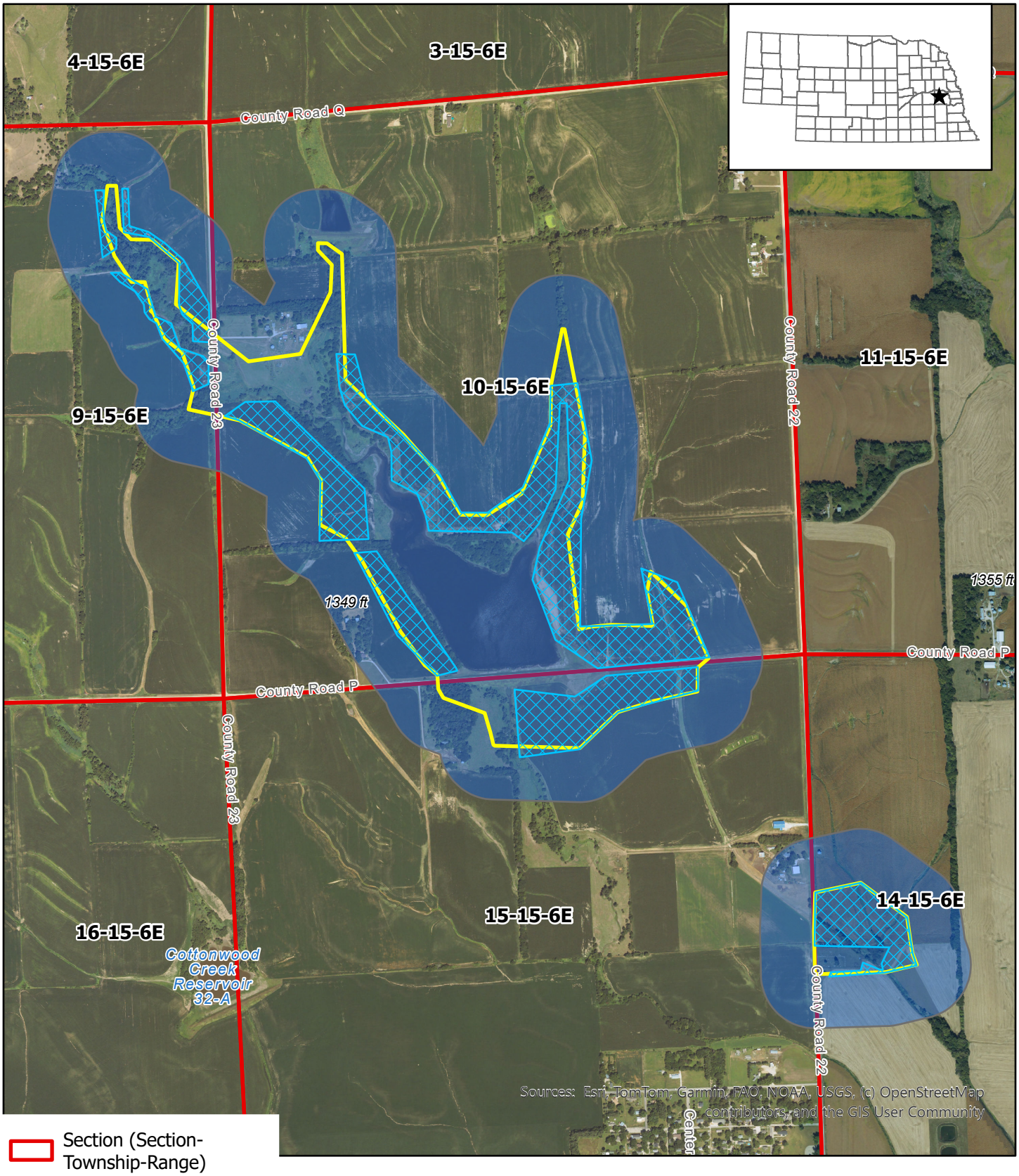
Supplemental Watershed Plan Supplement No. 5 and Environmental Assessment for the Rehabilitation of Floodwater Retarding Structure No. 21-A Cottonwood Creek Watershed

Saunders County, Nebraska

APPENDIX C

Support Maps



Section (Section-Township-Range)

Archeological Survey

APE - Ground Disturbance

Area of Potential Effect (APE)

Cottonwood 21-A Dam Rehabilitation
Section 1, Township 15 North, Range 6 East
USGS Quadrangle: Malmo (1981)
Scale: 1:15,000

0 625 1,250 1,875 2,500 Feet

Maps are for graphical purposes only. They do not represent a legal survey. While every effort has been made to ensure that these data are accurate and reliable within the limits of the current state of the art, NRCS cannot assume liability for any damages caused by any errors or omissions in the data, nor as a result of the failure of the data to function on a particular system. NRCS makes no warranty, expressed or implied, nor does the fact of distribution constitute such a warranty. Archaeological site location information is protected by Section 304 of the National Historic Preservation Act of 1966 (as amended) and Nebraska Revised Statute 84-712.05([14] and [15]) and is not intended for public distribution. Created by MAB on 7/18/2025

USDA Natural Resources Conservation Service
U.S. DEPARTMENT OF AGRICULTURE

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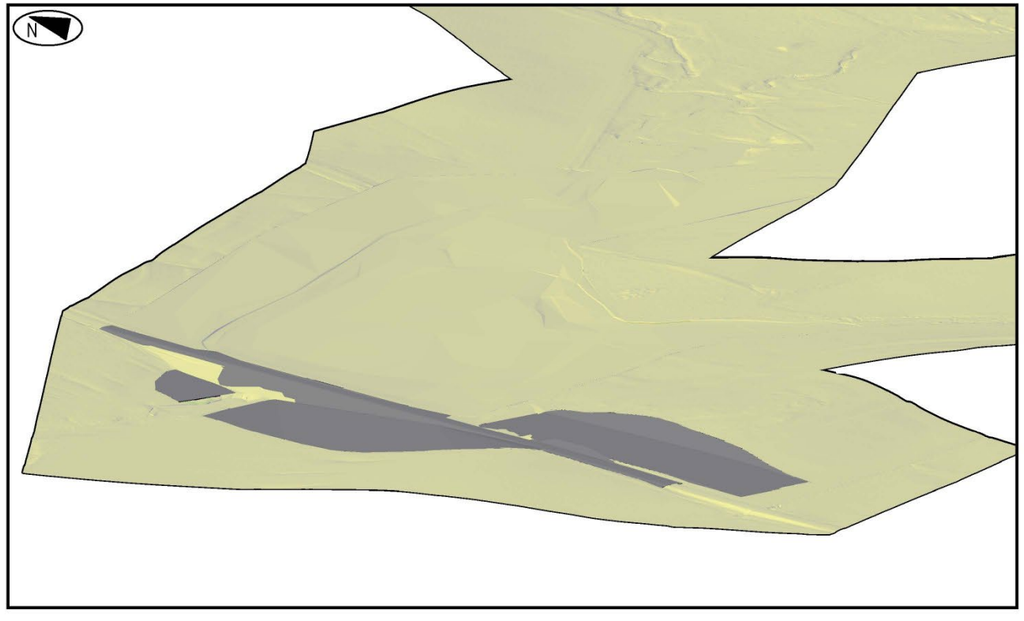
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C0.1	POOL EXTENT EASEMENT OVERLAY
C1.0	SITE OVERVIEW
C1.1	SITE PLAN
C1.2	SITE PLAN - CEMETERY
C2.0	GRADING PLAN
C2.1	CUT / FILL PLAN
C3.0	PLAN & PROFILE - EXISTING PRINCIPAL
C3.1	PLAN & PROFILE - ROAD
C3.2	PLAN & PROFILE - AUX.
C3.3	PLAN & PROFILE - DAM
C3.4	PLAN & PROFILE - CEMETERY BERM
C3.5	PLAN & GEOLOGICAL PROFILE - AUX.
C4.0	DETAILS

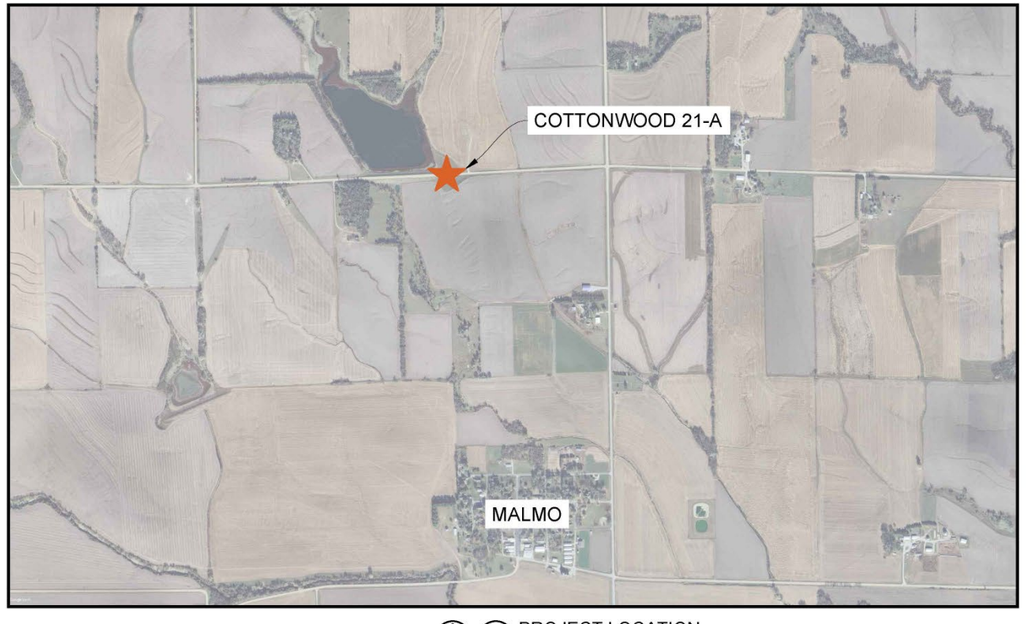
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COTTONWOOD 21-A WATERSHED PLAN - EA

PROPOSED ACTION (PREFERRED ALTERNATIVE)

LPNNRD
S10, T15N, R6E
Malmo, Nebraska 68066





N 1 PROJECT LOCATION
NOT TO SCALE

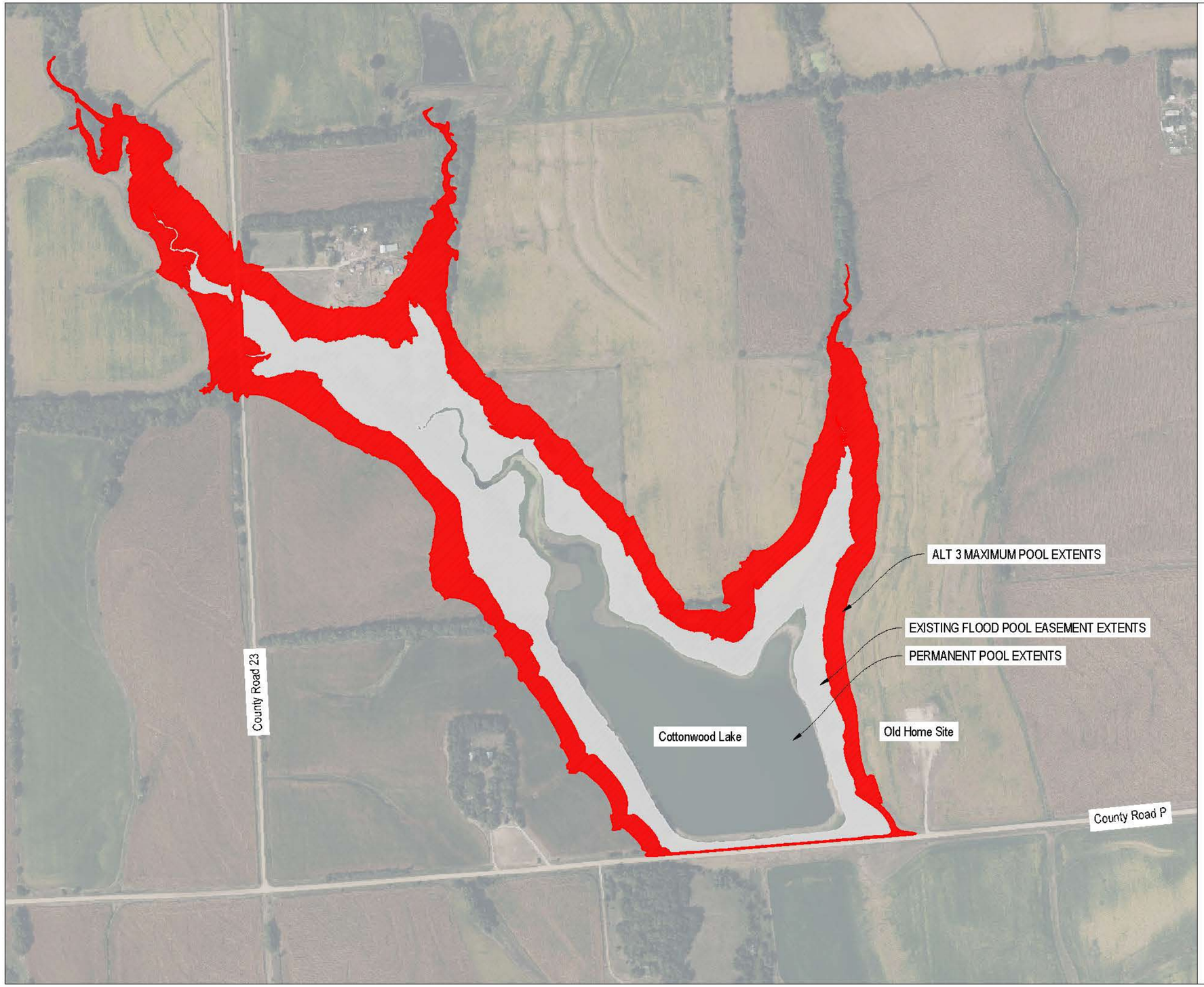
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Phone: (402) 525-3651
thazard@hazardeng.com

COVER

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LPNNRD
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Lat: 41.2784 Long: -96.7277

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POOL EXTENT EASEMENT LEGEND

- ALT 3 : 45.94 ACRES
- EXISTING FLOOD POOL EASEMENT : 39.95 ACRES
- NO HATCH — PERMANENT POOL : 32.69 ACRES

0 250 500 Feet

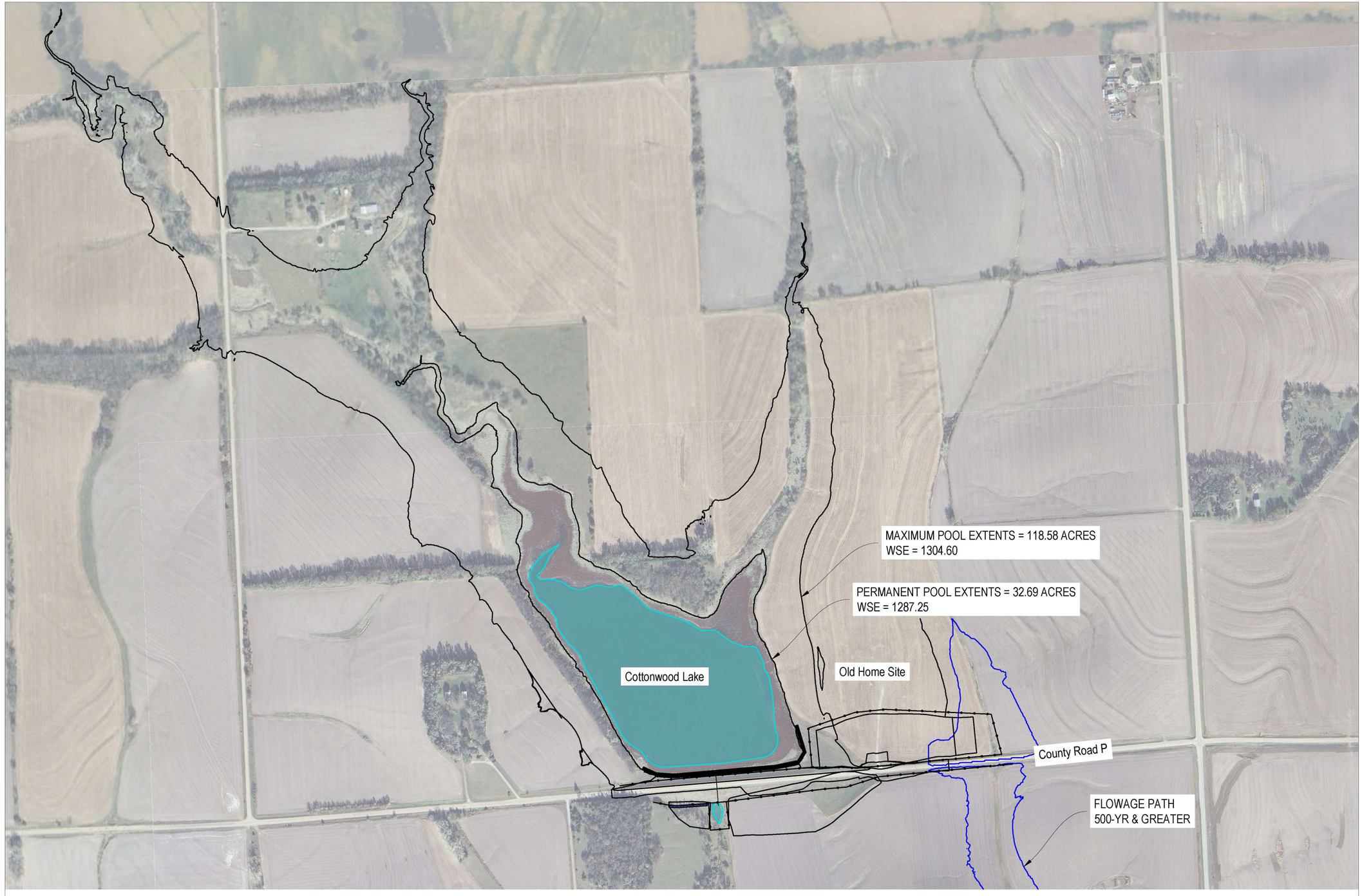
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POOL EXTENT EASEMENT OVERLAY

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Malmo, Nebraska 68066
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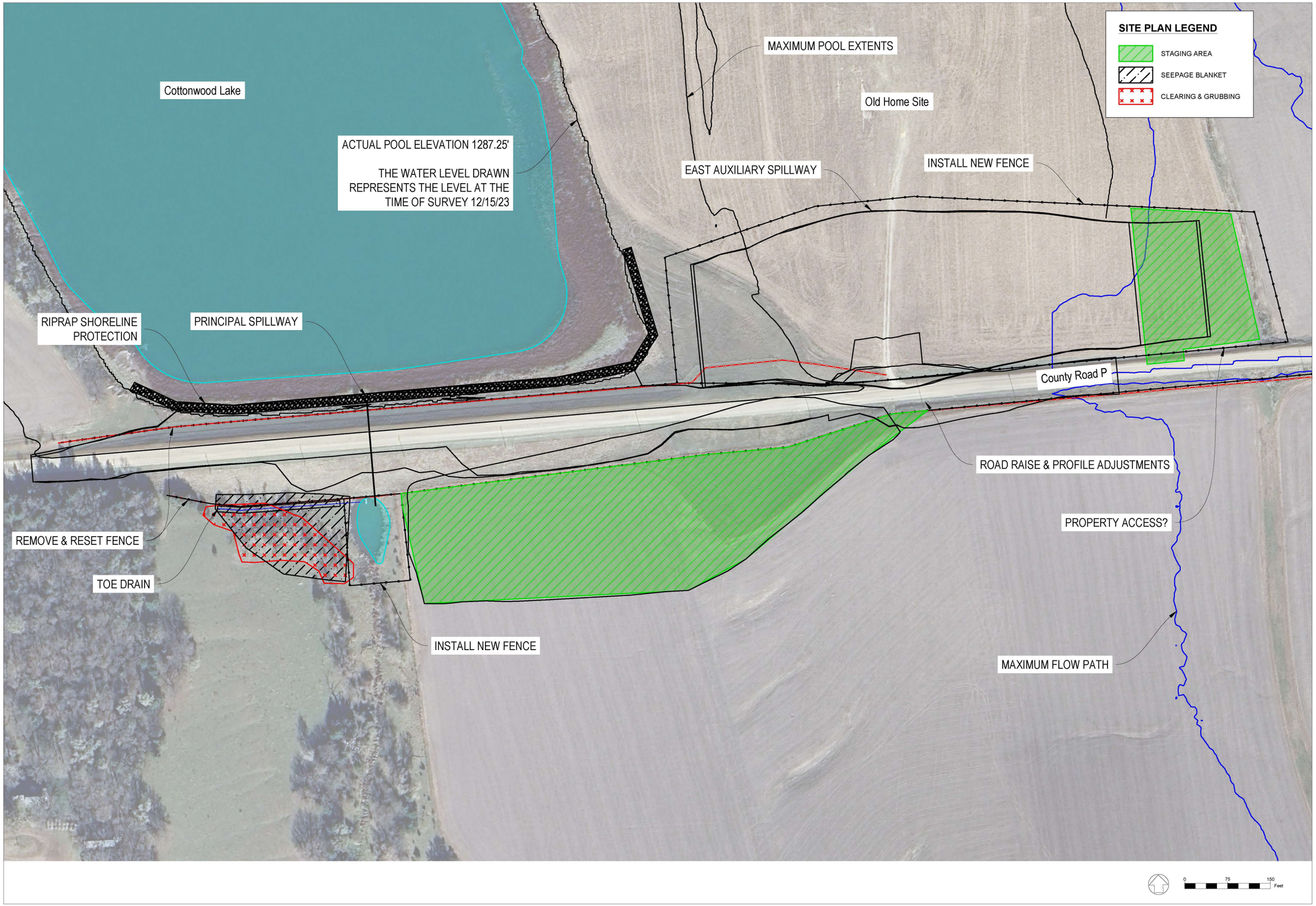
SITE OVERVIEW

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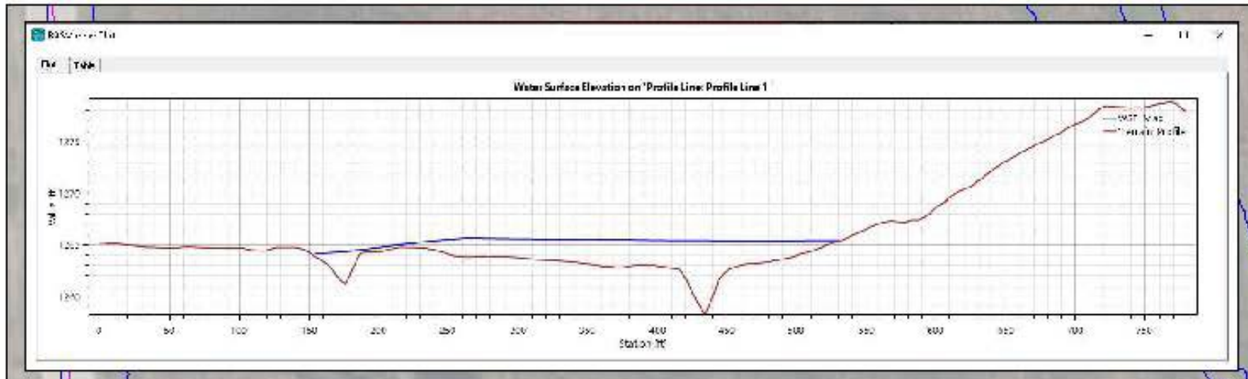
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SITE PLAN

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LPNNRD
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Lat: 41.2784 Long: -96.7277

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HYDRAULIC DATA:

- FLOWAGE EASEMENT EXTENTS REPRESENT IMPACTS DURING THE PROBABLE MAXIMUM FLOOD (PMF) = 23.4" RAIN EVENT
- THE AUXILIARY SPILLWAY BEINGS TO OPERATE AT ABOUT A 450-YR STORM EVENT FOR THE HIGH HAZARD REHABILITATION ALTERNATIVE #2 - EAST

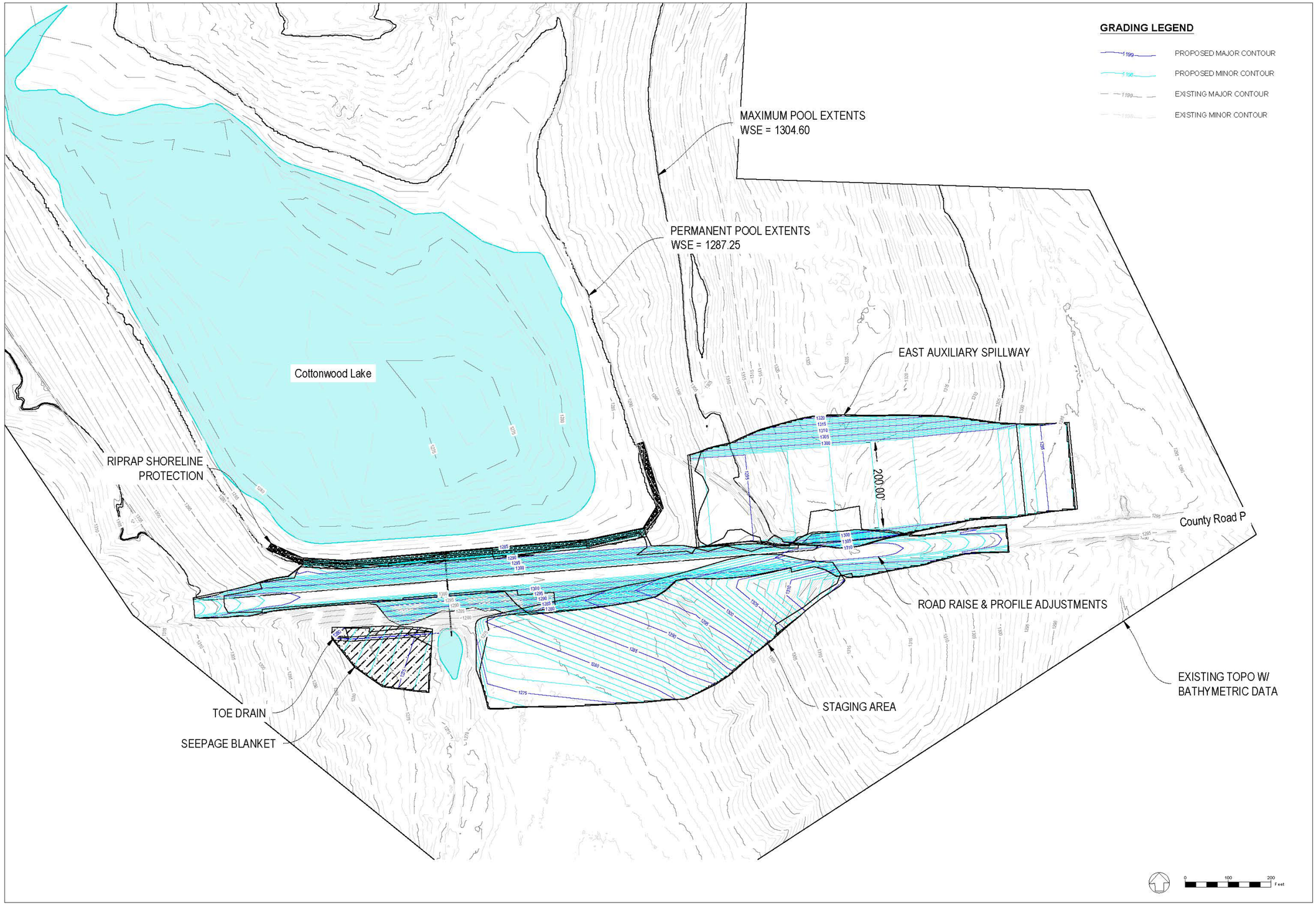
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SITE PLAN - CEMETERY

COTTONWOOD 21-A WATERSHED PLAN - EA
LPW/NRD
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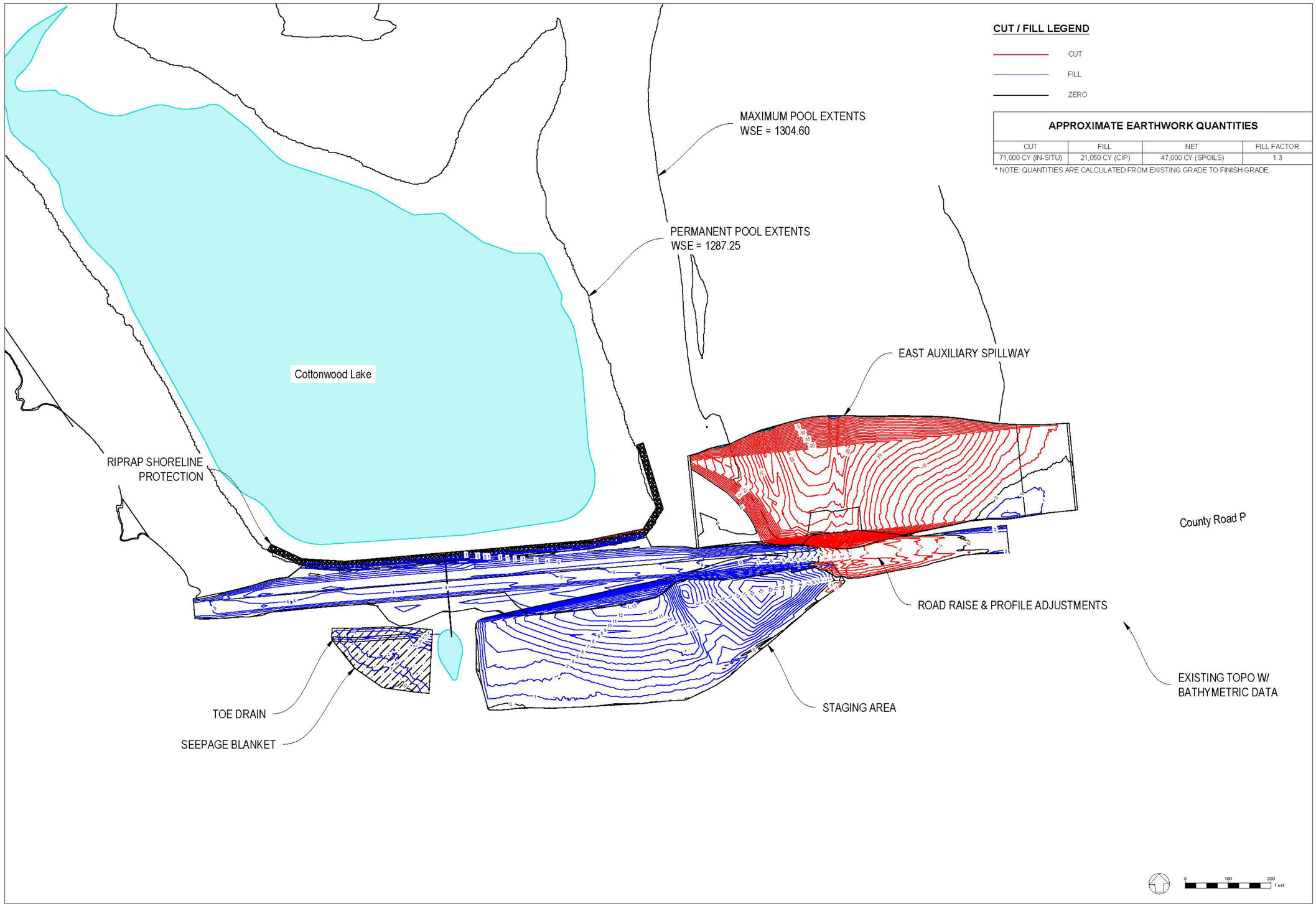
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GRADING PLAN

COTTONWOOD 21-A WATERSHED PLAN - EA
LPNNRD
S10, T15N, R6E
Malmo, Nebraska 68066
Lat: 41.2784 Long: -96.7277

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APPROXIMATE EARTHWORK QUANTITIES

CUT	FILL	NET	FILL FACTOR
71,000 CY (IN-SITU)	21,050 CY (CIP)	47,000 CY (SPOILS)	1.3

* NOTE: QUANTITIES ARE CALCULATED FROM EXISTING GRADE TO FINISH GRADE.

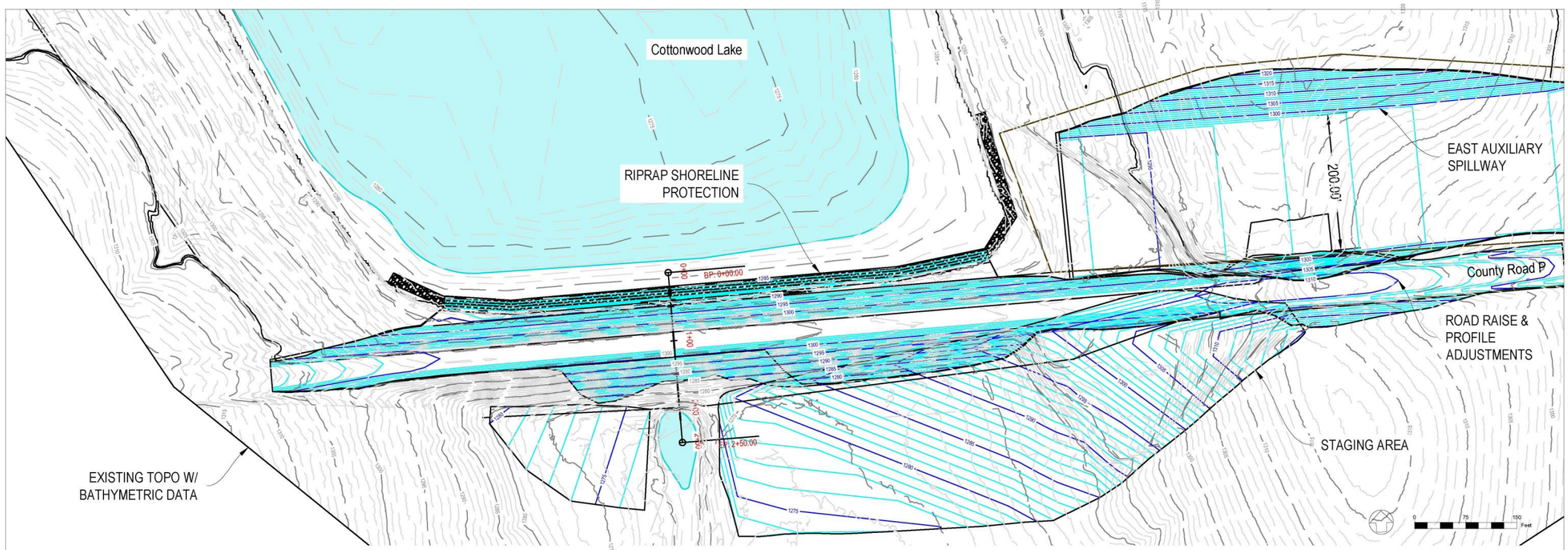
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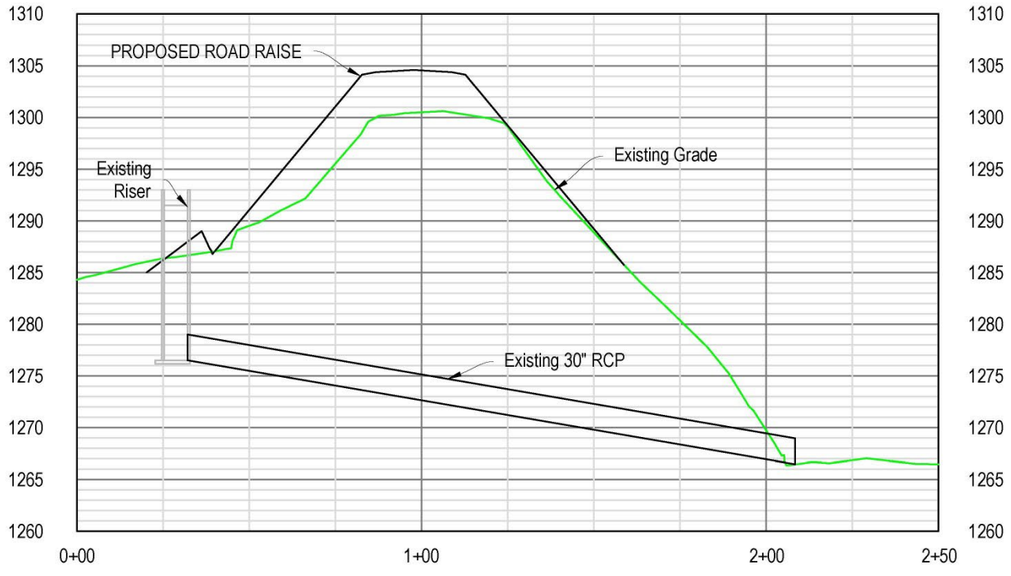
CUT / FILL PLAN

COTTONWOOD 21-A WATERSHED PLAN - EA
LPNNRD
S10, T15N, R6E
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EXISTING PRINICPAL SPILLWAY SECTION PROFILE

VERTICAL EXAGGERATION = 3:1

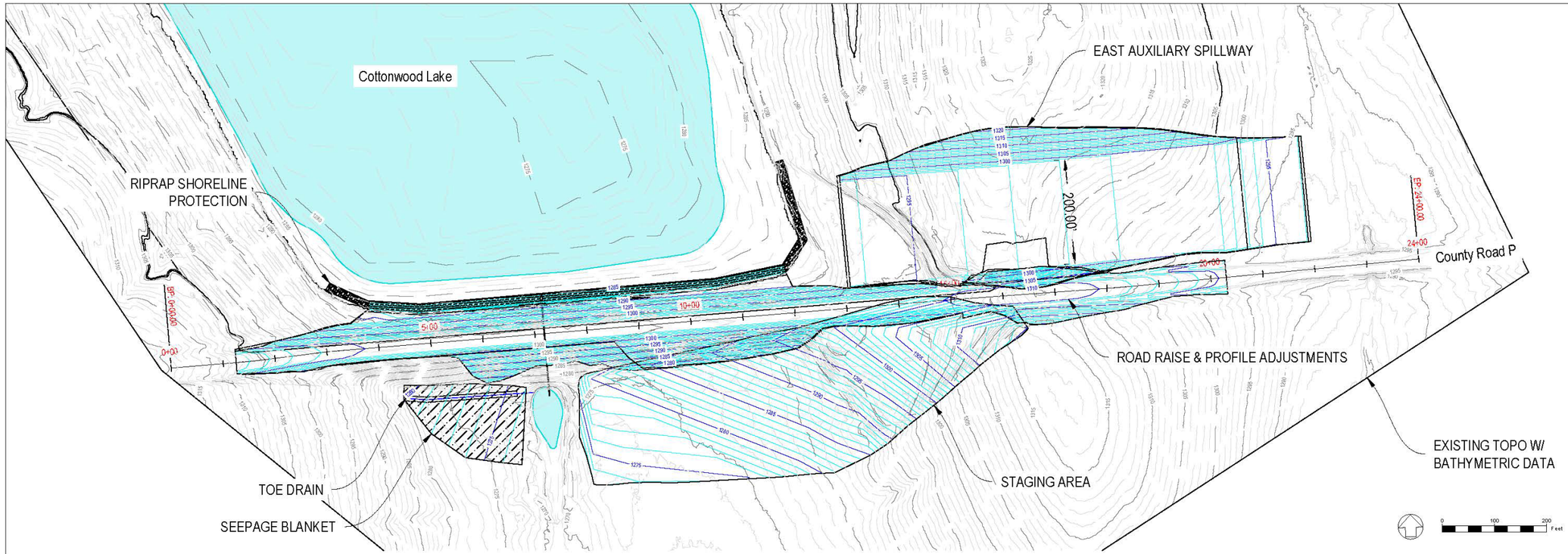
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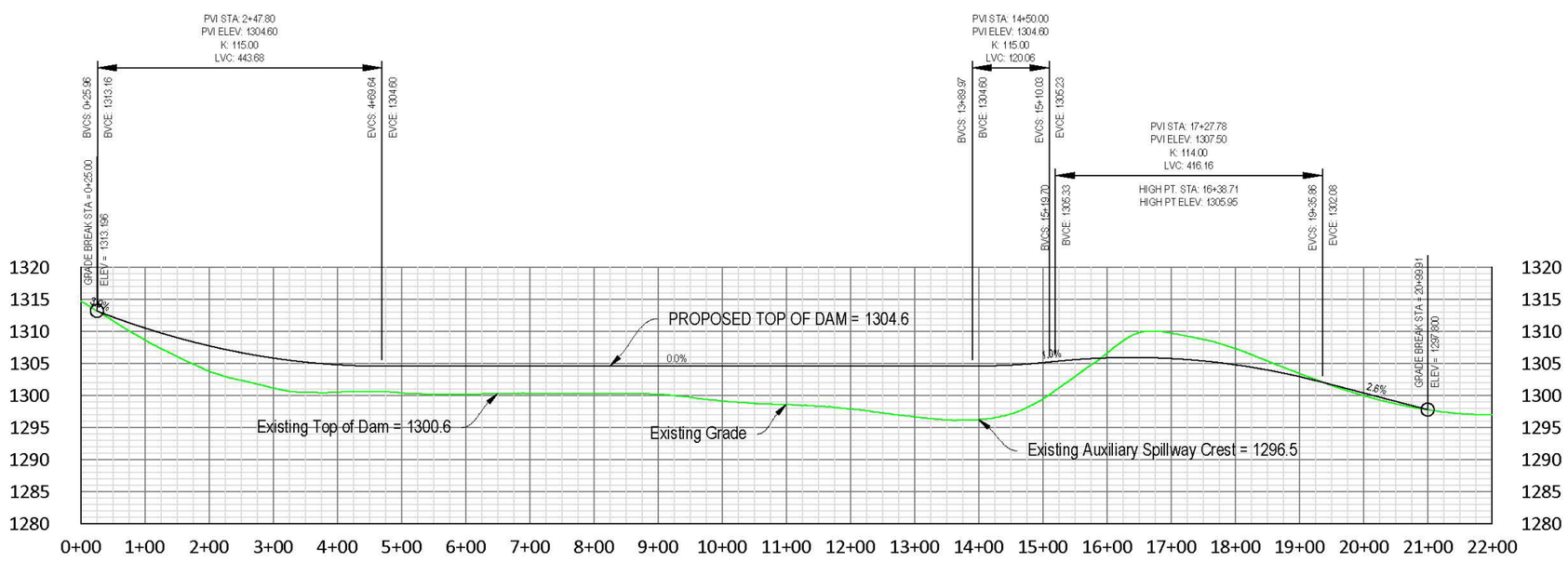
PLAN & PROFILE - EXISTING PRINCIPAL

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Existing Road Centerline PROFILE
VERTICAL EXAGGERATION = 10:1

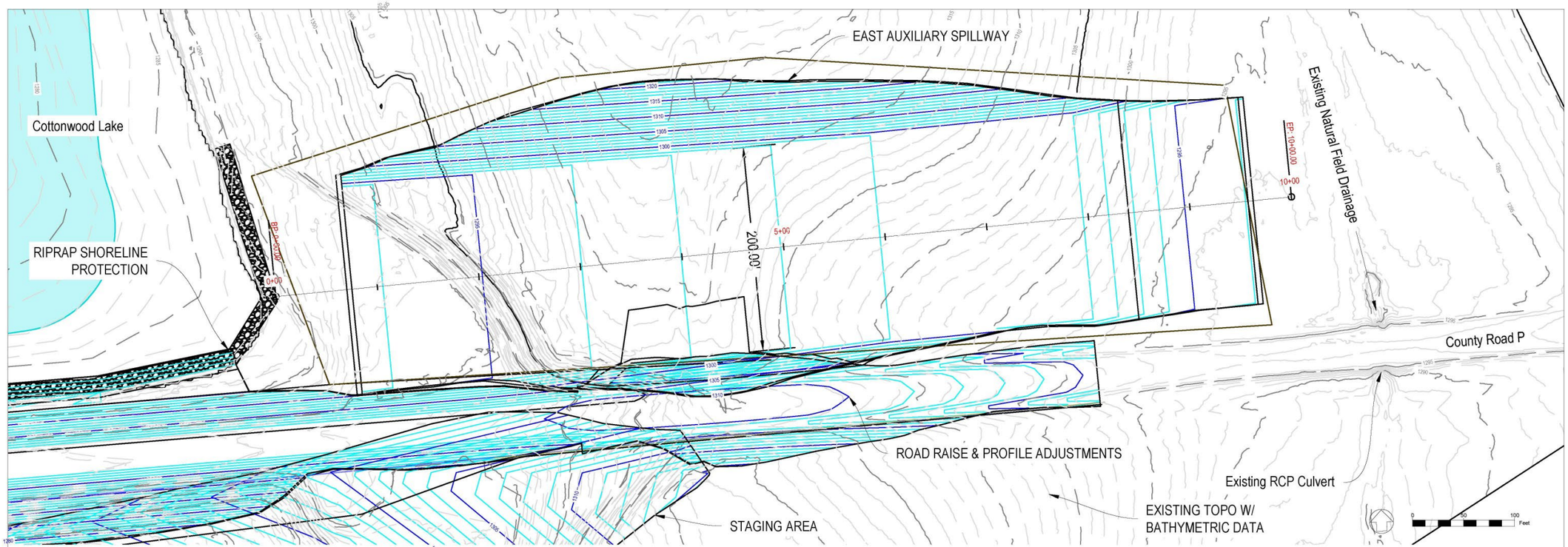
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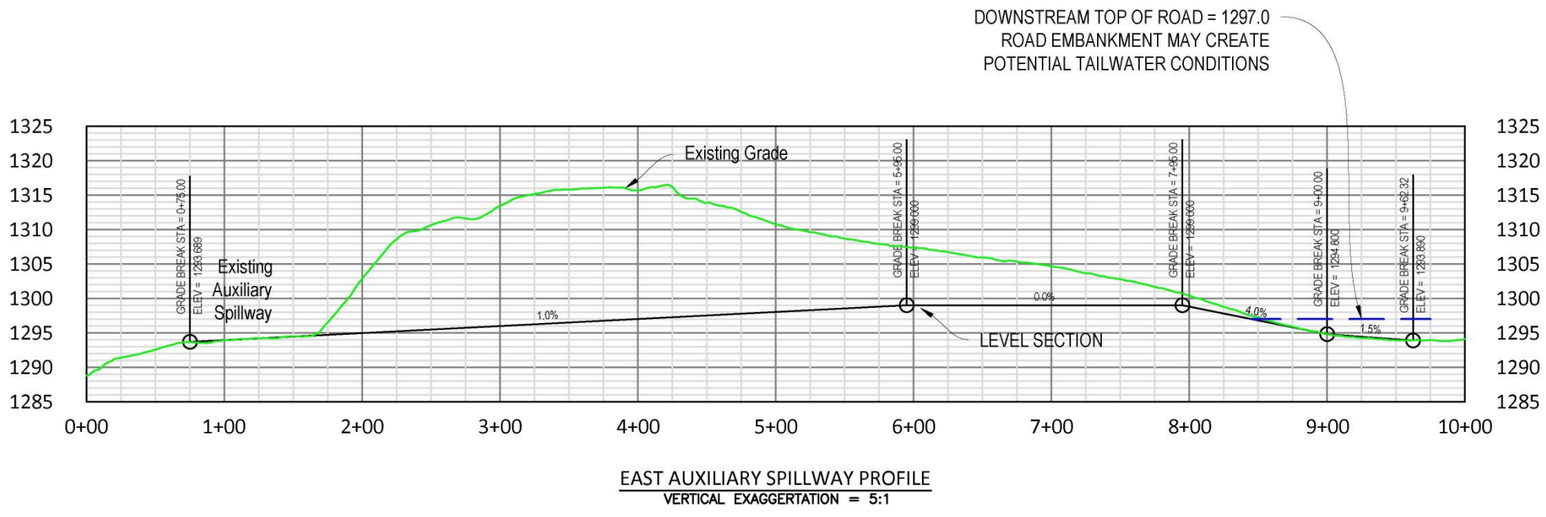
PLAN & PROFILE - ROAD

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EAST AUXILIARY SPILLWAY PROFILE
VERTICAL EXAGGERTATION = 5:1

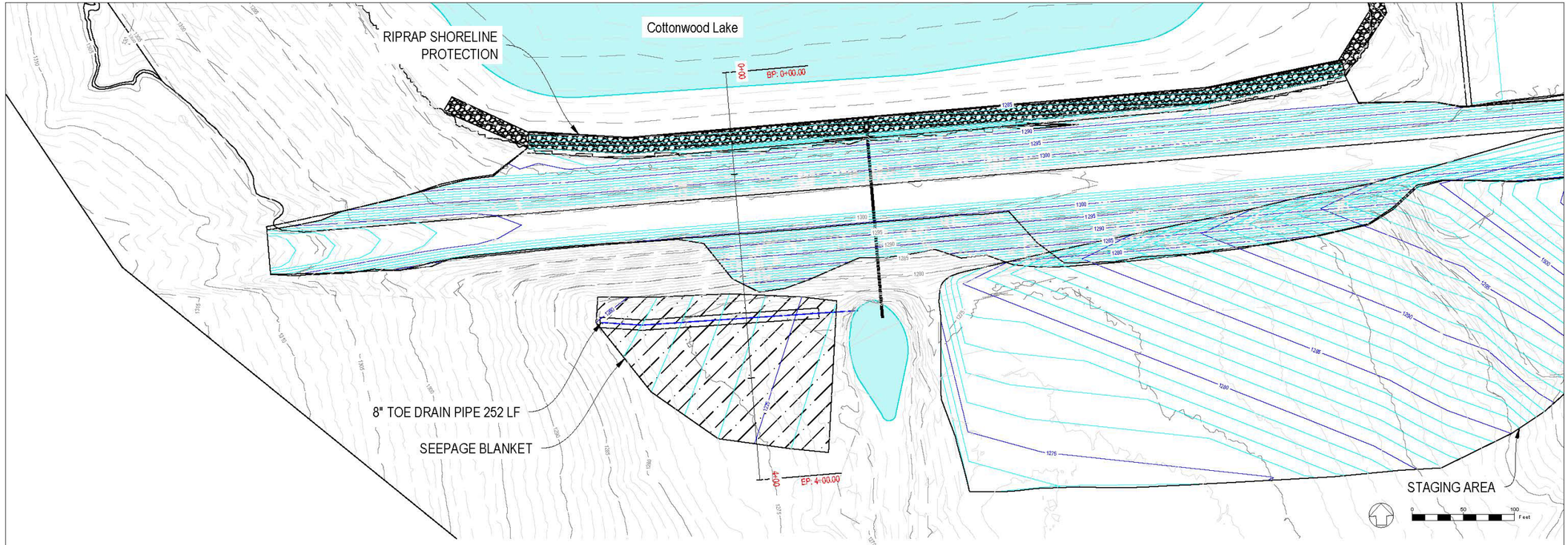
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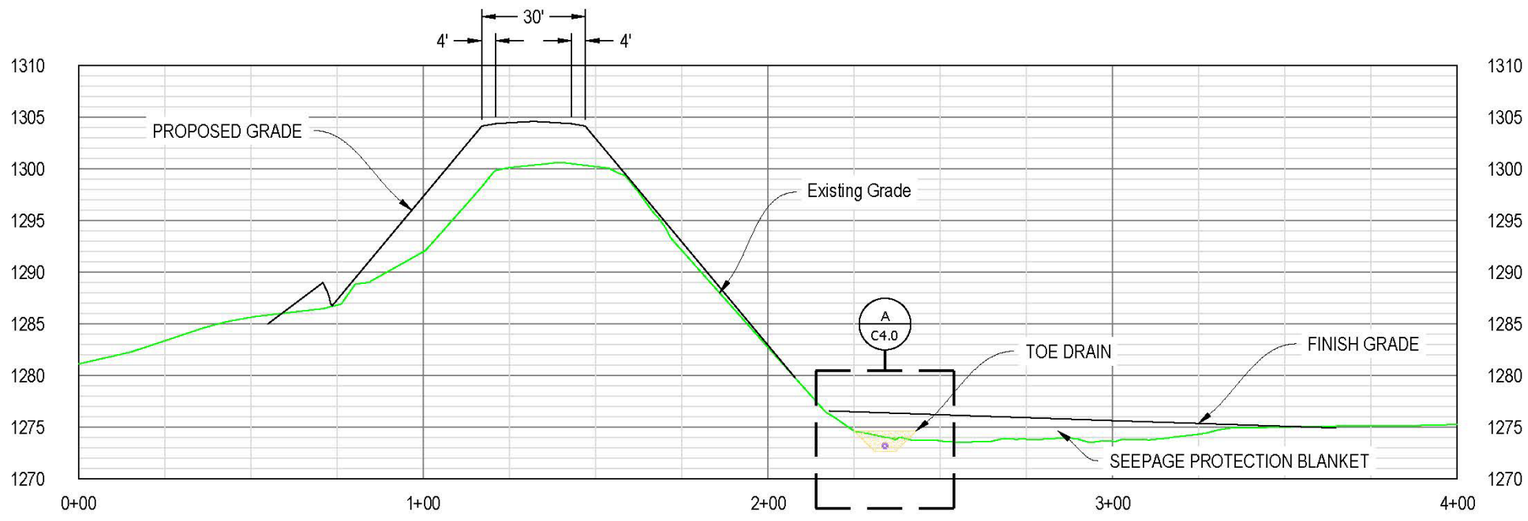
PLAN & PROFILE - AUX.

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DAM SECTION PROFILE
VERTICAL EXAGGERATION = 3:1

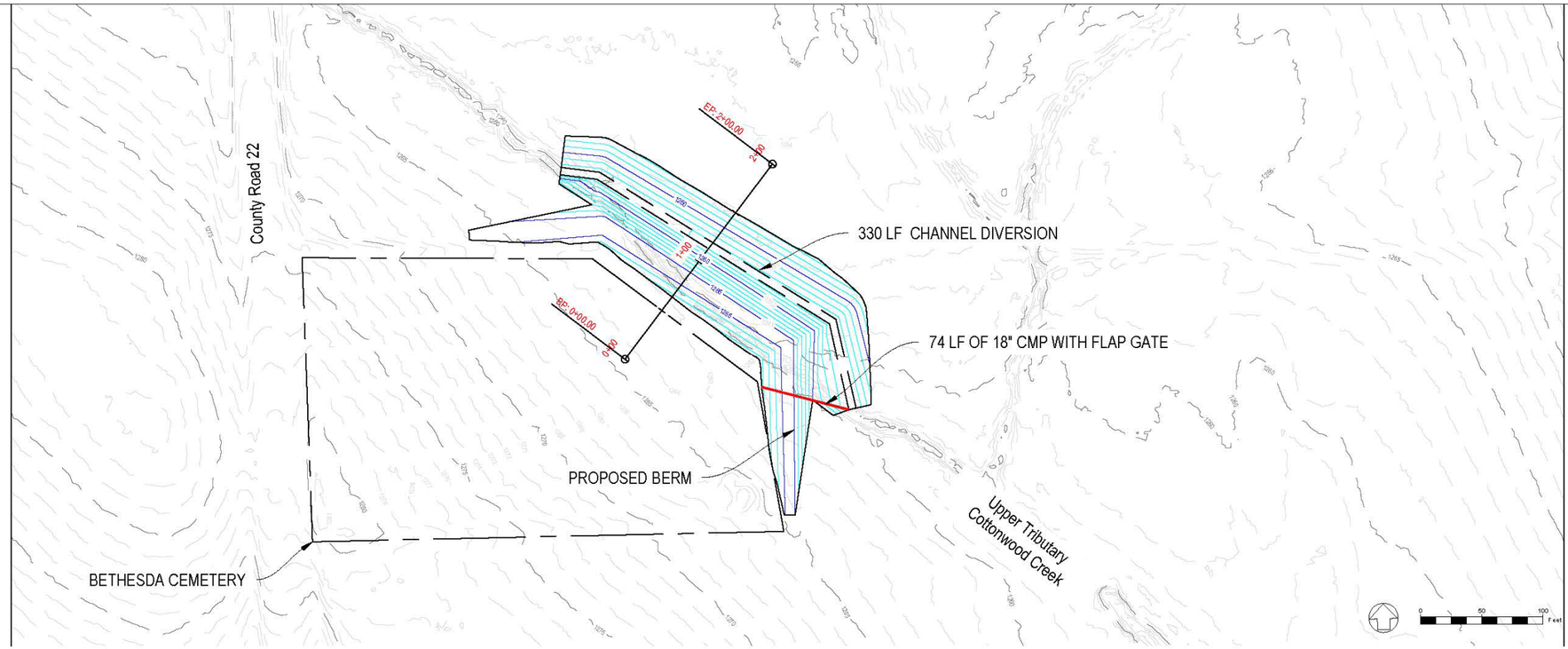
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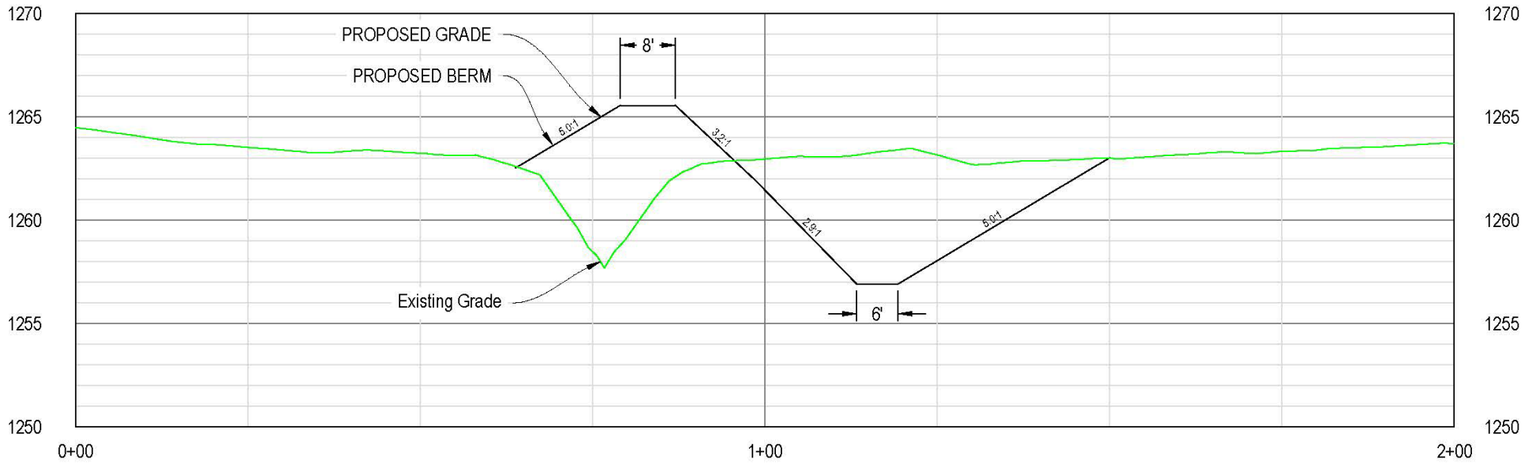
PLAN & PROFILE - DAM

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CEMETERY BERM SECTION PROFILE

VERTICAL EXAGGERATION = 3:1

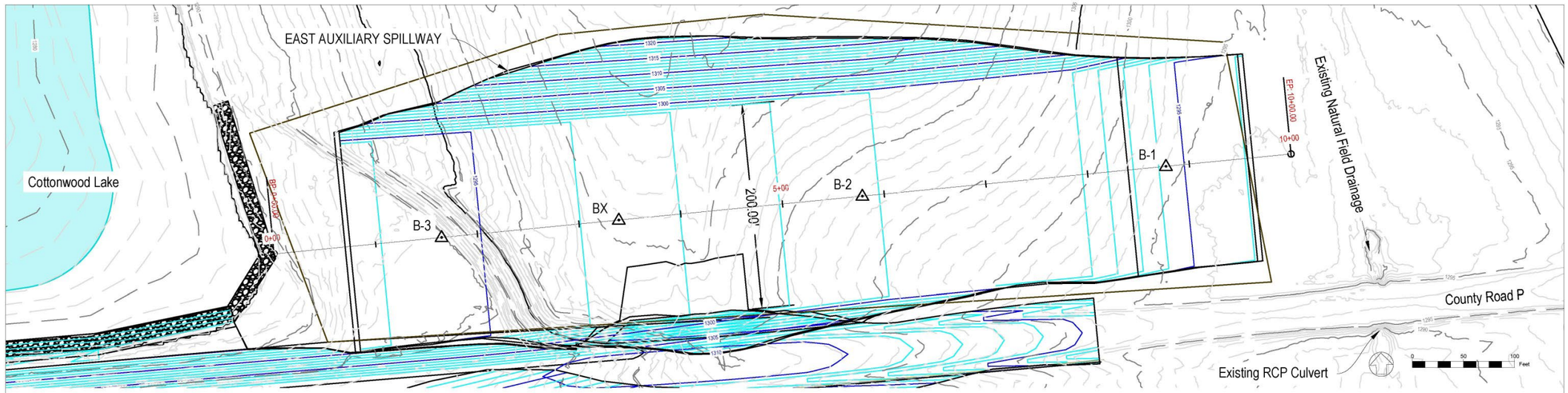
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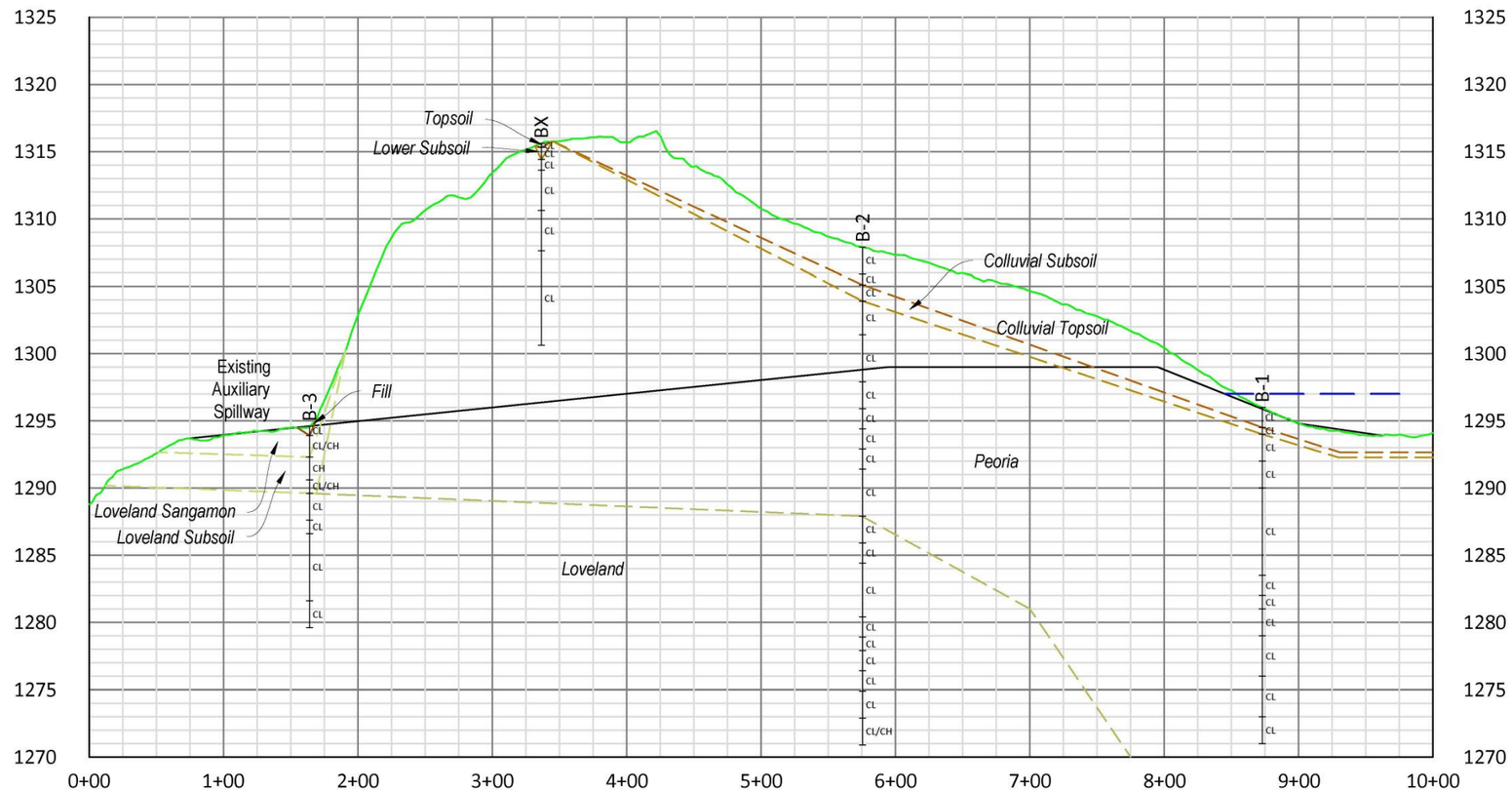
PLAN & PROFILE - CEMETERY

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EAST AUXILIARY SPILLWAY GEOLOGICAL PROFILE
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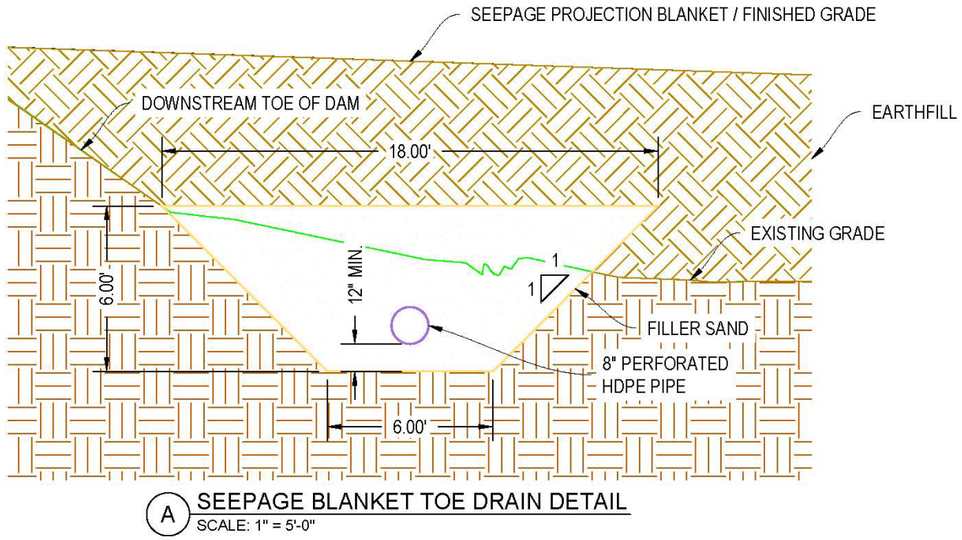
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PLAN & GEOLOGICAL PROFILE - AUX.

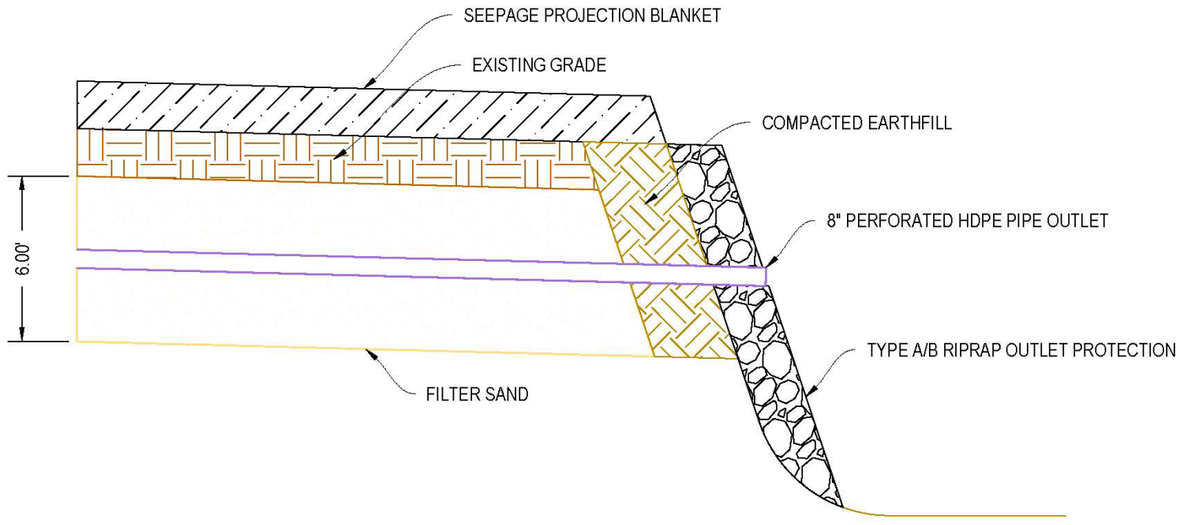
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C3.5



A SEEPAGE BLANKET TOE DRAIN DETAIL
SCALE: 1" = 5'-0"



B TOE DRAIN PROFILE DETAIL
SCALE: 1" = 5'-0"

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DETAILS

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