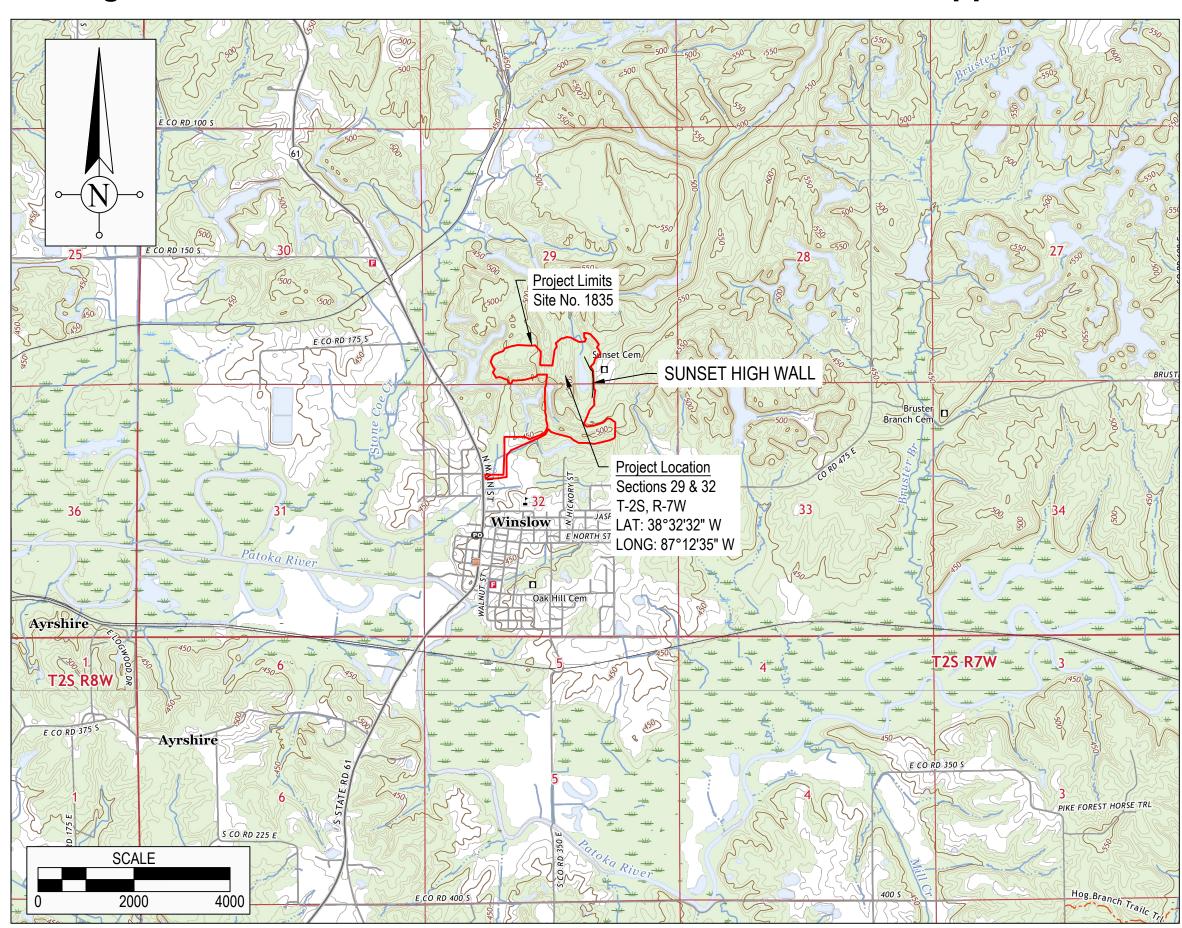
SUNSET HIGHWALL SITE NO. CONTRACT NO. 1835 DEL2415208208/E008-334 DEL241

STATE OF INDIANA INDIANA DEPARTMENT OF NATURAL RESOURCES DIVISION OF RECLAMATION

ABANDONED COAL MINE RESTORATION

SUNSET HIGHWALL SITE 1835 CONTRACT DEL2415208208/E008-334 PIKE COUNTY

Clear and grub, backfill highwall, construct ponds, improve drainage, and revegetate site to enhance wildlife habitat and recreation opportunities.



PROJECT LOCATION MAP
AUGUSTA & WINSLOW USGS TOPOGRAPHIC QUADRANGLES (2022)





PLANS PREPARED BY:
CERTIFIED BY:
APPROVED

PATRIOT ENGINEERING	317-576-8058
1/	PHONE NUMBER
KANBAR	6/04/2024
	DATE
DIVISION OF RECLAMATION	DATE

GENERAL NOTES

2023 AML STANDARD SPECIFICATIONS TO BE USED WITH THESE PLANS
AN NPDES DISCHARGE PERMIT IS REQUIRED FOR THIS PROJECT
PLANS DEVELOPED FROM INDIANA 2019 LIDAR TOPO IN NAD 83 INDIANA STATE
PLANE WEST, FEET, AND GROUND SURVEY PERFORMED BY TRIMARK SURVEYING.

INDEX		
SHEET NO.	SHEET TITLE	
1	TITLE, INDEX & LOCATION MAP	
2	SITE MAP	
3-6	GRADING PLAN	
7	GRADING PLAN - CUT/FILL ADJUSTMENT AREA	
8-9	SECTIONS	
10	REVEGETATION PLAN	
11	DETAILS	

UTILITIES

NO UTILITES ARE KNOWN TO EXIST NEAR THE PROJECT SITE AND NONE ARE EXPECTED TO BE AFFECTED BY THE PROPOSED CONSTRUCTION. HOWEVER CONTRACTOR SHALL CALL IUPPS BEFORE ANY DIGGING.

CALL BEFORE YOU DIG. INDIANA UNDERGROUND PLANT PROTECTION SERVICE (IUPPS) 1-800-382-5544 OR 811 FROM YOUR MOBILE PHONE.

	REVISIONS
DATE	DESCRIPTION
5/03/2024	REVISED SHEETS 2, 3, 4 AND 10. SHIFTED ACCESS DRIVE NORTH, OMMITED CROSS PIPE UNDER ACCESS DRIVE AND ADDED WETLAND SEED MIX.
6/04/2024	ADDED RIFFLES TO STREAMS ON SHEETS 3, 4 AND 5 AND RIFFLE DETAIL TO SHEET 11

SHEET

1 of 11

SITE

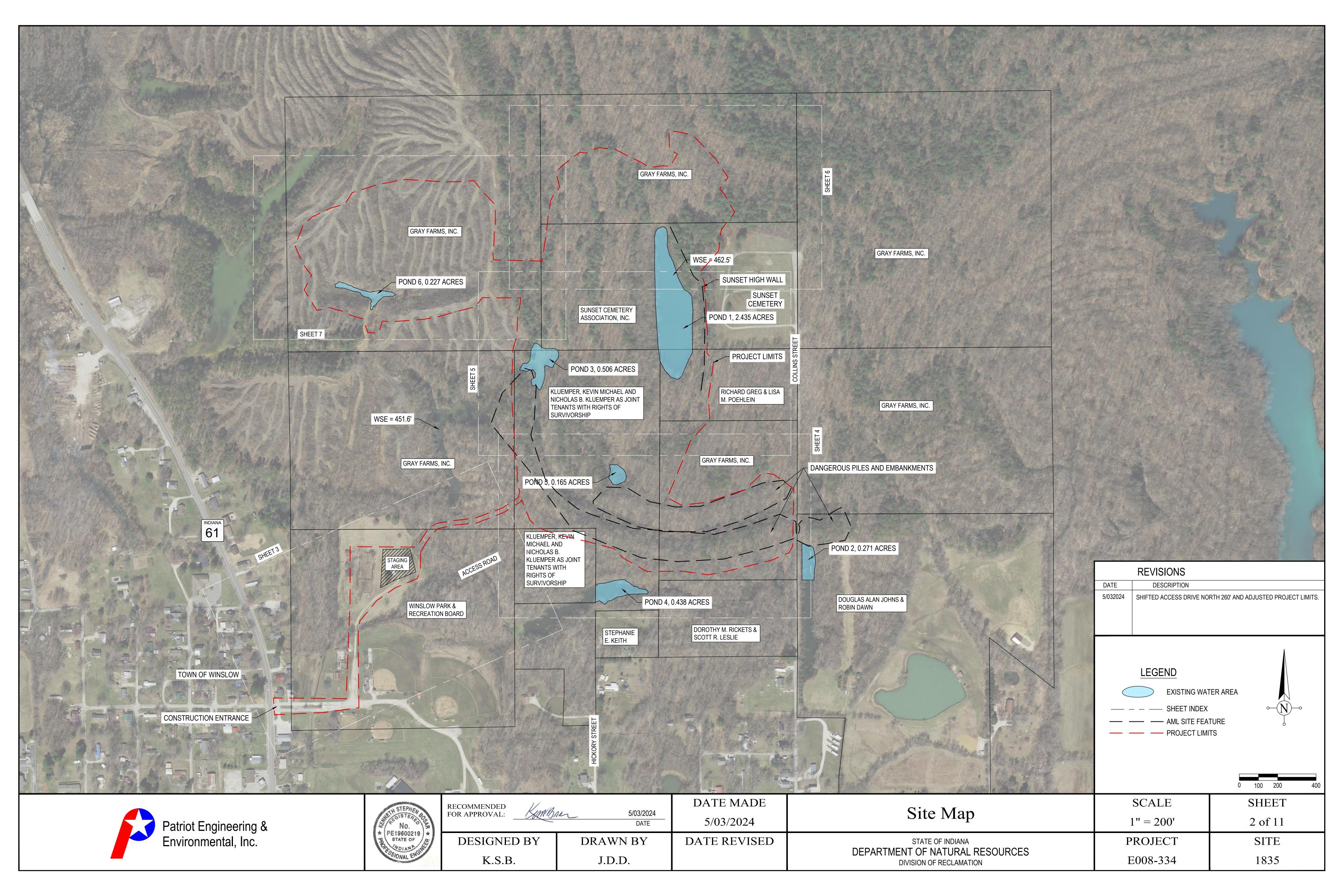
1835

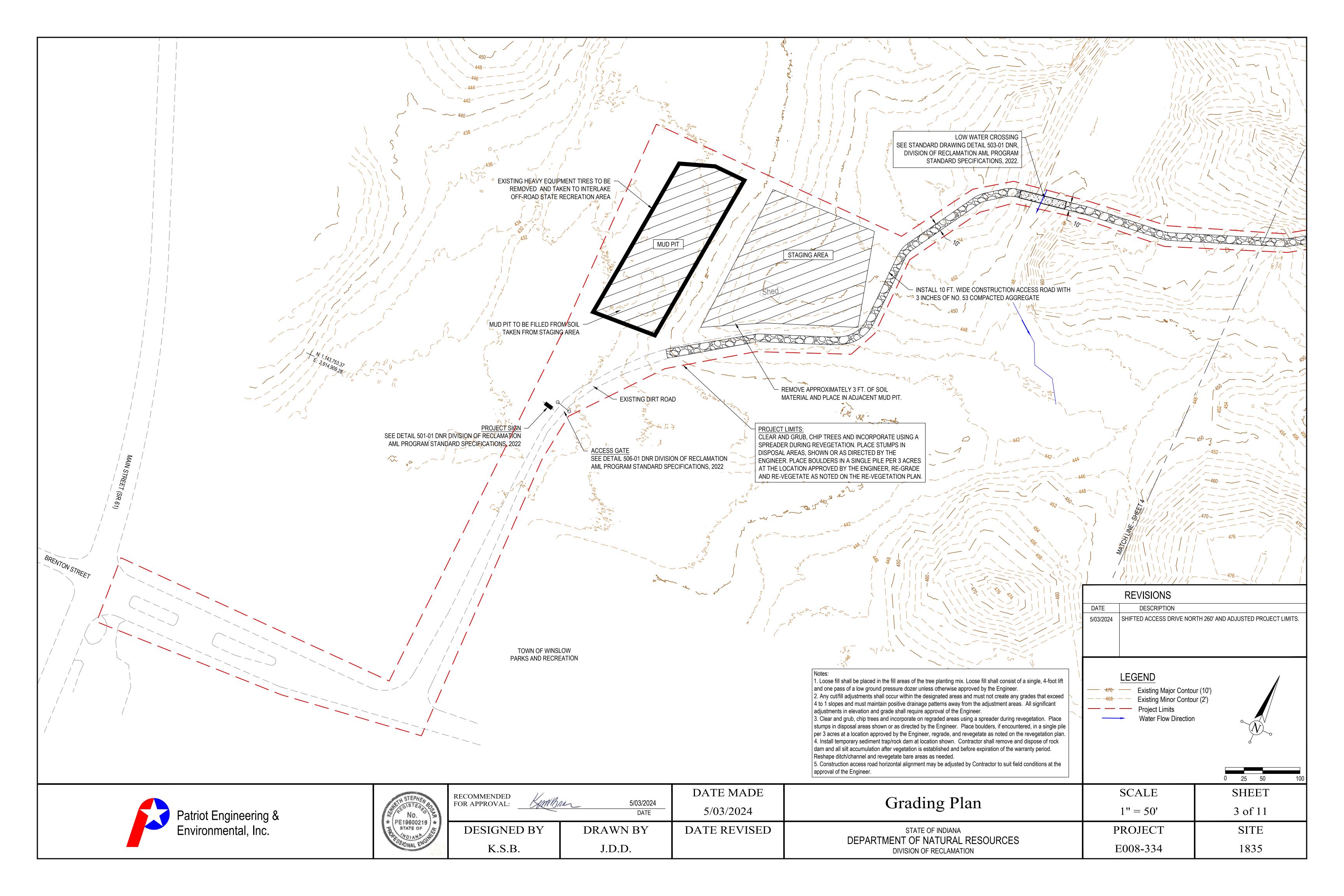
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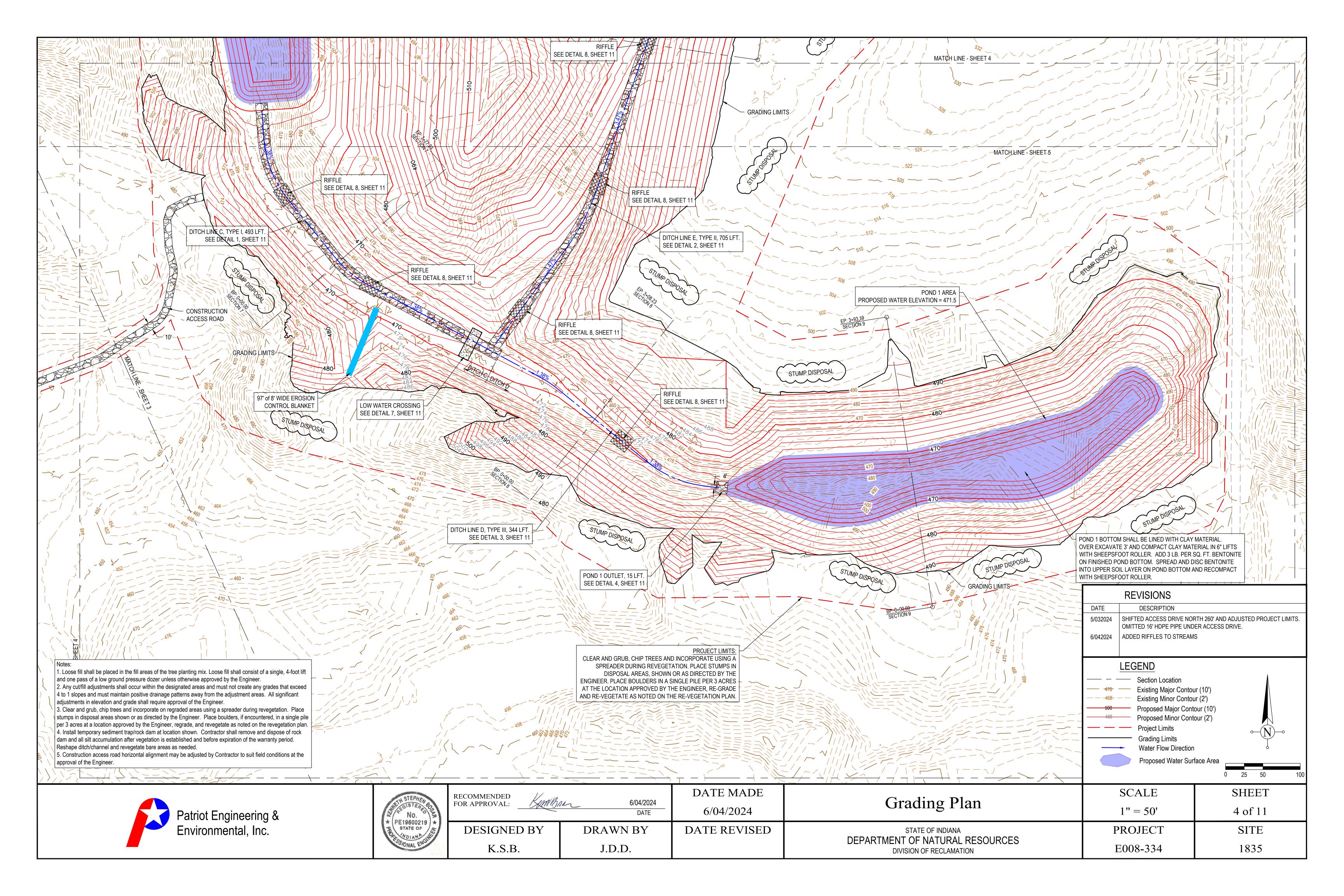
AS NOTED

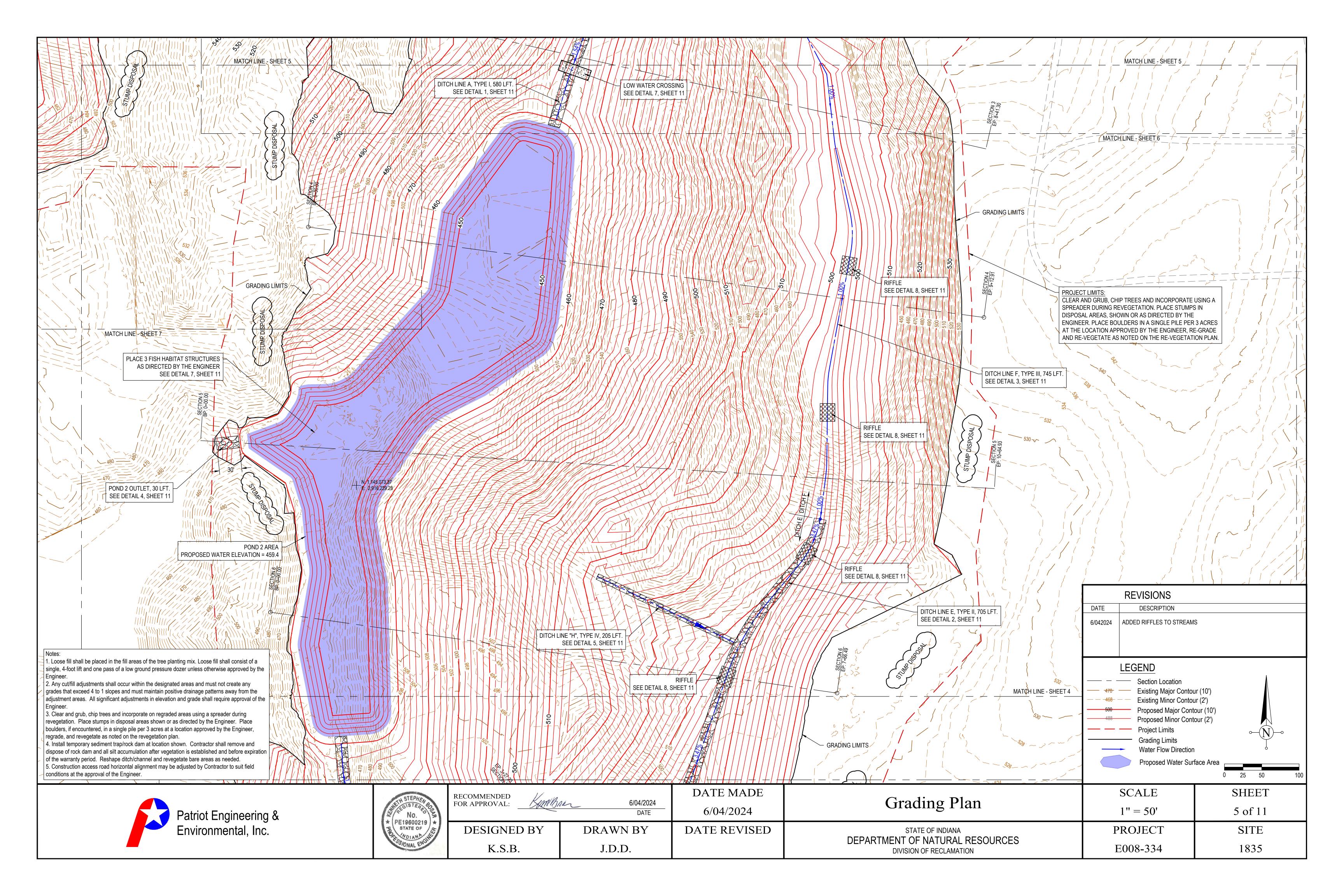
PROJECT

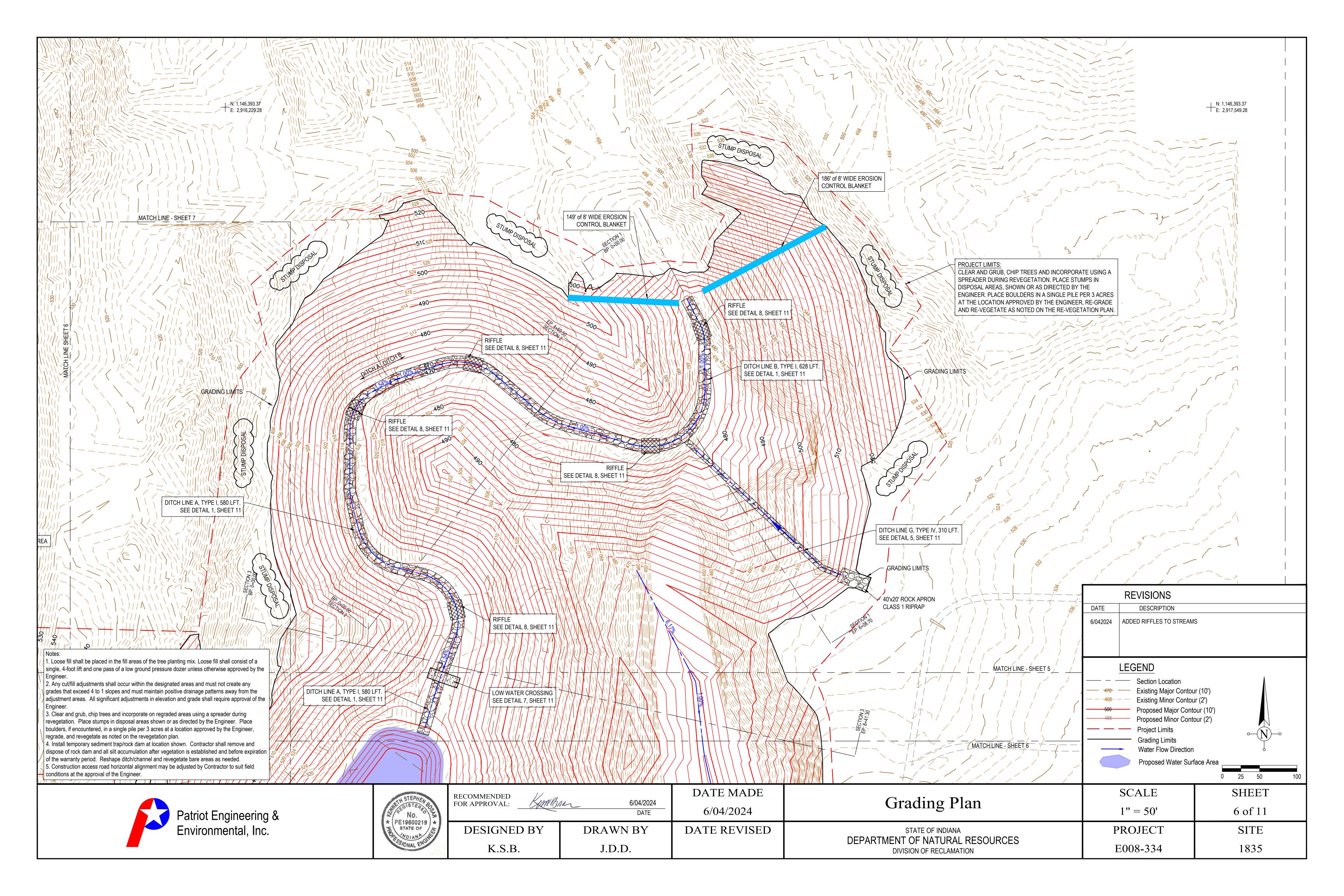
E008-334

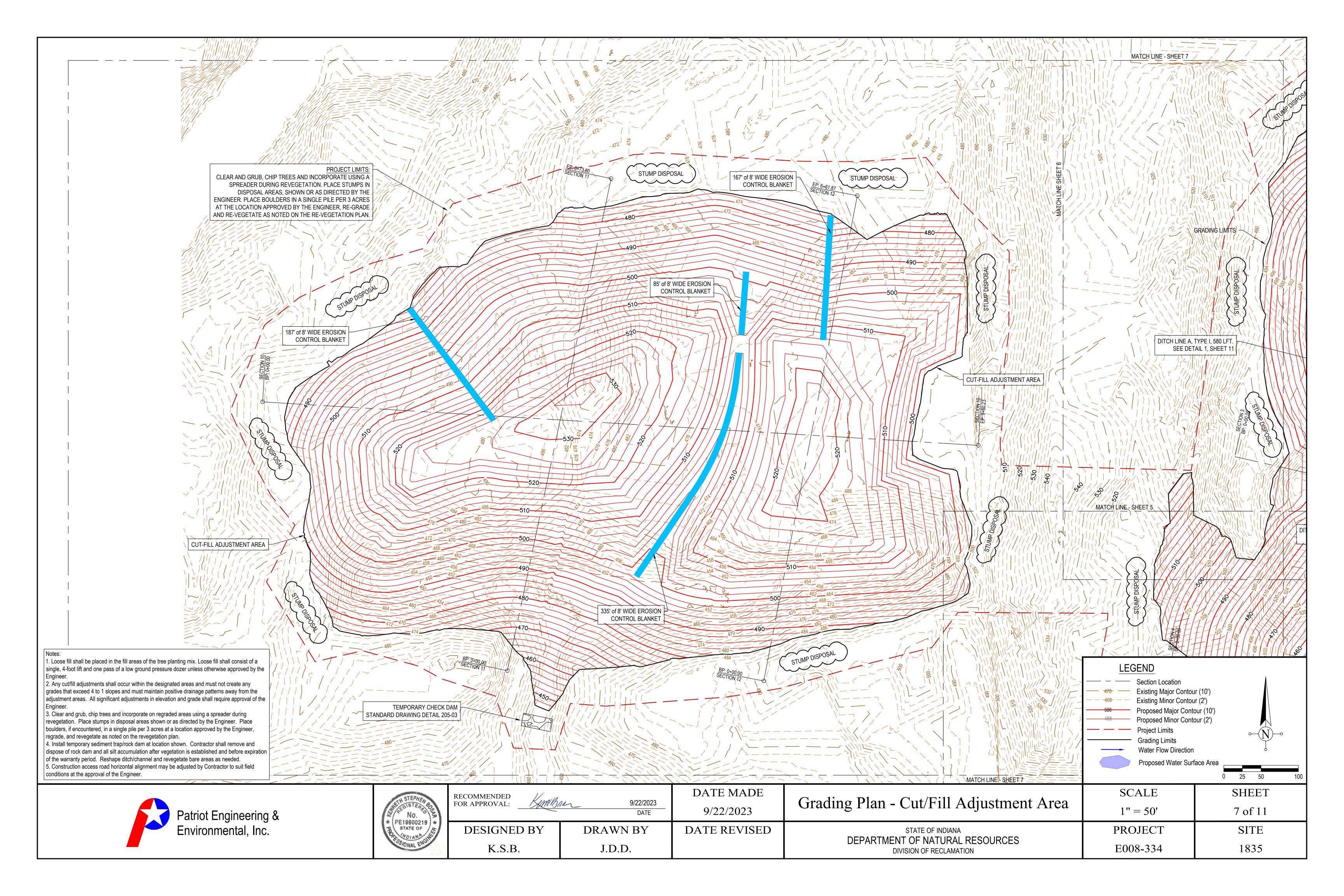


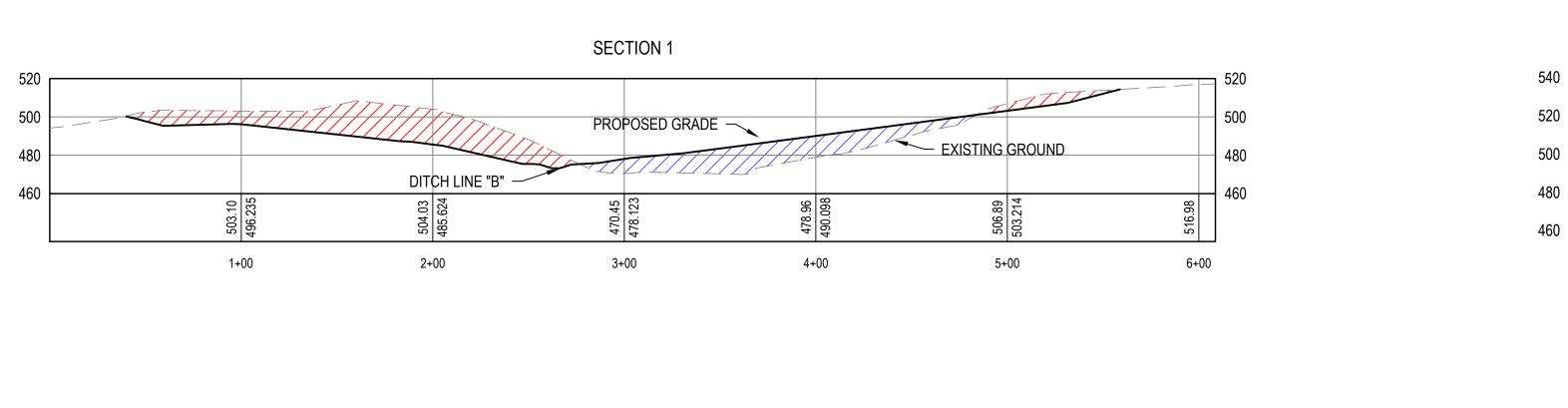


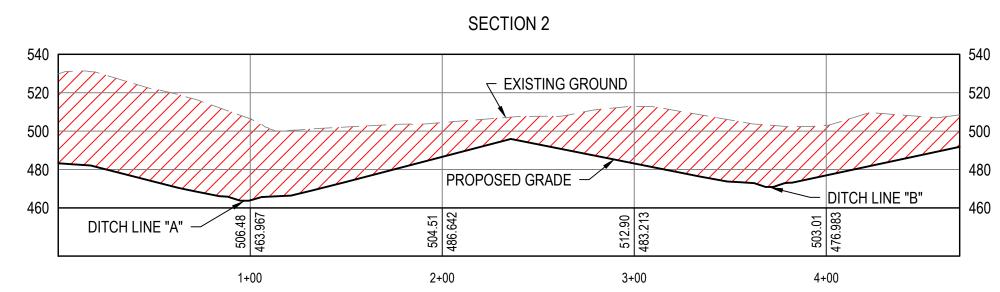






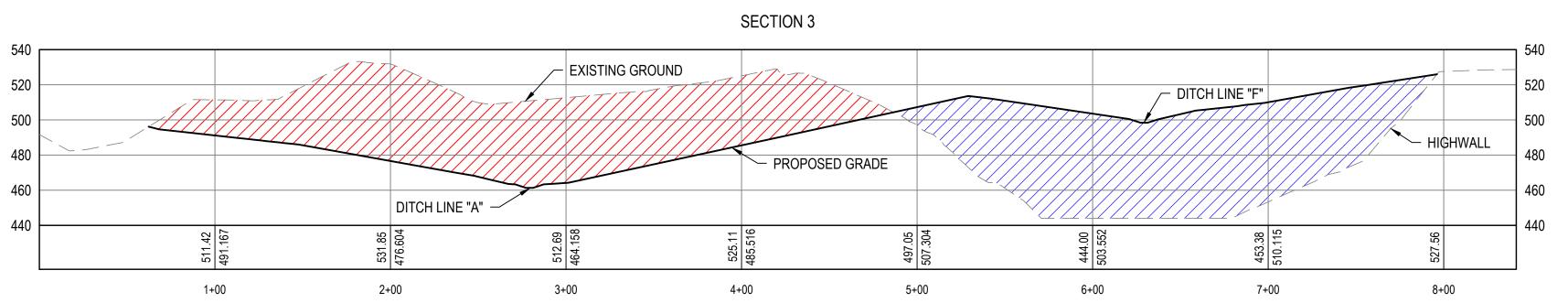


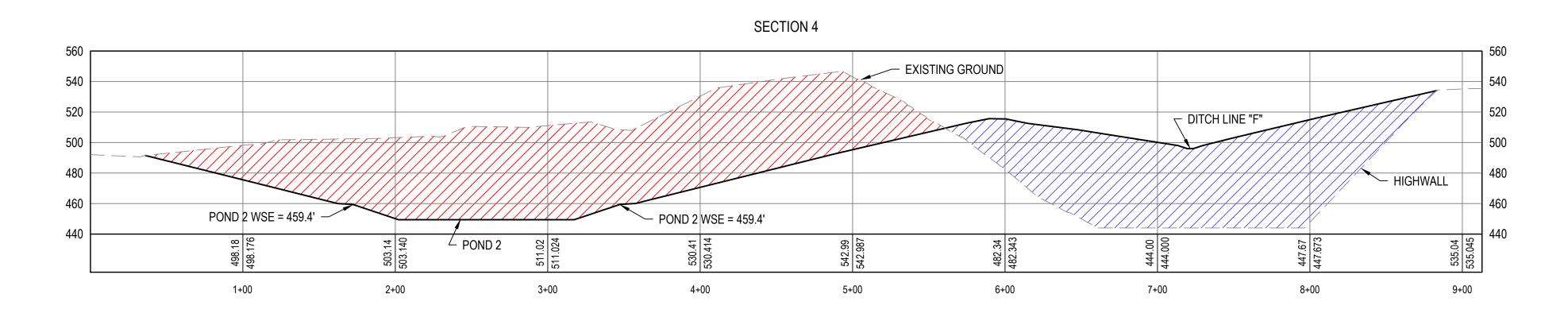


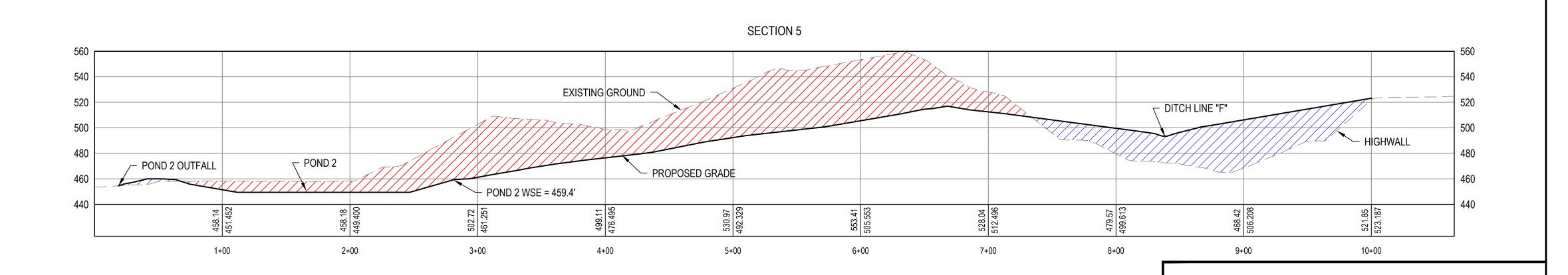


LEGEND CUT AREA

FILL AREA

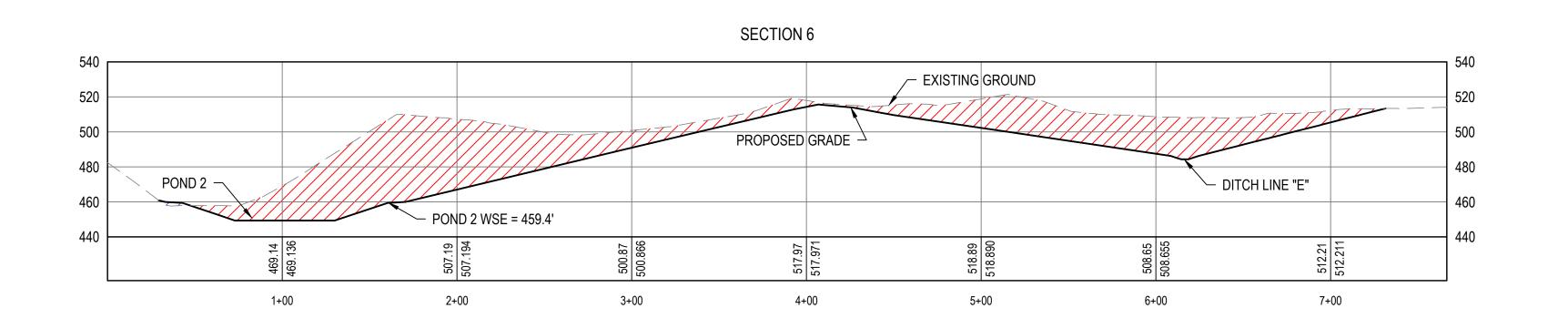


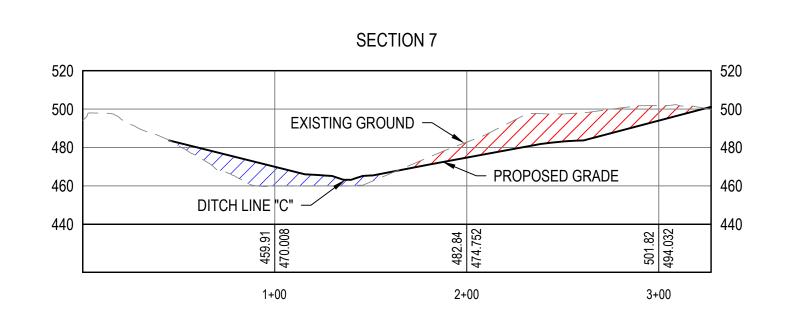


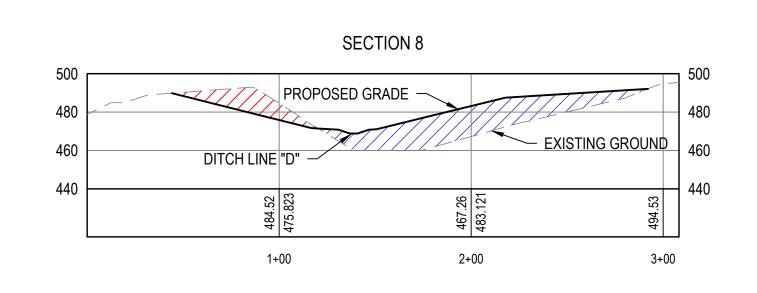


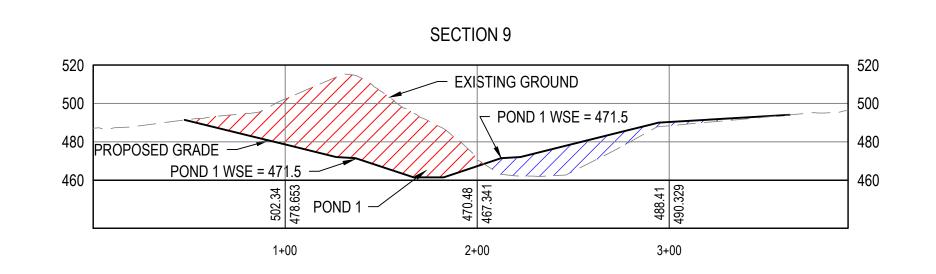


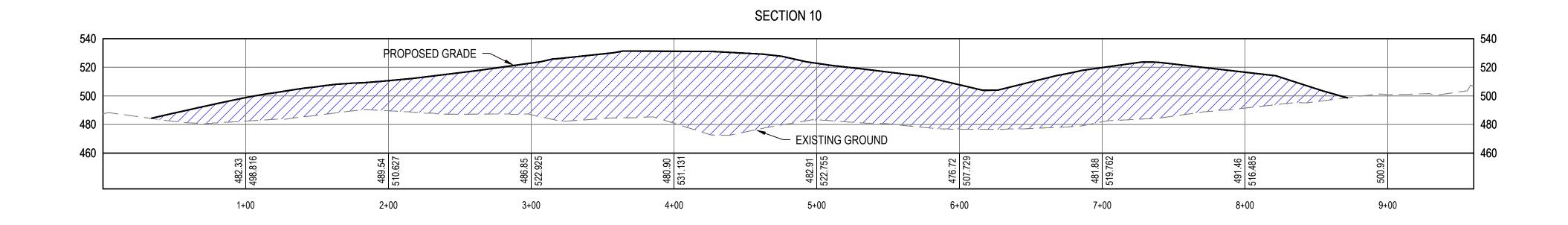
						0 25 50 100
. 100° A A . 3 1 bol / / A. A . 300.	RECOMMENDED /	0/00/0000	DATE MADE	Castions	SCALE	SHEET
No. No.	FOR APPROVAL:	9/22/2023 DATE	9/22/2023	Sections	1" = 50'	8 of 11
* PE19600219 * STATE OF STATE OF	DESIGNED BY	DRAWN BY	DATE REVISED	STATE OF INDIANA	PROJECT	SITE
SS/ONAL ENGINEER	K.S.B.	J.D.D.		DEPARTMENT OF NATURAL RESOURCES DIVISION OF RECLAMATION E008-33		

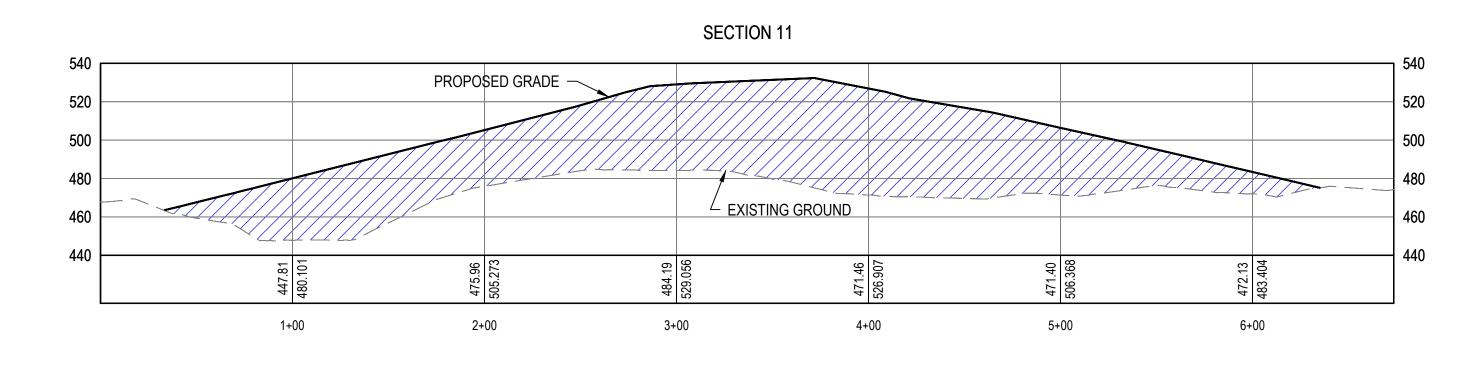


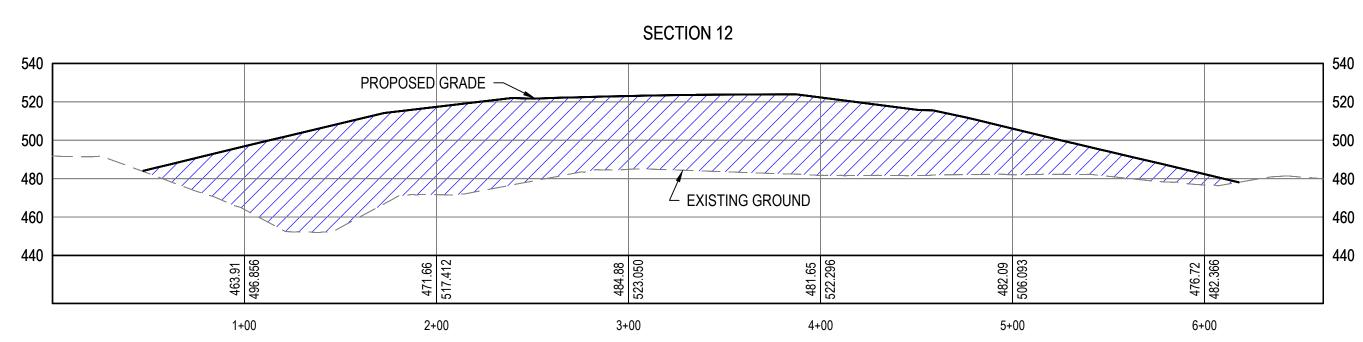












NO. * PE19600219 * STATE OF S
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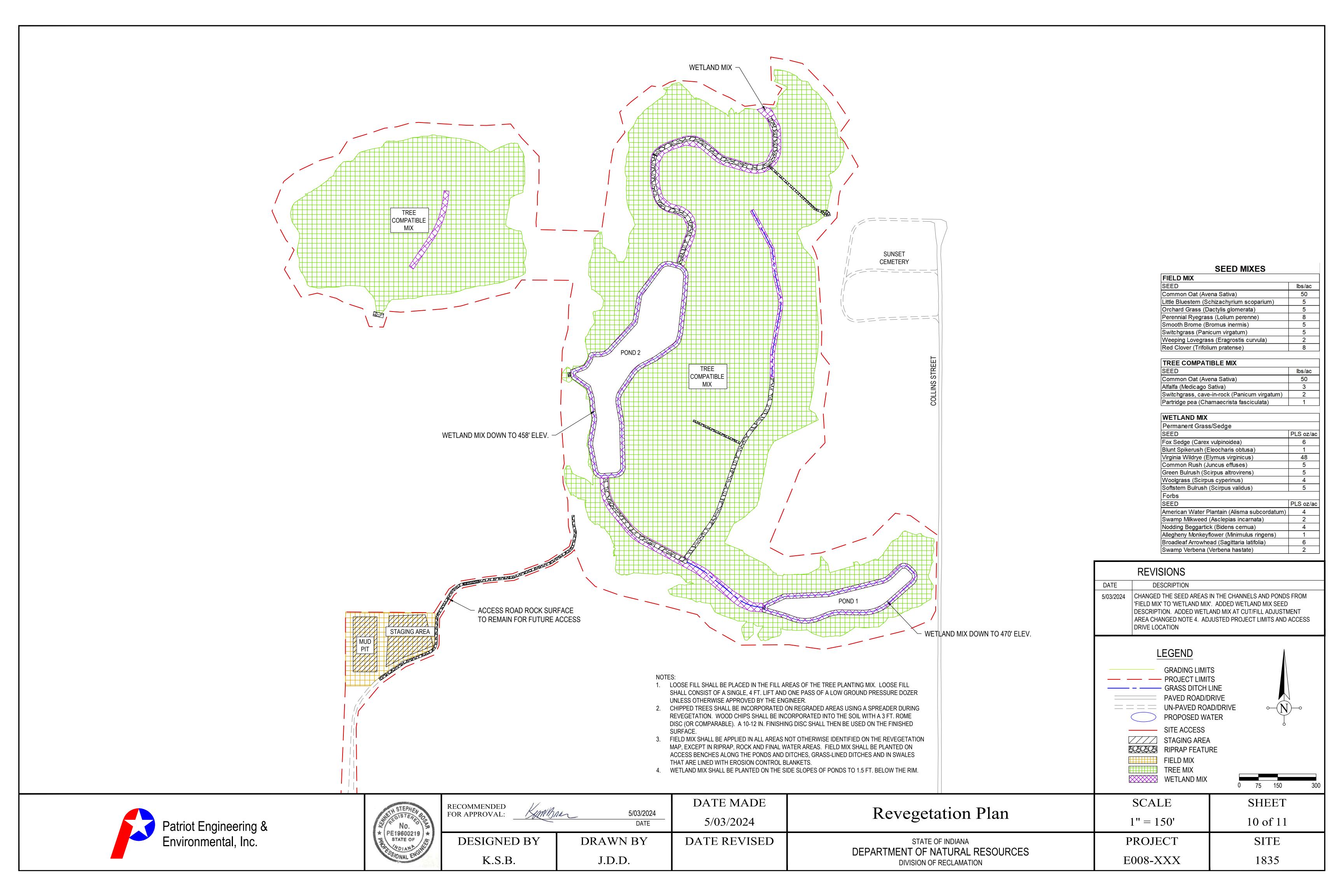
RASOB RASOB	RECOMMENDED FOR APPROVAL:	9/22/2023 DATE
0219 *	DESIGNED BY	DRAWN BY
ENGIL	K.S.B.	J.D.D.

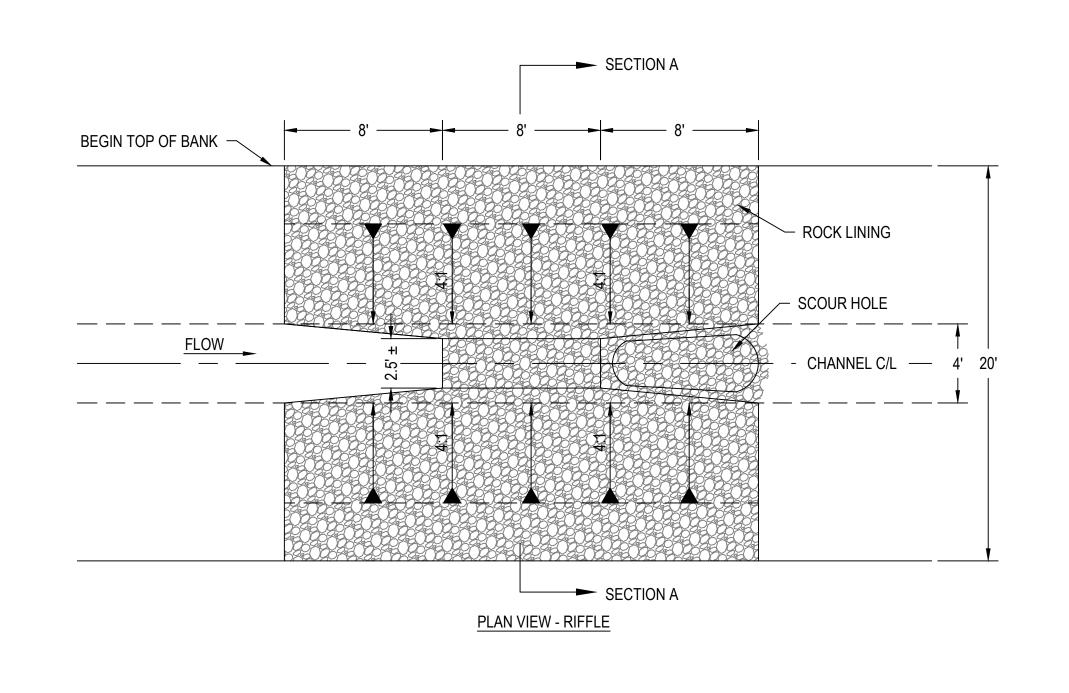
DATE MADE	
9/22/2023	
DATE REVISED	

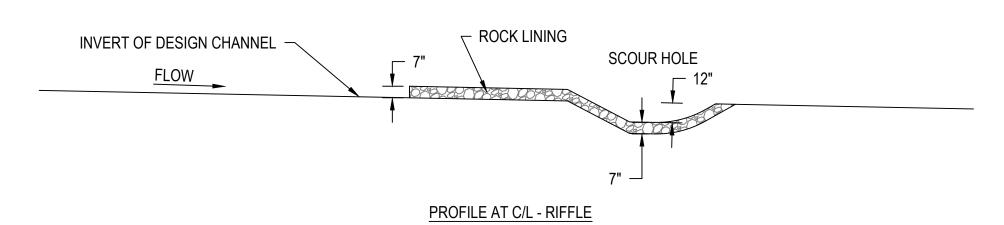
	SCALE	SHEET
Sections	1" = 50'	9 of 11
STATE OF INDIANA	PROJECT	SITE
DEPARTMENT OF NATURAL RESOURCES DIVISION OF RECLAMATION	E008-334	

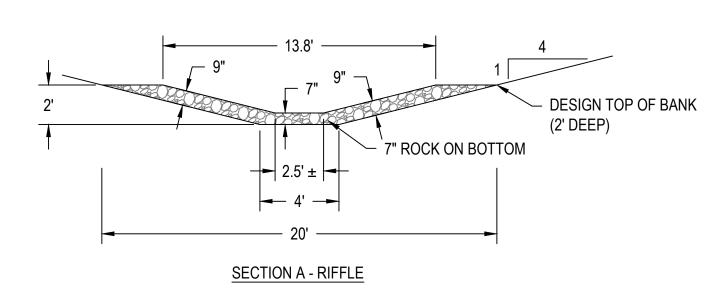
LEGEND CUT AREA

FILL AREA



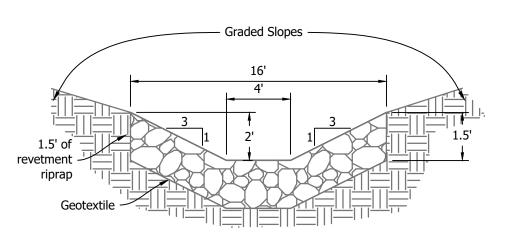




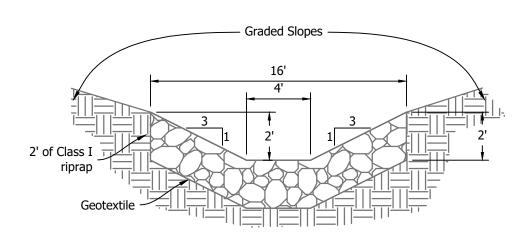


ROCK LINING SHALL BE UNIFORM A RIPRAP IN ACCORDANCE WITH AML PROGRAM - STANDARD SPECIFICATION 601.03



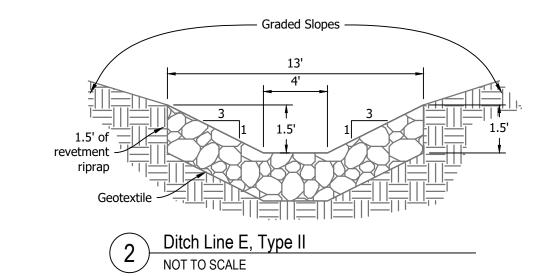


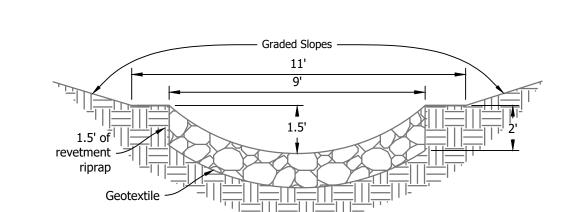
Ditch Lines A, B, & C, Type I



Pond Outlet Structures 1 & 2

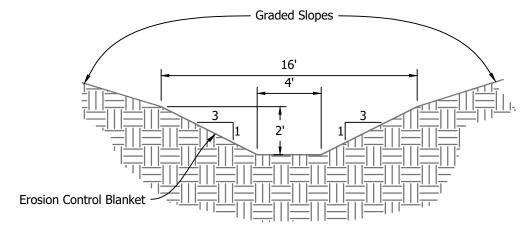
NOT TO SCALE





Ditch Line G & H, Type IV

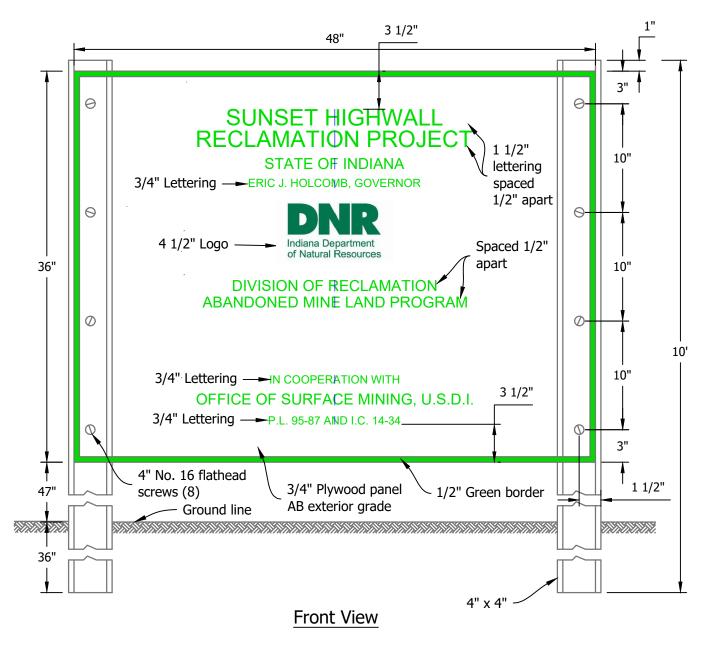
NOT TO SCALE



Ditch Lines D & F, Type III

NOT TO SCALE

NOTE
PLANT FIELD MIX ON DITCH
BOTTOM AND SIDE SLOPES.



Yellow background on front and back
 1" Green lettering, spaced at 1" apart unless otherwise noted

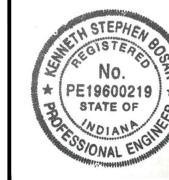
6 Project Sign NOT TO SCALE

4', Minimum
Tree stumps with 10" to 16" diameter trunk, 8' length
Root wad structure shall be constructed with overall diameter of 20'-30'.
Entrench and backfill tree stumps 6' below final surface

7 Fish Habitat Structure - Root Wad Hump
NOT TO SCALE

	REVISIONS	
DATE	DESCRIPTION	
6/042024 ADDED RIFFLE DETAIL 8		
	SCALE	SHEET





CONTROL OF STREET, STR	
H STEPHEN O	
EGISTER OF	
No. S	
E19600219 +	
STATE OF	
NOIAND A	F
SONAL ENGINEER	
AND STREET, SPREASON ST	

RECOMMENDED FOR APPROVAL:
DESIGNE
KCI

K.S.B.

MMENDED	9/04/2024
PPROVAL:	DATE
ESIGNED BY	DRAWN BY

J.D.D

Details
STATE OF INDIANA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF RECLAMATION

,	SCALE	SHEET
AS	S NOTED	11 of 11
P :	ROJECT	SITE
E	008-334	1835