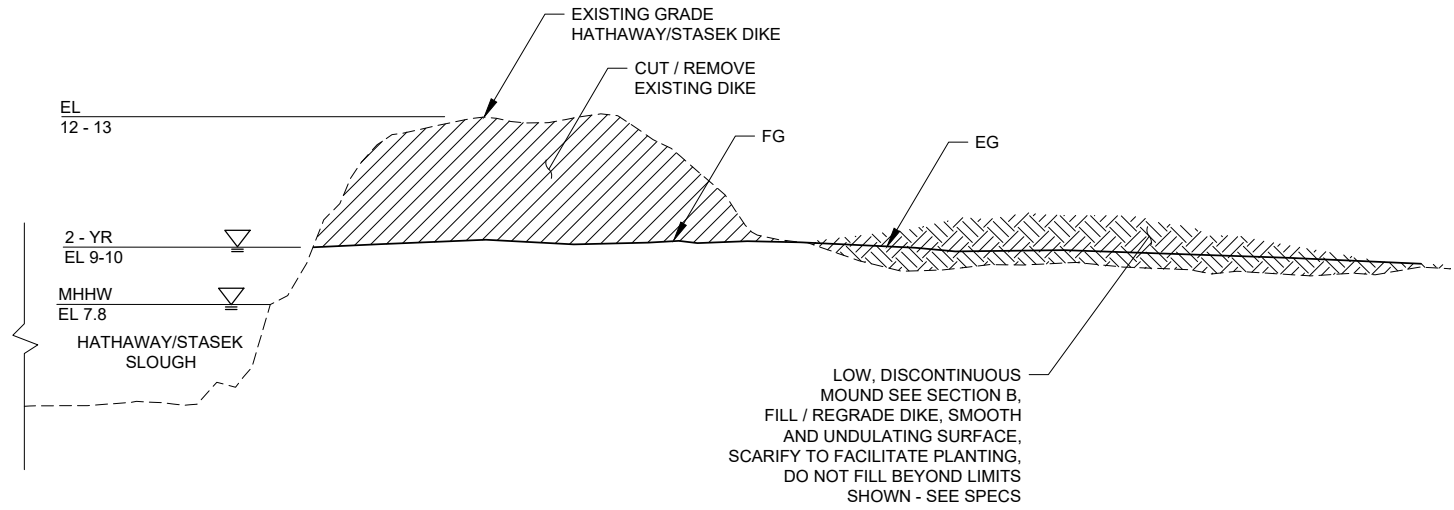


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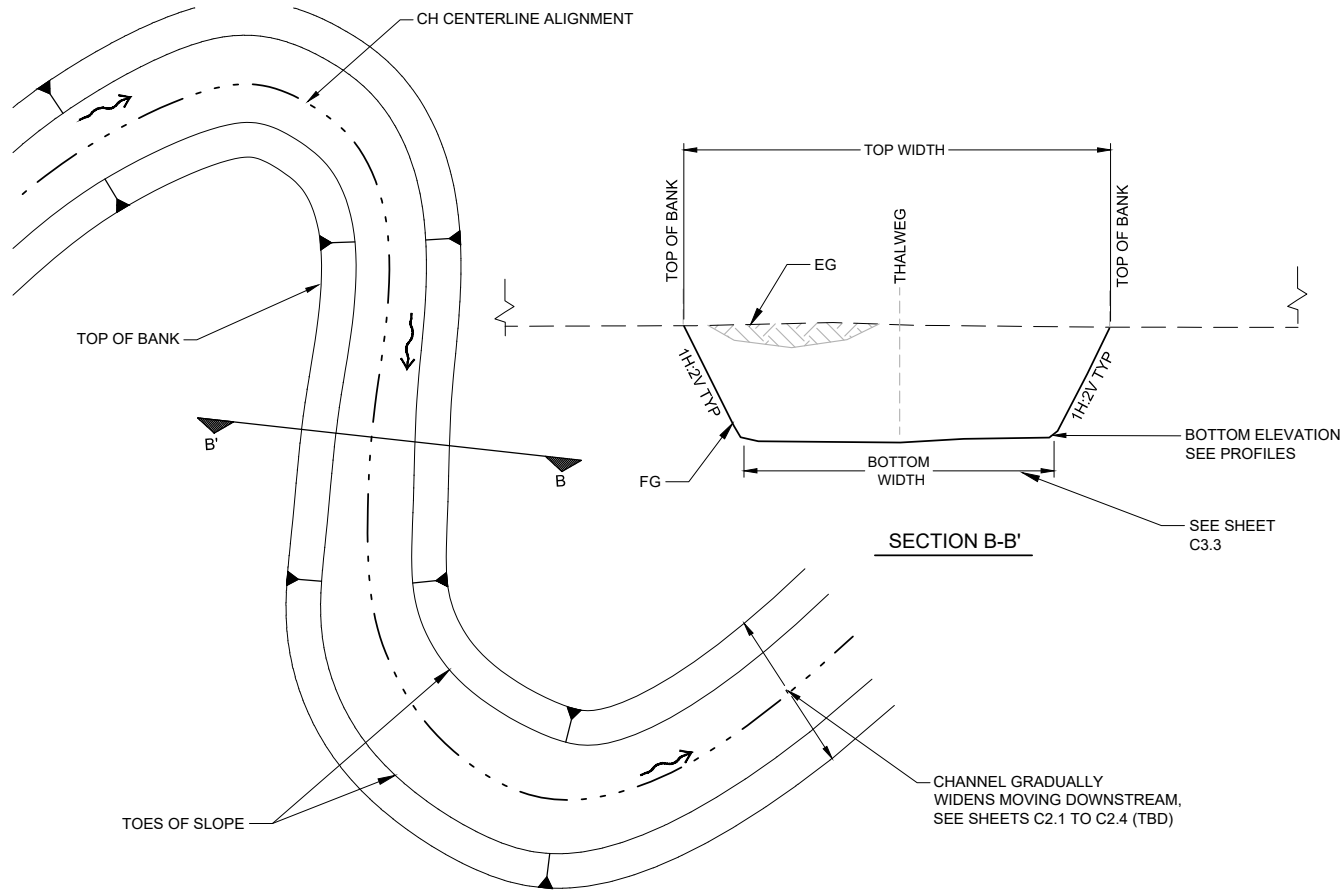
1. DEWATER DITCHES COMPLETELY PRIOR TO BACKFILLING IN ACCORDANCE WITH SPECIFICATIONS.
2. REMOVE ORGANIC MATERIAL FROM EXCAVATION MATERIAL BEFORE PLACING AS FILL.



**1 DITCH BACKFILL DETAIL**  
NOT TO SCALE



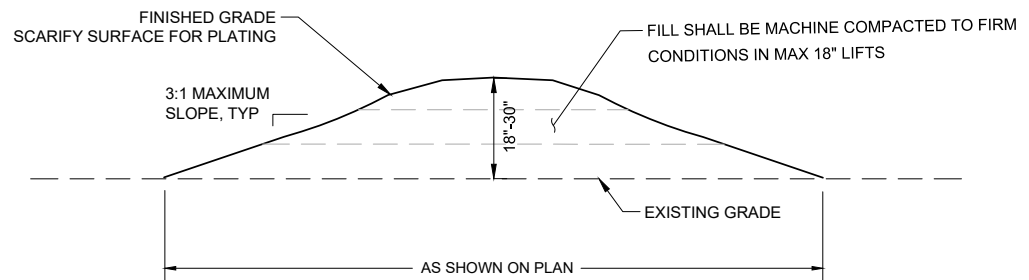
**3 HATHAWAY AND STASEK SLOUGH DIKE REMOVAL - TYPICAL SECTION**  
NOT TO SCALE



**NOTES:**

1. SEE GEOMETRY TABLES FOR BOTTOM ELEVATIONS AND BOTTOM WIDTHS (TBD).

**2 TYPICAL CHANNEL PLAN & SECTION**  
NOT TO SCALE



**4 LOW MOUND - TYPICAL SECTION**  
NOT TO SCALE



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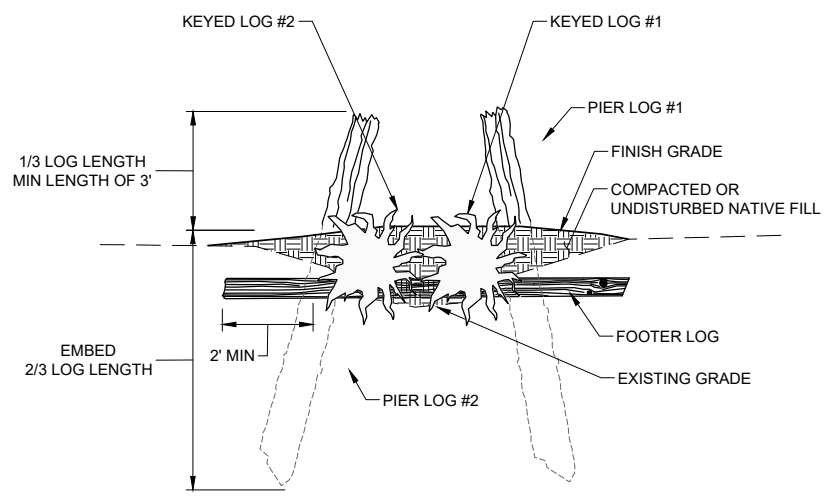
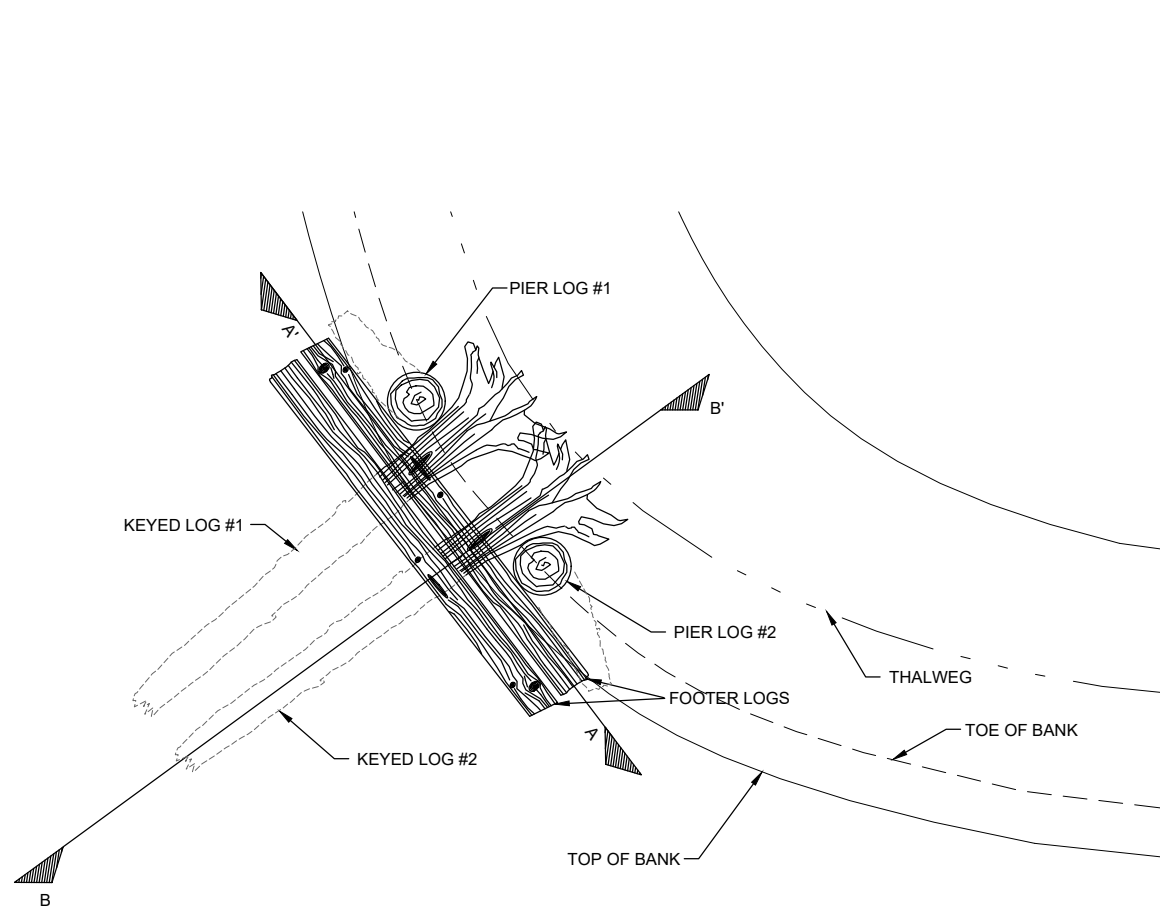
**FINAL DESIGN**

THE NATURE CONSERVANCY  
PORTER TRACT  
**GRADING DETAILS**  
TILLAMOOK, OR

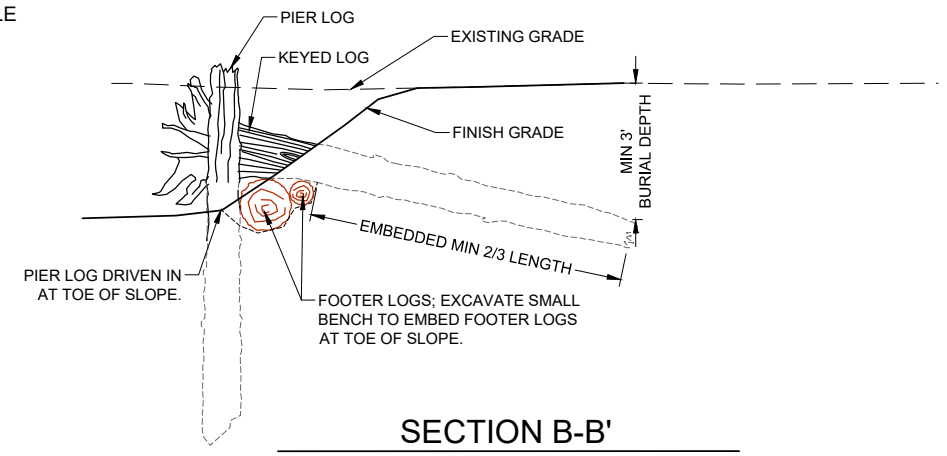
JOB NO.  
20170002  
SHEET NO.  
C5.1

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DATE: Feb 15, 2019 11:28am  
USER: USHER, User

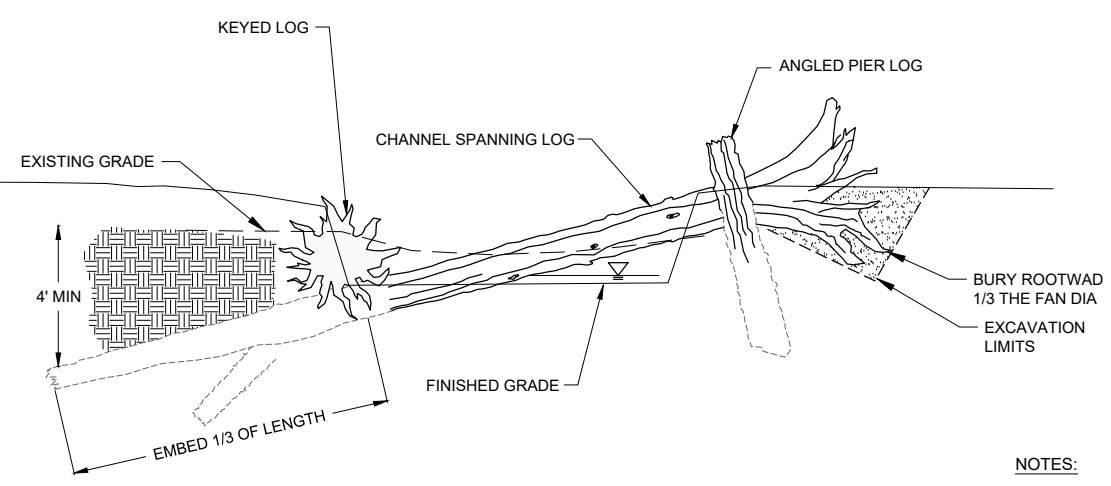
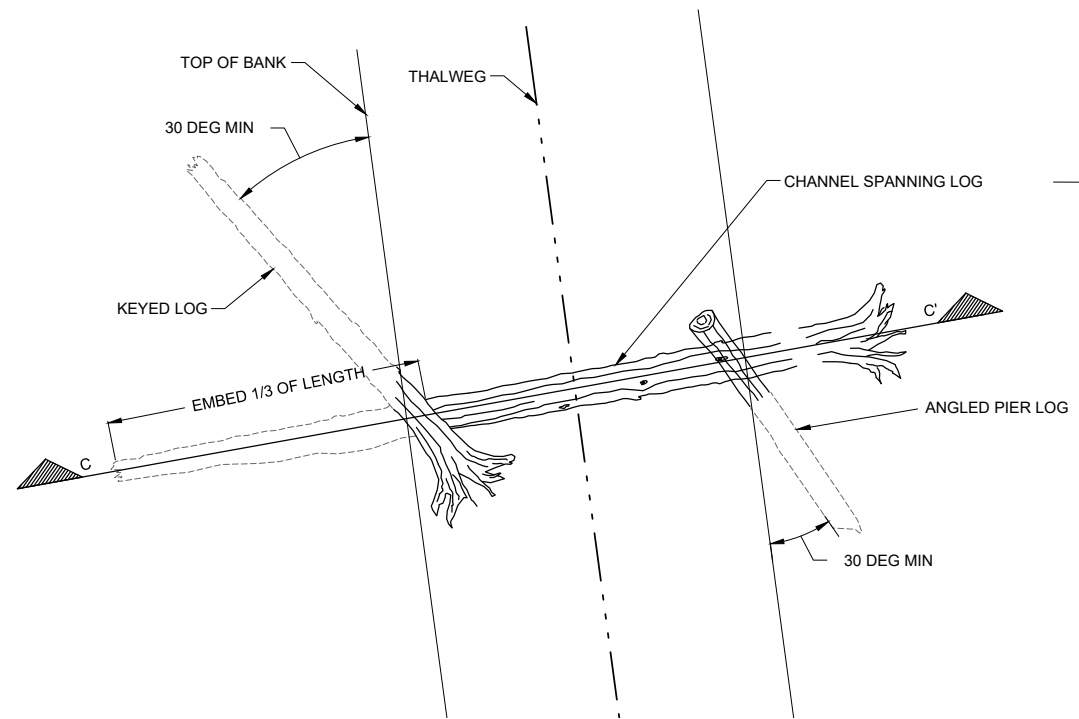
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CHECKED BY	CL					
APPROVED BY	CL/AJ					



LOG TYPE	DIA.	LENGTH
KEYED LOG	24"	20' MIN
PIER LOG	18"	15' MIN
FOOTER LOG	24"	12' MIN



1 WHS TYPE 1 - BANK DETAIL  
NOT TO SCALE



LOG TYPE	DIA.	LENGTH
CH. SPANNING	24"	30' - 40'
KEYED LOG	16" - 20"	20'
PIER LOG	12" - 18"	12'

- NOTES:
- SEE INDIVIDUAL LOG DETAILS ON SHT C5.3.
  - THE WHS-CHANNEL SPANNING STRUCTURE WILL BE CONSTRUCTED IN TWO DIFFERENT SIZES, PROPORTIONAL TO THE CHANNEL SIZE. REFER TO LOG SIZE TABLES AND SPECIFICATIONS FOR LOG REQUIREMENTS AND NUMBER OF EACH SIZE.
  - INSTALL ALL LOGS BY SHARPENING ENDS WITH A CHAINSAW AND DRIVING THE LOG INTO THE GROUND. EXCAVATE ONLY AS NECESSARY.

2 WHS TYPE 2 - CHANNEL SPANNING DETAIL  
NOT TO SCALE

FINAL DESIGN

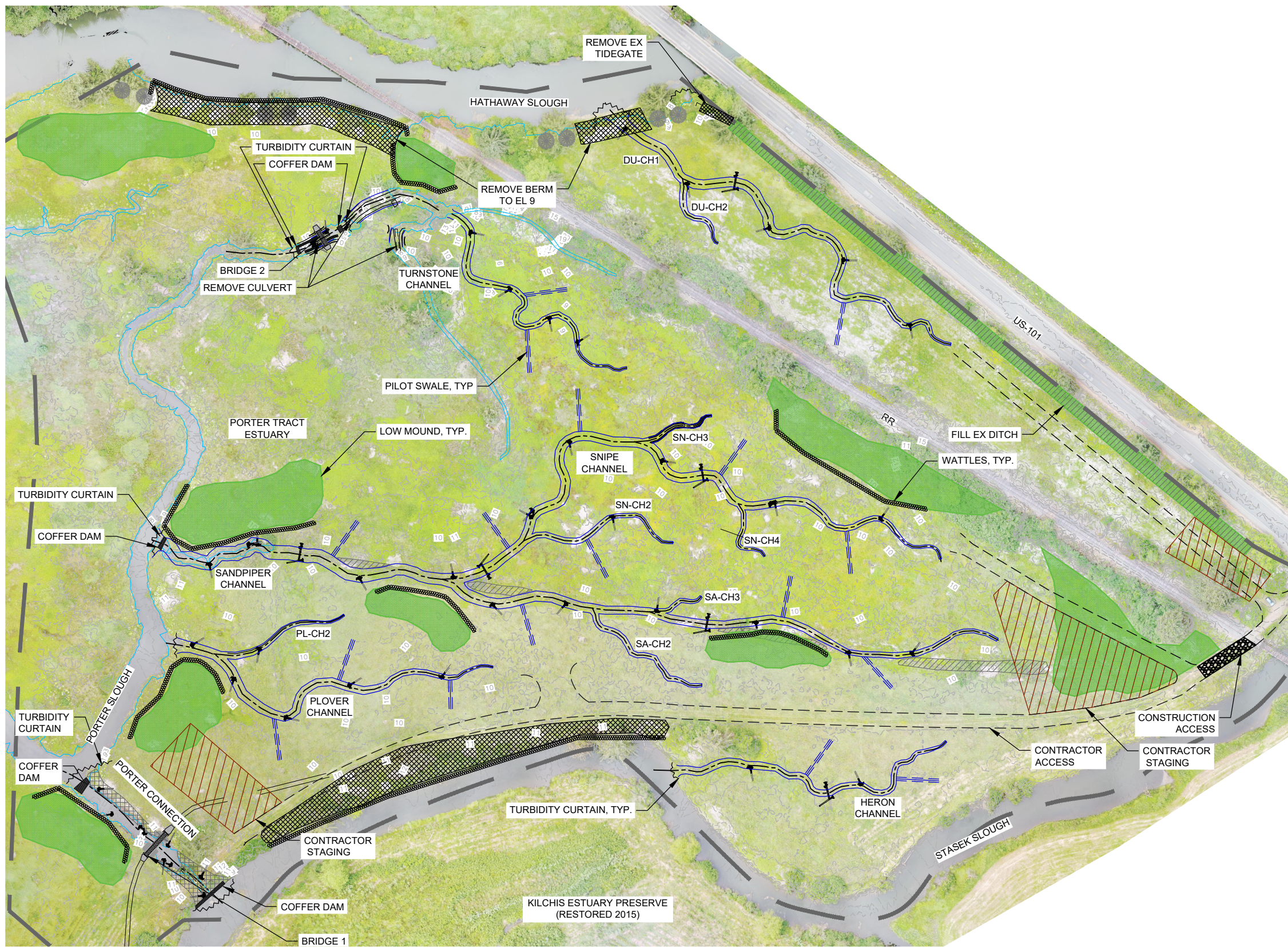
THE NATURE CONSERVANCY  
PORTER TRACT  
HABITAT DETAILS 1  
TILLAMOOK, OR

JOB NO.  
20170002  
SHEET NO.  
C5.2





DWG: Z:\Shared\W2\CAD\2017\002-TNC-Kilchis\DWG\ESC1.1 EROSION CONTROL.dwg USER: User  
 DATE: Feb 18, 2019 1:31pm XREFS: X-TB-22X34-TNC PORTER-BASE PORTER-AERIAL BASE PORTER-EG SURFACE



**EROSION CONTROL LEGEND:**

WATTLES  
 TURBIDITY CURTAIN

REGISTERED PROFESSIONAL  
 ENGINEER  
 84779PE  
 DIGITAL SIGNATURE  
 OREGON  
 MAR. 8, 2016  
 AMANDA L. JONES  
 RENEWS: 6/30/2019

WOLF WATER RESOURCES, INC.  
 1001 SE WATER AVE, SUITE #180  
 PORTLAND, OR 97214  
 503.207.6688

The Nature Conservancy  
 1821 SE 14TH AVE  
 PORTLAND, OR 97214

DESIGNED BY	AJ		
DRAWN BY	AJ/JR		
CHECKED BY	CL		
APPROVED BY	CL/AJ		
NO.	DATE	DESCRIPTION	REVISION
	2/15/2019	FINAL DESIGN	

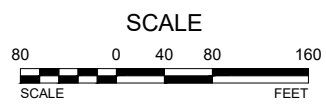
# FINAL DESIGN

THE NATURE CONSERVANCY  
 PORTER TRACT  
**ESC PLAN**  
 TILLAMOOK, OR

JOB NO.  
 20170002  
 SHEET NO.  
 ESC1.1

- NOTES:**
- ENTER SITE AT DESIGNATED ENTRANCE POINT UNLESS APPROVED BY ENGINEER.
  - ALL ACCESS ROUTES AND SITE ENTRANCES SHALL BE RESTORED ACCORDING TO SPECIFICATIONS AND SEEDING PLAN.
  - CHANNELS ONE AND TWO SHALL BE GRADED FIRST. KEEP EXISTING DIKES IN PLACE UNTIL GRADING IN THE CENTER OF THE SITE IS FINISHED. DO NOT CONNECT CHANNEL 3 TO THE KILCHIS RIVER AND THE STASEK SLOUGH UNTIL THE CHANNEL GRADING HAS BEEN FINISHED. DEMO CULVERTS AND RECONSTRUCT EARTHEN BERMS AS A LAST STAGE OF CONSTRUCTION.
  - SEE SHEET C2.2 FOR DIKE REMOVAL SUMMARY TABLE.

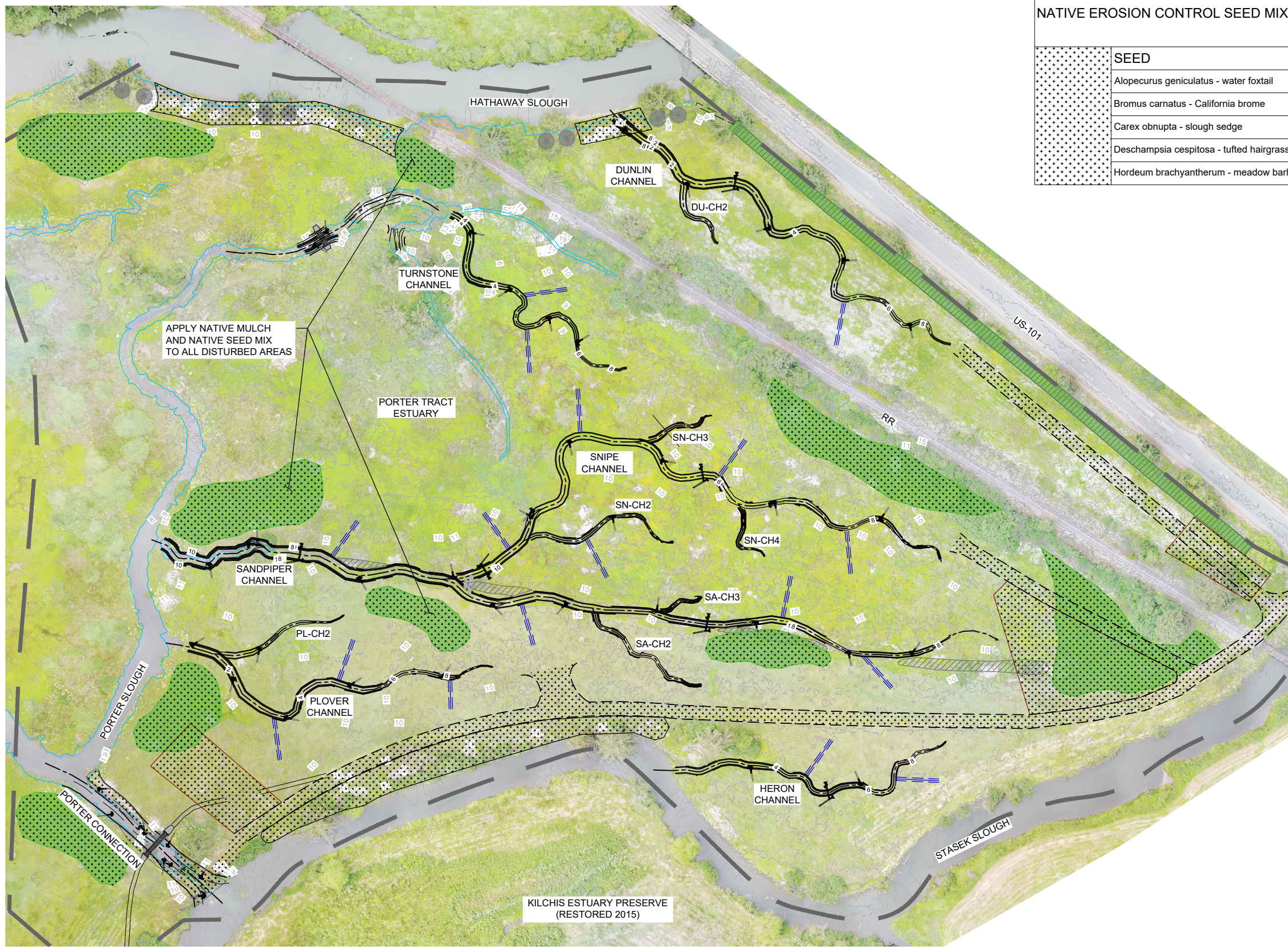
**PLAN - EROSION CONTROL**  
 1" = 500' (FOR 22" x 34" SHEETS)







DWG: Z:\Shared\W2\CAD\2017\002-TNC-Kilchis\DWG\1.1 REVEGETATION.dwg USER: User  
 DATE: Feb 18, 2019 1:33pm XREFS: X-TB-22X34-TNC PORTER-BASE PORTER-AERIAL BASE PORTER-EG SURFACE



NATIVE EROSION CONTROL SEED MIX		APPROX. AREA = 7.5 AC	
SEED	Alopecurus geniculatus - water foxtail	1.09 lbs	APPLICATION RATE
	Bromus carinatus - California brome	12.20 lbs	Pounds of Pure Live Seed (PLS) PER ACRE
	Carex obnupta - slough sedge	0.71 lbs	
	Deschampsia cespitosa - tufted hairgrass	1.02 lbs	
	Hordeum brachyantherum - meadow barley	25.11 lbs	

- NOTES:**
1. EROSION CONTROL SEED MIX IS SHOWN ON THIS SHEET.
  2. WITHIN 24 HOURS OF SEED APPLICATION, NATIVE STRAW MULCH SHALL BE APPLIED WITH A BLOWER OR BY HAND.
  3. NATIVE STRAW SHALL BE APPLIED AT THE RATE OF ONE TON PER ACRE.
  4. NATIVE STRAW MULCH SHALL BE CERTIFIED WEED FREE.
  5. SEEDING AREAS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL APPLY SEEDING TO ALL DISTURBED AREAS.

**PLAN - REVEGETATION**  
 1" = 500' (FOR 22" x 34" SHEETS)



DESIGNED BY	AJ	DATE	2/15/2019
DRAWN BY	AJ/JR	DESCRIPTION	FINAL DESIGN
CHECKED BY	CL	REVISION	
APPROVED BY	CL/AJ		

# FINAL DESIGN

THE NATURE CONSERVANCY  
 PORTER TRACT  
**REVEGETATION PLAN**  
 TILLAMOOK, OR

JOB NO. 20170002  
 SHEET NO. L1.1