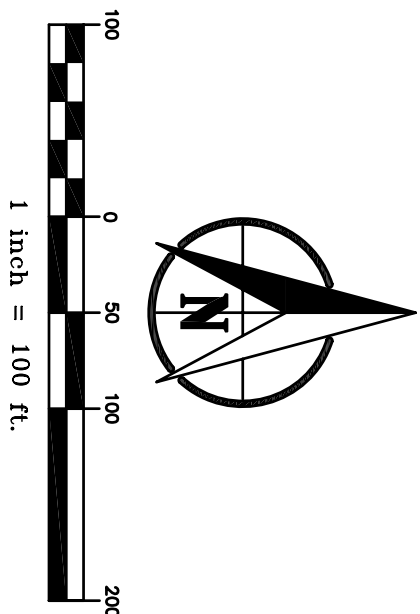




PROPOSED CONSTRUCTION SEQUENCING:

YEAR 1 CONSTRUCTION ACTIVITIES

- 1 ESTABLISH STAGING AREA, CLEAR AND INSTALL ESC AS NECESSARY.
 - 2 CLEAR NORTH BACKWATER CHANNEL. DO NOT DISTURB NORTH BACKWATER CHANNEL SOIL PLUG (EXISTING LEVEE).
 - 3 INSTALL ESC IN NORTH BACKWATER CHANNEL. GRUB NORTH BACKWATER CHANNEL AREA.
 - 4 ESTABLISH TEMPORARY HAUL ROAD ALONG NORTH LEVEE ALIGNMENT. INSTALL ESC ALONG NORTH PROJECT BOUNDARY.
 - 5 EXCAVATE NORTH BACKWATER CHANNEL. SCREEN AND DRY MATERIAL AS PER SPECIFICATIONS ADJACENT TO NORTH LEVEE. LEAVE NORTH BACKWATER CHANNEL SOIL PLUG. DO NOT DISTURB EXISTING RIVER LEVEE AND BANK DURING ANY YEAR ONE SITE ACTIVITIES.
 - 6 CONSTRUCT NORTH LEVEE WITH SCREENED NORTH BACKWATER CHANNEL FILL MATERIAL, AS APPROVED BY THE PROJECTS GEOTECHNICAL ENGINEER.
 - 7 INSTALL TRASH RACK, CULVERT, AND TIDE GATE. SEE SHEET C11 FOR DETAIL.
 - 8 CLEAR SOUTH BACKWATER CHANNEL AND INSTALL ESC MEASURES. DO NOT DISTURB SOUTH BACKWATER CHANNEL SOIL PLUG AND EXISTING RIVER LEVEE.
 - 9 EXCAVATE SOUTH BACKWATER CHANNEL BEHIND SOUTH BACKWATER CHANNEL SOIL PLUG. PROCESS AND HAUL MATERIAL FOR NORTH LEVEE COMPLETION AS NECESSARY. INSTALL ESC MEASURES. SEED AND STRAW MULCH IMMEDIATELY AFTER COMPLETION OF EXCAVATION AREAS.
 - 10 INSTALL LARGE WOODY DEBRIS AS PER PLANS/SPECIFICATIONS IN NORTH BACKWATER CHANNEL AND SOUTH BACKWATER CHANNEL.
 - 11 STABILIZE, SEED AND STRAW MULCH ALL DISTURBED AREAS FOLLOWING YEAR 1 SITE ACTIVITIES.
- YEAR 2 CONSTRUCTION ACTIVITIES**
- 12 ESTABLISH TEMPORARY HAUL ROAD ALONG EXISTING FRONTAGE WITH LEWIS AND CLARK CHANNEL LEVEE.
 - 13 REMOVE EXISTING CULVERT AND TIDE GATE AND INSTALL NEW TRASH RACK, CULVERT, AND TIDE GATE. SEE SHEET C11 FOR DETAIL.
 - 14 REMOVE NORTH BACKWATER CHANNEL AND SOUTH BACKWATER CHANNEL SOIL PLUGS.
 - 15 EXCAVATE LEVEE BREACHES ALONG EXISTING LEVEE FROM NORTH TO SOUTH. PLACE AND COMPACT FILL AS PER SPECIFICATIONS ADJACENT TO BREACHES. INSTALL ESC MEASURES, SEED AND STRAW MULCH IMMEDIATELY AFTER COMPLETION OF EXCAVATION AREAS.
 - 16 INSTALL ANY REMAINING LARGE WOODY DEBRIS AS PER PLANS/SPECIFICATIONS IN NORTH BACKWATER CHANNEL AND SOUTH BACKWATER CHANNEL PLUG LOCATIONS.
 - 17 STABILIZE, SEED AND STRAW MULCH ALL DISTURBED AREAS FOLLOWING YEAR 2 SITE ACTIVITIES.
 - 18 INSTALL PLANTS PER PLANTING PLAN. SEE SHEET C12 AND C12A.
 - 19 AREA OF EXCLUSION. NO WORK SHALL BE CONDUCTED IN THIS AREA WITHOUT PRIOR AUTHORIZATION FROM CREST OR HENDERSON LAND SERVICES.
 - 20 EXISTING ASPHALT ACCESS RD TO BE USED AS A TEMPORARY HAUL AND ACCESS ROAD TO NORTH BACKWATER CHANNEL AND BERM.

GENERAL NOTES:

- A. SURFACE WATER COLLECTED BEHIND SOIL PLUGS IS TO BE PUMPED TO AN UPLAND VEGETATED AREA. TURBID WATER IS NOT PERMITTED TO DISCHARGE INTO LEWIS AND CLARK RIVER.
- B. CONTRACTOR MAY NEED TO INSTALL FLOATING TURBIDITY CURTAIN ALONG LEWIS AND CLARK RIVER AS NECESSARY DEPENDING ON WATER AND TIDE LEVELS AT TIME OF CONSTRUCTION.

LEGEND

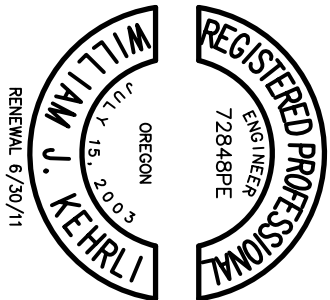
- EXISTING PROPERTY LINE/ROW
- EXISTING EASEMENT
- EXISTING WATER LEVEL
- EXISTING UNDERGROUND ELECTRIC/TELEPHONE LINE
- EXISTING FENCE
- EXISTING 5 FT. CONTOUR INTERVAL
- EXISTING 1 FT. CONTOUR INTERVAL
- PROPOSED 5 FT. CONTOUR INTERVAL
- PROPOSED 1 FT. CONTOUR INTERVAL
- PROPOSED SEDIMENT FENCE
- AREA OF EXCLUSION

CONSTRUCTION SEQUENCING PLAN

OTTER POINT RESTORATION PROJECT – CONSTRUCTION DOCUMENT PLAN SET



HENDERSON LAND SERVICES LLC
200 North State Street, Ste. #103
Lake Oswego, Oregon 97034
telephone (503) 699-8999
facsimile (503) 699-8777



DATE: 5/21/2010
DRAWN BY: KMH
PROJ. MGR: BAH
CHECKED BY: WJK
PROJECT NUMBER
CREST 08-01
CASE FILE NUMBER

SHEET NUMBER
03
OF 15

LEGEND

- EXISTING PROPERTY LINE/ROW
- EXISTING EASEMENT
- EXISTING WATER LEVEL
- EXISTING UNDERGROUND ELECTRIC/TELEPHONE LINE
- EXISTING FENCE
- EXISTING 5 FT. CONTOUR INTERVAL
- EXISTING 1 FT. CONTOUR INTERVAL
- DIRECTION OF STORM WATER FLOW
- PROPOSED 5FT. CONTOUR INTERVAL
- PROPOSED 1FT. CONTOUR INTERVAL
- PROPOSED SEDIMENT FENCE

GENERAL SITE GRADING NOTES:

- ALL PROPOSED EXCAVATION AND EMBANKMENT WORK SHALL BE DONE UNDER THE GUIDANCE OF THE GEOTECHNICAL ENGINEER INCLUDING BUT NOT LIMITED TO THE FOLLOWING ITEMS:
 - A. DETERMINATION OF THE DEPTH OF MATERIAL TO BE REMOVED.
 - B. GEOMETRY OF BENCHING WITH RESPECT TO THE SITE SLOPE.
 - C. PLACEMENT OF FILL MATERIAL INCLUDING THE DEGREE OF COMPACTION REQUIRED.
 - D. REVIEW AND APPROVAL OF MEANS AND MECHANISM FOR DISCHARGING SUBSURFACE AND SURFACE WATER TO PROTECT THE SLOPE.
 - E. REVIEW OF ALL EXCAVATED MATERIAL TO ENSURE EXCAVATED MATERIAL DOES NOT CONTAIN LARGE ORGANIC DEBRIS. IF DEEMED NECESSARY BY GEOTECHNICAL ENGINEER, EXCAVATED MATERIAL SHALL BE SCREENED UNDER HIS/HER DIRECTION.

AREA OF DISTURBANCE

TOTAL DISTURBANCE = 25.41 AC

EARTHWORK QUANTITY

CUT = 25,546 CY
FILL = 40,865 CY
STRIPPINGS FILL = 15,319 CY
STRIPPINGS EXPORT = 17,255 CY

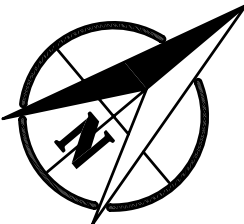
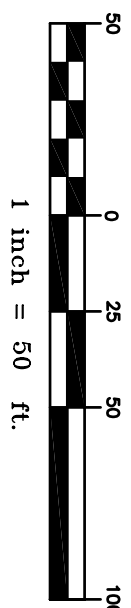
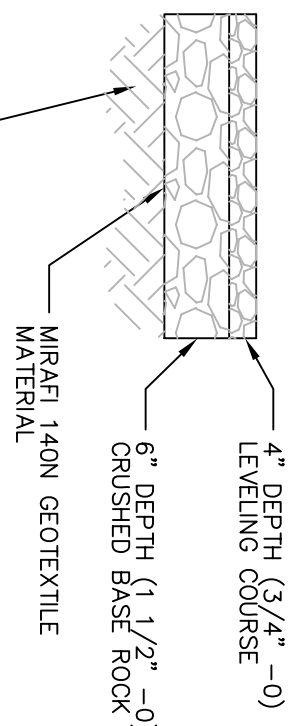
THE CONTRACTOR SHALL FIELD VERIFY THE SIZE, LOCATION & DEPTH OF EXISTING UTILITIES PRIOR TO CONSTRUCTION NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCING CONSTRUCTION

NORTH BACKWATER CHANNEL
CENTERLINE ELEVATION TABLE

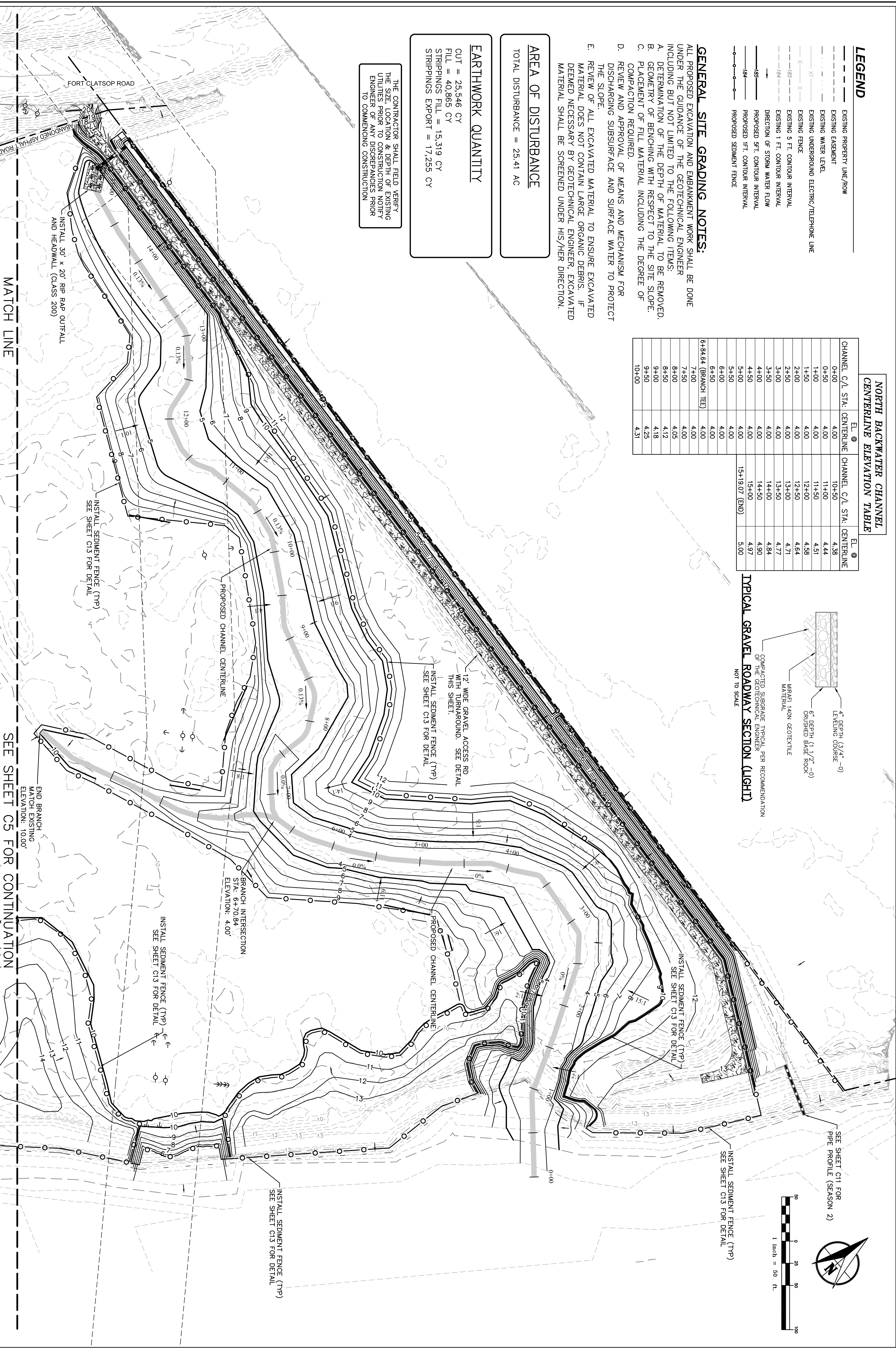
CHANNEL C/L STA:	CENTERLINE	EL. @	CHANNEL C/L STA:	CENTERLINE	EL. @
0+00	4.00	4.38	10+50	4.44	
0+50	4.00	4.44	11+00	4.51	
1+00	4.00	4.51	11+50	4.58	
1+50	4.00	4.58	12+00	4.64	
2+00	4.00	4.64	12+50	4.71	
2+50	4.00	4.71	13+00	4.77	
3+00	4.00	4.77	13+50	4.84	
3+50	4.00	4.84	14+00	4.90	
4+00	4.00	4.90	14+50	4.97	
4+50	4.00	4.97	15+00	5.00	
5+00	4.00	5.00	15+19.07 (END)	5.00	
5+50	4.00				
6+00	4.00				
6+50	4.00				
6+84.64 (BRANCH TEE)	4.00				
7+00	4.00				
7+50	4.00				
8+00	4.05				
8+50	4.12				
9+00	4.18				
9+50	4.25				
10+00	4.31				

TYPICAL GRAVEL ROADWAY SECTION (LIGHT)

NOT TO SCALE



SEE SHEET C11 FOR
PIPE PROFILE (SEASON 2)

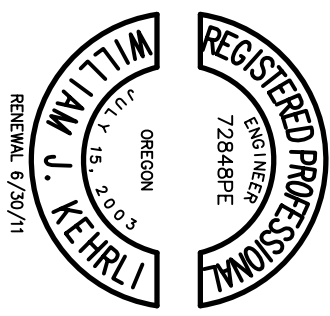


GRADING / EROSION CONTROL PLAN
NORTHEAST

OTTER POINT RESTORATION PROJECT – CONSTRUCTION DOCUMENT PLAN SET

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