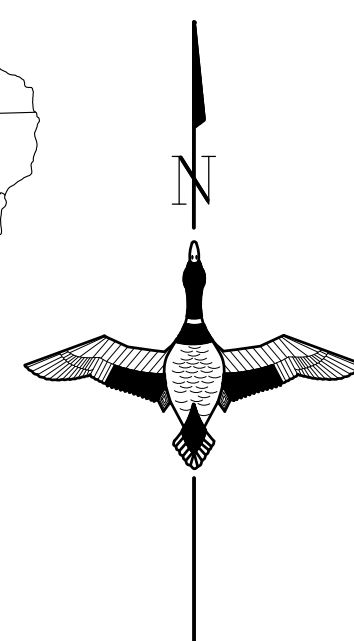
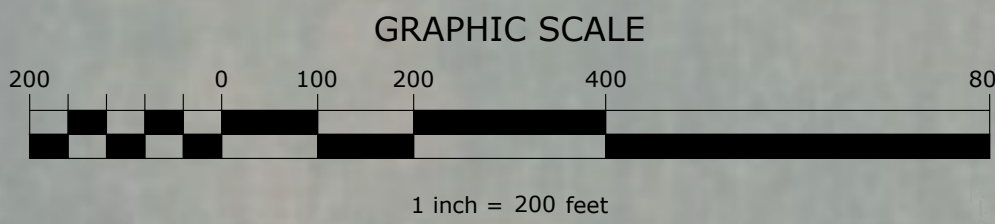




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C:\Users\woodbury\Documents\Iowa - Ducks Unlimited Incorporated\Iowa 02_C3D Projects\IA-340-2 CREP Projects\WRIGHT PETERSON\C3D DRAWING\WRIGHT-PETERSON-Topo.dwg, 7/9/2026 11:59 AM, Lucas Woodbury, Topo C051, None



CAD FILE: Wright-Peterson-Topo
DESIGNED BY: A.S.
DRAWN BY: C.K.
SURVEYED BY: A.S., J.W.
REVIEWER: T.P.
DATE: 6-19-24
PROJECT NUMBER: IA-340-8
C051

NOT FOR CONSTRUCTION

NOTE:
CONSTRUCTION SITE ACCESS WILL BE ON 200TH
ST. ALONG THE EASEMENT BOUNDARY.

PROPOSED BERM
TOP ELEV. 1198.7'

TILE #4 - DAYLIGHT 15"Ø
HDPE DUAL WALL
E:4866533.3880
N:3740536.4073
INV. ELEV. 1195.1'
INSTALL APPROX. 617 L.F. @ 0.14%
SLOPE; PROVIDE 3' MIN. GROUND
COVER OVER PIPE.

CASADY FAMILY
REVOCABLE TRUST

PETERSON, RICK E.

PROPOSED SEDIMENTATION BASIN; BOTTOM OF
BASIN ELEVATION 1192.0 W/ 3:1 SIDE SLOPES;
BASIN BOTTOM DIMENSIONS 15' WIDE X 30' LONG

BREAK EXISTING 12"Ø CLAY TILE
FROM INTERCEPT LOCATION FOR 100' IN
DOWNSTREAM DIRECTION
(CLAY; CRUSH EXISTING TILE IN PLACE)

YEAR STO
/ 1197.6'

CROWE FARMS, LLC

TILE #2 - INTERCEPT EXISTING 12" Ø
CLAY TILE AND RE-ROUTE W/
18" Ø HDPE DUAL-WALL PIPE
AT 0.10% SLOPE FOR 667 L.F.
TIE IN INVERT ELEV. 1195.76'
OUTLET INVERT ELEV. 1195.1'
EASTING: 4867507.9640
NORTHING: 3742372.6300

TILE #2 - DAYLIGHT 18"Ø
HDPE DUAL WALL
E: 4867026.6688
N: 3741991.7798
INV. ELEV. 1195.1'
INSTALL APPROX. 667 L.F.
SLOPE; PROVIDE 3' MIN. C
COVER OVER PIPE.

- APPROX. PROPERTY LINE

50' TILE BREAK ON
5" Ø EXISTING CLAY TILE
(CLAY; CRUSH EXISTING TILE)

BREAK EXISTING 12"Ø CLAY TILE
FROM INTERCEPT LOCATION FOR 100' IN
DOWNSTREAM DIRECTION
(CLAY; CRUSH EXISTING TILE IN PLACE)

TILE #3 - INTERCEPT EXISTING 1.
CLAY TILE AND RE-ROUTE W/
15" Ø HDPE DUAL-WALL PIPE
AT 0.30% SLOPE FOR 522 L.F.
TIE IN INVERT ELEV. 1196.69'
OUTLET INVERT ELEV. 1195.1'
EASTING: 4867270.4969
NORTHING: 3741416.1053

LE #3 - DAYLIGHT 15"Ø
PIPE DUAL WALL
4866754.0391
3741494.9597
V. ELEV. 1195.1'
STALL APPROX. 522 L.F.
PIPE; PROVIDE 3' MIN.
COVER OVER PIPE.

PROPOSED WETLAND GRADING AREA,
GRADE DOWN TO ELEV. 1193.0'

PROPOSED EDGE OF NWL ELEVATION
4.99 ACRES @ 1194.1' FSL

PETERSON, RICK E.

PROPOSED BORROW AREA FOR CLAY CORE;
TRIP FIRST 2-3' TOPSOIL BEFORE EXCAVATING BORROW;
ESTIMATED DEPTH OF 6-7' AFTER REMOVAL OF CLAY MATERIAL
TO BE BACKFILLED WITH WASTE MATERIAL AND COMPACTED,

EASEMENT BOUNDARY

THIS AREA SHALL BE SLOPED TO
DRAIN TOWARDS THE WETLAND

200TH STREET

PROPOSED 200TH STREET SITE ACCESS

TILE #4 - DAYLIGHT 15"Ø
HDPE DUAL WALL
E:4866533.3880
N:3740536.4073
INV. ELEV. 1195.1'
INSTALL APPROX. 617 L.F. @ 0.14%
SLOPE; PROVIDE 3' MIN. GROUND
COVER OVER PIPE.

#4 - INTERCEPT EXISTING 12" Ø
TILE AND RE-ROUTE W/
Ø HDPE DUAL-WALL PIPE
.14% SLOPE FOR 617 L.F.
IN INVERT ELEV. 1196.00'
LET INVERT ELEV. 1195.1'
ING: 4866643.8385
THING: 3739930.1590

	APPROXIMATE PROPERTY LINE
	PROPOSED DIKE
	PROPOSED CHANNEL/DITCH
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	PROPOSED UNDERGROUND ELECTRIC
	PROPOSED OVERHEAD ELECTRIC
	PROPOSED PIPE
	PROPOSED WATER CONTROL STRUCTURE
	PROPOSED HEADWALL / ENDWALL
	PROPOSED SOIL BORING
	PROPOSED MANHOLE
	PROPOSED SPOT ELEVATION
	PROPOSED FULL SERVICE LEVEL (FSL)
	PROPOSED RIPRAP
	PROPOSED SPOIL AREA
	PROPOSED BORROW AREA
	PROPOSED DITCH
	PROPOSED DIKE

DESIGN CRITERIA			
DESIGN CRITERIA	VALUE	UNIT	REQUIREMENT/NOTES
WATERSHED AREA	626	ACRES	500 MIN.
POOL NORMAL WATER LEVEL (NWL) ELEVATION	1194.1	FT.	
DESIGNED WETLAND POOL AREA (@ NWL)	4.99	ACRES	
PERCENT POOL AREA TO WATERSHED AREA	0.8	%	>=0.50%
MAX. POOL DEPTH	1.2	FT.	
AVG. POOL DEPTH	1.2	FT.	
DEEP WATER AREA (DEPTH >3 FT)	0	ACRES	
PERCENT DEEP WATER TO POOL AREA	0	%	<25%
POOL STORAGE VOLUME AT NWL	7.192	ACRE-FT	
BERM ELEVATION	1198.7	FT.	
POOL STORAGE VOLUME AT TOP OF BERM	55.303	ACRE-FT	
MAX BERM HEIGHT	7.3	FT.	
AVG. BERM HEIGHT	3.3	FT.	
BERM LENGTH	1120	FT.	
PRIMARY WEIR ELEVATION	1194.1	FT.	
PRIMARY WEIR LENGTH	60	FT.	
10-YEAR STORM HWL IN POOL	1196.57	FT.	
10-YEAR PEAK INFLOW	899.34	CFS	
10-YEAR PEAK OUTFLOW	809.43	CFS	
25-YEAR STORM HWL IN POOL	1197.02	FT.	
25-YEAR PEAK INFLOW	1164.43	CFS	
25-YEAR PEAK OUTFLOW	1052.24	CFS	
100-YEAR STORM HWL IN POOL	1197.58	FT.	
100-YEAR PEAK INFLOW	1641.74	CFS	
100-YEAR PEAK OUTFLOW	1505.66	CFS	

WETLAND POOL CHARACTERISTICS			
WETLAND POOL DEPTH (FT.)	ELEV. (FT.)	INCREMENTAL AREA (ACRE)	CUMULATIVE VOLUME (ACRE-FT)
0.0	1192	0	-
1.0	1193	4.360	2.181
2.0	1194	4.690	6.708
2.1	1194.1	4.997	7.192
3.0	1195	5.272	11.813
4.0	1196	7.894	18.396
5.0	1197	12.049	28.368
6.0	1198	16.333	42.559
6.7	1198.7	20.079	55.303

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SITE PLAN
PROJECT NO. WRI922420D
WRIGHT COUNTY
IOWA

Revision	Sheet	Revisions	Date	By
1		NRCS/IDALS REVIEW UPDATES	9-19-24	A.S.
CAD FILE: Wright-Peterson-Site Plan DRAWN BY: A.S. DESIGNED BY: C.I.K. SURVEYED BY: A.S., J.W. BIOLOGIST: T.P. DATE: 6-19-24 PROJECT NUMBER: IA-340-8 C101				

NOT FOR CONSTRUCTION

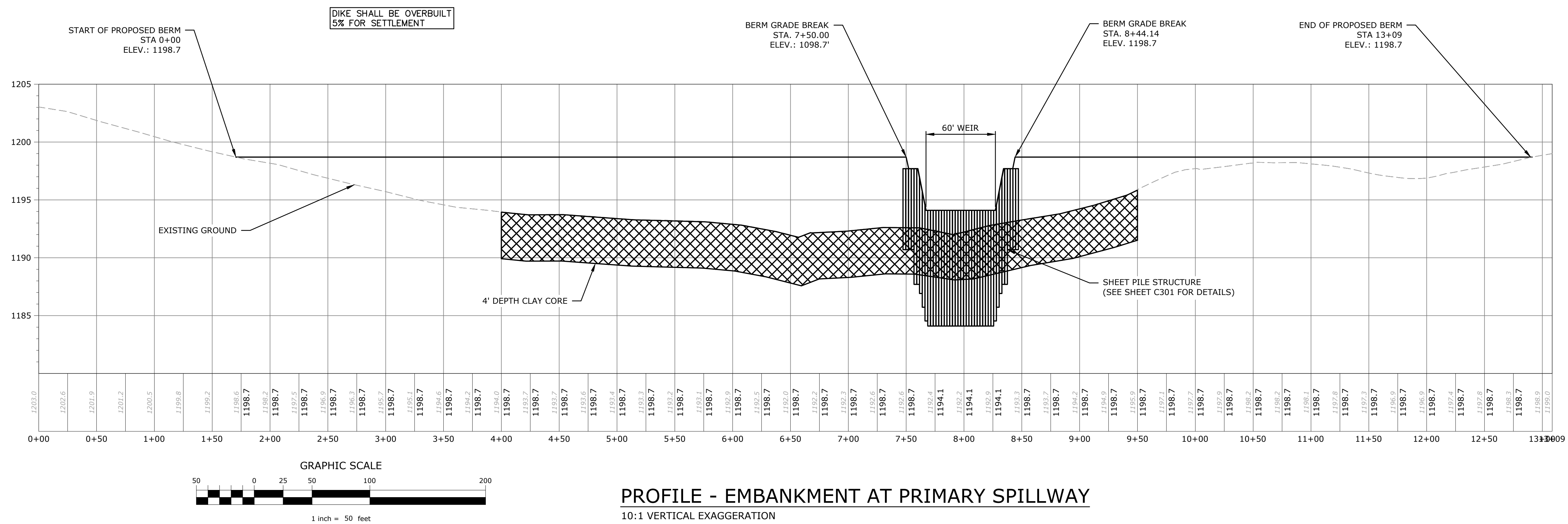
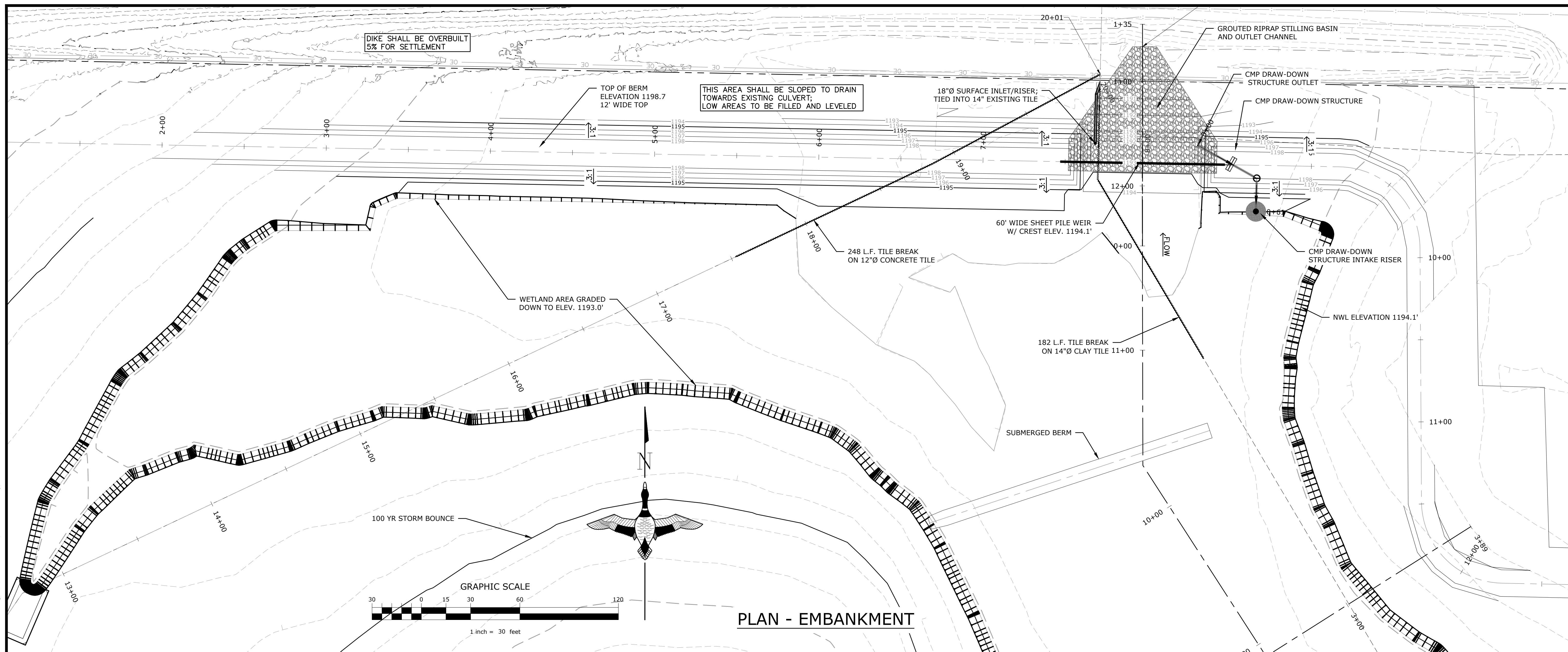
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EMBANKMENT PLAN & PROFILE
PROJECT NO. WRI22420D
WRIGHT COUNTY
IOWA

Revision	Sheet	Revisions	Date	By
1		NRCS/IDALS REVIEW UPDATES	9-19-24	A. S.
CAD FILE: Wright-Peterson-Site Plan				
DESIGNED BY: A.S.				
DRAWN BY: C.K.				
SURVEYED BY: A.S., J.W.				
BIOLOGIST: T.P.				
DATE: 6-19-24				
PROJECT NUMBER: IA-340-8				
C201				

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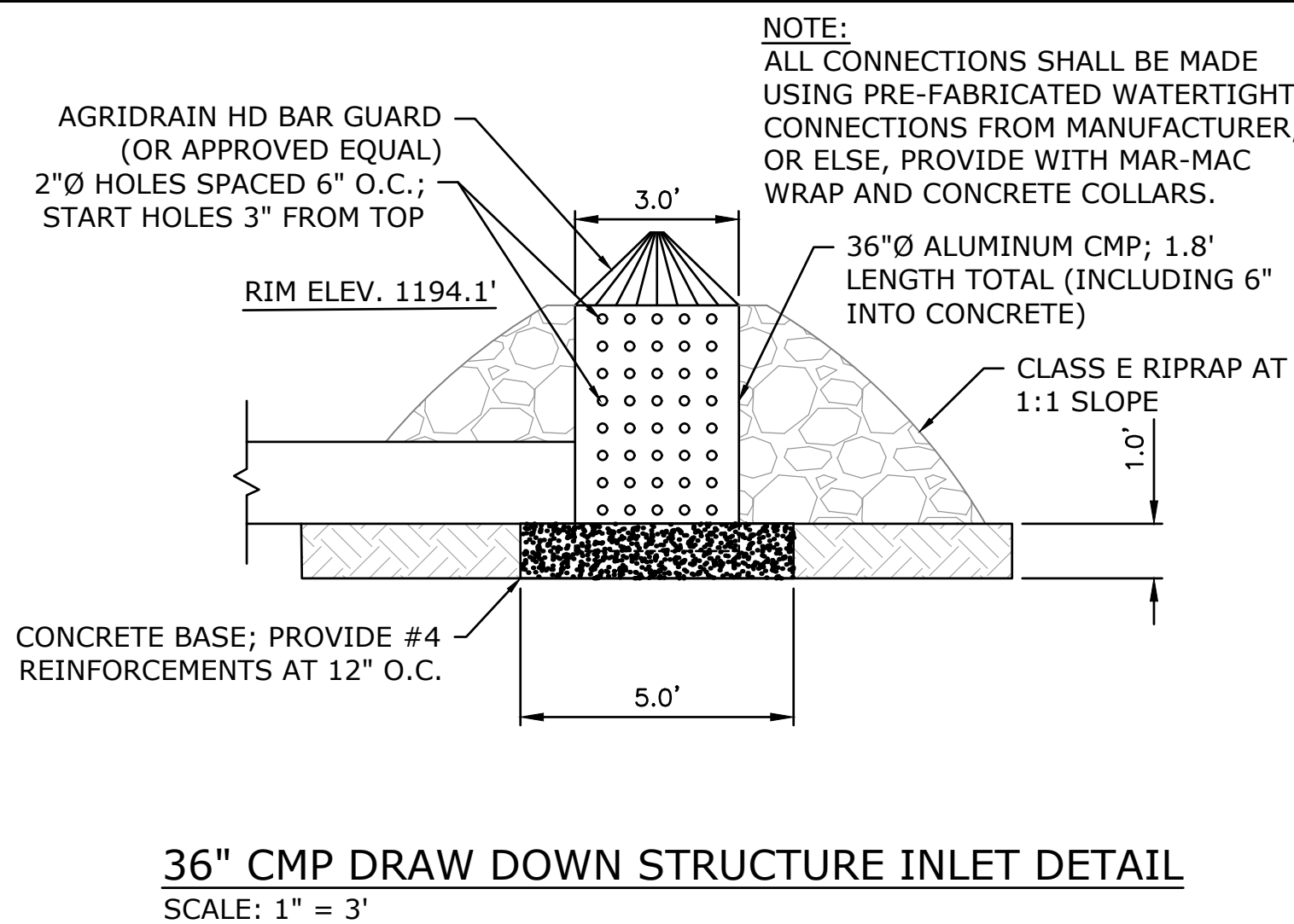
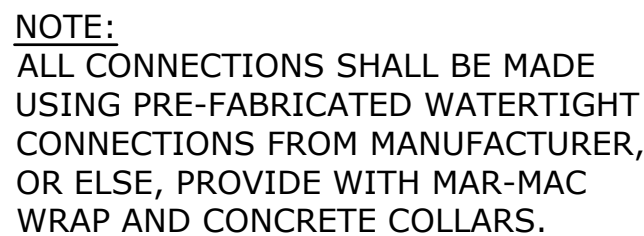
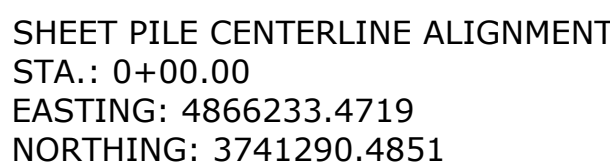
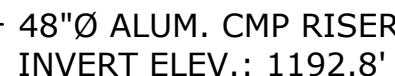
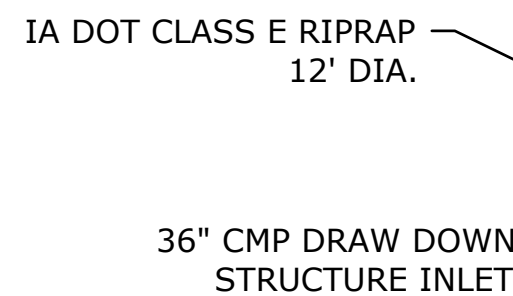
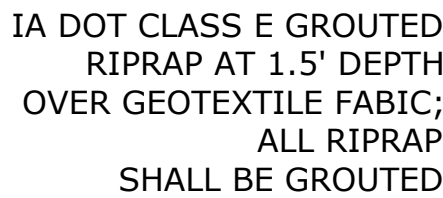
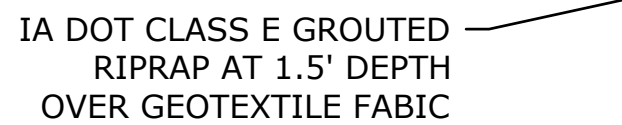
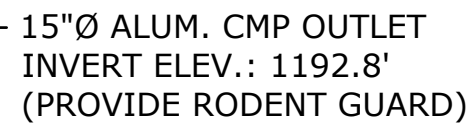
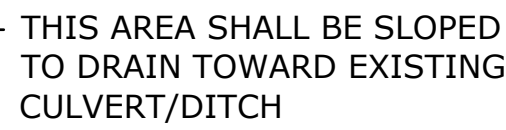
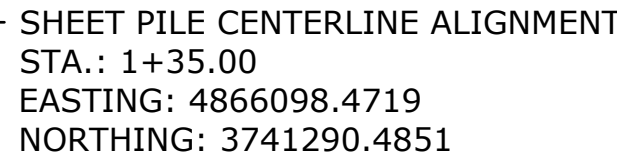
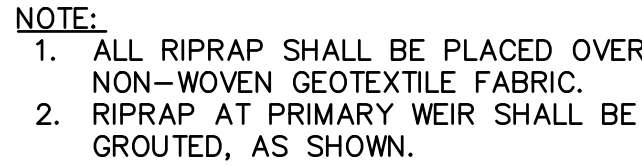


PROFILE - EMBANKMENT AT PRIMARY SPILLWAY

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C:\Users\woodbury\Documents\Iowa\02_C3D Projects\IA-340-2 CREP Projects\WRIGHT PETERSON\Site Plan.dwg, 7/9/2026 12:01 PM, Lucas Woodbury, C202 Riprap and Draw-Down Plan, None



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 ON:

ERIPRAP & DRAW-DOWN PLAN
PROJECT NO. WRI922420D
WRIGHT COUNTY
IOWA

Revision	Sheet	Revisions	Date	By
1		NKCS/IDALS REVIEW UPDATES	9-19-24	A.S.

CAD FILE:

Wright-Peterson-Site Plan

DESIGNED BY: A.S.

DRAWN BY: C.K.

SURVEYED BY: A.S., J.W.

BIOLOGIST: T.P.

DATE:
6-19-24

PROJECT NUMBER:
IA-340-8

C202

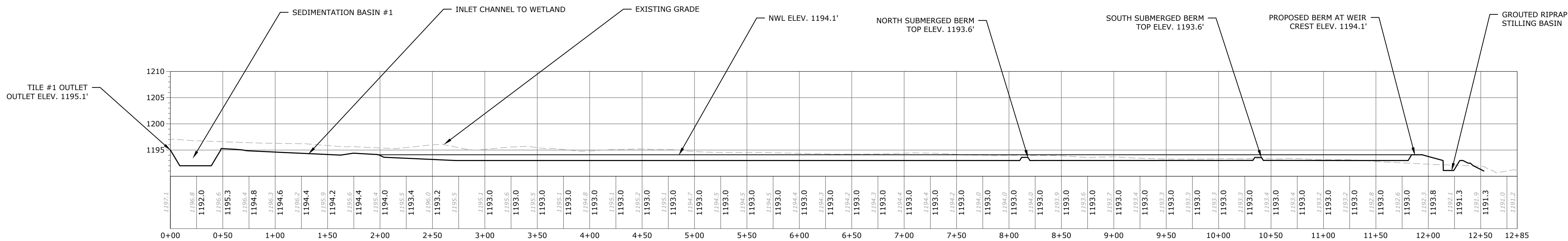
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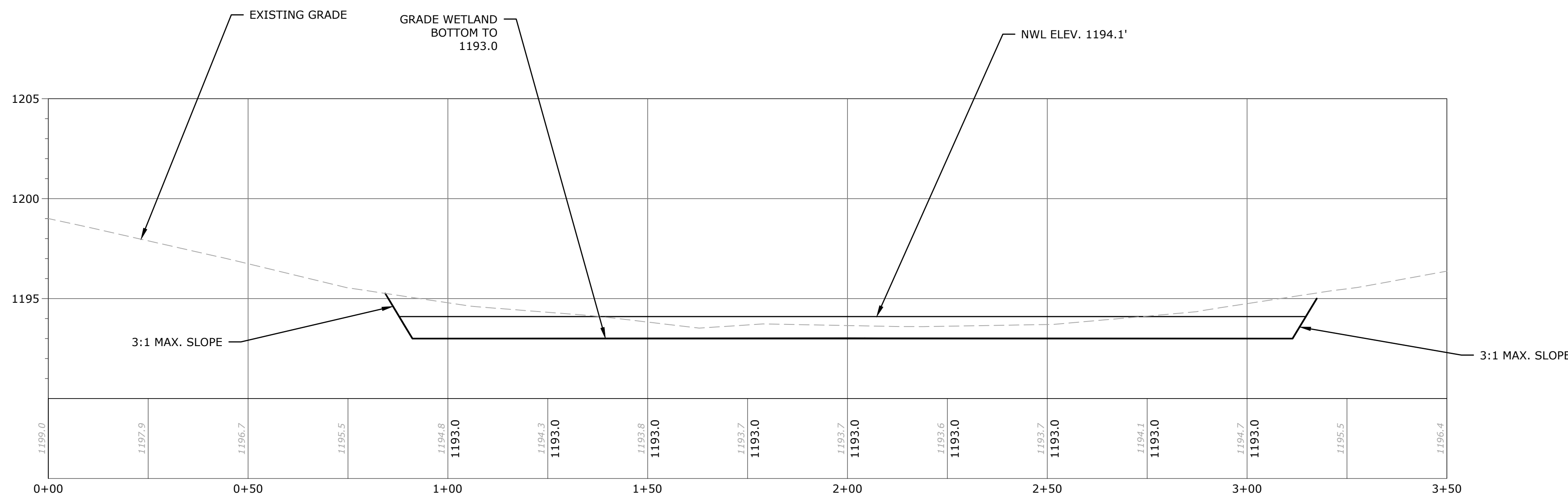
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WETLAND PROFILE #1 - ALONG FLOW PATH

5:1 VERTICAL EXAGGERATION
SCALE: 1" = 50'



WETLAND PROFILE #2 - ACROSS GRADING AREA

5:1 VERTICAL EXAGGERATION
SCALE: 1" = 20'

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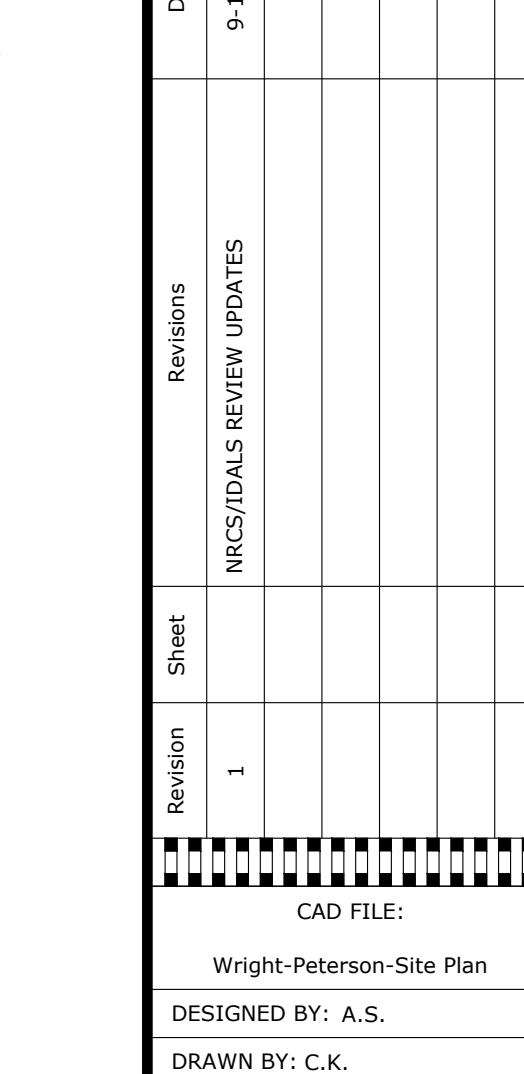
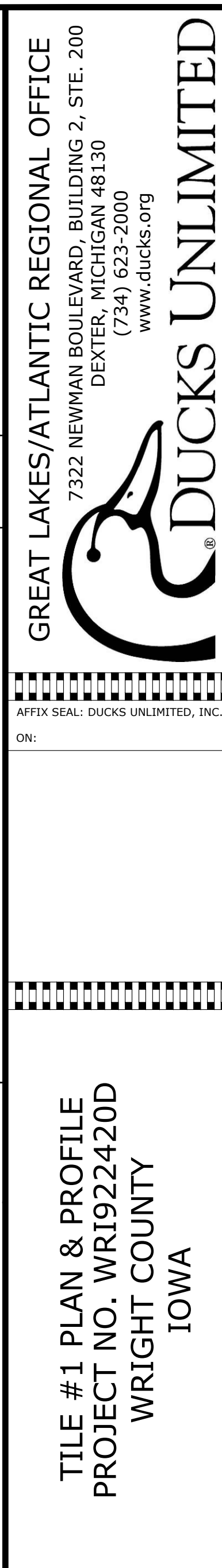
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WETLAND PROFILES
PROJECT NO. WRI922420D
WRIGHT COUNTY
IOWA

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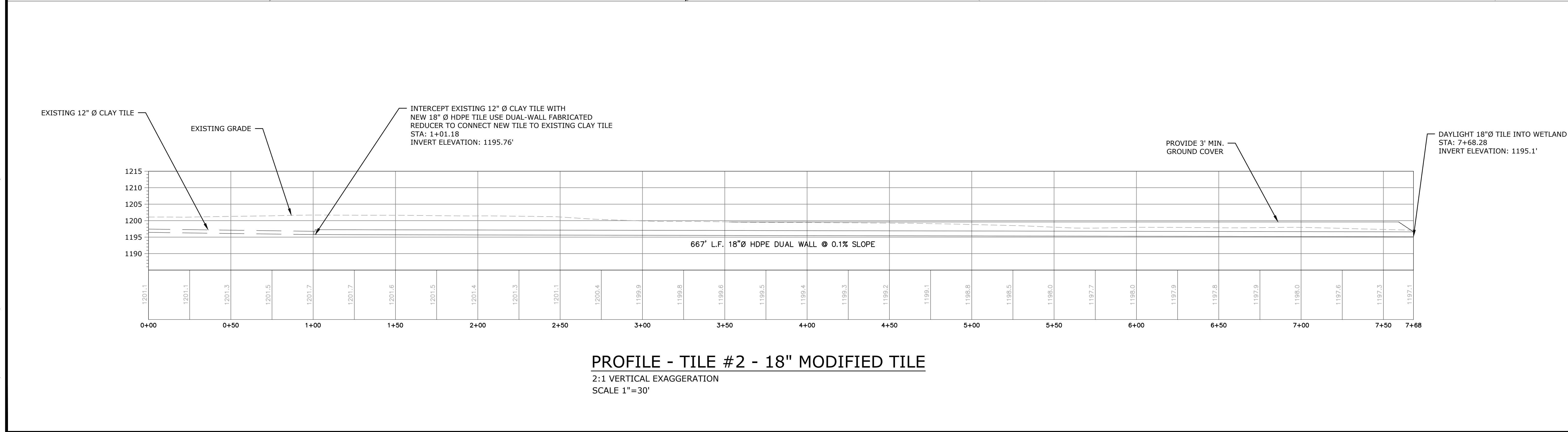
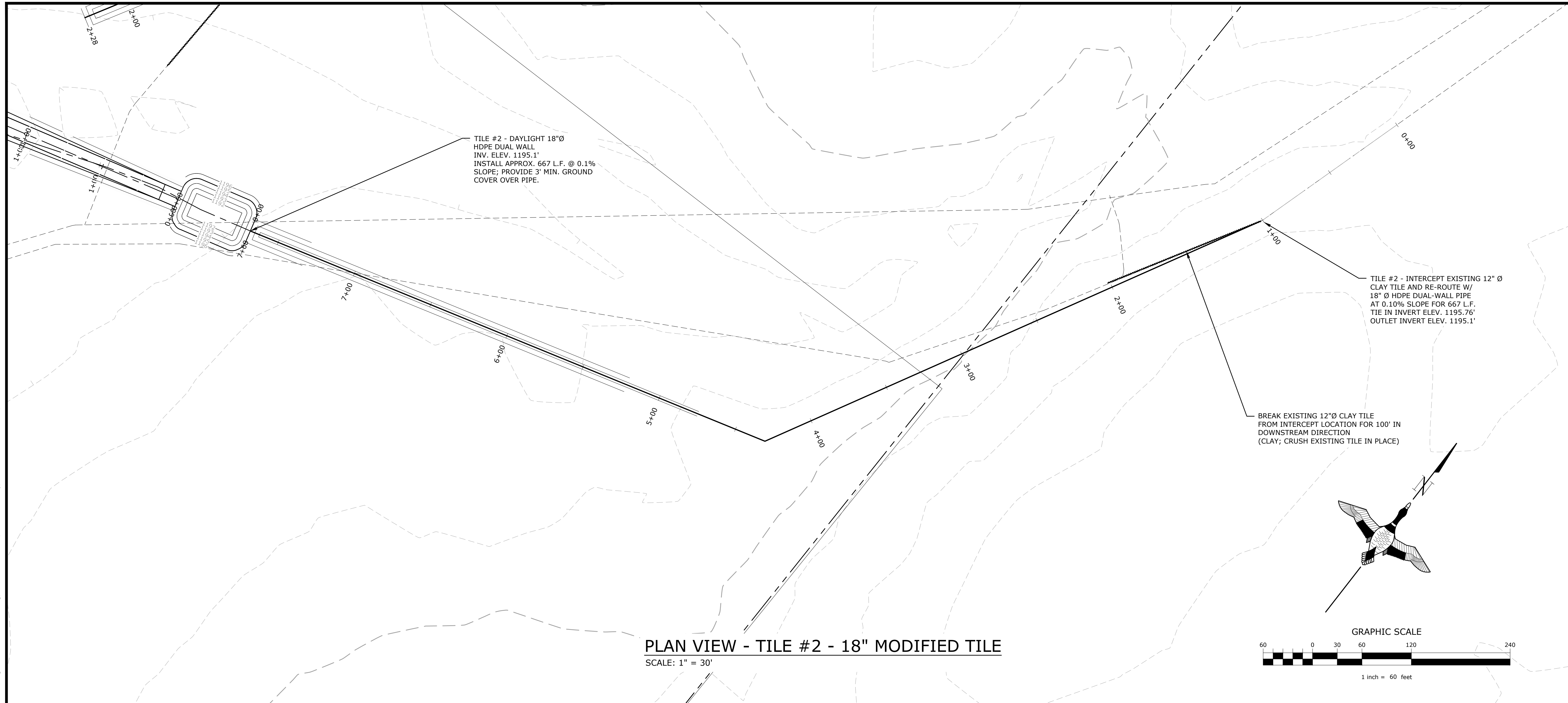
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BIOLOGIST: T.P.	
DATE: 6-19-24	
PROJECT NUMBER:	

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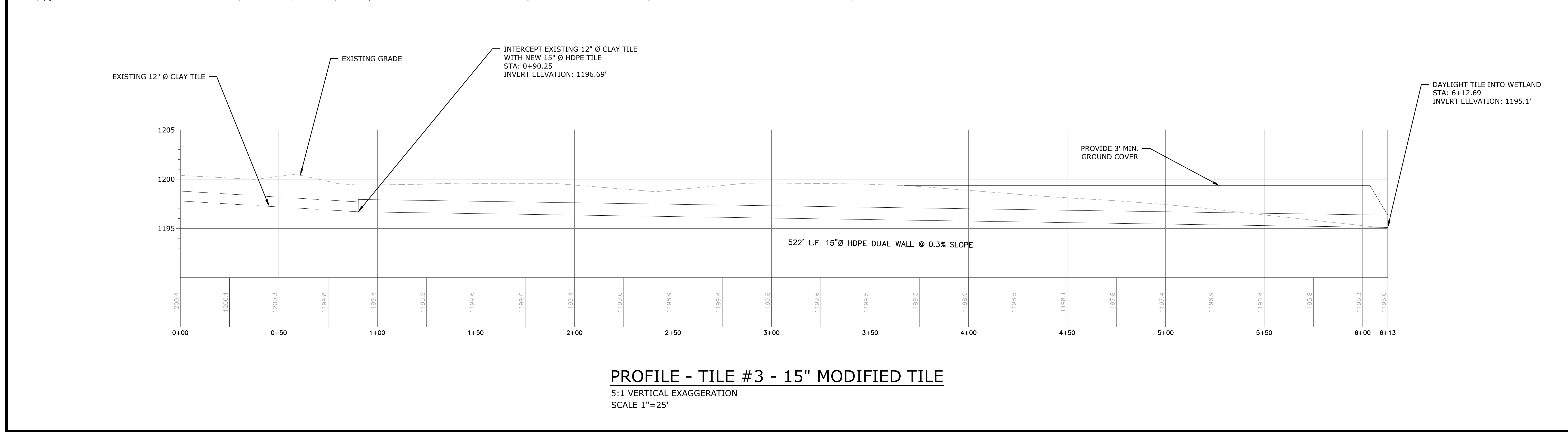
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ON:			
TILE #2 PLAN & PROFILE PROJECT NO. WRI922420D WRIGHT COUNTY IOWA			
Revisions	Date	By	
1	9-19-24	A.S.	
CAD FILE: Wright-Peterson-Site Plan			
DESIGNED BY: A.S.			
DRAWN BY: C.K.			
SURVEYED BY: A.S., J.W.			
BIOLOGIST: T.P.			
DATE: 6-19-24			
PROJECT NUMBER: IA-340-8			
C206			

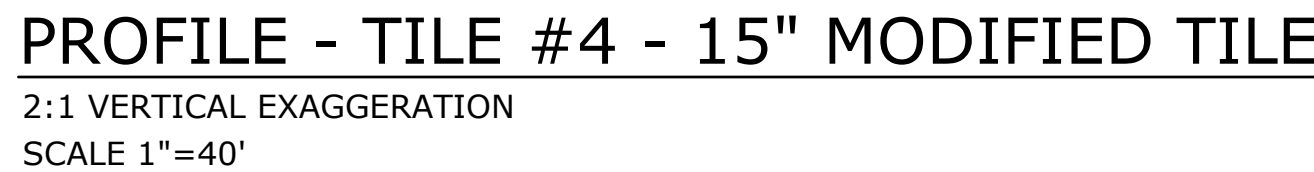
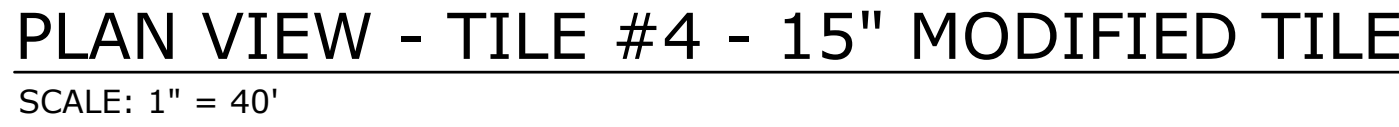
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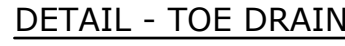


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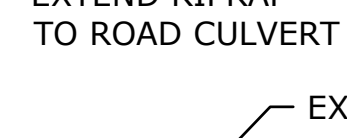


- PROFILE - SHEET PILE CENTERLINE (N.T.S.)

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TOE DRAIN; PLACE AS SHOWN ON
EMBANKMENT PLAN VIEW, OR, WHERE
EMBANKMENT IS AT LEAST 3.5' IN HEIGHT



CORE TRENCH SHALL BE 4' DEPTH
TYPICAL



6.0'



12" SITE PREPARATION

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3/16" WALL

2"

6"

1/4"

8"

2 1/2"

2 1/2"

8"

2"

1/4"

1/2"Ø BAR WELDED TO STOPLOGS AS SHOWN
(2 REQ'D PER STOPLOG)

NOTE: 1. WELD 1/2Ø BAR IN STOPLOGS.

2. STOPLOGS SHALL BE 1" SHORTER THAN WIDTH BETWEEN STOPLOG GUIDES.

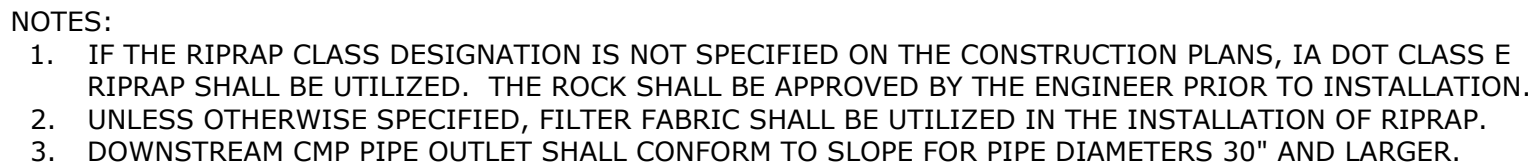
3. FABRICATOR TO PROVIDE 1-2" & 1-3" STOPLOG IN ADDITION TO STOPLOGS SPECIFIED.

NOT TO SCALE

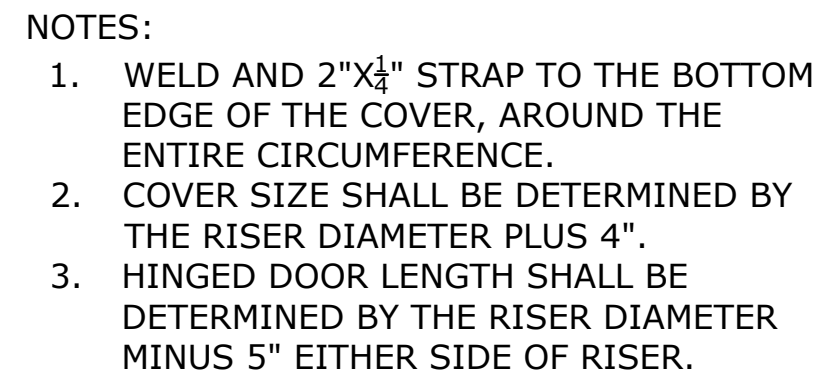
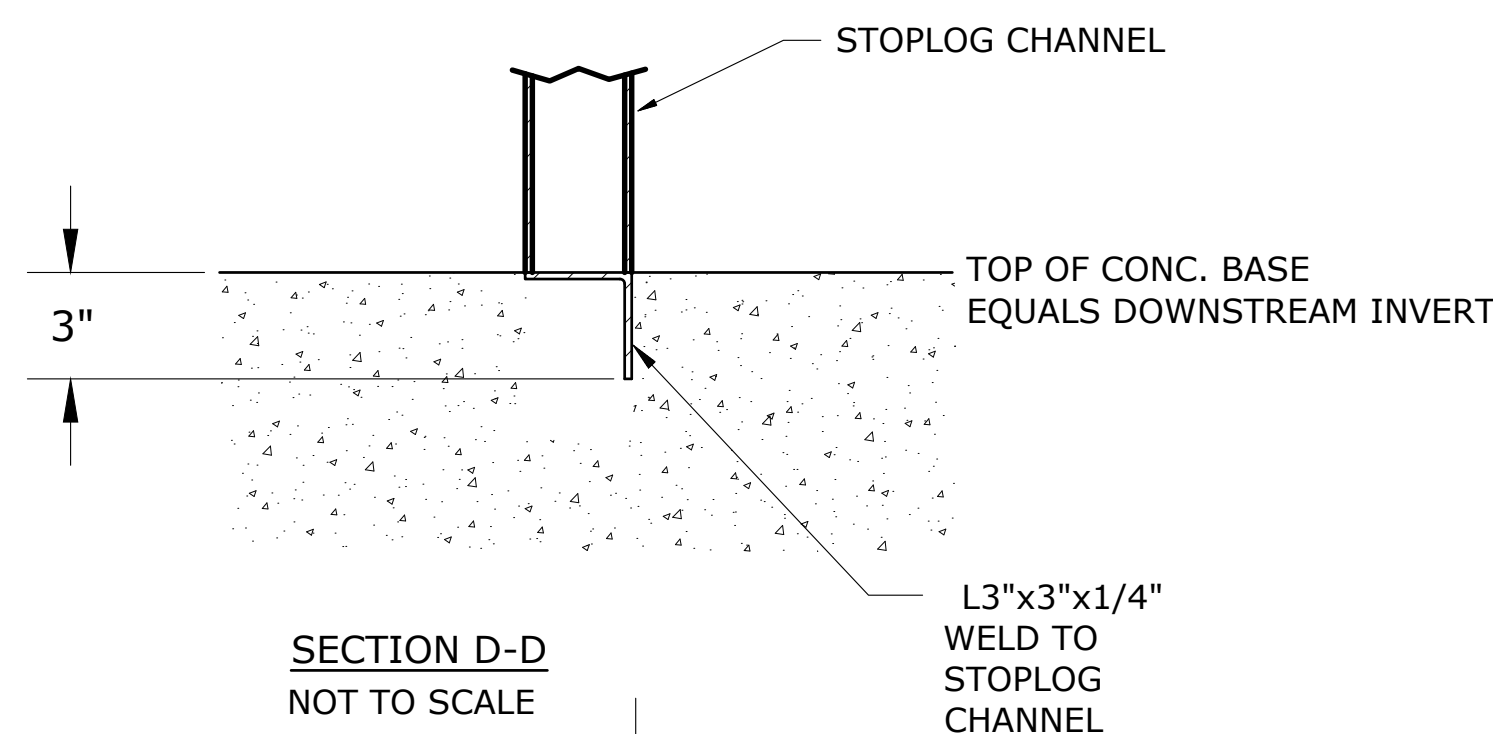
-
- Technical drawings of a circular culvert cross-section and side view.
- Cross-section view (left):** A circular cross-section of the culvert. The diameter is labeled C . The wall thickness is labeled B . The bolt slots are labeled A . The bolt slots are 7/16" wide, 1" long, and for 3/8" SS bolts.
- Side view (right):** A side view of the culvert. The length is labeled A . The diameter is labeled B . The wall thickness is labeled t . The weld on the O.D. of the culvert is indicated.

NOTES: 1. 6"- 36" FLANGES CUT FROM 3/16 ALUMINUM PLATE.
2. GASKETS DIE CUT FROM 1/8" PVC NITRILE FOAM ENSOLITE AND MATCHED TO CORRESPONDING FLANGE DIMENSIONS (BXD)(E) & NO HOLES.
3. 2 WASHERS PER SLOT.

NOT TO SCALE

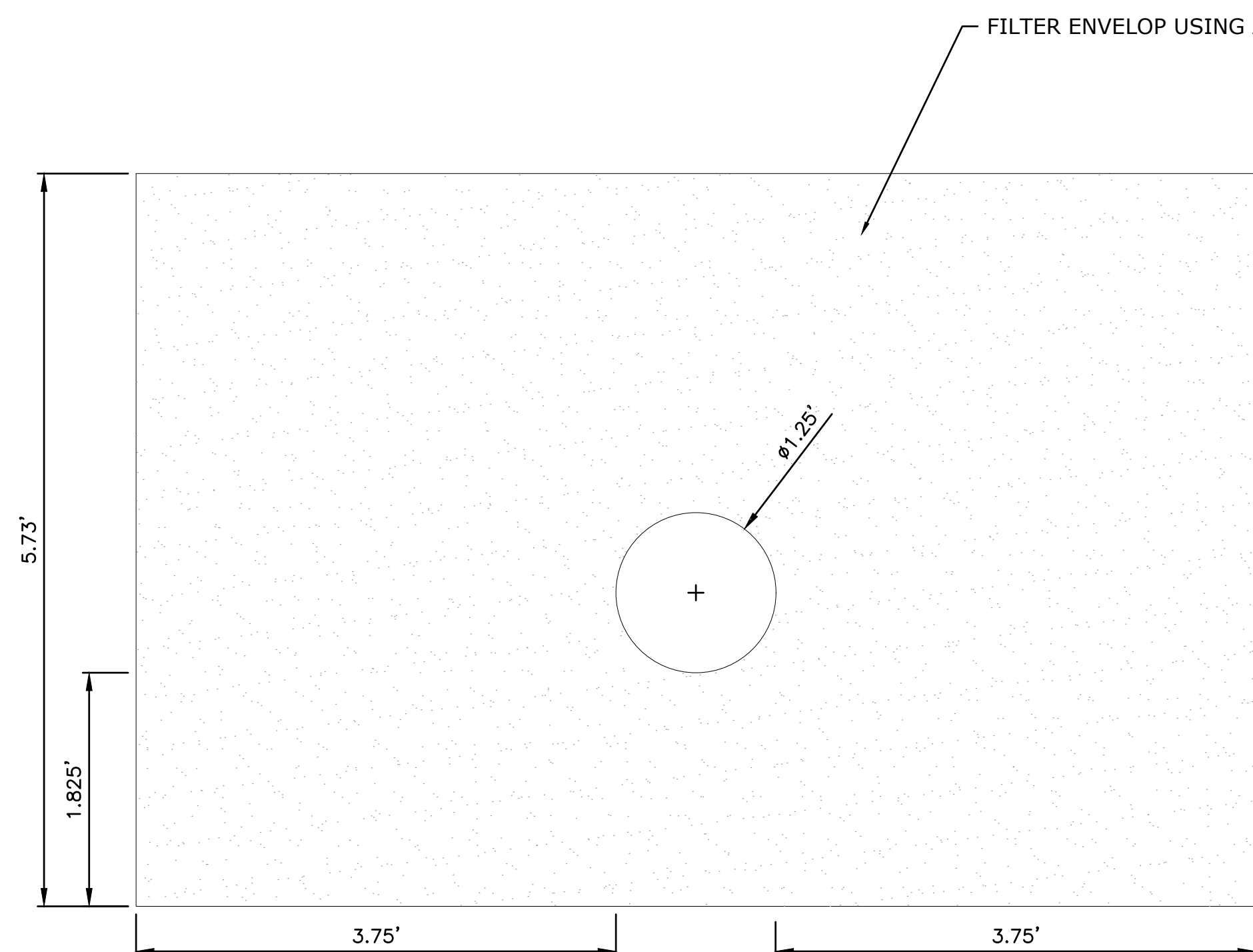
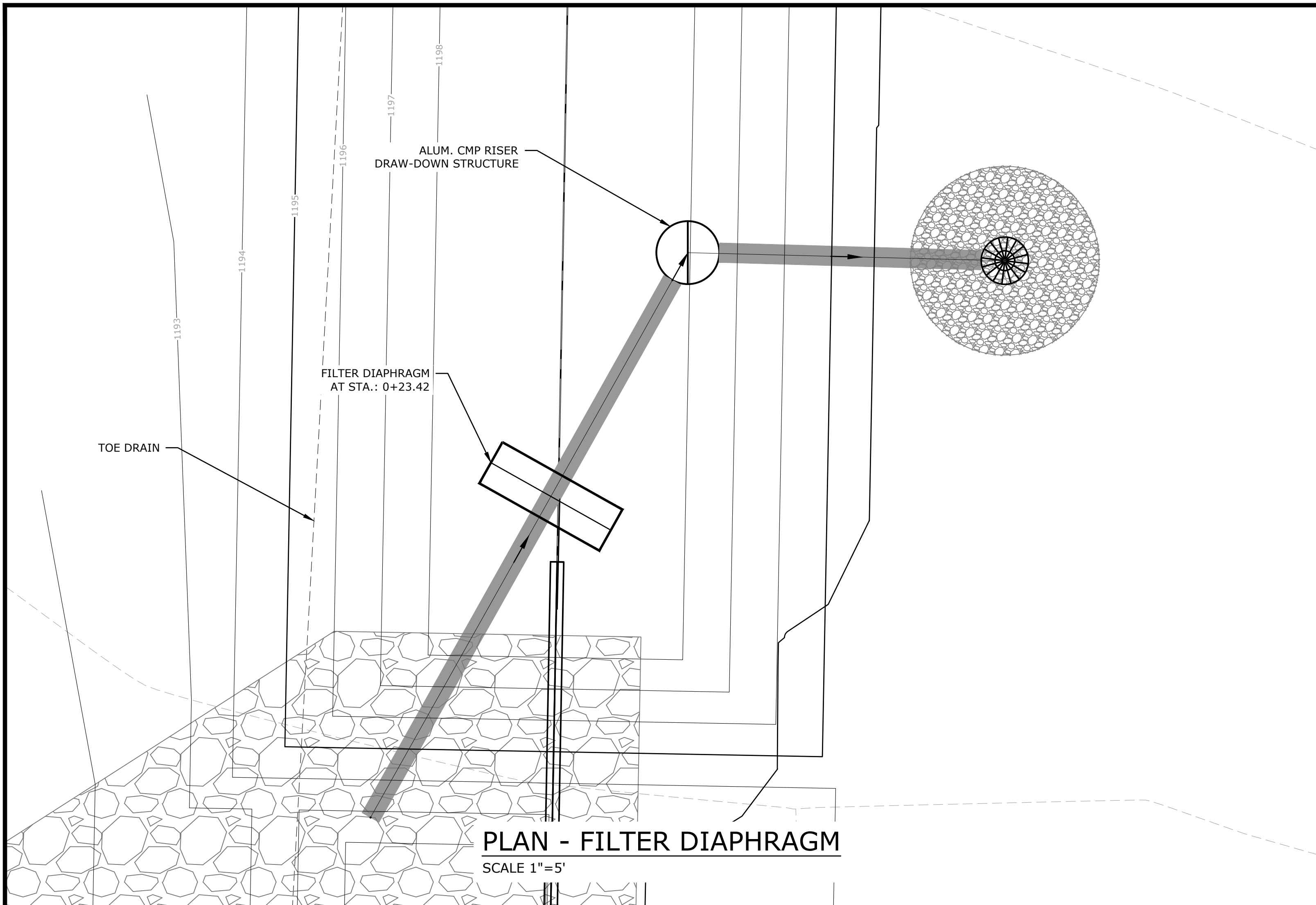


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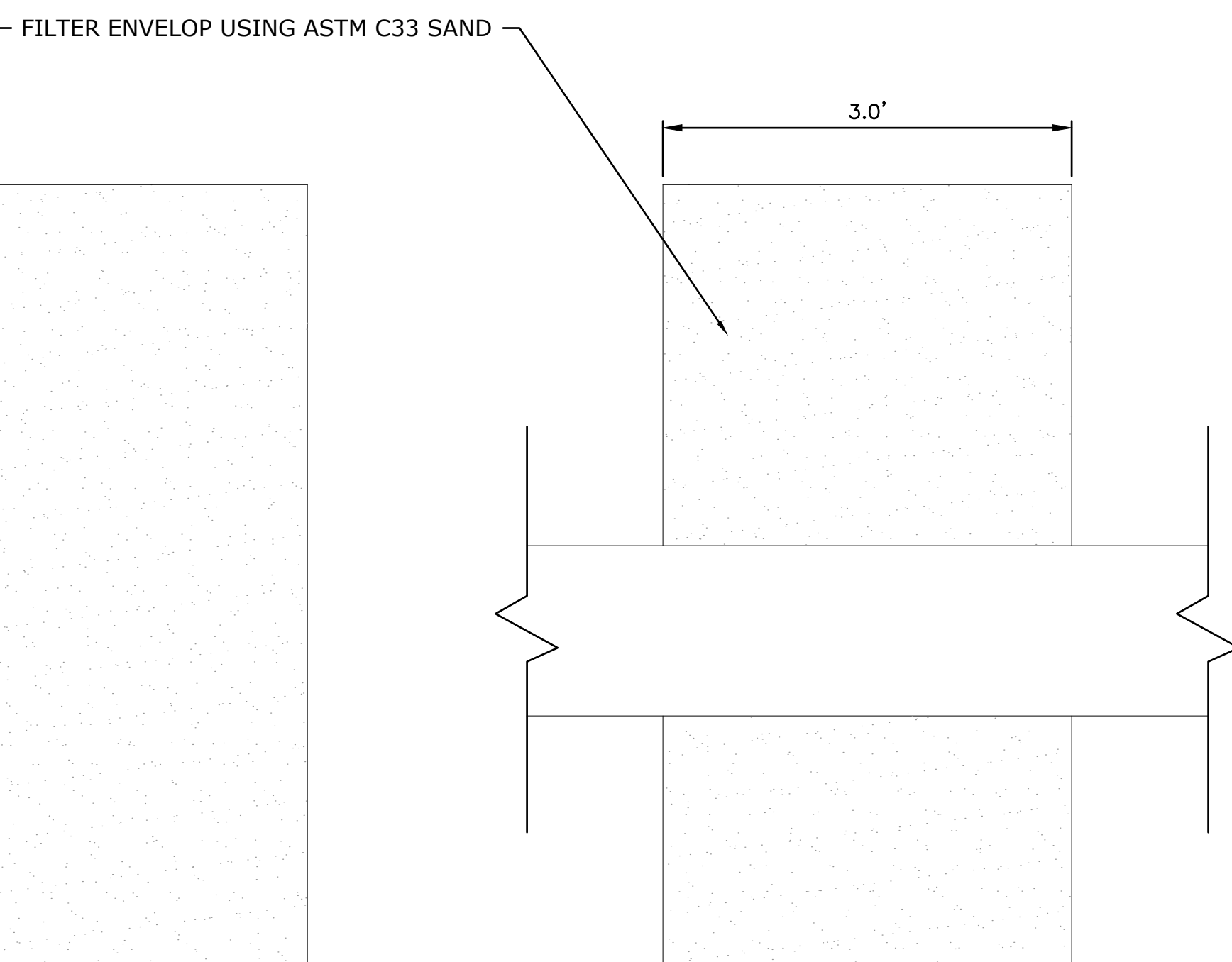


NOTE: L1 AND L2 EQUAL HEIGHT OF RISER PLUS 1'
MAX LENGTH FOR EACH 5'. AFTER ADD A SECOND EXTENTION L3
2 PER STRUCTURE

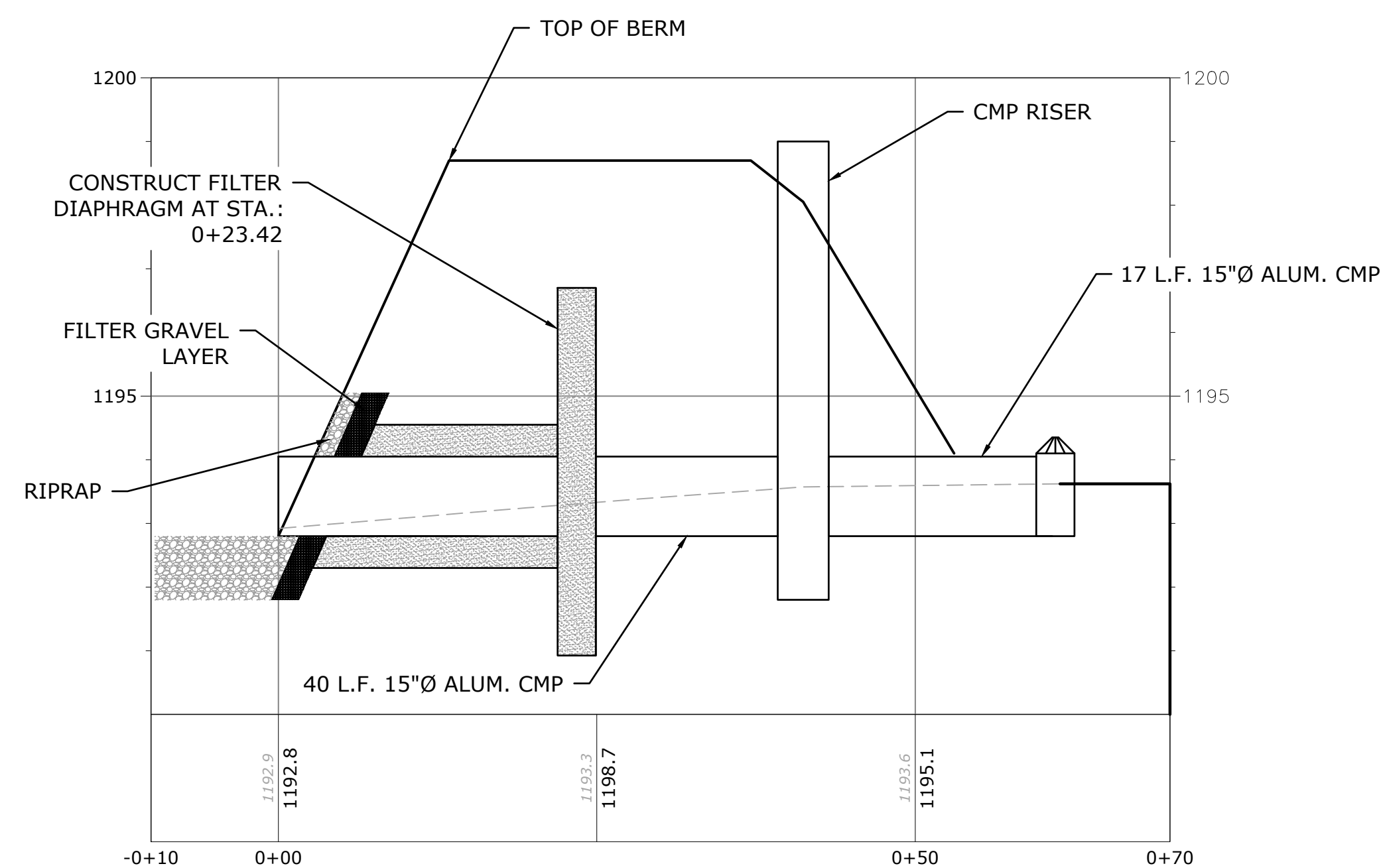
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ELEVATION DETAIL - FILTER DIAPHRAGM

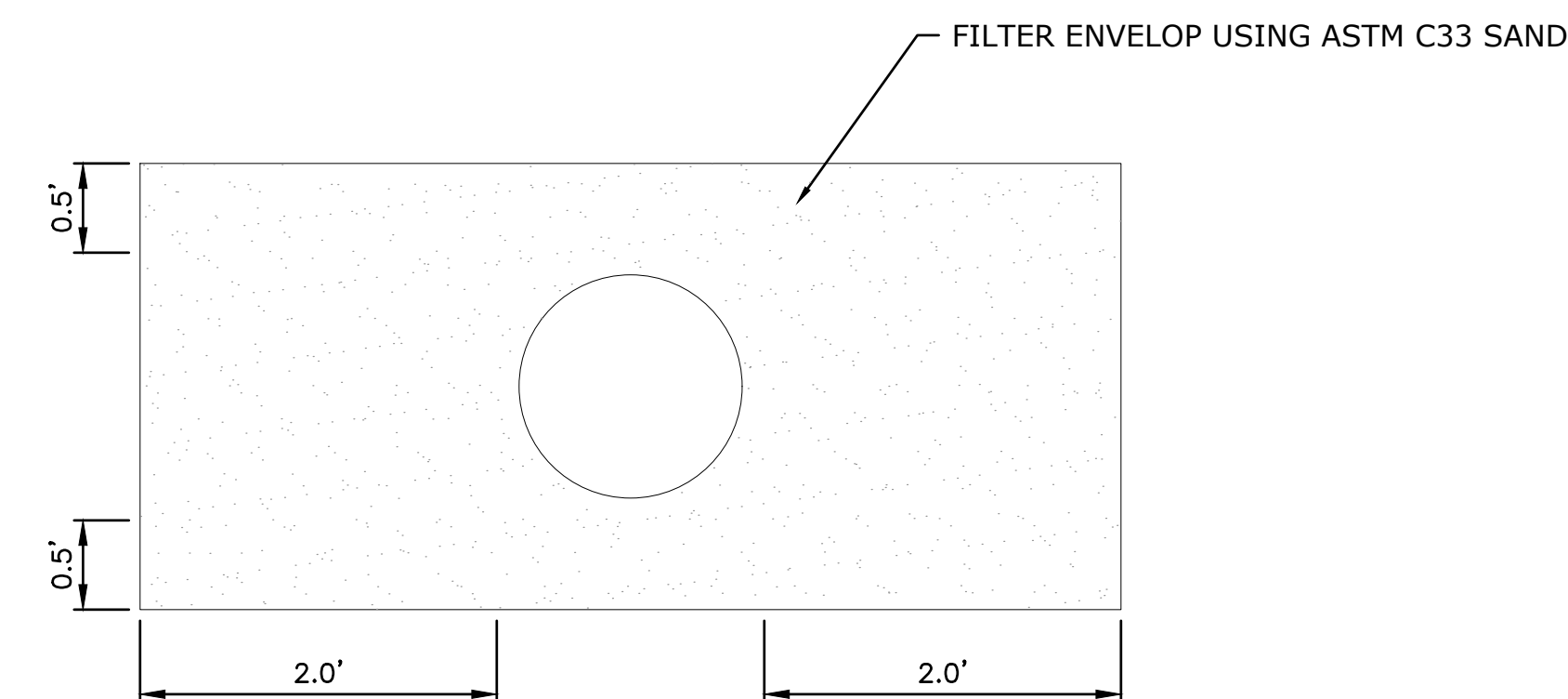


SECTION DETAIL - FILTER DIAPHRAGM

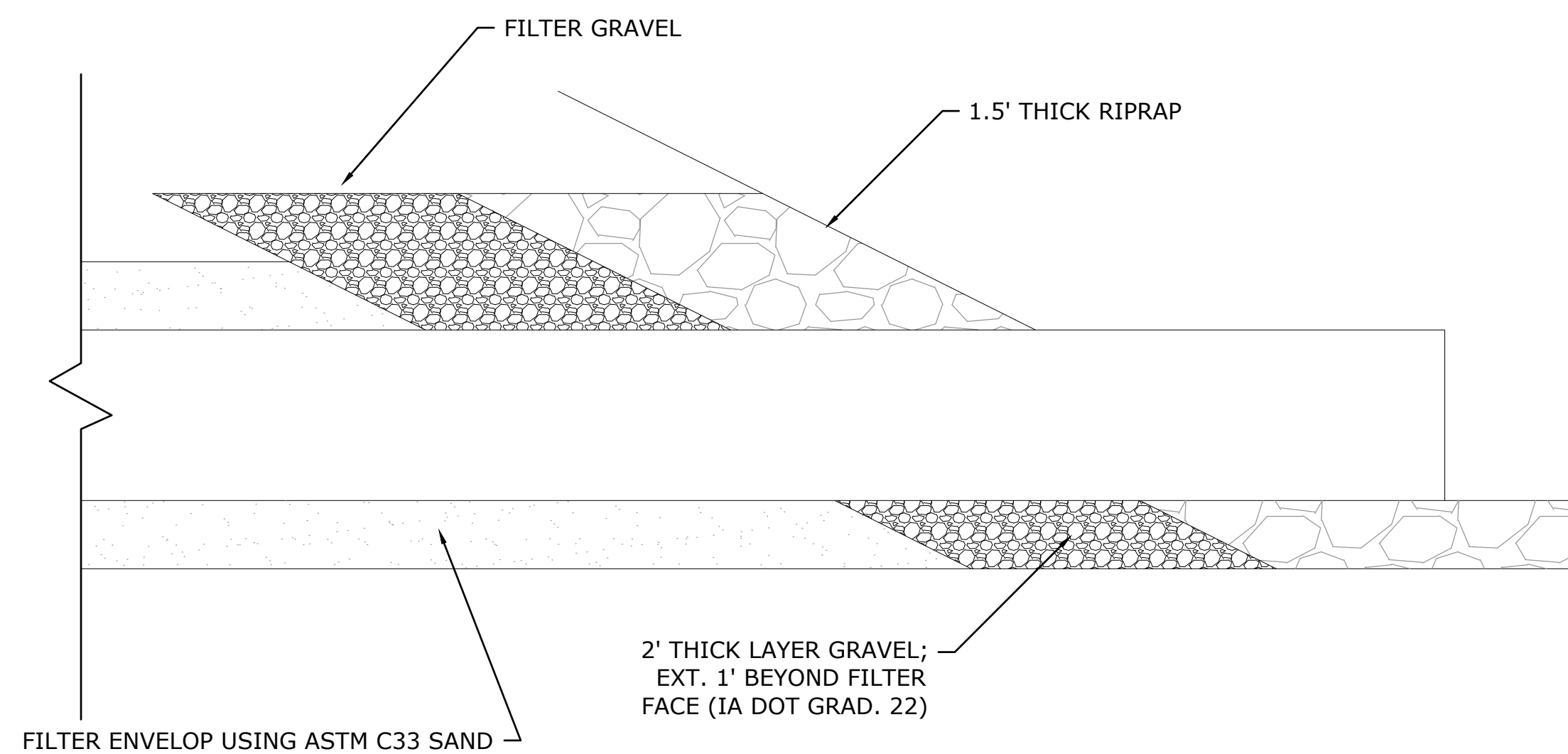


PLAN - FILTER DIAPHRAGM

5:1 VERTICAL EXAGGERATION
SCALE 1" = 10'



SECTION DETAIL - FILTER DIAPHRAGM FILTER ENVELOPE



PROFILE DETAIL - FILTER DIAPHRAGM END SECTION

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AFFIX SEAL: DUCKS UNLIMITED, INC.
ON:

FILTER DIAPHRAGM DETAILS
PROJECT NO. WRI922420D
WRIGHT COUNTY
IOWA

Revision	Sheet	Revisions	Date	By
1		NRCS/IDALS REVIEW UPDATES	9-19-24	A.S.
CAD FILE: Wright-Peterson-Site Plan DESIGNED BY: A.S. DRAWN BY: C.K. SURVEYED BY: A.S., J.W. BIOLOGIST: T.P. DATE: 6-19-24 PROJECT NUMBER: IA-340-S C306				

NOT FOR CONSTRUCTION

C:\Users\woodbury\Documents\Iowa - Ducks Unlimited Incorporated\Iowa 02_C3D Projects\IUA-340-2 CREP Projects\WRIGHT PETERSON-Site Plan.dwg, 7/9/2026 11:59 AM, Lucas Woodbury, C401 Seeding Plan, None



1 inch = 80 feet

C401

SEEDING PLAN
PROJECT NO. WRI922420D
WRIGHT COUNTY
IOWA



7322 NEW

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