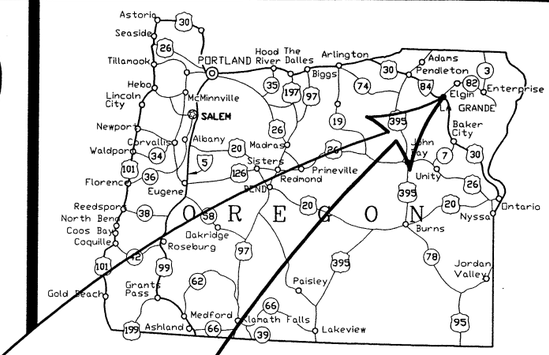
GRANDE RONDE MODEL WATERSHED

ELMER LEVEE REMOVAL

2010

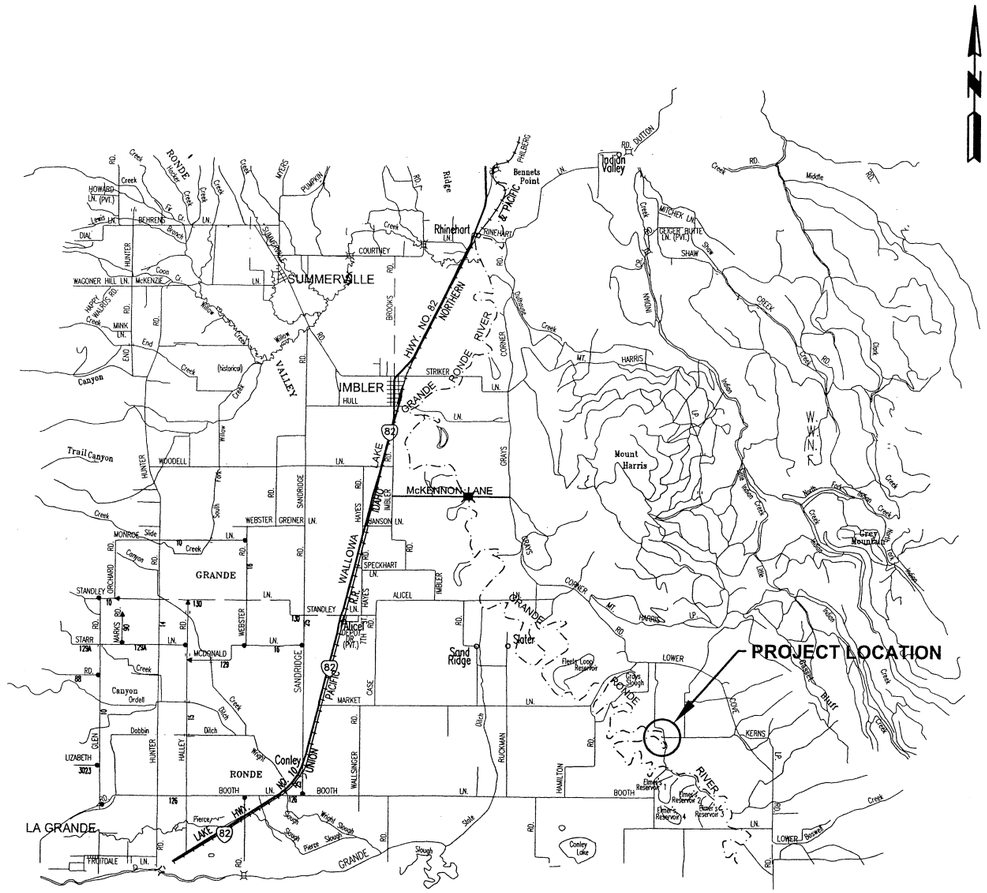
UNION COUNTY, OREGON



INDEX

The Grande Ronde Model Watershed has reviewed these drawings and approved them for construction to fullfill the intended project objectives.

_____ _____
Date



VICINITY MAP

GRANDE RONDE MODEL WATERSHED

EXECUTIVE DIRECTOR
JEFF OVESON

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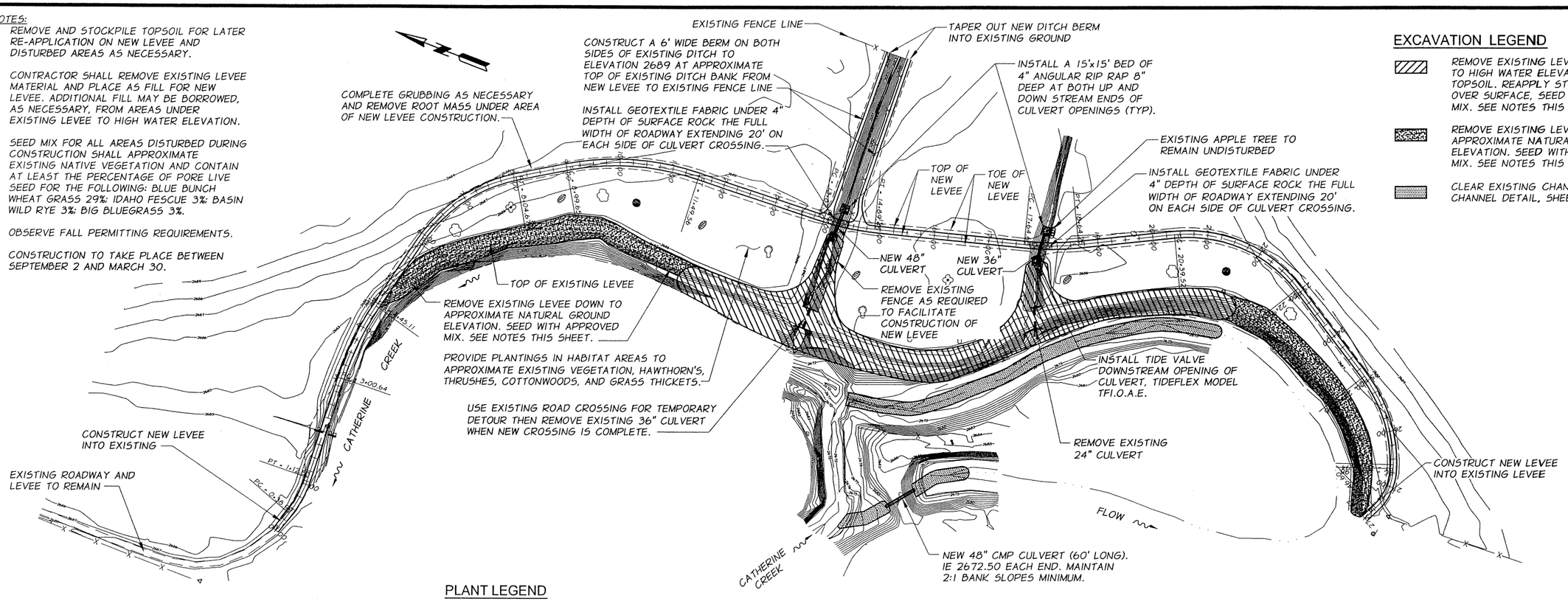
PRELIMINARY

anderson perry & associates, inc.
engineering · surveying · natural resources
1901 N. FIR STREET; LA GRANDE, OR 97850
PH: (541) 963-8309 FAX: (541) 963-5456

0 5.0 CWAS
1 4.0 CWAS
2 5.0 CWAS
3 2.0 CWAS
4 0.50 CWAS
5 1.0 BMEA
6 1.5 BMEA
7 0.5 BMEA

NOTES:

1. REMOVE AND STOCKPILE TOPSOIL FOR LATER RE-APPLICATION ON NEW LEVEE AND DISTURBED AREAS AS NECESSARY.
2. CONTRACTOR SHALL REMOVE EXISTING LEVEE MATERIAL AND PLACE AS FILL FOR NEW LEVEE. ADDITIONAL FILL MAY BE BORROWED, AS NECESSARY, FROM AREAS UNDER EXISTING LEVEE TO HIGH WATER ELEVATION.
3. SEED MIX FOR ALL AREAS DISTURBED DURING CONSTRUCTION SHALL APPROXIMATE EXISTING NATIVE VEGETATION AND CONTAIN AT LEAST THE PERCENTAGE OF PORE LIVE SEED FOR THE FOLLOWING: BLUE BUNCH WHEAT GRASS 29%; IDAHO FESCUE 3%; BASIN WILD RYE 3%; BIG BLUEGRASS 3%.
4. OBSERVE FALL PERMITTING REQUIREMENTS.
5. CONSTRUCTION TO TAKE PLACE BETWEEN SEPTEMBER 2 AND MARCH 30.



EXCAVATION LEGEND

- REMOVE EXISTING LEVEE MATERIAL DOWN TO HIGH WATER ELEVATION. STOCKPILE TOPSOIL. REAPPLY STOCKPILED TOPSOIL OVER SURFACE, SEED WITH APPROVED MIX. SEE NOTES THIS SHEET (TYP).
- REMOVE EXISTING LEVEE DOWN TO APPROXIMATE NATURAL GROUND ELEVATION. SEED WITH APPROVED MIX. SEE NOTES THIS SHEET.
- CLEAR EXISTING CHANNEL. SEE CHANNEL DETAIL, SHEET 2.

PLANT LEGEND

TREES:

PACIFIC WILLOW (SALIX LUCIDA SSP. LASIANDRA): CENTER OF 1 GROUP OF 15 PLANTS SPACED 4 FEET APART IN THREE ROWS.

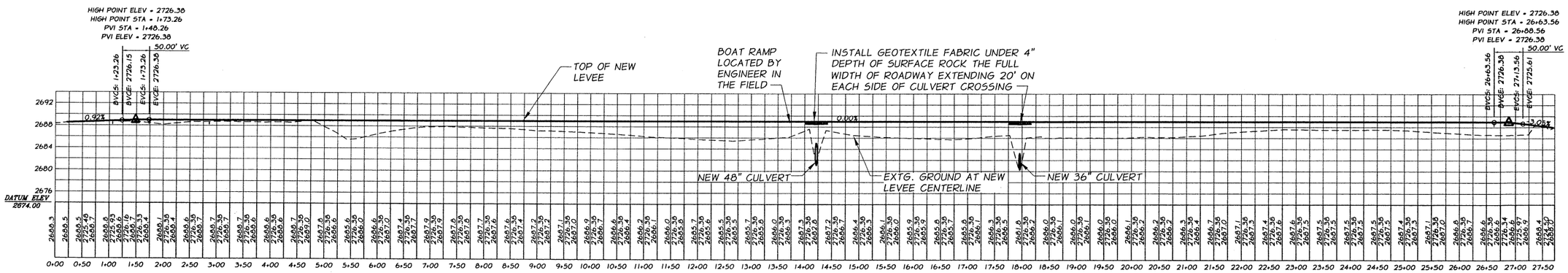
COTTONWOOD (POPULUS BALSAMIFERA): CENTER 1 GROUP OF PLANTS SPACED 8 FEET APART. PLANT APPROXIMATELY 1 FOOT ABOVE THE ORDINARY HIGH WATER LINE.

SHRUBS:

GEYER'S WILLOW (SALIX GEYERIANA): CENTER OF 1 GROUP OF 15 PLANTS SPACED 4 FEET APART IN THREE ROWS.

RED OSIER DOGWOOD (CORNUS SERICEA SERICEA): CENTER OF 1 GROUP OF 5 PLANTS SPACED 3 FEET APART. PLANT JUST ABOVE THE ORDINARY HIGH WATER LINE.

ROSE (ROSA GYMNOCARPA): CENTER OF 1 GROUP OF 3 PLANTS SPACED 3 FEET APART. PLANT APROXIMATELY 4 FEET ABOVE THE ORDINARY HIGH WATER LINE.



REVISION		BY	DATE		
DESIGNED BY	C. WHITAKER	XREFS: ??			
DRAWN BY	A. STEFFEN				
REVIEWED BY	B. MOORE				

100 0 100 200 300 SCALE IN FEET – HORZ.
10 0 10 20 30 SCALE IN FEET – VERT.

HORZ. SCALE	1"=100'	VERT. SCALE	1'=10'
JOB NUMBER	81–19	DATE	2010
ACAD FILE:	Elmer Design.dwg		

THIS DRAWING HAS BEEN REDUCED 50%. ADJUST SCALE ACCORDINGLY. BARSCALE SHOWN IS ACCURATE.

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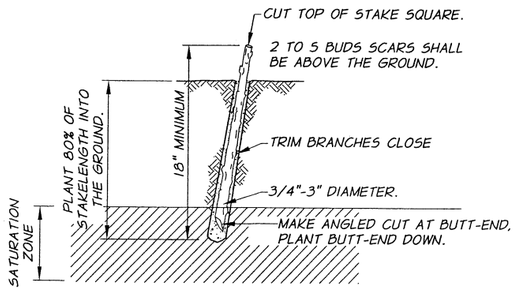
SHEET 1

SITE PLAN

0 .5 BMEA
1 1.0 BMEA

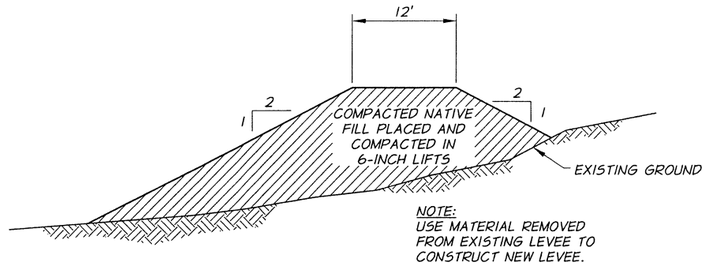


NOTES:

1. HARVEST AND PLANT STAKES DURING THE DORMANT SEASON.
2. USE HEALTHY, STRAIGHT AND LIVE WOOD AT LEAST 1 YEAR OLD.
3. MAKE CLEAN CUTS AND DO NOT DAMAGE STAKES OR SPLIT ENDS DURING INSTALLATION, USE A PILOT BAR IN FIRM SOILS.
4. SOAK CUTTINGS FOR 24 HOURS (MIN.) PRIOR TO INSTALLATION.
5. TAMP THE SOIL AROUND THE STAKE.
6. EXTEND STAKES IN TO WATER SATURATION ZONE.

PLANTING DETAIL

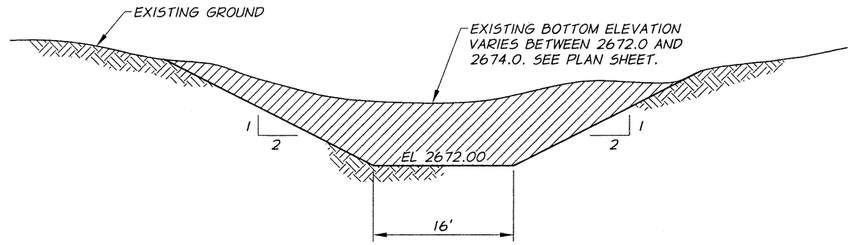
N.T.S.



NOTE:
USE MATERIAL REMOVED FROM EXISTING LEVEE TO CONSTRUCT NEW LEVEE.

TYPICAL LEVEE SECTION

N.T.S.



CHANEL DETAIL

N.T.S.

REVISION	BY	DATE	HORZ. SCALE NO SCALE	VERT. SCALE	
DESIGNED BY	XREFS: ??		JOB NUMBER 81-19	DATE 2010	
DRAWN BY E. ARNTZ			ACAD FILE: Elmer Design.dwg		
REVIEWED BY B. MOORE			COPYRIGHT 2010 BY ANDERSON-PERRY & ASSOC., INC.		

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DETAILS

SHEET
2

Q:\Grande_Ronde_MW\81-19_Elmer_Levee\dwg\Elmer Design.dwg, DETAILS, 3/5/2010 4:25:00 PM, earntz